



TEST REPORT

No. I21Z70580-WMD03

for

SAMSUNG Electronics Co., Ltd.

Multi-band GSM/WCDMA/LTE/5GNR Phone with Bluetooth,WLAN

Model Name: SM-A226BR/DSN, SM-A226BR/N

FCC ID: ZCasma226BRN1

with

Hardware Version: REV1.1

Software Version: A226BR.001

Issued Date: 2021-12-20

Note:

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

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CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z70580-WMD03	Rev.0	1 st edition	2021-12-17
I21Z70580-WMD03	Rev.1	2 nd edition Update model name	2021-12-20

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

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1. Test Laboratory

1.1. Introduction & Accreditation

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

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

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

Location 2: CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China 100191

Location 3: 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℃
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2021-02-19
Testing End Date: 2021-12-17

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: Samsung Electronics Co., Ltd.
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2.2. Manufacturer Information

Company Name: Samsung Electronics Co., Ltd.
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Email: ggobi.cho@samsung.com
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Multi-band GSM/WCDMA/LTE/5GNR Phone with Bluetooth,WLAN
Model Name	SM-A226BR/DSN, SM-A226BR/N
FCC ID	ZCASMA226BRN1
Antenna	Embedded
Output power	25.31dBm maximum EIRP measured for LTE Band 2
Extreme vol. Limits	3.5VDC to 4.4VDC (nominal: 3.85VDC)
Extreme temp. Tolerance	-10°C to +55°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	SN	HW Version	SW Version	Date of receipt
UT02a	2170580UT02a	REV1.1	A226BR.001	2021-11-16

*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	SCUD-WT-W1
Manufacturer	SCUD(Fujian)Electronic Co.,Ltd.
Capacitance	4900mAh

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

4. Reference Documents

4.1. Documents supplied by applicant

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

4.2. Reference Documents for testing

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

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

5. Laboratory Environment

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

Semi-anechoic chamber SAC-1 (23 meters × 17 meters × 10 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014 MHz - 1 MHz, > 60 dB; 1 MHz - 1000 MHz, > 90 dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1 GHz to 18 GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Fully-anechoic chamber FAC-3 (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 1 GHz to 18 GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. Summary Of Test Result

LTE Band 2

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

LTE Band 5

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

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	BR
4	Occupied Bandwidth	2.1049	BR
5	Emission Bandwidth	27.53	BR
6	Band Edge Compliance	27.53	BR
7	Conducted Spurious Emission	27.53	BR
8	Peak-to-Average Power Ratio	27.50	BR

LTE Band 12

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

LTE Band 26(814MHz~824MHz)

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

LTE Band 26(824MHz~849MHz)

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

LTE Band 41

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

LTE Band 66

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

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.

Band 66 and Band 12 overlaps the entire frequency range of Band 4 and Band 17. Therefore, test data provided in this report covers Band 4, Band 17 as well as Band 12, Band 66.

LTE Band 41 is tested by power class 3.

Explanation of worst-case configuration

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

The Equipment Under Test (EUT) model SM-A226BR/DSN, SM-A226BR/N (FCC ID: ZCasma226BRN1) is a variant product of SM-A226BR/DSN, SM-A226BR/N (FCC ID: ZCasma226BRN), according to the declaration of changes provided by the applicant and FCC KDB publication 484596 D01, spot check measurements were performed on this device, all the test results are derived from test report No. I21Z70218-WMD03. 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
Radio Communication Analyzer	MT8821C	6201763159	Anritsu	2021-08-12	1 year
Climate Chamber	SH-242	93008556	ESPEC	2023-12-23	3 years
Test Receiver	E4440A	Agilent	MY48250642	2022-03-04	1 year
EMI Antenna	VULB9163	Schwarzbeck	9163-235	2022-04-07	1 year
EMI Antenna	LB-7180-NF	A-INFO	2030013000041	2022-02-28	1 year
EMI Antenna	3117	ETS-Lindgren	00058889	2022-11-07	1 year
Signal Generator	N5183A	Agilent	MY49060052	2022-07-11	1 year
EMI Antenna	9117	Schwarzbeck	167	2022-09-21	1 year
Power Amplifier	5S1G4	AR	0341863	/	/
Universal Radio Communication Tester	CMW500	143008	R&S	2022-12-01	1 year
Universal Radio Communication Tester	MT8821C	Anritsu	6262257899	2022-05-06	1 year

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

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

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

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

A.1.2.2 Measurement Result

LTE band 2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1909.3	23.73	22.65	22.08
		1880.0	23.41	22.84	22.01
		1850.7	23.46	22.53	22.05
	1 RB low	1909.3	23.72	22.66	22.06
		1880.0	23.46	22.85	22.07
		1850.7	23.46	22.53	22.02
	50% RB mid	1909.3	23.59	22.62	22.07
		1880.0	23.42	22.66	21.96
		1850.7	23.59	22.67	21.96
	100% RB	1909.3	22.62	21.74	21.07
		1880.0	22.47	21.30	20.98
		1850.7	22.55	21.67	20.98
3MHz	1 RB high	1908.5	23.83	22.45	22.15
		1880.0	23.63	22.82	22.05
		1851.5	23.68	22.53	22.03
	1 RB low	1908.5	23.71	22.43	22.00
		1880.0	23.57	22.86	22.02
		1851.5	23.70	22.56	22.03
	50% RB mid	1908.5	22.42	21.69	21.13
		1880.0	22.45	21.53	21.05
		1851.5	22.45	21.56	21.04
	100% RB	1908.5	22.47	21.61	21.12
		1880.0	22.45	21.48	20.97

		1851.5	22.46	21.47	21.04
5MHz	1 RB high	1907.5	23.61	22.58	22.09
		1880.0	23.68	22.77	22.07
		1852.5	23.55	23.09	22.00
	1 RB low	1907.5	23.51	22.50	22.12
		1880.0	23.76	22.84	22.09
		1852.5	23.56	23.16	22.08
	50% RB mid	1907.5	22.58	21.62	21.11
		1880.0	22.53	21.53	21.07
		1852.5	22.55	21.63	21.04
	100% RB	1907.5	22.58	21.54	21.15
		1880.0	22.56	21.57	21.12
		1852.5	22.59	21.62	21.09
10MHz	1 RB high	1905.0	23.85	22.52	22.13
		1880.0	23.51	22.33	21.98
		1855.0	23.63	22.90	22.10
	1 RB low	1905.0	23.56	22.47	22.12
		1880.0	23.52	22.39	22.00
		1855.0	23.54	22.88	22.03
	50% RB mid	1905.0	22.58	21.61	21.13
		1880.0	22.55	21.53	21.11
		1855.0	22.51	21.58	21.06
	100% RB	1905.0	22.57	21.50	21.07
		1880.0	22.54	21.45	21.02
		1855.0	22.51	21.62	21.17
15MHz	1 RB high	1902.5	23.67	22.88	22.05
		1880.0	23.53	22.38	21.94
		1857.5	23.77	22.93	22.12
	1 RB low	1902.5	23.62	22.94	21.98
		1880.0	23.61	22.47	22.06
		1857.5	23.81	22.96	21.98
	50% RB mid	1902.5	22.62	21.59	21.10
		1880.0	22.63	21.60	21.10
		1857.5	22.65	21.67	21.11
	100% RB	1902.5	22.61	21.58	21.09
		1880.0	22.63	21.60	21.03
		1857.5	22.71	21.66	21.13
20MHz	1 RB high	1900.0	23.44	22.57	22.08
		1880.0	23.22	22.61	21.92
		1860.0	23.33	22.86	21.95
	1 RB low	1900.0	23.27	22.58	22.03
		1880.0	23.28	22.68	22.02
		1860.0	23.33	22.84	21.97

	50% RB mid	1900.0	22.34	21.36	21.09
		1880.0	22.37	21.30	21.08
		1860.0	22.42	21.43	21.12
	100% RB	1900.0	22.29	21.28	21.06
		1880.0	22.35	21.31	21.09
		1860.0	22.40	21.42	21.13

LTE band 5

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.63	22.81	21.82
		836.5	23.71	22.93	21.82
		824.7	23.74	22.94	21.85
	1 RB low	848.3	23.68	22.89	21.77
		836.5	23.75	22.99	21.80
		824.7	23.73	22.99	21.86
	50% RB mid	848.3	23.69	22.75	21.73
		836.5	23.75	22.71	21.78
		824.7	23.74	22.75	21.77
	100% RB	848.3	22.66	21.72	20.60
		836.5	22.79	21.86	20.71
		824.7	22.72	21.79	20.65
3MHz	1 RB high	847.5	23.62	22.73	21.76
		836.5	23.72	22.95	21.83
		825.5	23.77	23.00	21.96
	1 RB low	847.5	23.66	22.96	21.75
		836.5	23.73	23.03	21.87
		825.5	23.72	23.02	21.87
	50% RB mid	847.5	22.67	21.71	20.62
		836.5	22.77	21.82	20.77
		825.5	22.73	21.77	20.68
	100% RB	847.5	22.64	21.70	20.61
		836.5	22.72	21.74	20.72
		825.5	22.73	21.75	20.65
5MHz	1 RB high	846.5	23.67	22.76	21.77
		836.5	23.82	22.89	21.99
		826.5	23.87	23.03	21.98
	1 RB low	846.5	23.76	23.00	21.90
		836.5	23.80	22.99	21.96
		826.5	23.80	22.95	21.85
	50% RB mid	846.5	22.68	21.66	20.68
		836.5	22.77	21.73	20.74
		826.5	22.80	21.78	20.75
	100% RB	846.5	22.68	21.69	20.67
		836.5	22.75	21.73	20.69
		826.5	22.82	21.81	20.78
10MHz	1 RB high	844.0	23.64	22.87	21.74
		836.5	23.80	22.99	21.86
		829.0	23.79	23.04	21.83
	1 RB low	844.0	23.82	22.96	21.93

		836.5	23.86	22.95	21.87
		829.0	23.82	22.97	21.88
	50% RB mid	844.0	22.71	21.76	20.75
		836.5	22.78	21.78	20.75
		829.0	22.84	21.80	20.78
	100% RB	844.0	22.78	21.74	20.73
		836.5	22.77	21.74	20.73
		829.0	22.82	21.80	20.78

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2567.5	23.73	22.54	22.01
		2535.0	23.76	22.91	22.10
		2502.5	23.41	22.84	21.94
	1 RB low	2567.5	23.76	22.73	22.04
		2535.0	23.69	22.74	22.10
		2502.5	23.49	23.01	21.84
	50% RB mid	2567.5	22.67	21.76	21.16
		2535.0	22.63	21.67	21.17
		2502.5	22.63	21.71	20.76
	100% RB	2567.5	22.71	21.66	21.14
		2535.0	22.69	21.69	21.17
		2502.5	22.63	21.67	20.81
10MHz	1 RB high	2565.0	23.81	22.66	22.06
		2535.0	23.71	22.55	22.14
		2505.0	23.71	22.96	21.85
	1 RB low	2565.0	23.68	22.60	22.19
		2535.0	23.60	22.43	22.01
		2505.0	23.58	22.89	21.89
	50% RB mid	2565.0	22.60	21.81	21.15
		2535.0	22.62	21.67	21.16
		2505.0	22.61	21.62	20.75
	100% RB	2565.0	22.67	21.74	21.20
		2535.0	22.69	21.65	21.18
		2505.0	22.67	21.64	20.77
15MHz	1 RB high	2562.5	23.87	22.98	22.02
		2535.0	23.66	22.88	22.09
		2507.5	23.46	22.34	21.81
	1 RB low	2562.5	23.80	22.96	22.08
		2535.0	23.55	22.73	22.00
		2507.5	23.56	22.40	21.86
	50% RB mid	2562.5	22.63	21.72	21.17
		2535.0	22.64	21.60	21.19
		2507.5	22.54	21.54	20.77
	100% RB	2562.5	22.66	21.69	21.09
		2535.0	22.61	21.62	21.13
		2507.5	22.54	21.54	20.73
20MHz	1 RB high	2560.0	23.40	22.84	21.91
		2535.0	23.44	23.03	22.00
		2510.0	23.43	22.58	21.92
	1 RB low	2560.0	23.34	22.78	22.05

		2535.0	23.31	22.94	22.00
		2510.0	23.44	22.64	21.85
	50% RB mid	2560.0	22.45	21.46	21.11
		2535.0	22.54	21.54	21.21
		2510.0	22.42	21.42	20.74
	100% RB	2560.0	22.44	21.42	21.12
		2535.0	22.52	21.54	21.17
		2510.0	22.35	21.35	20.72

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	715.3	23.88	23.15	22.00
		707.5	23.77	23.10	21.99
		699.7	23.85	23.15	21.95
	1 RB low	715.3	23.81	23.15	21.93
		707.5	23.82	23.05	22.00
		699.7	23.83	23.13	22.00
	50% RB mid	715.3	23.89	22.85	21.90
		707.5	23.80	22.73	21.85
		699.7	23.87	22.84	21.94
	100% RB	715.3	22.87	21.91	20.78
		707.5	22.81	21.85	20.73
		699.7	22.85	21.87	20.78
3MHz	1 RB high	714.5	23.90	23.07	22.02
		707.5	23.76	23.02	21.90
		700.5	23.82	23.05	21.88
	1 RB low	714.5	23.81	22.99	21.85
		707.5	23.82	23.02	21.89
		700.5	23.89	23.10	21.95
	50% RB mid	714.5	22.83	21.84	20.79
		707.5	22.77	21.86	20.81
		700.5	22.81	21.86	20.80
	100% RB	714.5	22.82	21.84	20.78
		707.5	22.71	21.80	20.73
		700.5	22.83	21.79	20.75
5MHz	1 RB high	713.5	23.91	23.15	21.94
		707.5	23.82	23.01	21.95
		701.5	23.84	23.17	21.89
	1 RB low	713.5	23.81	23.06	21.97
		707.5	23.91	23.13	22.06
		701.5	23.91	23.19	22.00
	50% RB mid	713.5	22.77	21.76	20.77
		707.5	22.79	21.77	20.74
		701.5	22.82	21.82	20.83
	100% RB	713.5	22.83	21.80	20.82
		707.5	22.78	21.78	20.74
		701.5	22.86	21.81	20.78
10MHz	1 RB high	711.0	23.86	23.08	21.93
		707.5	23.74	22.95	21.74
		704.0	23.72	22.97	21.81
	1 RB low	711.0	23.82	23.09	21.88

		707.5	23.82	23.04	21.95
		704.0	23.92	23.10	21.93
	50% RB mid	711.0	22.74	21.74	20.70
		707.5	22.73	21.74	20.73
		704.0	22.78	21.79	20.77
	100% RB	711.0	22.61	21.59	20.57
		707.5	22.73	21.66	20.64
		704.0	22.97	21.92	20.90

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	823.3	23.24	22.35	21.74
		819.0	23.29	22.37	21.82
		814.7	23.20	22.37	21.75
	1 RB low	823.3	23.22	22.31	21.77
		819.0	23.25	22.35	21.83
		814.7	23.22	22.37	21.80
	50% RB mid	823.3	23.31	22.47	21.70
		819.0	23.38	22.53	21.79
		814.7	23.30	22.54	21.76
	100% RB	823.3	22.31	21.46	20.58
		819.0	22.39	21.54	20.62
		814.7	22.40	21.26	20.64
3MHz	1 RB high	822.5	23.28	22.34	21.76
		819.0	23.29	22.48	21.81
		815.5	23.29	22.41	21.77
	1 RB low	822.5	23.26	22.36	21.80
		819.0	23.29	22.55	21.82
		815.5	23.28	22.39	21.81
	50% RB mid	822.5	22.32	21.41	20.66
		819.0	22.30	21.44	20.71
		815.5	22.30	21.42	20.69
	100% RB	822.5	22.34	21.36	20.64
		819.0	22.35	21.40	20.66
		815.5	22.31	21.37	20.62
5MHz	1 RB high	821.5	23.38	22.42	21.74
		819.0	23.38	22.66	21.83
		816.5	23.46	22.46	21.84
	1 RB low	821.5	23.41	22.44	21.84
		819.0	23.35	22.67	21.81
		816.5	23.39	22.43	21.81
	50% RB mid	821.5	22.37	21.47	20.64
		819.0	22.42	21.52	20.71
		816.5	22.39	21.50	20.67
	100% RB	821.5	22.37	21.42	20.63
		819.0	22.36	21.44	20.63
		816.5	22.38	21.46	20.66
10MHz	1 RB high	819.0	23.35	22.50	21.74
	1 RB low	819.0	23.32	22.51	21.82
	50% RB mid	819.0	22.35	21.43	20.67
	100% RB	819.0	22.38	21.39	20.64

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	848.3	23.12	22.38	21.74
		836.5	23.24	22.36	21.83
		824.7	23.14	22.29	21.88
	1 RB low	848.3	23.15	22.26	21.83
		836.5	23.23	22.33	21.79
		824.7	23.19	22.29	21.77
	50% RB mid	848.3	23.15	22.53	21.72
		836.5	23.23	22.52	21.69
		824.7	23.27	22.49	21.76
	100% RB	848.3	22.32	21.17	20.56
		836.5	22.32	21.18	20.61
		824.7	22.33	21.22	20.66
3MHz	1 RB high	847.5	23.21	22.31	21.71
		836.5	23.27	22.46	21.82
		825.5	23.30	22.37	21.77
	1 RB low	847.5	23.27	22.39	21.75
		836.5	23.26	22.53	21.79
		825.5	23.25	22.33	21.84
	50% RB mid	847.5	22.34	21.38	20.63
		836.5	22.33	21.42	20.66
		825.5	22.30	21.41	20.68
	100% RB	847.5	22.31	21.38	20.60
		836.5	22.36	21.39	20.65
		825.5	22.29	21.34	20.64
5MHz	1 RB high	846.5	23.35	22.36	21.73
		836.5	23.41	22.70	21.83
		826.5	23.44	22.45	21.86
	1 RB low	846.5	23.39	22.42	21.84
		836.5	23.37	22.69	21.82
		826.5	23.35	22.39	21.82
	50% RB mid	846.5	22.39	21.49	20.64
		836.5	22.40	21.49	20.67
		826.5	22.35	21.48	20.74
	100% RB	846.5	22.36	21.43	20.61
		836.5	22.40	21.46	20.67
		826.5	22.36	21.45	20.68
10MHz	1 RB high	844.0	23.29	22.42	21.68
		836.5	23.36	22.51	21.74
		829.0	23.32	22.36	21.76
	1 RB low	844.0	23.34	22.37	21.79

