



LTE TEST REPORT

No. 25T04Z100870-004

for

TCL Communication Ltd.

Tablet PC

Model Name: 9185W

FCC ID: 2ACCJB229

with

Hardware Version: 05

Software Version: 4J3M

Issued Date: 2025-05-07

Note:

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

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100870-004	Rev.0	1 st edition	2025-05-07

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

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

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

Location 2: CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2025-04-21

Testing End Date: 2025-04-30

1.5. Signature



Wang Xing

(Prepared this test report)



Zhou Yu

(Reviewed this test report)



Zhao Hui Lin

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
Contact: Ting Wang
Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
Contact: Ting Wang
Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091

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

3.1. About EUT

Description	Tablet PC
Model Name	9185W
FCC ID	2ACCJB229
Antenna	Embedded
Output power	24.76dBm maximum EIRP measured for LTE Band 41
Extreme Voltage	3.45VDC to 4.4VDC (nominal: 3.8VDC)
Extreme Temperature	0°C to 60°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT01a	016645000049491/ 016645000049806	05	4J3M	2025-04-21

*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	TLp058C7
Manufacturer	Veken
Capacitance	6000mAh

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

4. Reference Documents

4.1. Documents supplied by applicant

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

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	10-1-23 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	10-1-23 Edition
FCC Part 27	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	10-1-23 Edition
FCC Part 90	PRIVATE LAND MOBILE RADIO SERVICES	10-1-23 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. Summary of Test Result

LTE Band 7

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
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	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 25 (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 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) (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 41 (38)

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
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 66 (4)

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 71

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	27.50	BR
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

Terms used in Verdict column

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

All the test results are based on normal power.

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

LTE Band 25, Band 66, Band 26 and Band 41 overlap the entire frequency range of LTE Band 2, Band 4, Band 5 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 38 as well as Band 25, Band 66, Band 26, Band 41.

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

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



No.25T04Z100870-004

The Equipment Under Test (EUT) model 9185W(FCC ID:2ACCJB229) is a variant product of 9185W(FCC ID:2ACCJB229), according to the declaration of changes provided by the applicant and FCC KDB publication 178919 D01, spot check measurements were performed on this device, all the test results are derived from test report No.24T04Z103031-012. 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.

6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Wideband Radio Communication Tester	CMW500	159082	R&S	2025-12-03	1 year
Spectrum Analyzer	FSV	101576	R&S	2025-05-08	1 year
Climate chamber	SH-241	92004642	ESPEC	2025-10-29	1 year
Test Receiver	FSV30	101525	R&S	2026-01-15	1 year
Test Receiver	FSV40	101047	R&S	2025-07-28	1 year
Antenna	VULB9163	9163-482	Schwarzbeck	2025-05-19	1 year
Antenna	LB-7180-NF	J2030013000005	A-INFO	2025-05-16	1 year
Antenna	LB-180400-25-C-KF	2110084000006	A-INFO	2025-05-15	1 year
Antenna	9117	167	Schwarzbeck	2026-10-15	2 years
Antenna	3115	00146404	ETS-Lindgren	2025-05-16	1 year
Signal Generator	SMF100A	101295	R&S	2026-02-10	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2026-01-15	1 year

Note: Only the latest Cal Due Dates of equipment are listed above and all equipment is in valid calibration period when used.

7. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

Test item		Measurement uncertainty
Output Power(dB)		1.90
Emission Limit(dB)	30MHz-1GHz	2.12
	1GHz-18GHz	3.10
	18GHz-40GHz	3.37
Frequency Stability	FE(ppm)	1.16
	F _L F _H (kHz)	173.51
Occupied Bandwidth(%)		0.72
Emission Bandwidth(%)		0.75
Band Edge Compliance(dB)		1.94
Conducted Spurious Emission(dB)		4.77(0-20GHz)
		6.27(20-30GHz)
Peak-to-Average Power Ratio(dB)		2.10