		836.5	23.30	22.51	21.83
		829.0	23.29	22.31	21.85
	50% RB mid	844.0	22.37	21.46	20.67
		836.5	22.43	21.47	20.66
		829.0	22.40	21.44	20.69
	100% RB	844.0	22.44	21.42	20.64
		836.5	22.44	21.43	20.68
		829.0	22.39	21.41	20.67
15MHz	1 RB high	841.5	23.17	22.64	21.67
		836.5	23.32	22.47	21.71
		831.5	23.28	22.45	21.66
	1 RB low	841.5	23.24	22.70	21.78
		836.5	23.31	22.50	21.83
		831.5	23.25	22.44	21.76
	50% RB mid	841.5	22.39	21.44	20.63
		836.5	22.37	21.43	20.66
		831.5	22.31	21.40	20.69
	100% RB	841.5	22.36	21.39	20.57
		836.5	22.37	21.38	20.64
		831.5	22.32	21.35	20.61

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
5MHz	1 RB high	2687.5	23.45	22.43	21.87
		2593.0	23.43	22.21	21.59
		2498.5	23.18	22.28	21.47
	1 RB low	2687.5	23.49	22.41	21.86
		2593.0	23.36	22.15	21.60
		2498.5	23.18	22.29	21.47
	50% RB mid	2687.5	22.43	21.51	21.24
		2593.0	22.28	21.25	21.11
		2498.5	22.23	21.25	21.05
	100% RB	2687.5	22.41	21.58	21.30
		2593.0	22.32	21.27	21.14
		2498.5	22.27	21.24	21.10
10MHz	1 RB high	2685.0	23.39	22.36	21.84
		2593.0	23.39	22.21	21.52
		2501.0	23.22	22.35	21.48
	1 RB low	2685.0	23.36	22.37	21.94
		2593.0	23.34	22.15	21.57
		2501.0	23.16	22.30	21.44
	50% RB mid	2685.0	22.44	21.58	21.34
		2593.0	22.31	21.31	21.23
		2501.0	22.28	21.26	21.09
	100% RB	2685.0	22.45	21.60	21.29
		2593.0	22.33	21.26	21.14
		2501.0	22.25	21.27	21.08
15MHz	1 RB high	2682.5	23.36	22.41	21.78
		2593.0	23.28	22.25	21.51
		2503.5	23.28	22.12	21.49
	1 RB low	2682.5	23.35	22.39	21.89
		2593.0	23.23	22.18	21.56
		2503.5	23.27	22.09	21.45
	50% RB mid	2682.5	22.42	21.61	21.24
		2593.0	22.32	21.23	21.14
		2503.5	22.23	21.16	20.96
	100% RB	2682.5	22.43	21.54	21.22
		2593.0	22.29	21.25	21.15
		2503.5	22.21	21.20	21.00
20MHz	1 RB high	2680.0	23.09	22.04	21.78
		2593.0	23.04	22.08	21.49
		2506.0	23.01	21.79	21.48
	1 RB low	2680.0	23.08	22.00	21.91

		2593.0	22.94	22.00	21.54
		2506.0	22.99	21.76	21.38
	50% RB mid	2680.0	22.14	21.25	21.29
		2593.0	22.05	21.06	21.10
		2506.0	22.06	21.01	21.08
	100% RB	2680.0	22.11	21.25	21.25
		2593.0	22.03	20.98	21.15
		2506.0	22.02	20.97	21.04

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)		
			QPSK	16QAM	64QAM
1.4MHz	1 RB high	1779.3	23.84	22.90	22.14
		1745.0	23.89	23.00	22.10
		1710.7	23.78	23.02	22.05
	1 RB low	1779.3	23.87	23.06	22.09
		1745.0	23.86	23.01	22.12
		1710.7	23.80	22.89	22.00
	50% RB mid	1779.3	23.89	22.89	22.04
		1745.0	23.86	22.82	22.04
		1710.7	23.77	22.70	21.91
	100% RB	1779.3	22.87	22.02	20.95
		1745.0	22.82	22.04	20.89
		1710.7	22.75	21.93	20.80
3MHz	1 RB high	1778.5	23.84	22.96	22.06
		1745.0	23.90	22.98	22.05
		1711.5	23.75	22.91	21.99
	1 RB low	1778.5	23.87	23.04	22.09
		1745.0	23.88	23.09	22.12
		1711.5	23.80	22.91	21.98
	50% RB mid	1778.5	22.86	22.07	21.03
		1745.0	22.79	22.00	20.97
		1711.5	22.70	21.88	20.88
	100% RB	1778.5	22.84	22.04	20.94
		1745.0	22.77	21.97	20.93
		1711.5	22.73	21.91	20.84
5MHz	1 RB high	1777.5	23.92	23.03	22.05
		1745.0	23.90	23.02	22.15
		1712.5	23.81	23.02	22.03
	1 RB low	1777.5	23.88	23.10	22.09
		1745.0	23.93	23.09	22.14
		1712.5	23.87	22.96	22.06
	50% RB mid	1777.5	22.91	21.99	20.98
		1745.0	22.84	21.94	20.97
		1712.5	22.78	21.91	20.93
	100% RB	1777.5	22.92	22.02	20.98
		1745.0	22.82	21.99	20.96
		1712.5	22.79	21.95	20.91
10MHz	1 RB high	1775.0	23.91	23.08	22.10
		1745.0	23.92	23.01	22.12
		1715.0	23.82	23.08	22.00
	1 RB low	1775.0	23.90	23.09	22.06

		1745.0	23.93	23.00	22.09
		1715.0	23.82	22.90	22.04
	50% RB mid	1775.0	22.90	21.97	20.98
		1745.0	22.86	22.03	20.97
		1715.0	22.75	21.91	20.89
	100% RB	1775.0	22.87	22.01	20.98
		1745.0	22.90	22.01	20.98
		1715.0	22.78	21.94	20.88
15MHz	1 RB high	1772.5	23.81	23.01	21.97
		1745.0	23.84	23.00	21.98
		1717.5	23.72	22.93	21.95
	1 RB low	1772.5	23.82	22.97	22.13
		1745.0	23.86	22.91	22.10
		1717.5	23.74	22.95	21.99
	50% RB mid	1772.5	22.85	21.97	20.93
		1745.0	22.85	21.94	20.97
		1717.5	22.78	21.87	20.96
	100% RB	1772.5	22.85	21.97	20.97
		1745.0	22.86	21.94	20.94
		1717.5	22.79	21.94	20.88
20MHz	1 RB high	1770.0	23.60	22.79	21.91
		1745.0	23.76	22.94	21.96
		1720.0	23.67	22.83	21.88
	1 RB low	1770.0	23.69	22.77	21.91
		1745.0	23.66	22.81	21.86
		1720.0	23.61	22.72	21.86
	50% RB mid	1770.0	22.74	21.90	20.89
		1745.0	22.77	21.92	20.89
		1720.0	22.72	21.81	20.79
	100% RB	1770.0	22.70	21.84	20.82
		1745.0	22.78	21.90	20.82
		1720.0	22.74	21.80	20.83

A.1.3 Radiated

A.1.3.1 Description

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

Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

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

Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

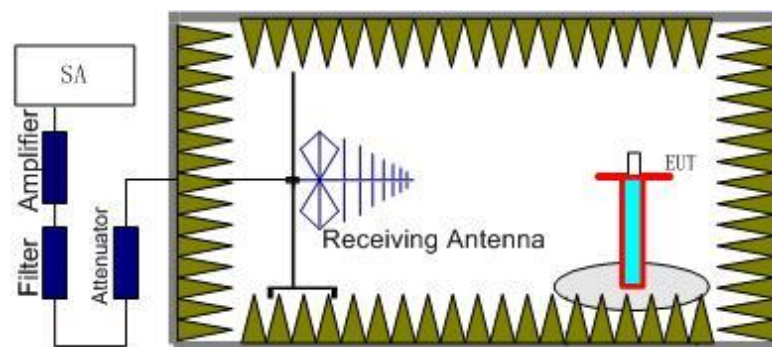
Part 27.50(c)(10) specifies "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

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

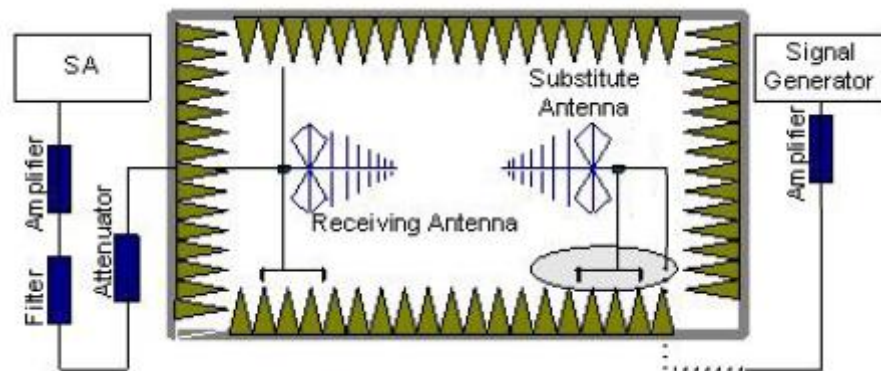
A.1.3.2 Method of Measurement

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

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 transmit frequencies in three channels (High, Middle, Low) were measured with rms detector.



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



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

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna.
The cable loss (P_{cl}), the substitution antenna Gain (G_a) and the amplifier Gain (P_{Ag}) should be recorded after test.

The measurement results are obtained as described below:

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

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, $ERP = EIRP - 2.15$.

A.1.3.3 Measurement result

Spot Check Measurement Results:

LTE Band 7-EIRP

Limits: ≤ 33 dBm (2W)

LTE Band 7_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-23.53	6.07	45.68	6.10	22.18	33.00	10.82	H
2535.00	-23.25	6.16	44.82	6.16	21.57	33.00	11.43	H
2567.50	-23.33	6.19	44.92	6.22	21.62	33.00	11.38	H

LTE Band 7_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-23.49	6.08	45.64	6.11	22.18	33.00	10.82	H
2535.00	-23.27	6.16	44.82	6.16	21.55	33.00	11.45	H
2565.00	-23.36	6.17	44.97	6.22	21.66	33.00	11.34	H

LTE Band 7_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-23.63	6.08	44.92	6.11	21.32	33.00	11.68	H
2535.00	-23.29	6.16	44.82	6.16	21.53	33.00	11.47	H
2562.50	-24.21	6.17	45.67	6.21	21.50	33.00	11.50	H

LTE Band 7_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-23.08	6.07	45.36	6.12	22.33	33.00	10.67	H
2535.00	-23.50	6.16	44.82	6.16	21.32	33.00	11.68	H
2560.00	-24.03	6.17	45.98	6.21	21.99	33.00	11.01	H

LTE Band 7_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-24.99	6.07	45.68	6.10	20.72	33.00	12.28	H
2535.00	-24.03	6.16	44.82	6.16	20.79	33.00	12.21	H
2567.50	-24.06	6.19	44.92	6.22	20.89	33.00	12.11	H

LTE Band 7_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-24.22	6.08	45.64	6.11	21.45	33.00	11.55	H
2535.00	-24.03	6.16	44.82	6.16	20.79	33.00	12.21	H
2565.00	-24.10	6.17	44.97	6.22	20.92	33.00	12.08	H

LTE Band 7_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-24.10	6.08	44.92	6.11	20.85	33.00	12.15	H
2535.00	-24.14	6.16	44.82	6.16	20.68	33.00	12.32	H
2562.50	-24.98	6.17	45.67	6.21	20.73	33.00	12.27	H

LTE Band 7_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-24.70	6.07	45.36	6.12	20.71	33.00	12.29	H
2535.00	-24.15	6.16	44.82	6.16	20.67	33.00	12.33	H
2560.00	-24.12	6.17	45.98	6.21	21.90	33.00	11.10	H

LTE Band 7_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-25.38	6.07	45.68	6.10	20.33	33.00	12.67	H
2535.00	-25.09	6.16	44.82	6.16	19.73	33.00	13.27	H
2567.50	-25.18	6.19	44.92	6.22	19.77	33.00	13.23	H

LTE Band 7_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-25.31	6.08	45.64	6.11	20.36	33.00	12.64	H
2535.00	-25.12	6.16	44.82	6.16	19.70	33.00	13.30	H
2565.00	-25.20	6.17	44.97	6.22	19.82	33.00	13.18	H

LTE Band 7_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-25.48	6.08	44.92	6.11	19.47	33.00	13.53	H
2535.00	-25.13	6.16	44.82	6.16	19.69	33.00	13.31	H
2562.50	-25.01	6.17	45.67	6.21	20.70	33.00	12.30	H

LTE Band 7_20 MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-25.82	6.07	45.36	6.12	19.59	33.00	13.41	H
2535.00	-25.27	6.16	44.82	6.16	19.55	33.00	13.45	H
2560.00	-25.21	6.17	45.98	6.21	20.81	33.00	12.19	H

Reference Measurement Results from basic model:

LTE Band 2-EIRP

Limits: ≤33dBm (2W)

LTE Band 2_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-23.57	2.92	43.75	4.87	22.13	33.00	10.87	H
1880.00	-23.26	2.85	43.75	4.82	22.46	33.00	10.54	H
1909.30	-22.01	2.87	43.77	4.76	23.65	33.00	9.35	H

LTE Band 2_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-23.49	2.87	43.75	4.87	22.26	33.00	10.74	H
1880.00	-21.02	2.85	43.75	4.82	24.70	33.00	8.30	H
1908.50	-20.34	2.89	43.78	4.76	25.31	33.00	7.69	H

LTE Band 2_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-23.35	2.87	43.75	4.87	22.40	33.00	10.60	H
1880.00	-20.93	2.85	43.75	4.82	24.79	33.00	8.21	H
1907.50	-20.48	2.84	43.77	4.77	25.22	33.00	7.78	H

LTE Band 2_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-23.24	2.88	43.74	4.86	22.48	33.00	10.52	H
1880.00	-21.00	2.85	43.75	4.82	24.72	33.00	8.28	H
1905.00	-20.75	2.87	43.77	4.77	24.92	33.00	8.08	H

LTE Band 2_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-23.01	2.87	43.75	4.86	22.73	33.00	10.27	H
1880.00	-21.01	2.85	43.75	4.82	24.71	33.00	8.29	H
1902.50	-20.97	2.86	43.77	4.78	24.72	33.00	8.28	H

LTE Band 2_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-22.72	2.86	43.75	4.85	23.02	33.00	9.98	H
1880.00	-20.97	2.85	43.75	4.82	24.75	33.00	8.25	H
1900.00	-20.93	2.87	43.77	4.78	24.75	33.00	8.25	H

LTE Band 2_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-23.57	2.92	43.75	4.87	22.13	33.00	10.87	H
1880.00	-24.17	2.85	43.75	4.82	21.55	33.00	11.45	H
1909.30	-22.85	2.87	43.77	4.76	22.81	33.00	10.19	H

LTE Band 2_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-24.59	2.87	43.75	4.87	21.16	33.00	11.84	H
1880.00	-24.08	2.85	43.75	4.82	21.64	33.00	11.36	H
1908.50	-23.02	2.89	43.78	4.76	22.63	33.00	10.37	H

LTE Band 2_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-24.44	2.87	43.75	4.87	21.31	33.00	11.69	H
1880.00	-24.20	2.85	43.75	4.82	21.52	33.00	11.48	H
1907.50	-23.23	2.84	43.77	4.77	22.47	33.00	10.53	H

LTE Band 2_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-24.41	2.88	43.74	4.86	21.31	33.00	11.69	H
1880.00	-24.08	2.85	43.75	4.82	21.64	33.00	11.36	H
1905.00	-23.96	2.87	43.77	4.77	21.71	33.00	11.29	H

LTE Band 2_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-24.33	2.87	43.75	4.86	21.41	33.00	11.59	H
1880.00	-24.09	2.85	43.75	4.82	21.63	33.00	11.37	H
1902.50	-24.23	2.86	43.77	4.78	21.46	33.00	11.54	H

LTE Band 2_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-24.16	2.86	43.75	4.85	21.58	33.00	11.42	H
1880.00	-24.12	2.85	43.75	4.82	21.60	33.00	11.40	H
1900.00	-24.53	2.87	43.77	4.78	21.15	33.00	11.85	H

LTE Band 2_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.70	-25.66	2.92	43.75	4.87	20.04	33.00	12.96	H
1880.00	-25.38	2.85	43.75	4.82	20.34	33.00	12.66	H
1909.30	-24.06	2.87	43.77	4.76	21.60	33.00	11.40	H

LTE Band 2_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.50	-25.82	2.87	43.75	4.87	19.93	33.00	13.07	H
1880.00	-25.21	2.85	43.75	4.82	20.51	33.00	12.49	H
1908.50	-24.17	2.89	43.78	4.76	21.48	33.00	11.52	H

LTE Band 2_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.50	-24.59	2.87	43.75	4.87	21.16	33.00	11.84	H
1880.00	-25.45	2.85	43.75	4.82	20.27	33.00	12.73	H
1907.50	-24.37	2.84	43.77	4.77	21.33	33.00	11.67	H

LTE Band 2_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.00	-25.63	2.88	43.74	4.86	20.09	33.00	12.91	H
1880.00	-25.18	2.85	43.75	4.82	20.54	33.00	12.46	H
1905.00	-25.12	2.87	43.77	4.77	20.55	33.00	12.45	H

LTE Band 2_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.50	-25.59	2.87	43.75	4.86	20.15	33.00	12.85	H
1880.00	-25.30	2.85	43.75	4.82	20.42	33.00	12.58	H
1902.50	-25.36	2.86	43.77	4.78	20.33	33.00	12.67	H

LTE Band 2_20 MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1860.00	-25.38	2.86	43.75	4.85	20.36	33.00	12.64	H
1880.00	-25.24	2.85	43.75	4.82	20.48	33.00	12.52	H
1900.00	-25.61	2.87	43.77	4.78	20.07	33.00	12.93	H

LTE Band 5-ERP

Limits: $\leq 38.45\text{dBm}$ (7W)

LTE Band 5_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-23.29	2.26	45.79	0.95	2.15	19.04	38.45	19.41	H
836.50	-23.15	2.26	45.66	0.82	2.15	18.92	38.45	19.53	H
848.30	-24.08	2.27	45.55	0.80	2.15	17.85	38.45	20.60	H

LTE Band 5_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-23.35	2.26	45.79	0.94	2.15	18.97	38.45	19.48	H
836.50	-23.19	2.26	45.66	0.82	2.15	18.88	38.45	19.57	H
847.50	-24.05	2.27	45.56	0.81	2.15	17.90	38.45	20.55	H

LTE Band 5_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-23.35	2.25	45.77	0.93	2.15	18.95	38.45	19.50	H
836.50	-23.18	2.26	45.66	0.82	2.15	18.89	38.45	19.56	H
846.50	-23.96	2.26	45.56	0.82	2.15	18.01	38.45	20.44	H

LTE Band 5_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-23.40	2.25	45.77	0.90	2.15	18.87	38.45	19.58	H
836.50	-23.21	2.26	45.66	0.82	2.15	18.86	38.45	19.59	H
844.00	-23.92	2.26	45.59	0.82	2.15	18.08	38.45	20.37	H

LTE Band 5_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-24.01	2.26	45.79	0.95	2.15	18.32	38.45	20.13	H
836.50	-23.88	2.26	45.66	0.82	2.15	18.19	38.45	20.26	H
848.30	-24.83	2.27	45.55	0.80	2.15	17.10	38.45	21.35	H

LTE Band 5_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-24.08	2.26	45.79	0.94	2.15	18.24	38.45	20.21	H
836.50	-23.92	2.26	45.66	0.82	2.15	18.15	38.45	20.30	H
847.50	-24.77	2.27	45.56	0.81	2.15	17.18	38.45	21.27	H

LTE Band 5_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-24.10	2.25	45.77	0.93	2.15	18.20	38.45	20.25	H
836.50	-23.95	2.26	45.66	0.82	2.15	18.12	38.45	20.33	H
846.50	-24.72	2.26	45.56	0.82	2.15	17.25	38.45	21.20	H

LTE Band 5_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-24.15	2.25	45.77	0.90	2.15	18.12	38.45	20.33	H
836.50	-23.96	2.26	45.66	0.82	2.15	18.11	38.45	20.34	H
844.00	-24.65	2.26	45.59	0.82	2.15	17.35	38.45	21.10	H

LTE Band 5_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-25.10	2.26	45.79	0.95	2.15	17.23	38.45	21.22	H
836.50	-24.96	2.26	45.66	0.82	2.15	17.11	38.45	21.34	H
848.30	-25.91	2.27	45.55	0.80	2.15	16.02	38.45	22.43	H

LTE Band 5_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-25.15	2.26	45.79	0.94	2.15	17.17	38.45	21.28	H
836.50	-24.99	2.26	45.66	0.82	2.15	17.08	38.45	21.37	H
847.50	-25.85	2.27	45.56	0.81	2.15	16.10	38.45	22.35	H

LTE Band 5_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-25.19	2.25	45.77	0.93	2.15	17.11	38.45	21.34	H
836.50	-25.02	2.26	45.66	0.82	2.15	17.05	38.45	21.40	H
846.50	-25.80	2.26	45.56	0.82	2.15	16.17	38.45	22.28	H

LTE Band 5_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-25.23	2.25	45.77	0.90	2.15	17.04	38.45	21.41	H
836.50	-25.04	2.26	45.66	0.82	2.15	17.03	38.45	21.42	H
844.00	-25.76	2.26	45.59	0.82	2.15	16.24	38.45	22.21	H

LTE Band 7-EIRP

Limits: ≤ 33 dBm (2W)

LTE Band 7_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-25.50	3.58	45.68	6.10	22.70	33.00	10.30	V
2535.00	-23.87	3.63	44.82	6.16	23.48	33.00	9.52	H
2567.50	-24.40	3.65	44.92	6.22	23.09	33.00	9.91	V

LTE Band 7_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-25.53	3.59	45.64	6.11	22.63	33.00	10.37	V
2535.00	-23.76	3.63	44.82	6.16	23.59	33.00	9.41	H
2565.00	-24.12	3.65	44.97	6.22	23.42	33.00	9.58	V

LTE Band 7_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-25.01	3.59	44.92	6.11	22.43	33.00	10.57	H
2535.00	-23.83	3.63	44.82	6.16	23.52	33.00	9.48	H
2562.50	-24.77	3.65	45.67	6.21	23.46	33.00	9.54	V

LTE Band 7_20 MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-25.53	3.58	45.36	6.12	22.37	33.00	10.63	H
2535.00	-23.89	3.63	44.82	6.16	23.46	33.00	9.54	H
2560.00	-25.00	3.64	45.98	6.21	23.55	33.00	9.45	V

LTE Band 7_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-26.85	3.58	45.68	6.10	21.35	33.00	11.65	H
2535.00	-25.16	3.63	44.82	6.16	22.19	33.00	10.81	H
2567.50	-26.15	3.65	44.92	6.22	21.34	33.00	11.66	H

LTE Band 7_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-27.11	3.59	45.64	6.11	21.05	33.00	11.95	H
2535.00	-25.11	3.63	44.82	6.16	22.24	33.00	10.76	H
2565.00	-26.07	3.65	44.97	6.22	21.47	33.00	11.53	H

LTE Band 7_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-26.55	3.59	44.92	6.11	20.89	33.00	12.11	H
2535.00	-25.12	3.63	44.82	6.16	22.23	33.00	10.77	H
2562.50	-26.44	3.65	45.67	6.21	21.79	33.00	11.21	H

LTE Band 7_20 MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-26.94	3.58	45.36	6.12	20.96	33.00	12.04	H
2535.00	-25.14	3.63	44.82	6.16	22.21	33.00	10.79	H
2560.00	-26.69	3.64	45.98	6.21	21.86	33.00	11.14	H

LTE Band 7_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.50	-27.96	3.58	45.68	6.10	20.24	33.00	12.76	H
2535.00	-26.25	3.63	44.82	6.16	21.10	33.00	11.90	H
2567.50	-27.26	3.65	44.92	6.22	20.23	33.00	12.77	H

LTE Band 7_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505.00	-28.21	3.59	45.64	6.11	19.95	33.00	13.05	H
2535.00	-26.28	3.63	44.82	6.16	21.07	33.00	11.93	H
2565.00	-27.19	3.65	44.97	6.22	20.35	33.00	12.65	H

LTE Band 7_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.50	-27.66	3.59	44.92	6.11	19.78	33.00	13.22	H
2535.00	-26.24	3.63	44.82	6.16	21.11	33.00	11.89	H
2562.50	-27.57	3.65	45.67	6.21	20.66	33.00	12.34	H

LTE Band 7_20 MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-27.97	3.58	45.36	6.12	19.93	33.00	13.07	H
2535.00	-26.22	3.63	44.82	6.16	21.13	33.00	11.87	H
2560.00	-27.82	3.64	45.98	6.21	20.73	33.00	12.27	H

LTE Band 12 -ERP

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

LTE Band 12_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-24.37	1.90	44.66	0.77	2.15	17.01	34.77	17.76	H
707.50	-24.17	1.91	44.94	0.62	2.15	17.33	34.77	17.44	H
715.30	-23.94	1.92	45.26	0.50	2.15	17.75	34.77	17.02	H

LTE Band 12_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-24.65	1.90	44.68	0.76	2.15	16.74	34.77	18.03	H
707.50	-24.60	1.91	44.94	0.62	2.15	16.90	34.77	17.87	H
714.50	-24.21	1.92	45.26	0.50	2.15	17.48	34.77	17.29	H

LTE Band 12_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-24.38	1.90	44.81	0.74	2.15	17.12	34.77	17.65	H
707.50	-24.32	1.91	44.94	0.62	2.15	17.18	34.77	17.59	H
713.50	-24.36	1.92	45.22	0.50	2.15	17.29	34.77	17.48	H

LTE Band 12_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-24.61	1.91	44.93	0.70	2.15	16.96	34.77	17.81	H
707.50	-24.54	1.91	44.94	0.62	2.15	16.96	34.77	17.81	H
711.00	-24.32	1.92	45.19	0.53	2.15	17.33	34.77	17.44	H

LTE Band 12_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-25.30	1.90	44.66	0.77	2.15	16.08	34.77	18.69	H
707.50	-25.04	1.91	44.94	0.62	2.15	16.46	34.77	18.31	H
715.30	-24.78	1.92	45.26	0.50	2.15	16.91	34.77	17.86	H

LTE Band 12_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-25.77	1.90	44.68	0.76	2.15	15.62	34.77	19.15	H
707.50	-25.40	1.91	44.94	0.62	2.15	16.10	34.77	18.67	H
714.50	-25.25	1.92	45.26	0.50	2.15	16.44	34.77	18.33	H

LTE Band 12_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-25.33	1.90	44.81	0.74	2.15	16.17	34.77	18.60	H
707.50	-25.52	1.91	44.94	0.62	2.15	15.98	34.77	18.79	H
713.50	-25.15	1.92	45.22	0.50	2.15	16.50	34.77	18.27	H

LTE Band 12_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-25.60	1.91	44.93	0.70	2.15	15.97	34.77	18.80	H
707.50	-25.29	1.91	44.94	0.62	2.15	16.21	34.77	18.56	H
711.00	-25.46	1.92	45.19	0.53	2.15	16.19	34.77	18.58	H

LTE Band 12_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.70	-26.15	1.90	44.66	0.77	2.15	15.23	34.77	19.54	H
707.50	-25.96	1.91	44.94	0.62	2.15	15.54	34.77	19.23	H
715.30	-25.59	1.92	45.26	0.50	2.15	16.10	34.77	18.67	H

LTE Band 12_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.50	-26.75	1.90	44.68	0.76	2.15	14.64	34.77	20.13	H
707.50	-26.26	1.91	44.94	0.62	2.15	15.24	34.77	19.53	H
714.50	-25.92	1.92	45.26	0.50	2.15	15.77	34.77	19.00	H

LTE Band 12_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.50	-26.21	1.90	44.81	0.74	2.15	15.29	34.77	19.48	H
707.50	-26.34	1.91	44.94	0.62	2.15	15.16	34.77	19.61	H
713.50	-26.06	1.92	45.22	0.50	2.15	15.59	34.77	19.18	H

LTE Band 12_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.00	-26.33	1.91	44.93	0.70	2.15	15.24	34.77	19.53	H
707.50	-26.20	1.91	44.94	0.62	2.15	15.30	34.77	19.47	H
711.00	-26.29	1.92	45.19	0.53	2.15	15.36	34.77	19.41	H

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

Limits: ≤50dBm (100W)

LTE Band 26_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
814.70	-24.28	2.13	45.86	0.89	2.15	18.19	50.00	31.81	H
819.00	-24.09	2.19	45.84	1.05	2.15	18.46	50.00	31.54	H
823.30	-23.16	2.24	45.79	0.55	2.15	18.79	50.00	31.21	H

LTE Band 26_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
815.50	-25.06	2.14	45.87	0.93	2.15	17.45	50.00	32.55	H
819.00	-25.21	2.19	45.84	1.05	2.15	17.34	50.00	32.66	H
822.50	-24.16	2.23	45.81	0.33	2.15	17.60	50.00	32.40	H

LTE Band 26_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
816.50	-25.13	2.16	45.88	0.98	2.15	17.42	50.00	32.58	H
819.00	-25.07	2.19	45.84	1.05	2.15	17.48	50.00	32.52	H
821.50	-24.58	2.22	45.82	0.71	2.15	17.58	50.00	32.42	H

LTE Band 26_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
819.00	-25.12	2.19	45.84	1.05	2.15	17.43	50.00	32.57	H

LTE Band 26_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
814.70	-25.21	2.13	45.86	0.89	2.15	17.26	50.00	32.74	H
819.00	-25.02	2.19	45.84	1.05	2.15	17.53	50.00	32.47	H
823.30	-24.00	2.24	45.79	0.55	2.15	17.95	50.00	32.05	H

LTE Band 26_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
815.50	-25.90	2.14	45.87	0.93	2.15	16.61	50.00	33.39	H
819.00	-26.05	2.19	45.84	1.05	2.15	16.50	50.00	33.50	H
822.50	-25.09	2.23	45.81	0.33	2.15	16.67	50.00	33.33	H

LTE Band 26_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
816.50	-25.96	2.16	45.88	0.98	2.15	16.59	50.00	33.41	H
819.00	-26.11	2.19	45.84	1.05	2.15	16.44	50.00	33.56	H
821.50	-25.40	2.22	45.82	0.71	2.15	16.76	50.00	33.24	H

LTE Band 26_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
819.00	-25.98	2.19	45.84	1.05	2.15	16.57	50.00	33.43	H

LTE Band 26_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
814.70	-26.04	2.13	45.86	0.89	2.15	16.43	50.00	33.57	V
819.00	-25.75	2.19	45.84	1.05	2.15	16.80	50.00	33.20	H
823.30	-24.83	2.24	45.79	0.55	2.15	17.12	50.00	32.88	H

LTE Band 26_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
815.50	-26.74	2.14	45.87	0.93	2.15	15.77	50.00	34.23	H
819.00	-26.88	2.19	45.84	1.05	2.15	15.67	50.00	34.33	H
822.50	-25.84	2.23	45.81	0.33	2.15	15.92	50.00	34.08	H

LTE Band 26_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
816.50	-26.74	2.16	45.88	0.98	2.15	15.81	50.00	34.19	H
819.00	-27.05	2.19	45.84	1.05	2.15	15.50	50.00	34.50	H
821.50	-26.26	2.22	45.82	0.71	2.15	15.90	50.00	34.10	H

LTE Band 26_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
819.00	-26.86	2.19	45.84	1.05	2.15	15.69	50.00	34.31	H

LTE Band 26(824MHz~849MHz)-ERP

Limits: $\leq 38.45\text{dBm}$ (7W)

LTE Band 26_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-23.51	2.26	45.79	0.95	2.15	18.82	38.45	19.63	H
836.50	-23.60	2.26	45.66	0.82	2.15	18.47	38.45	19.98	H
848.30	-24.46	2.27	45.55	0.80	2.15	17.47	38.45	20.98	H

LTE Band 26_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-23.56	2.26	45.79	0.94	2.15	18.76	38.45	19.69	H
836.50	-23.51	2.26	45.66	0.82	2.15	18.56	38.45	19.89	H
847.50	-24.30	2.27	45.56	0.81	2.15	17.65	38.45	20.80	H

LTE Band 26_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-23.54	2.25	45.77	0.93	2.15	18.76	38.45	19.69	H
836.50	-23.36	2.26	45.66	0.82	2.15	18.71	38.45	19.74	H
846.50	-24.21	2.26	45.56	0.82	2.15	17.76	38.45	20.69	H

LTE Band 26_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-23.55	2.25	45.77	0.90	2.15	18.72	38.45	19.73	H
836.50	-23.48	2.26	45.66	0.82	2.15	18.59	38.45	19.86	H
844.00	-24.18	2.26	45.59	0.82	2.15	17.82	38.45	20.63	H

LTE Band 26_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
831.50	-23.72	2.12	45.71	0.87	2.15	18.59	38.45	19.86	H
836.50	-23.49	2.26	45.66	0.82	2.15	18.58	38.45	19.87	H
841.50	-24.30	2.26	45.61	0.82	2.15	17.72	38.45	20.73	H

LTE Band 26_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-24.44	2.26	45.79	0.95	2.15	17.89	38.45	20.56	H
836.50	-24.44	2.26	45.66	0.82	2.15	17.63	38.45	20.82	H
848.30	-25.26	2.27	45.55	0.80	2.15	16.67	38.45	21.78	H

LTE Band 26_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-24.38	2.26	45.79	0.94	2.15	17.94	38.45	20.51	H
836.50	-24.45	2.26	45.66	0.82	2.15	17.62	38.45	20.83	H
847.50	-25.12	2.27	45.56	0.81	2.15	16.83	38.45	21.62	H

LTE Band 26_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-24.37	2.25	45.77	0.93	2.15	17.93	38.45	20.52	H
836.50	-24.42	2.26	45.66	0.82	2.15	17.65	38.45	20.80	H
846.50	-25.01	2.26	45.56	0.82	2.15	16.96	38.45	21.49	H

LTE Band 26_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-24.44	2.25	45.77	0.90	2.15	17.83	38.45	20.62	H
836.50	-24.34	2.26	45.66	0.82	2.15	17.73	38.45	20.72	H
844.00	-25.16	2.26	45.59	0.82	2.15	16.84	38.45	21.61	H

LTE Band 26_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
831.50	-24.67	2.12	45.71	0.87	2.15	17.64	38.45	20.81	H
836.50	-24.34	2.26	45.66	0.82	2.15	17.73	38.45	20.72	H
841.50	-25.11	2.26	45.61	0.82	2.15	16.91	38.45	21.54	H

LTE Band 26_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.70	-25.24	2.26	45.79	0.95	2.15	17.09	38.45	21.36	H
836.50	-25.61	2.26	45.66	0.82	2.15	16.46	38.45	21.99	H
848.30	-26.03	2.27	45.55	0.80	2.15	15.90	38.45	22.55	H

LTE Band 26_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.50	-25.06	2.26	45.79	0.94	2.15	17.26	38.45	21.19	H
836.50	-25.25	2.26	45.66	0.82	2.15	16.82	38.45	21.63	H
847.50	-25.87	2.27	45.56	0.81	2.15	16.08	38.45	22.37	H

LTE Band 26_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.50	-25.32	2.25	45.77	0.93	2.15	16.98	38.45	21.47	H
836.50	-25.29	2.26	45.66	0.82	2.15	16.78	38.45	21.67	H
846.50	-25.83	2.26	45.56	0.82	2.15	16.14	38.45	22.31	H

LTE Band 26_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.00	-25.28	2.25	45.77	0.90	2.15	16.99	38.45	21.46	H
836.50	-25.19	2.26	45.66	0.82	2.15	16.88	38.45	21.57	H
844.00	-26.08	2.26	45.59	0.82	2.15	15.92	38.45	22.53	H

LTE Band 26_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	Correction (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
831.50	-25.52	2.12	45.71	0.87	2.15	16.79	38.45	21.66	H
836.50	-25.17	2.26	45.66	0.82	2.15	16.90	38.45	21.55	H
841.50	-25.72	2.26	45.61	0.82	2.15	16.30	38.45	22.15	H

LTE Band 41-EIRP

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

LTE Band 41_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-32.22	3.58	45.59	6.10	15.89	33.00	17.11	V
2593.00	-29.39	3.69	44.93	6.27	18.12	33.00	14.88	H
2687.50	-31.24	3.73	44.98	6.44	16.45	33.00	16.55	H

LTE Band 41_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-32.26	3.58	45.65	6.10	15.91	33.00	17.09	V
2593.00	-29.45	3.69	44.93	6.27	18.06	33.00	14.94	H
2685.00	-31.15	3.73	44.98	6.43	16.53	33.00	16.47	V

LTE Band 41_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-32.40	3.58	45.65	6.11	15.78	33.00	17.22	H
2593.00	-29.42	3.69	44.93	6.27	18.09	33.00	14.91	H
2682.50	-30.90	3.73	44.98	6.43	16.78	33.00	16.22	V

LTE Band 41_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-32.10	3.59	45.15	6.11	15.57	33.00	17.43	H
2593.00	-29.34	3.69	44.93	6.27	18.17	33.00	14.83	H
2680.00	-31.57	3.73	44.97	6.42	16.09	33.00	16.91	V

LTE Band 41_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-31.14	3.58	45.59	6.10	16.97	33.00	16.03	H
2593.00	-30.42	3.69	44.93	6.27	17.09	33.00	15.91	H
2687.50	-31.58	3.73	44.98	6.44	16.11	33.00	16.89	H

LTE Band 41_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-31.44	3.58	45.65	6.10	16.73	33.00	16.27	H
2593.00	-30.46	3.69	44.93	6.27	17.05	33.00	15.95	H
2685.00	-31.69	3.73	44.98	6.43	15.99	33.00	17.01	H

LTE Band 41_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-31.02	3.58	45.65	6.11	17.16	33.00	15.84	H
2593.00	-30.59	3.69	44.93	6.27	16.92	33.00	16.08	H
2682.50	-31.51	3.73	44.98	6.43	16.17	33.00	16.83	H

LTE Band 41_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-30.92	3.59	45.15	6.11	16.75	33.00	16.25	H
2593.00	-30.34	3.69	44.93	6.27	17.17	33.00	15.83	H
2680.00	-31.54	3.73	44.97	6.42	16.12	33.00	16.88	H

LTE Band 41_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2498.50	-32.18	3.58	45.59	6.10	15.93	33.00	17.07	H
2593.00	-31.58	3.69	44.93	6.27	15.93	33.00	17.07	H
2687.50	-31.62	3.73	44.98	6.44	16.07	33.00	16.93	H

LTE Band 41_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2501.00	-32.53	3.58	45.65	6.10	15.64	33.00	17.36	H
2593.00	-31.35	3.69	44.93	6.27	16.16	33.00	16.84	H
2685.00	-32.80	3.73	44.98	6.43	14.88	33.00	18.12	H

LTE Band 41_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2503.50	-32.09	3.58	45.65	6.11	16.09	33.00	16.91	H
2593.00	-31.48	3.69	44.93	6.27	16.03	33.00	16.97	H
2682.50	-32.66	3.73	44.98	6.43	15.02	33.00	17.98	H

LTE Band 41_20MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{Cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2506.00	-32.05	3.59	45.15	6.11	15.62	33.00	17.38	H
2593.00	-31.30	3.69	44.93	6.27	16.21	33.00	16.79	H
2680.00	-32.73	3.73	44.97	6.42	14.93	33.00	18.07	H

LTE Band 66-EIRP

Limits: $\leq 30\text{dBm}$ (1W)

LTE Band 66_1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-33.23	3.17	44.10	5.12	19.16	30.00	10.84	V
1745.00	-32.42	3.68	44.16	5.06	20.48	30.00	9.52	H
1779.30	-30.18	3.04	44.03	5.00	21.89	30.00	8.11	H

LTE Band 66_3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-33.30	3.40	44.10	5.12	19.32	30.00	10.68	V
1745.00	-32.39	3.68	44.16	5.06	20.51	30.00	9.49	H
1778.50	-30.11	3.04	44.03	5.00	21.96	30.00	8.04	H

LTE Band 66_5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-26.15	3.66	44.10	5.12	19.41	30.00	10.59	V
1745.00	-24.96	3.68	44.16	5.06	20.58	30.00	9.42	H
1777.50	-23.94	3.04	44.04	5.00	22.06	30.00	7.94	H

LTE Band 66_10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-26.15	3.56	44.10	5.11	19.50	30.00	10.50	V
1745.00	-24.87	3.68	44.16	5.06	20.67	30.00	9.33	H
1775.00	-23.94	3.05	44.05	5.01	22.06	30.00	7.94	H

LTE Band 66_15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-26.13	3.47	44.11	5.11	19.62	30.00	10.38	V
1745.00	-24.88	3.68	44.16	5.06	20.66	30.00	9.34	H
1772.50	-24.28	3.05	44.06	5.01	21.74	30.00	8.26	H

LTE Band 66_20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-26.09	3.37	44.11	5.10	19.75	30.00	10.25	V
1745.00	-25.00	3.68	44.16	5.06	20.54	30.00	9.46	H
1770.00	-24.12	3.05	44.07	5.01	21.92	30.00	8.08	H

LTE Band 66_1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-33.94	3.17	44.10	5.12	18.45	30.00	11.55	V
1745.00	-33.11	3.68	44.16	5.06	19.79	30.00	10.21	H
1779.30	-30.95	3.04	44.03	5.00	21.12	30.00	8.88	H

LTE Band 66_3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-33.99	3.40	44.10	5.12	18.63	30.00	11.37	V
1745.00	-33.07	3.68	44.16	5.06	19.83	30.00	10.17	H
1778.50	-30.89	3.04	44.03	5.00	21.18	30.00	8.82	H

LTE Band 66_5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-26.83	3.66	44.10	5.12	18.73	30.00	11.27	V
1745.00	-25.86	3.68	44.16	5.06	19.68	30.00	10.32	H
1777.50	-24.64	3.04	44.04	5.00	21.36	30.00	8.64	H

LTE Band 66_10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-26.96	3.56	44.10	5.11	18.69	30.00	11.31	V
1745.00	-25.61	3.68	44.16	5.06	19.93	30.00	10.07	H
1775.00	-24.76	3.05	44.05	5.01	21.24	30.00	8.76	H

LTE Band 66_15MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-26.90	3.47	44.11	5.11	18.85	30.00	11.15	V
1745.00	-25.60	3.68	44.16	5.06	19.94	30.00	10.06	H
1772.50	-25.07	3.05	44.06	5.01	20.95	30.00	9.05	H

LTE Band 66_20MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-26.85	3.37	44.11	5.10	18.99	30.00	11.01	V
1745.00	-25.74	3.68	44.16	5.06	19.80	30.00	10.20	H
1770.00	-24.81	3.05	44.07	5.01	21.23	30.00	8.77	H

LTE Band 66_1.4MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1710.70	-34.68	3.17	44.10	5.12	17.71	30.00	12.29	V
1745.00	-33.98	3.68	44.16	5.06	18.92	30.00	11.08	H
1779.30	-31.92	3.04	44.03	5.00	20.15	30.00	9.85	H

LTE Band 66_3MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1711.50	-34.87	3.40	44.10	5.12	17.75	30.00	12.25	V
1745.00	-33.74	3.68	44.16	5.06	19.16	30.00	10.84	H
1778.50	-31.83	3.04	44.03	5.00	20.24	30.00	9.76	H

LTE Band 66_5MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1712.50	-27.64	3.66	44.10	5.12	17.92	30.00	12.08	V
1745.00	-26.69	3.68	44.16	5.06	18.85	30.00	11.15	H
1777.50	-25.30	3.04	44.04	5.00	20.70	30.00	9.30	H

LTE Band 66_10MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.00	-27.84	3.56	44.10	5.11	17.81	30.00	12.19	V
1745.00	-26.40	3.68	44.16	5.06	19.14	30.00	10.86	H
1775.00	-25.66	3.05	44.05	5.01	20.34	30.00	9.66	H

LTE Band 66_15MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1717.50	-27.69	3.47	44.11	5.11	18.06	30.00	11.94	V
1745.00	-26.49	3.68	44.16	5.06	19.05	30.00	10.95	H
1772.50	-25.93	3.05	44.06	5.01	20.09	30.00	9.91	H

LTE Band 66_20MHz_64QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	P _{Ag} (dB)	G _a (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1720.00	-27.63	3.37	44.11	5.10	18.21	30.00	11.79	V
1745.00	-26.53	3.68	44.16	5.06	19.01	30.00	10.99	H
1770.00	-25.60	3.05	44.07	5.01	20.44	30.00	9.56	H

Note: Expanded measurement uncertainty is $U = 2.84$ dB, $k = 2$.

A.2 Emission Limit

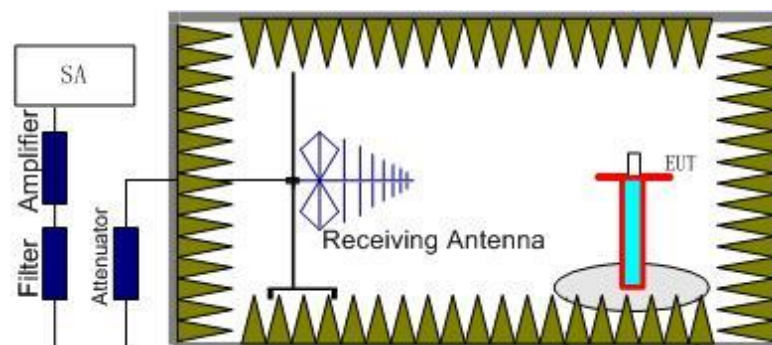
A.2.1 Measurement Method

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

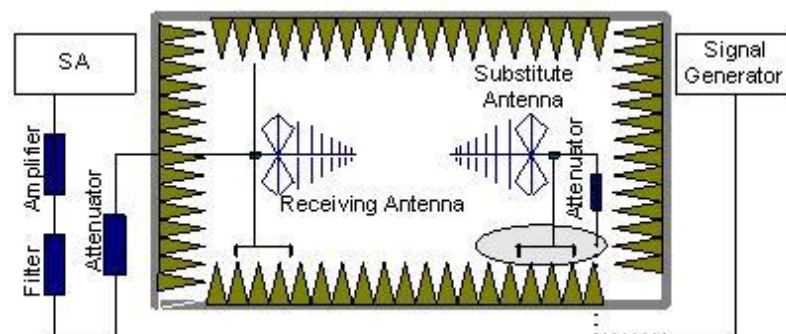
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

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



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



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere

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

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

An amplifier should be connected in for the test.

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

The measurement results are obtained as described below:

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

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

A.2.2 Measurement Limit

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.

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.

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.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(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 9 kHz to 26GHz. Measurement value show only up to 6 maximum emissions noted.

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5008.02	-37.71	6.59	9.91	-34.39	-25.00	9.39	H
7511.01	-42.62	8.35	12.21	-38.76	-25.00	13.76	H
10022.01	-41.34	9.24	12.91	-37.67	-25.00	12.67	H
12504.01	-48.35	10.18	13.20	-45.33	-25.00	20.33	H
15034.00	-42.51	11.26	13.98	-39.79	-25.00	14.79	V
17507.00	-37.93	12.75	14.91	-35.77	-25.00	10.77	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5074.02	-37.28	6.70	10.00	-33.98	-25.00	8.98	H
7612.01	-44.29	8.03	12.29	-40.03	-25.00	15.03	H
10150.01	-41.33	9.38	12.96	-37.75	-25.00	12.75	V
12681.01	-48.17	10.33	13.31	-45.19	-25.00	20.19	H
15201.00	-43.54	11.40	13.88	-41.06	-25.00	16.06	V
17761.00	-39.54	12.52	15.27	-36.79	-25.00	11.79	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5140.02	-42.65	6.87	10.10	-39.42	-25.00	14.42	H
7707.01	-49.66	8.42	12.37	-45.71	-25.00	20.71	H
10280.01	-40.85	9.57	13.01	-37.41	-25.00	12.41	V
12823.01	-47.35	10.71	13.39	-44.67	-25.00	19.67	H
15421.00	-42.10	11.42	13.75	-39.77	-25.00	14.77	H
17989.00	-39.55	12.90	15.58	-36.87	-25.00	11.87	V

Reference Measurement Results from basic model:
LTE Band 2, 1.4MHz, QPSK, Channel 18607

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3742.02	-55.68	6.32	8.54	-53.46	-13.00	40.46	V
5556.02	-42.72	7.19	10.59	-39.32	-13.00	26.32	V
7373.01	-54.37	8.11	12.05	-50.43	-13.00	37.43	V
9242.01	-53.47	9.02	13.25	-49.24	-13.00	36.24	V
11141.01	-50.79	9.66	13.17	-47.28	-13.00	34.28	V
12932.01	-48.67	10.49	13.46	-45.70	-13.00	32.70	V

LTE Band 2, 1.4MHz, QPSK, Channel 18900

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3750.02	-55.26	6.29	8.55	-53.00	-13.00	40.00	V
5644.02	-42.26	7.27	10.57	-38.96	-13.00	25.96	H
7496.01	-54.29	8.38	12.20	-50.47	-13.00	37.47	V
9359.01	-53.75	9.08	13.32	-49.51	-13.00	36.51	V
11286.01	-50.29	9.91	13.14	-47.06	-13.00	34.06	V
13110.01	-47.40	10.89	13.65	-44.64	-13.00	31.64	H

LTE Band 2, 1.4MHz, QPSK, Channel 19193

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3791.02	-55.38	6.17	8.61	-52.94	-13.00	39.94	V
5731.02	-42.98	7.29	10.55	-39.72	-13.00	26.72	V
7625.01	-54.23	8.09	12.30	-50.02	-13.00	37.02	V
9564.01	-53.26	9.31	13.34	-49.23	-13.00	36.23	H
11484.01	-49.94	9.85	13.10	-46.69	-13.00	33.69	H
13403.01	-48.10	10.57	14.06	-44.61	-13.00	31.61	H

LTE Band 5, 1.4MHz, QPSK, Channel 20407

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1645.01	-60.16	3.56	5.24	2.15	-60.63	-13.00	47.63	V
2465.00	-51.64	4.59	6.00	2.15	-52.38	-13.00	39.38	V
3292.02	-55.05	5.29	7.70	2.15	-54.79	-13.00	41.79	V
4124.02	-55.12	6.04	9.02	2.15	-54.29	-13.00	41.29	V
4961.01	-54.13	6.67	9.86	2.15	-53.09	-13.00	40.09	V
5777.01	-52.87	7.22	10.54	2.15	-51.70	-13.00	38.70	H

LTE Band 5, 1.4MHz, QPSK, Channel 20525

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1675.01	-58.17	3.58	5.18	2.15	-58.72	-13.00	45.72	V
2521.00	-53.69	4.65	6.14	2.15	-54.35	-13.00	41.35	H
3340.02	-54.01	5.31	7.82	2.15	-53.65	-13.00	40.65	H
4175.02	-54.72	6.15	9.08	2.15	-53.94	-13.00	40.94	V
5010.01	-54.30	6.59	9.91	2.15	-53.13	-13.00	40.13	V
5843.01	-53.28	7.21	10.53	2.15	-52.11	-13.00	39.11	H

LTE Band 5, 1.4MHz, QPSK, Channel 20643

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1703.01	-49.78	3.60	5.13	2.15	-50.40	-13.00	37.40	V
2536.00	-53.08	4.66	6.16	2.15	-53.73	-13.00	40.73	V
3381.02	-55.62	5.35	7.91	2.15	-55.21	-13.00	42.21	V
4250.02	-54.88	6.24	9.15	2.15	-54.12	-13.00	41.12	V
5080.01	-53.79	6.72	10.01	2.15	-52.65	-13.00	39.65	H
5952.01	-53.40	7.47	10.51	2.15	-52.51	-13.00	39.51	V

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5007.02	-50.66	6.59	9.91	-47.34	-25.00	22.34	V
7510.01	-43.47	8.35	12.21	-39.61	-25.00	14.61	V
10017.01	-47.67	9.23	12.91	-43.99	-25.00	18.99	V
12528.01	-46.09	10.26	13.22	-43.13	-25.00	18.13	V
15008.00	-46.10	11.23	14.00	-43.33	-25.00	18.33	H
17527.00	-43.43	12.83	14.94	-41.32	-25.00	16.32	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.02	-44.75	6.70	10.01	-41.44	-25.00	16.44	H
7610.01	-43.92	8.02	12.29	-39.65	-25.00	14.65	V
10155.01	-46.05	9.37	12.96	-42.46	-25.00	17.46	H
12681.01	-41.96	10.33	13.31	-38.98	-25.00	13.98	V
15202.00	-45.53	11.40	13.88	-43.05	-25.00	18.05	V
17746.00	-44.29	12.44	15.24	-41.49	-25.00	16.49	V

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5139.02	-47.32	6.86	10.09	-44.09	-25.00	19.09	H
7707.01	-45.54	8.42	12.37	-41.59	-25.00	16.59	V
10280.01	-44.32	9.57	13.01	-40.88	-25.00	15.88	H
12849.01	-43.52	10.64	13.41	-40.75	-25.00	15.75	V
15422.00	-43.99	11.42	13.75	-41.66	-25.00	16.66	H
17986.00	-44.19	12.90	15.58	-41.51	-25.00	16.51	V

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.01	-51.73	3.23	4.97	2.15	-52.14	-13.00	39.14	V
2088.00	-55.63	4.18	4.86	2.15	-57.10	-13.00	44.10	H
2789.00	-53.28	4.90	6.62	2.15	-53.71	-13.00	40.71	H
3486.02	-54.43	5.49	8.17	2.15	-53.90	-13.00	40.90	H
4184.02	-54.59	6.17	9.08	2.15	-53.83	-13.00	40.83	V
4886.01	-53.87	6.72	9.79	2.15	-52.95	-13.00	39.95	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1400.01	-57.93	3.24	4.98	2.15	-58.34	-13.00	45.34	V
2108.00	-55.78	4.20	4.92	2.15	-57.21	-13.00	44.21	H
2843.00	-52.51	4.96	6.72	2.15	-52.90	-13.00	39.90	V
3528.02	-55.16	5.60	8.24	2.15	-54.67	-13.00	41.67	H
4236.02	-54.58	6.25	9.14	2.15	-53.84	-13.00	40.84	V
4957.01	-54.83	6.68	9.86	2.15	-53.80	-13.00	40.80	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1420.01	-59.87	3.26	5.08	2.15	-60.20	-13.00	47.20	V
2145.00	-56.68	4.24	5.04	2.15	-58.03	-13.00	45.03	V
2873.00	-52.22	4.97	6.77	2.15	-52.57	-13.00	39.57	V
3584.02	-54.23	6.17	8.32	2.15	-54.23	-13.00	41.23	V
4295.02	-54.66	6.20	9.20	2.15	-53.81	-13.00	40.81	V
4998.01	-50.08	6.61	9.90	2.15	-48.94	-13.00	35.94	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5695.01	-52.70	7.29	10.56	2.15	-51.58	-13.00	38.58	V
6512.01	-52.66	7.51	11.01	2.15	-51.31	-13.00	38.31	V
7350.01	-52.32	8.11	12.02	2.15	-50.56	-13.00	37.56	V
8135.01	-51.80	8.39	12.71	2.15	-49.63	-13.00	36.63	H
8948.00	-50.87	9.02	13.09	2.15	-48.95	-13.00	35.95	V
9782.00	-51.09	8.99	13.12	2.15	-49.11	-13.00	36.11	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1639.01	-60.32	3.56	5.25	2.15	-60.78	-13.00	47.78	V
2469.00	-53.58	4.59	6.01	2.15	-54.31	-13.00	41.31	H
3261.02	-55.06	5.28	7.63	2.15	-54.86	-13.00	41.86	H
4087.02	-55.16	6.04	8.99	2.15	-54.36	-13.00	41.36	V
4898.01	-54.46	6.73	9.80	2.15	-53.54	-13.00	40.54	H
5716.01	-52.98	7.30	10.56	2.15	-51.87	-13.00	38.87	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5686.01	-52.56	7.29	10.56	2.15	-51.44	-13.00	38.44	V
6699.01	-51.90	7.97	11.24	2.15	-50.78	-13.00	37.78	V
7479.01	-51.89	8.34	12.17	2.15	-50.21	-13.00	37.21	H
8060.01	-51.31	8.32	12.65	2.15	-49.13	-13.00	36.13	V
8943.00	-50.91	9.00	13.09	2.15	-48.97	-13.00	35.97	V
9817.00	-49.90	9.04	13.08	2.15	-48.01	-13.00	35.01	H

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1668.01	-56.51	3.58	5.20	2.15	-57.04	-13.00	44.04	H
2492.00	-54.24	4.62	6.08	2.15	-54.93	-13.00	41.93	H
3316.02	-55.11	5.29	7.76	2.15	-54.79	-13.00	41.79	V
4104.02	-55.00	6.04	9.00	2.15	-54.19	-13.00	41.19	V
4963.01	-55.03	6.67	9.86	2.15	-53.99	-13.00	40.99	V
5786.01	-53.31	7.21	10.54	2.15	-52.13	-13.00	39.13	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1686.01	-59.91	3.59	5.17	2.15	-60.48	-13.00	47.48	V
2512.00	-53.42	4.64	6.12	2.15	-54.09	-13.00	41.09	V
3359.02	-54.54	5.33	7.86	2.15	-54.16	-13.00	41.16	H
4182.02	-47.54	6.17	9.08	2.15	-46.78	-13.00	33.78	H
5030.01	-54.49	6.57	9.94	2.15	-53.27	-13.00	40.27	V
5836.01	-53.86	7.19	10.53	2.15	-52.67	-13.00	39.67	V

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

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1715.01	-59.27	3.61	5.11	2.15	-59.92	-13.00	46.92	H
2536.00	-52.48	4.66	6.16	2.15	-53.13	-13.00	40.13	H
3381.02	-55.15	5.35	7.91	2.15	-54.74	-13.00	41.74	V
4236.02	-54.50	6.25	9.14	2.15	-53.76	-13.00	40.76	H
5080.01	-54.10	6.72	10.01	2.15	-52.96	-13.00	39.96	V
5923.01	-53.25	7.47	10.52	2.15	-52.35	-13.00	39.35	V

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency(MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
5000.02	-55.10	6.60	9.90	-51.80	-25.00	26.80	H
7499.01	-47.64	8.39	12.20	-43.83	-25.00	18.83	V
9992.01	-52.50	9.17	12.91	-48.76	-25.00	23.76	V
12493.01	-49.50	10.19	13.20	-46.49	-25.00	21.49	H
14990.00	-46.10	11.21	14.01	-43.30	-25.00	18.30	V
17490.00	-44.85	12.70	14.88	-42.67	-25.00	17.67	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency(MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
5185.02	-51.48	6.94	10.16	-48.26	-25.00	23.26	V
7779.01	-47.00	8.32	12.42	-42.90	-25.00	17.90	V
10382.01	-47.37	9.77	13.05	-44.09	-25.00	19.09	H
12973.01	-47.80	10.48	13.48	-44.80	-25.00	19.80	V
15532.00	-43.65	11.52	13.70	-41.47	-25.00	16.47	H
16842.00	-41.51	12.07	13.74	-39.84	-25.00	14.84	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency(MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP(dBm)	Limit(dBm)	Margin(dB)	Polarization
5379.02	-50.73	6.87	10.43	-47.17	-25.00	22.17	V
8065.01	-54.44	8.32	12.65	-50.11	-25.00	25.11	V
10763.01	-51.07	9.46	13.15	-47.38	-25.00	22.38	H
13458.01	-47.89	10.61	14.14	-44.36	-25.00	19.36	H
16143.00	-43.43	11.80	13.67	-41.56	-25.00	16.56	H
17490.00	-44.12	12.70	14.88	-41.94	-25.00	16.94	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3474.02	-67.51	5.47	8.14	-64.84	-13.00	51.84	H
5135.02	-61.42	6.86	10.09	-58.19	-13.00	45.19	V
6846.01	-63.87	7.83	11.42	-60.28	-13.00	47.28	H
8556.01	-64.16	8.57	13.01	-59.72	-13.00	46.72	V
10286.01	-62.18	9.60	13.01	-58.77	-13.00	45.77	V
12025.01	-60.15	10.13	13.01	-57.27	-13.00	44.27	V

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3474.02	-67.46	5.47	8.14	-64.79	-13.00	51.79	H
5235.02	-56.82	7.00	10.23	-53.59	-13.00	40.59	H
6983.01	-64.48	8.17	11.58	-61.07	-13.00	48.07	V
8729.01	-64.53	8.45	13.05	-59.93	-13.00	46.93	V
10492.01	-61.94	9.66	13.10	-58.50	-13.00	45.50	V
12183.01	-59.79	10.11	13.07	-56.83	-13.00	43.83	V

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3559.02	-66.73	5.92	8.28	-64.37	-13.00	51.37	V
5338.02	-56.61	6.96	10.37	-53.20	-13.00	40.20	H
7118.01	-64.43	8.16	11.74	-60.85	-13.00	47.85	H
8951.01	-64.17	9.03	13.09	-60.11	-13.00	47.11	V
10702.01	-61.79	9.31	13.14	-57.96	-13.00	44.96	V
12504.01	-59.70	10.18	13.20	-56.68	-13.00	43.68	V

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 -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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

A.3.2 Measurement results

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1850.801	1909.199		
50				2.50	0.0013
40				7.81	0.0042
30				5.38	0.0029
10				5.06	0.0027
0				-22.17	0.0118
-10				-22.63	0.0120
-20				4.33	0.0023
-30				5.71	0.0030

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	1850.801	1909.199	-0.51	0.0003
4.40				5.76	0.0031

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.417	848.583		
50				-0.53	0.0006
40				3.91	0.0047
30				3.28	0.0039
10				-1.56	0.0019
0				0.29	0.0003
-10				3.93	0.0047
-20				1.36	0.0016
-30				1.59	0.0019

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	824.417	848.583	2.78	0.0033
4.40				1.53	0.0018

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2500.897	2569.135		
50				-41.93	0.0165
40				-0.86	0.0003
30				-42.06	0.0166
10				1.27	0.0005
0				-2.82	0.0011
-10				-45.95	0.0181
-20				6.29	0.0025
-30				3.25	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	2500.897	2569.135	-1.83	0.0007
4.40				-42.63	0.0168

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	699.465	715.519		
50				-21.51	0.0304
40				-4.66	0.0066
30				-4.29	0.0061
10				-19.57	0.0277
0				-3.25	0.0046
-10				-21.19	0.0300
-20				-0.36	0.0005
-30				-21.36	0.0302

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	699.465	715.519	-4.02	0.0057
4.40				-4.21	0.0060

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	814.389	823.611		
50				0.27	0.0003
40				-3.95	0.0048
30				-2.19	0.0027
10				-19.74	0.0241
0				-24.76	0.0302
-10				-20.48	0.0250
-20				-2.62	0.0032
-30				-2.07	0.0025

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	814.389	823.611	0.49	0.0006
4.40				-22.83	0.0279

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

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	824.553	848.471		
50				-0.07	0.0001
40				20.27	0.0242
30				-1.39	0.0017
10				-2.12	0.0025
0				-2.56	0.0031
-10				-0.29	0.0003
-20				0.94	0.0011
-30				-5.12	0.0061

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	824.553	848.471	-0.23	0.0003
4.40				22.32	0.0267

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2496.449	2689.487		
50				58.06	0.0224
40				3.89	0.0015
30				1.16	0.0004
10				2.19	0.0008
0				41.58	0.0160
-10				1.07	0.0004
-20				1.95	0.0008
-30				3.78	0.0015

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	2496.449	2689.487	1.19	0.0005
4.40				-1.96	0.0008

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.833	1779.199		
50				31.19	0.0179
40				20.61	0.0118
30				37.05	0.0212
10				39.12	0.0224
0				37.25	0.0213
-10				31.16	0.0179
-20				36.05	0.0207
-30				34.75	0.0199

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	F _L (MHz)	F _H (MHz)	Offset(Hz)	Frequency error(ppm)
3.50	20	1710.833	1779.199	31.19	0.0179
4.40				27.08	0.0155

A.4 Occupied Bandwidth

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

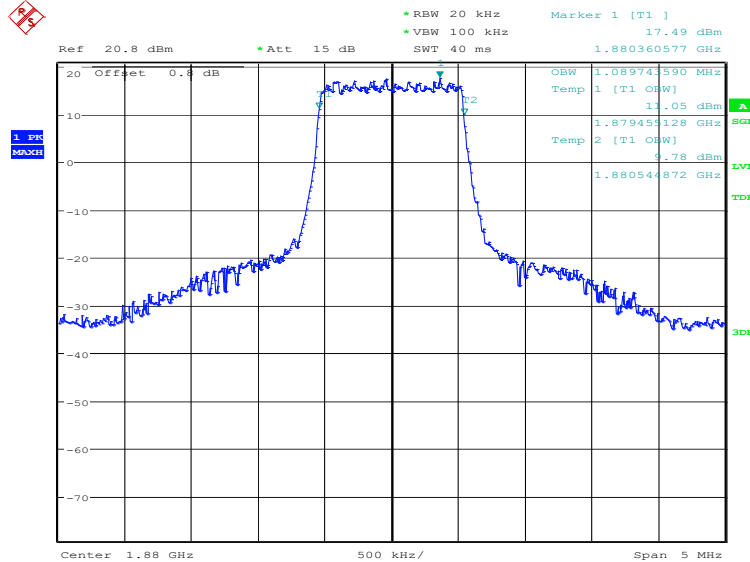
The measurement method is from ANSI C63.26:

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

LTE band 2, 1.4MHz (99%)

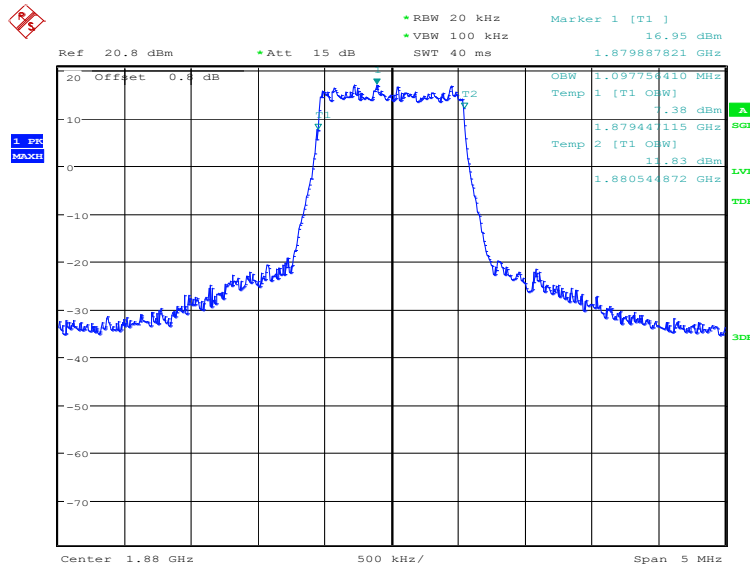
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	1089.74	1097.76

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



Date: 19.MAY.2021 16:45:32

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

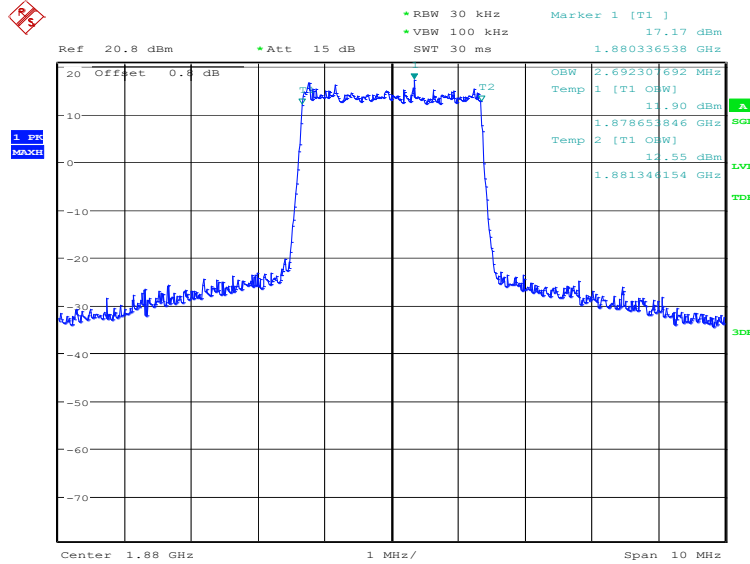


Date: 19.MAY.2021 16:46:11

LTE band 2, 3MHz (99%)

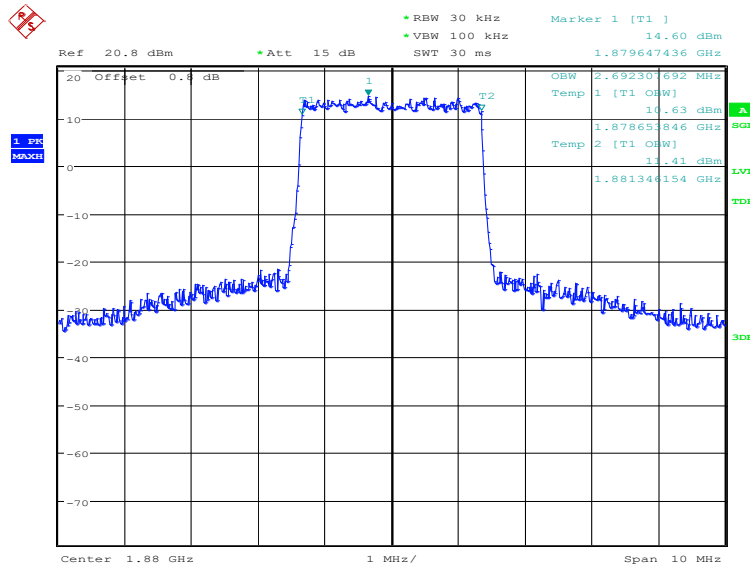
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 19.MAY.2021 16:49:20

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

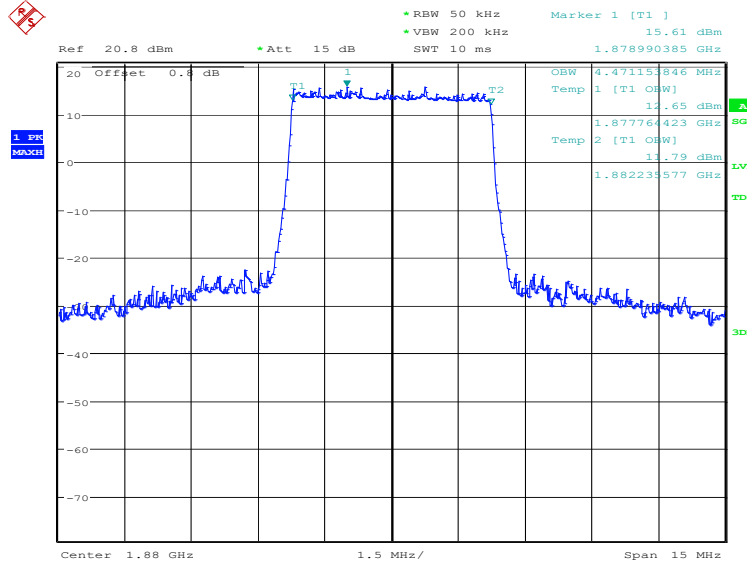


Date: 19.MAY.2021 16:49:59

LTE band 2, 5MHz (99%)

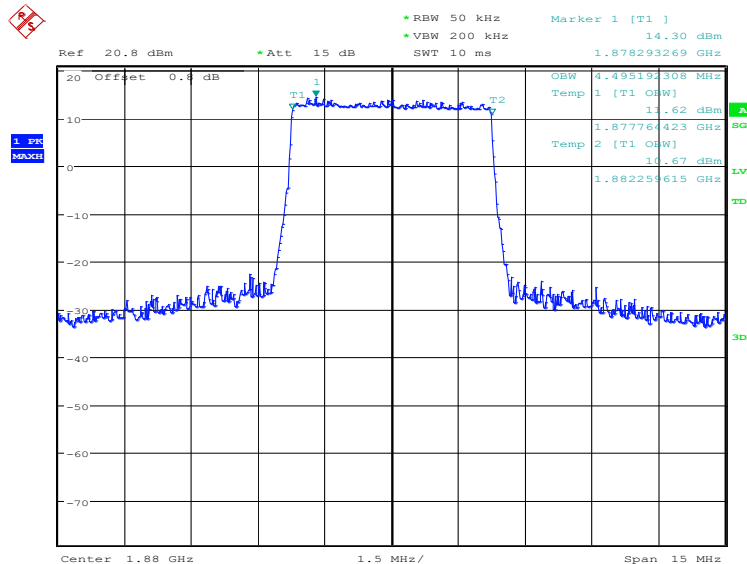
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	4471.15	4495.19

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



Date: 19.MAY.2021 16:50:45

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

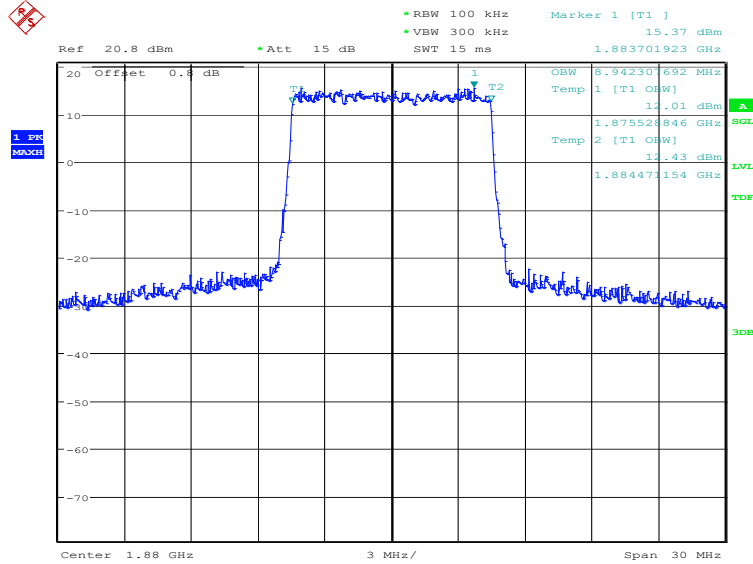


Date: 19.MAY.2021 16:51:24

LTE band 2, 10MHz (99%)

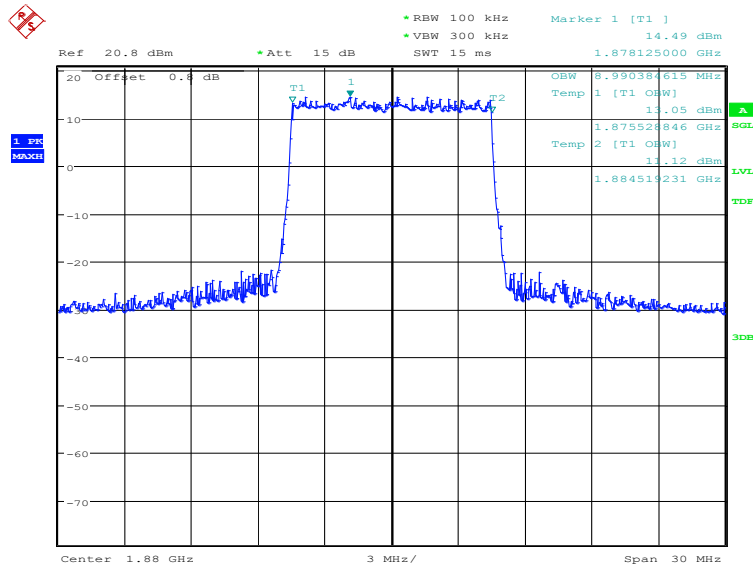
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	8942.31	8990.38

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



Date: 19.MAY.2021 16:52:53

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

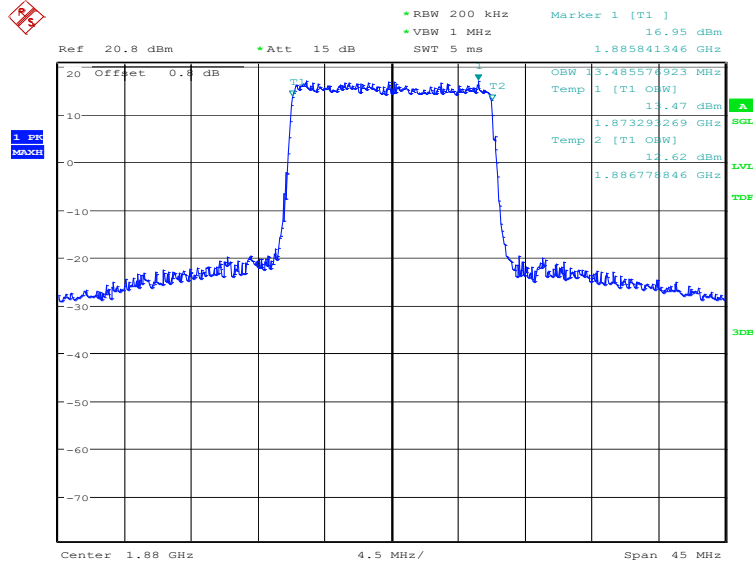


Date: 19.MAY.2021 16:53:32

LTE band 2, 15MHz (99%)

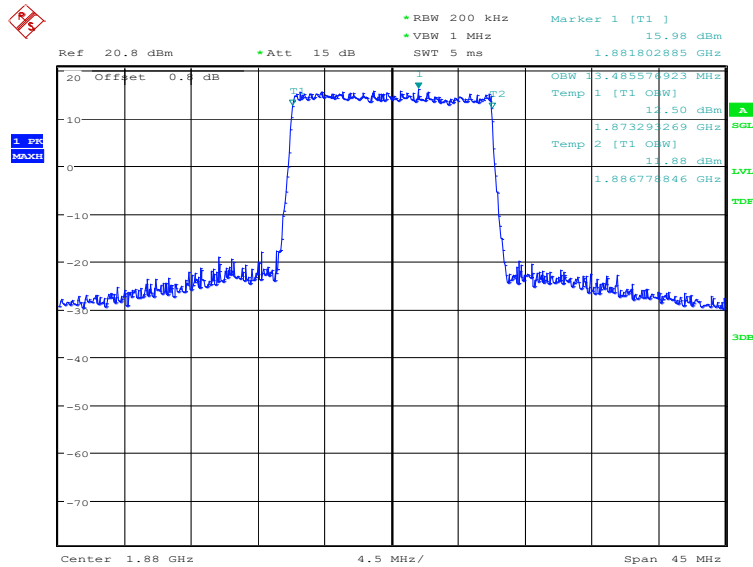
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 19.MAY.2021 16:55:00

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

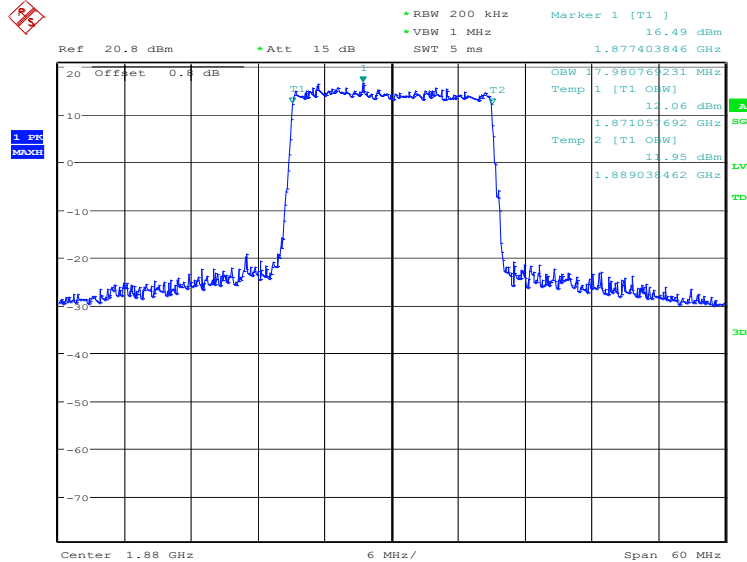


Date: 19.MAY.2021 16:55:40

LTE band 2, 20MHz (99%)

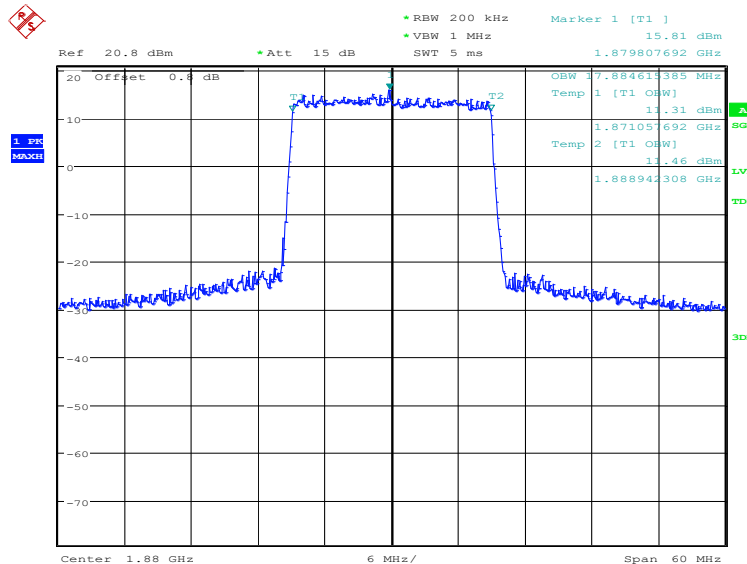
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
1880.0	QPSK	16QAM
	17980.77	17884.62

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



Date: 19.MAY.2021 16:57:08

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

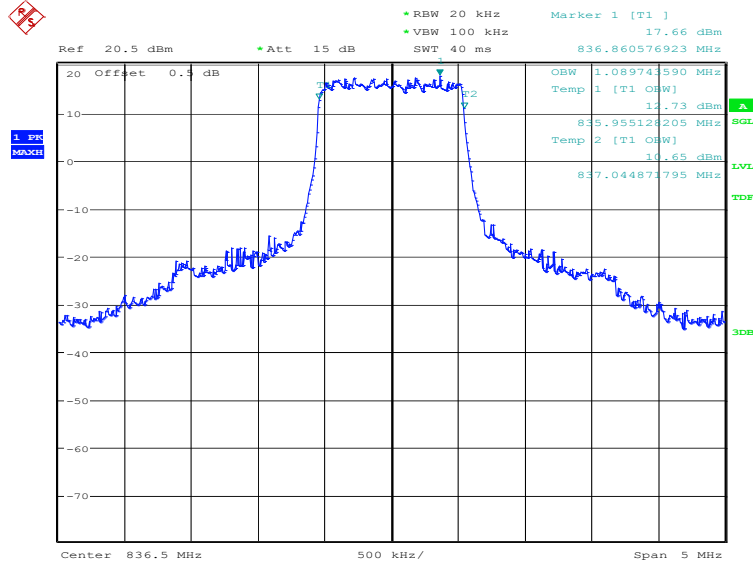


Date: 19.MAY.2021 16:57:47

LTE band 5, 1.4MHz (99%)

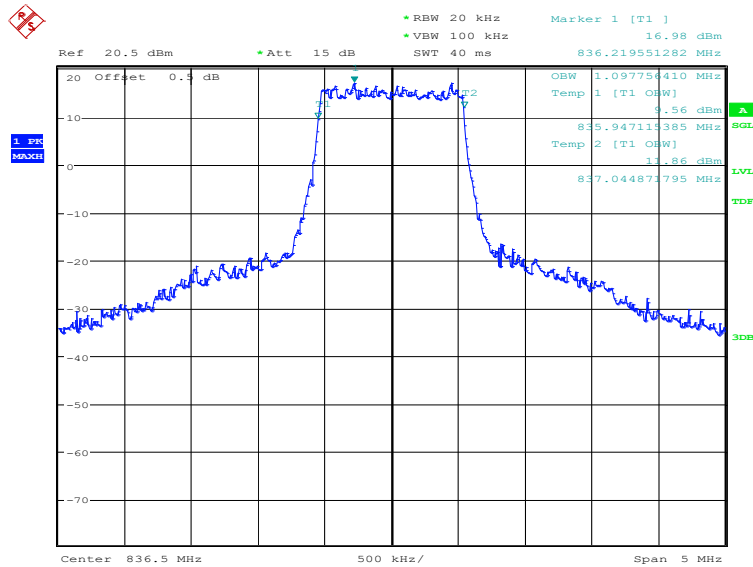
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	1089.74	1097.76

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



Date: 21.MAY.2021 10:54:17

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

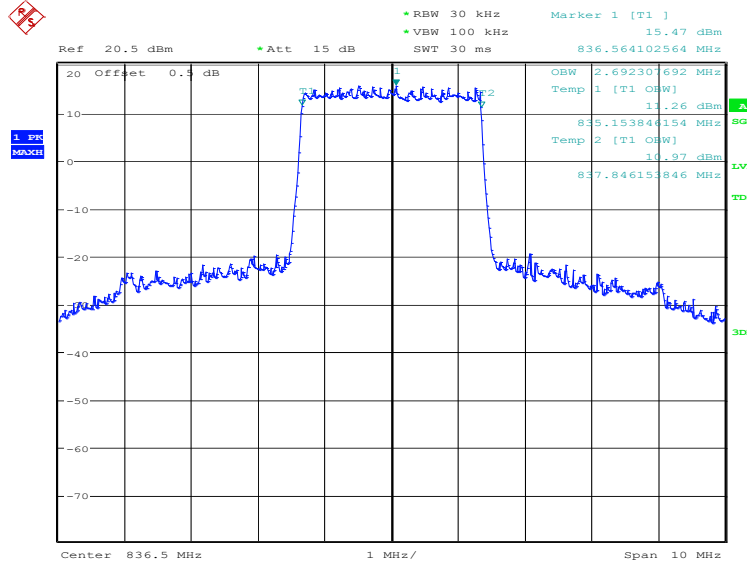


Date: 21.MAY.2021 10:54:57

LTE band 5, 3MHz (99%)

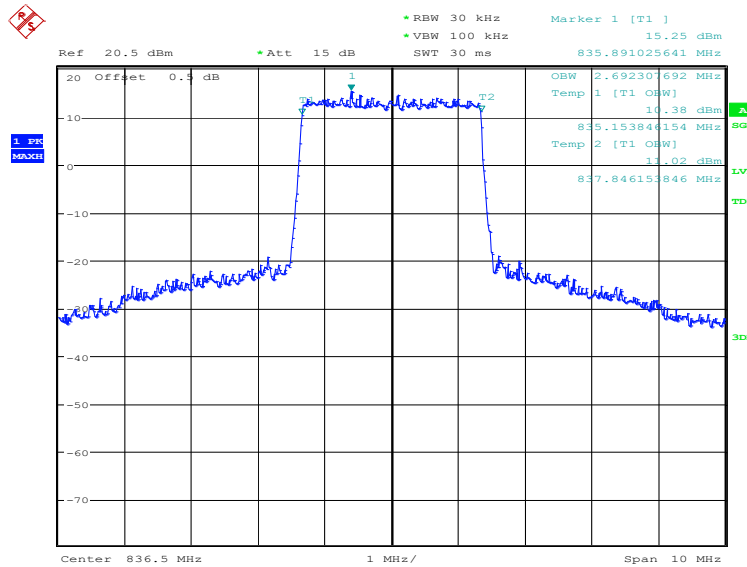
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	2692.31	2692.31

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



Date: 21.MAY.2021 10:56:17

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

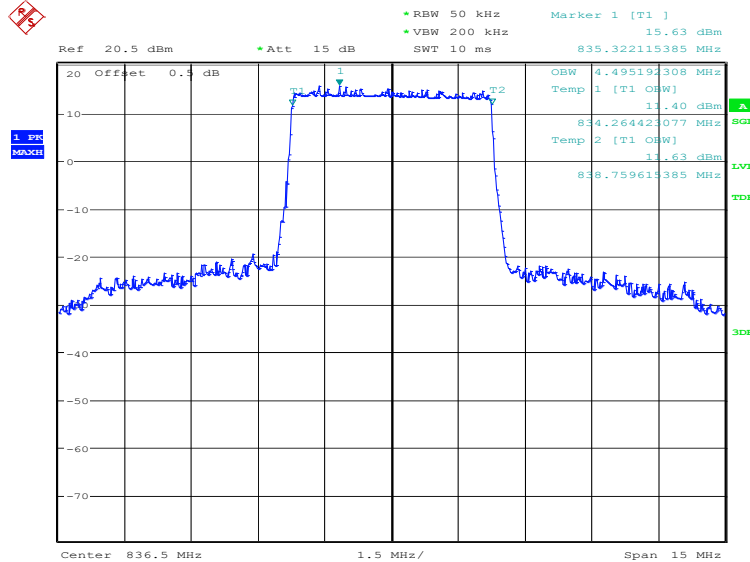


Date: 21.MAY.2021 10:56:56

LTE band 5, 5MHz (99%)

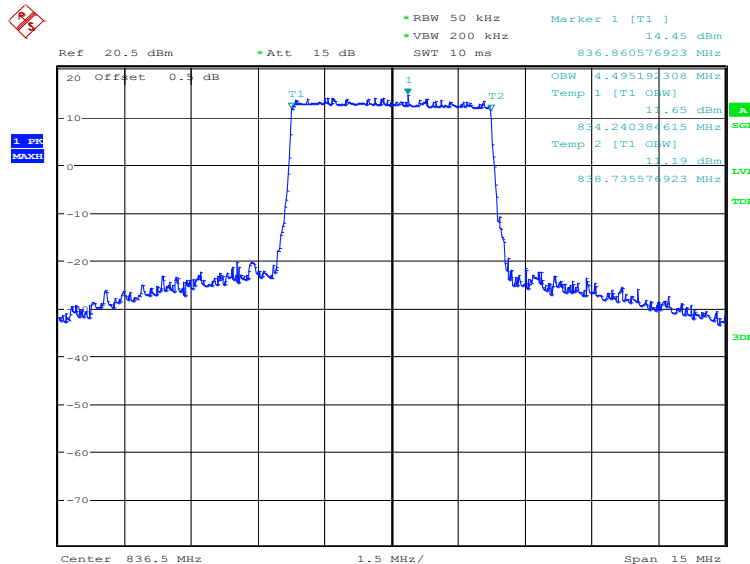
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 21.MAY.2021 10:57:37

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

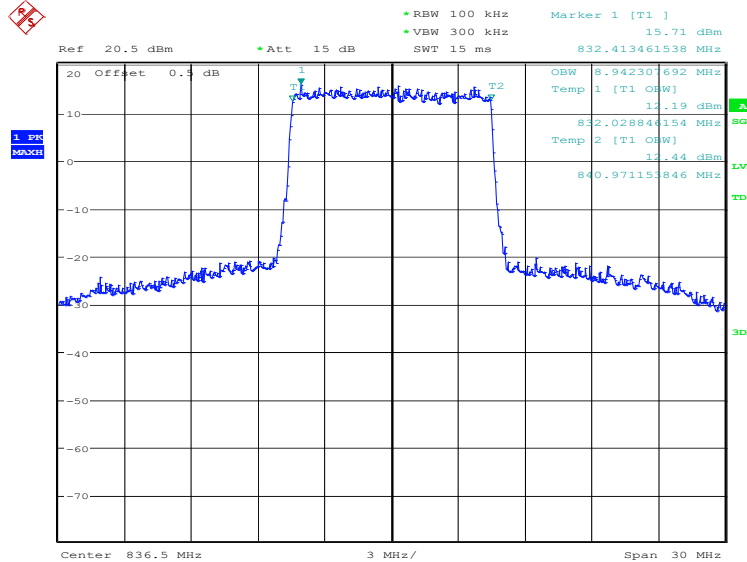


Date: 21.MAY.2021 10:58:17

LTE band 5, 10MHz (99%)

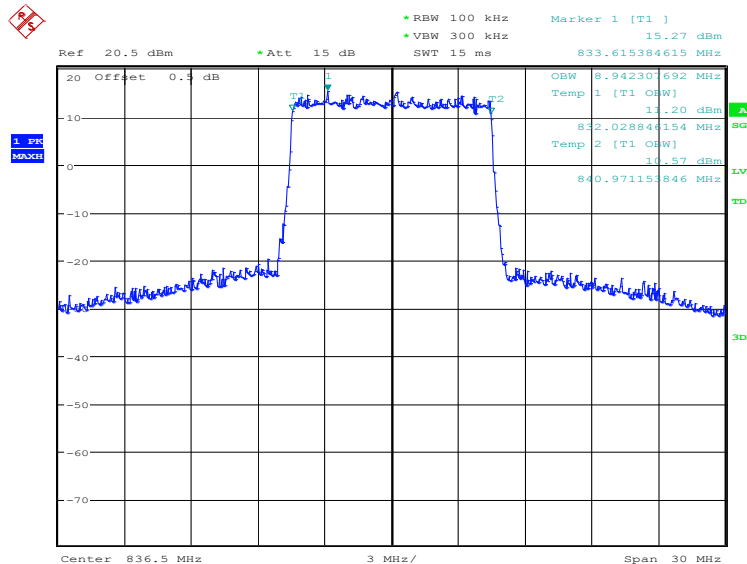
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
836.5	QPSK	16QAM
	8942.31	8942.31

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



Date: 21.MAY.2021 10:58:58

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

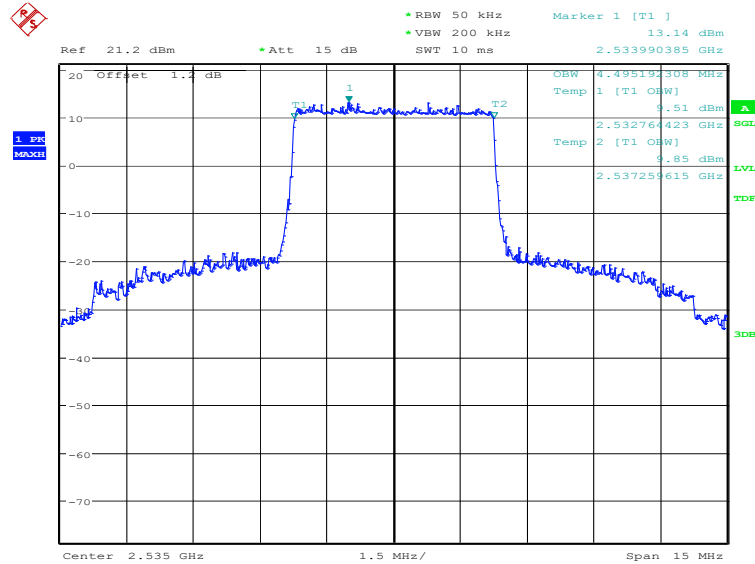


Date: 21.MAY.2021 10:59:37

LTE band 7, 5MHz (99%)

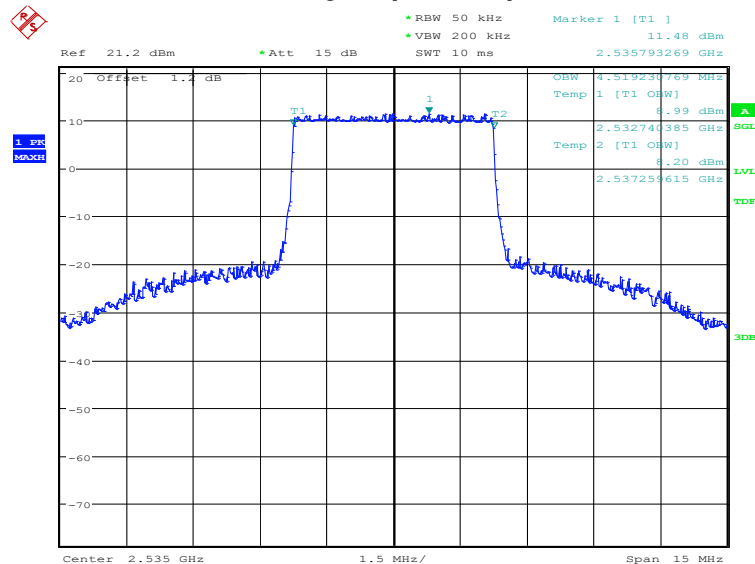
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	4495.19	4519.23

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



Date: 20.MAY.2021 08:25:08

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

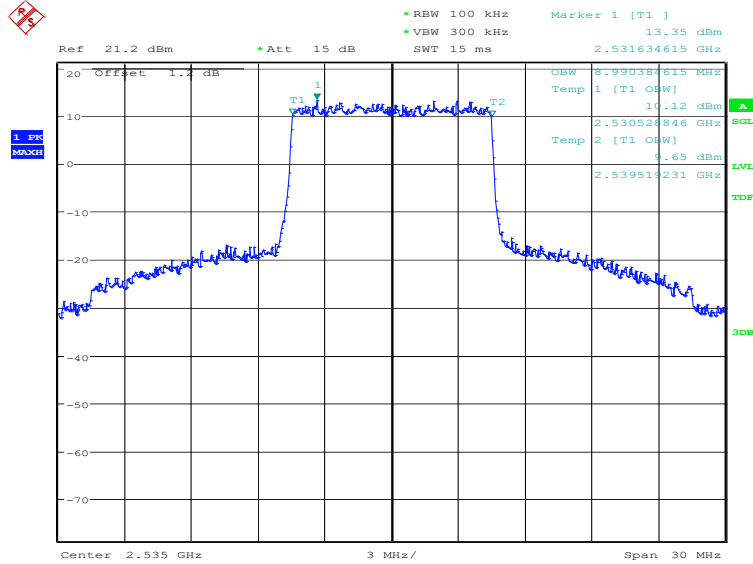


Date: 20.MAY.2021 08:25:48

LTE band 7, 10MHz (99%)

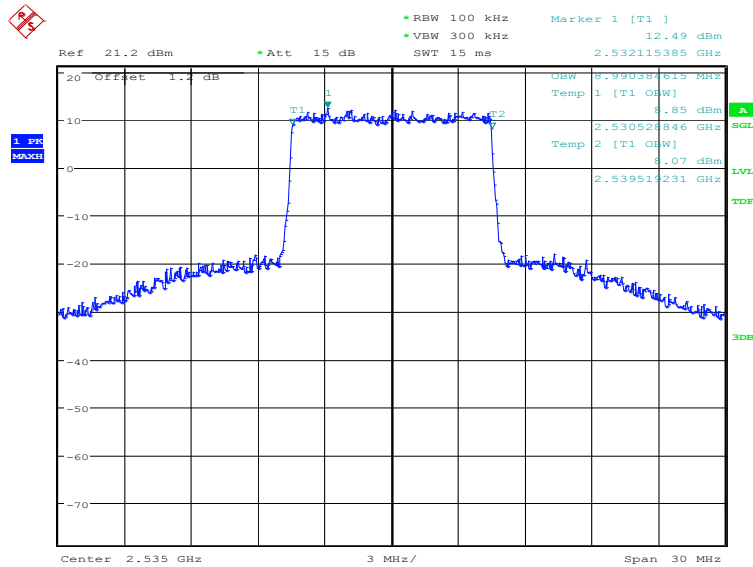
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	8990.38	8990.38

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



Date: 20.MAY.2021 08:27:16

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

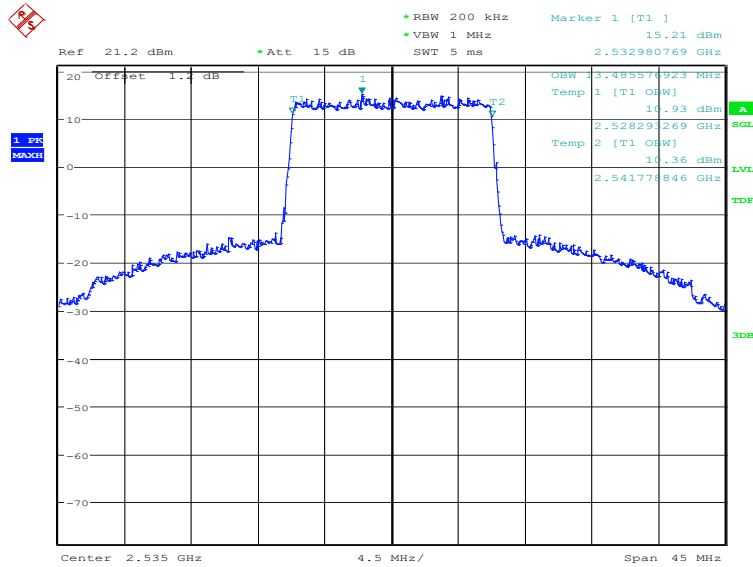


Date: 20.MAY.2021 08:27:55

LTE band 7, 15MHz (99%)

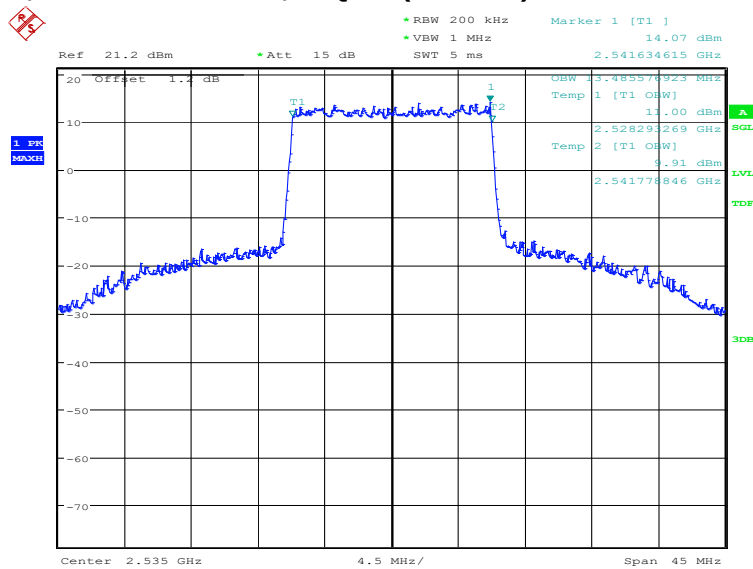
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	13485.58	13485.58

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



Date: 20.MAY.2021 08:29:24

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

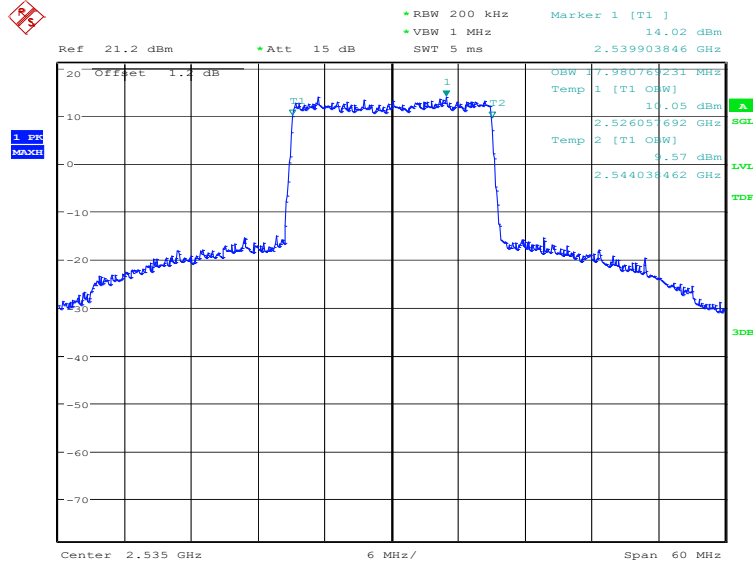


Date: 20.MAY.2021 08:30:03

LTE band 7, 20MHz (99%)

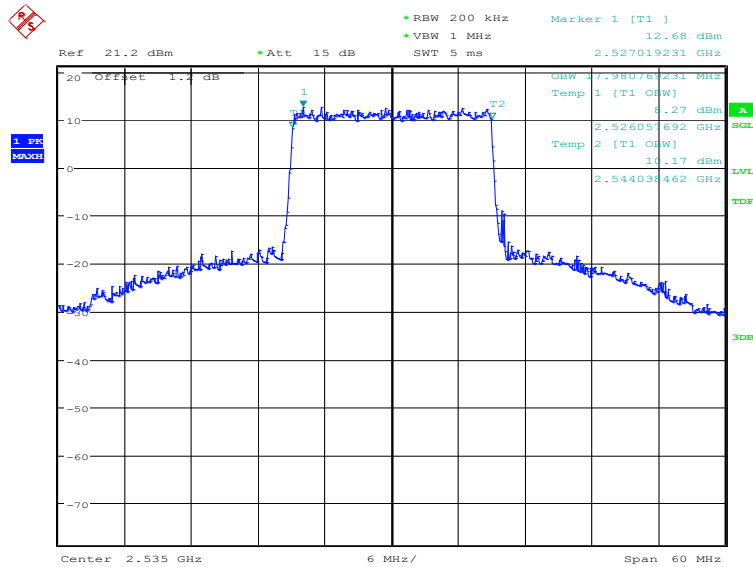
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
2535.0	QPSK	16QAM
	17980.77	17980.77

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



Date: 20.MAY.2021 08:31:31

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

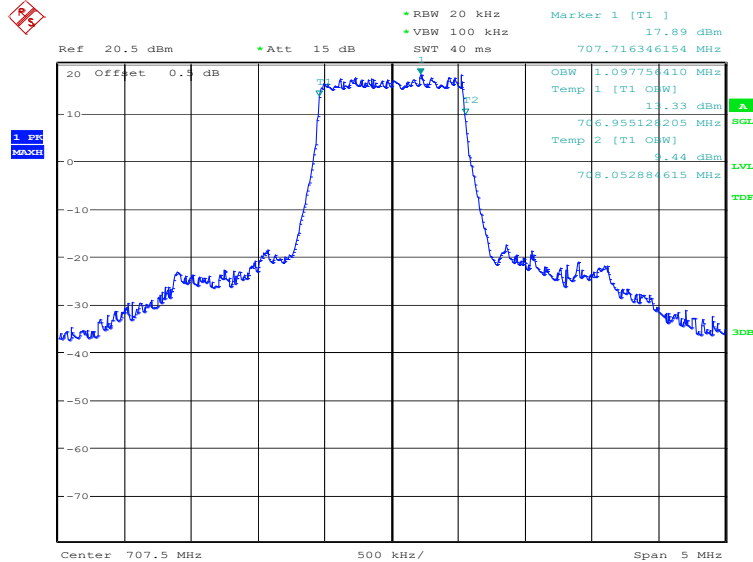


Date: 20.MAY.2021 08:32:11

LTE band 12, 1.4MHz (99%)

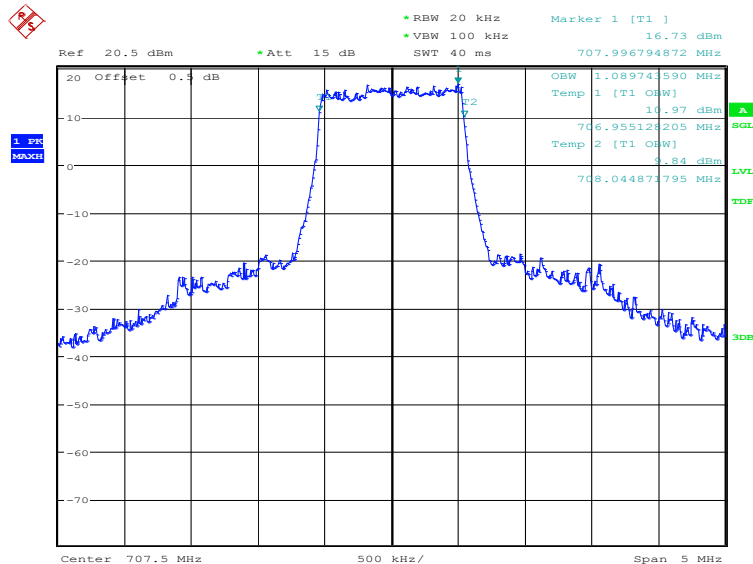
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	1097.76	1089.74

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



Date: 21.MAY.2021 11:09:05

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

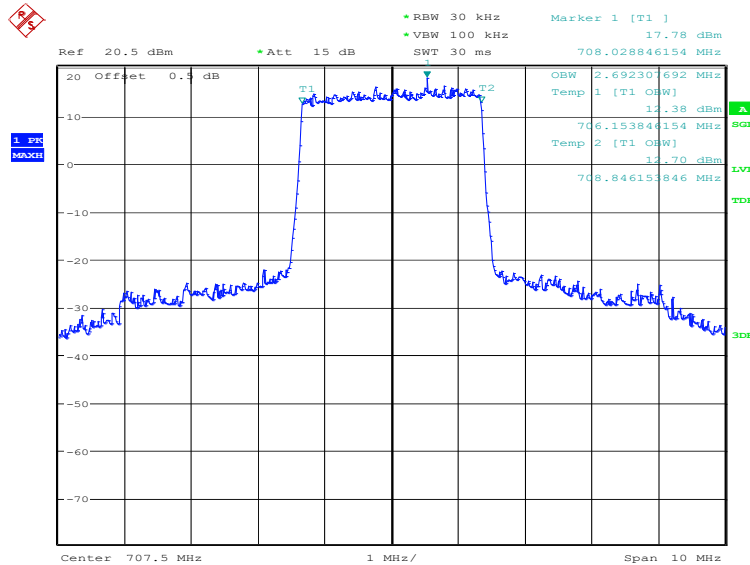


Date: 21.MAY.2021 11:09:44

LTE band 12, 3MHz (99%)

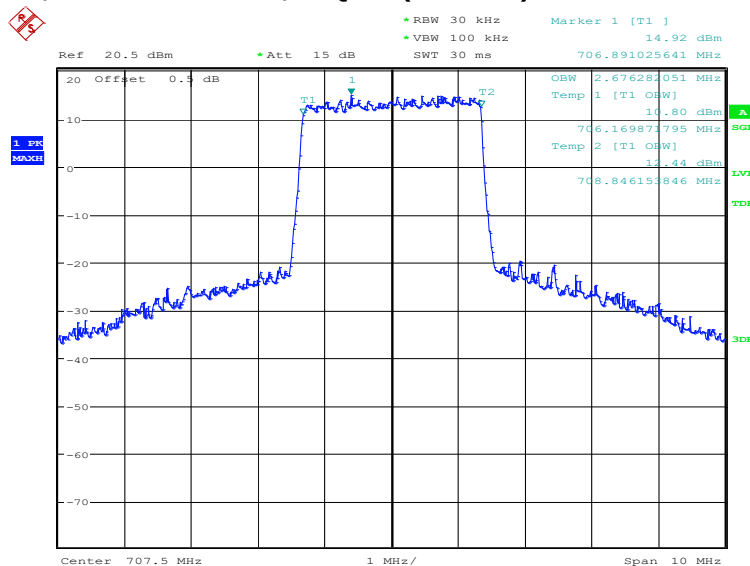
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	2692.31	2676.28

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



Date: 21.MAY.2021 11:11:33

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

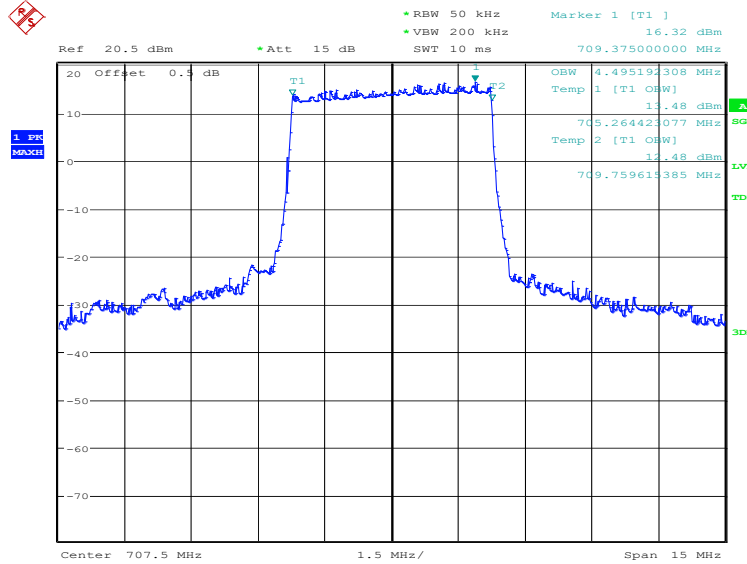


Date: 21.MAY.2021 11:12:13

LTE band 12, 5MHz (99%)

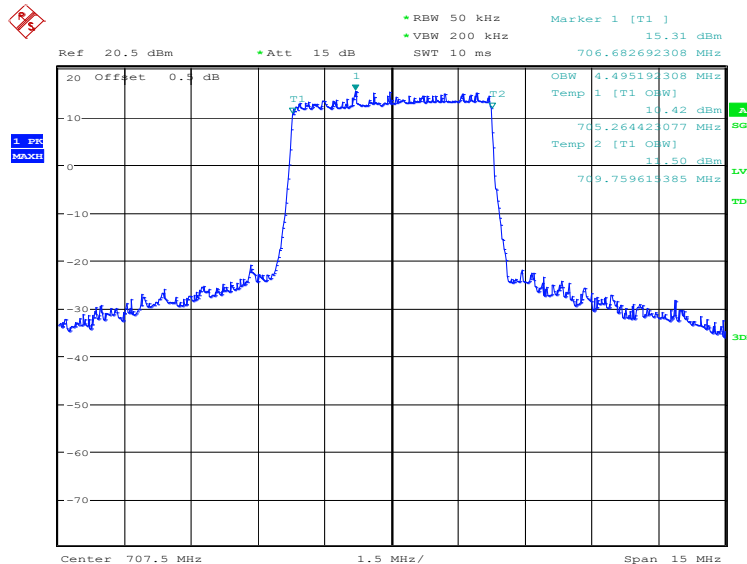
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	4495.19	4495.19

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



Date: 21.MAY.2021 11:13:25

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

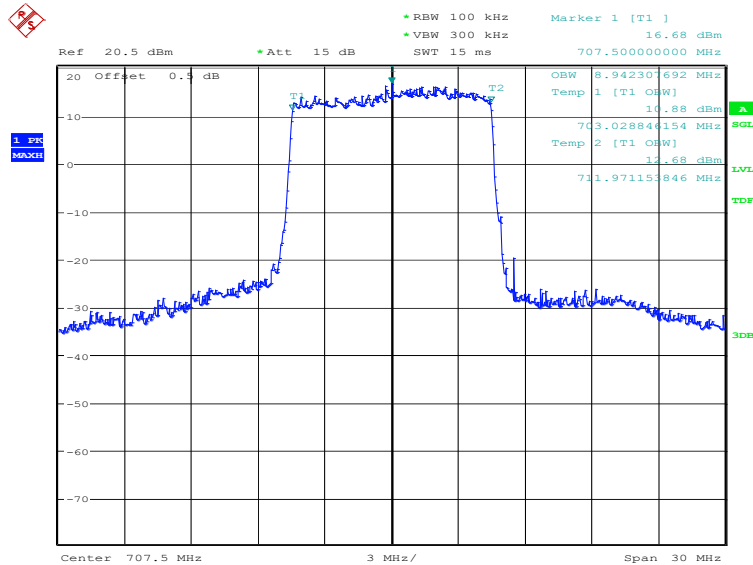


Date: 21.MAY.2021 11:14:04

LTE band 12, 10MHz (99%)

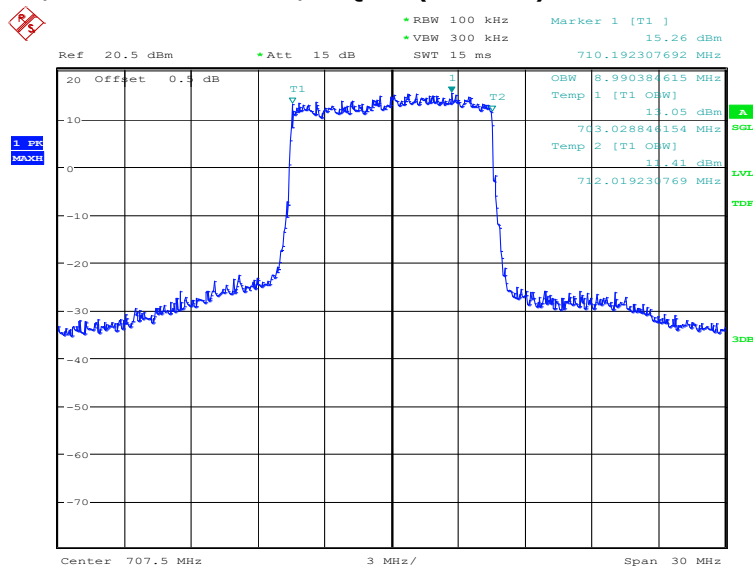
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
707.5	QPSK	16QAM
	8942.31	8990.38

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



Date: 21.MAY.2021 11:15:24

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

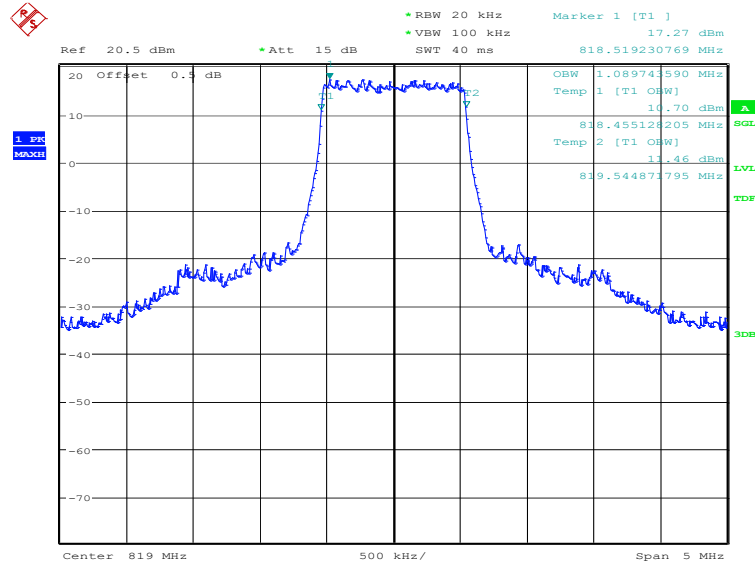


Date: 21.MAY.2021 11:16:04

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

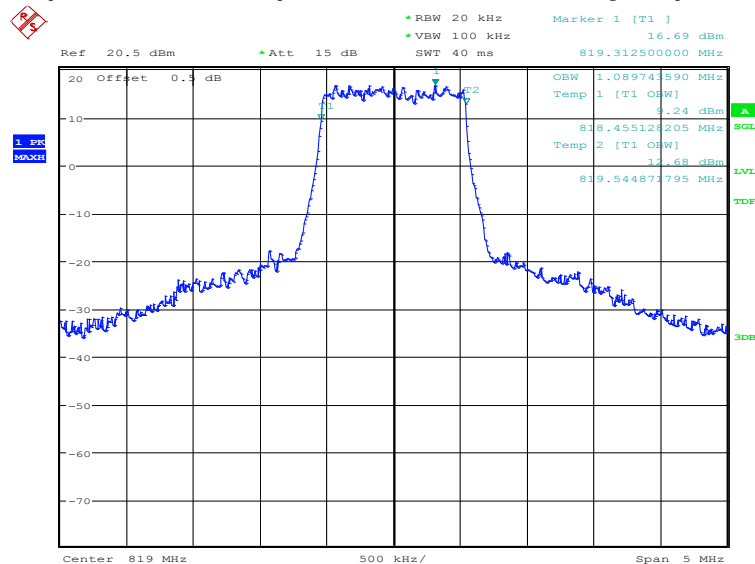
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	1089.74	1089.74

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



Date: 21.MAY.2021 11:54:39

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

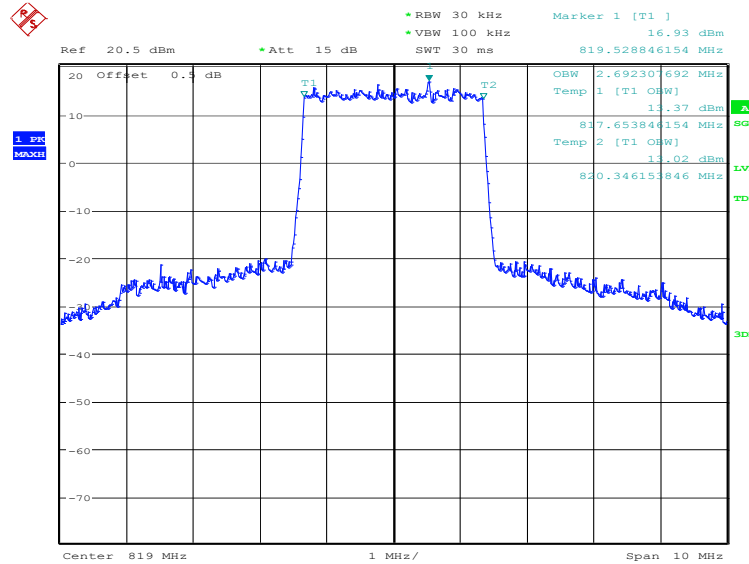


Date: 21.MAY.2021 11:55:19

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

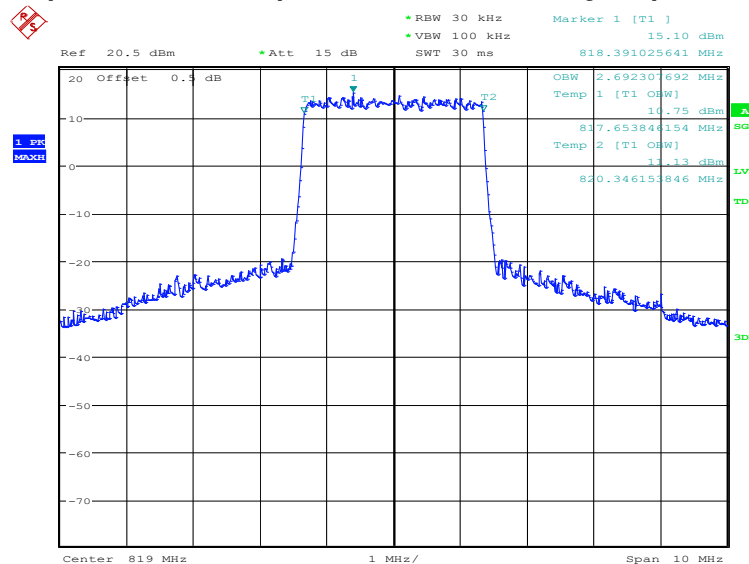
Frequency(MHz)	Occupied Bandwidth (99%)(kHz)	
819.0	QPSK	16QAM
	2692.31	2692.31

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



Date: 21.MAY.2021 11:56:54

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



Date: 21.MAY.2021 11:57:33