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

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

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

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

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

A.1.2.2 Measurement Result

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.85	22.15	21.00	20.41
		2535.0	22.73	21.99	20.90	19.74
		2502.5	22.82	21.97	20.87	20.45
	1 RB low	2567.5	22.85	22.17	21.00	19.65
		2535.0	22.73	22.00	20.91	20.12
		2502.5	22.67	22.58	20.74	19.59
	50% RB mid	2567.5	21.85	20.85	19.86	18.98
		2535.0	21.71	20.72	19.73	18.64
		2502.5	21.75	20.63	19.67	18.73
	100% RB	2567.5	21.91	20.89	19.84	18.81
		2535.0	21.78	20.76	19.73	18.56
		2502.5	21.55	20.66	19.64	18.81
10MHz	1 RB high	2565.0	22.92	22.18	21.10	20.43
		2535.0	22.77	22.06	20.92	19.98
		2505.0	22.87	22.15	21.01	20.27
	1 RB low	2565.0	22.79	22.07	21.00	20.01
		2535.0	22.79	22.06	20.94	20.40
		2505.0	22.61	21.88	20.77	19.67
	50% RB mid	2565.0	21.84	20.84	19.79	18.98
		2535.0	21.75	20.73	19.70	18.82
		2505.0	21.72	20.70	19.68	18.97
	100% RB	2565.0	21.86	20.89	19.84	18.73
		2535.0	21.78	20.76	19.73	18.98
		2505.0	21.71	20.70	19.70	18.89
15MHz	1 RB high	2562.5	22.98	22.28	21.14	20.53
		2535.0	22.82	22.07	20.95	20.06
		2507.5	22.99	22.28	21.17	20.23
	1 RB low	2562.5	22.73	22.01	20.91	20.05
		2535.0	22.81	22.10	20.99	20.26
		2507.5	22.65	21.92	20.83	19.63
	50% RB mid	2562.5	21.86	20.87	19.87	18.84
		2535.0	21.79	20.79	19.79	18.96
		2507.5	21.81	20.81	19.80	18.89
	100% RB	2562.5	21.88	20.91	19.87	18.89
		2535.0	21.84	20.85	19.82	18.76
		2507.5	21.84	20.84	19.82	18.89
20MHz	1 RB high	2560.0	23.02	22.33	21.19	20.45
		2535.0	22.82	22.12	21.00	20.14
		2510.0	23.06	22.36	21.21	20.31
	1 RB low	2560.0	22.64	21.95	20.81	19.85

		2535.0	22.88	22.18	21.06	20.28
		2510.0	22.66	21.94	20.79	19.85
	50% RB mid	2560.0	21.90	20.90	19.88	18.82
		2535.0	21.88	20.86	19.84	18.96
		2510.0	21.92	20.91	19.87	18.77
	100% RB	2560.0	21.92	20.90	19.87	18.93
		2535.0	21.89	20.89	19.86	18.82
		2510.0	21.91	20.90	19.89	18.91

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.71	22.00	20.81	20.09
		707.5	22.79	22.06	20.95	19.98
		699.7	22.77	22.17	21.10	19.95
	1 RB low	715.3	22.70	21.99	20.82	19.84
		707.5	22.79	22.09	21.02	19.74
		699.7	22.81	22.08	21.00	20.14
	50% RB mid	715.3	22.65	21.64	20.80	19.37
		707.5	22.72	21.76	20.85	19.46
		699.7	22.73	21.78	20.89	19.80
	100% RB	715.3	21.67	20.72	19.64	18.83
		707.5	21.74	20.83	19.71	18.82
		699.7	21.83	20.88	19.78	18.52
3MHz	1 RB high	714.5	22.70	21.93	20.87	20.01
		707.5	22.78	22.00	20.88	19.84
		700.5	22.80	22.10	20.96	20.07
	1 RB low	714.5	22.71	21.93	20.83	19.80
		707.5	22.79	21.99	20.87	19.92
		700.5	22.77	22.09	20.93	19.92
	50% RB mid	714.5	21.69	20.71	19.70	18.61
		707.5	21.76	20.80	19.76	18.66
		700.5	21.81	20.89	19.88	18.80
	100% RB	714.5	21.69	20.70	19.64	18.71
		707.5	21.74	20.76	19.71	18.70
		700.5	21.82	20.85	19.79	18.72
5MHz	1 RB high	713.5	22.80	22.07	20.90	20.03
		707.5	22.85	22.10	20.90	20.08
		701.5	22.92	22.14	21.00	20.03
	1 RB low	713.5	22.78	22.05	20.90	19.98
		707.5	22.82	22.06	20.87	19.82
		701.5	22.85	22.08	20.96	20.10
	50% RB mid	713.5	21.72	20.75	19.77	18.63
		707.5	21.80	20.78	19.84	18.60
		701.5	21.84	20.85	19.86	18.90
	100% RB	713.5	21.75	20.74	19.70	18.63
		707.5	21.82	20.81	19.79	18.64
		701.5	21.86	20.85	19.82	18.88
10MHz	1 RB high	711.0	22.91	22.16	21.03	20.11
		707.5	22.95	22.19	21.04	20.06
		704.0	22.98	22.25	21.07	19.91
	1 RB low	711.0	22.87	22.13	20.98	19.96

		707.5	22.87	22.13	20.96	19.82
		704.0	22.88	22.15	21.04	19.94
	50% RB mid	711.0	21.76	20.72	19.73	18.75
		707.5	21.79	20.78	19.76	18.58
		704.0	21.84	20.80	19.82	18.64
	100% RB	711.0	21.78	20.76	19.75	18.59
		707.5	21.83	20.82	19.80	18.78
		704.0	21.83	20.80	19.78	18.82

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.05	22.32	21.23	20.15
		1882.5	23.27	22.58	21.41	20.43
		1850.7	23.53	22.75	21.65	20.28
	1 RB low	1914.3	23.08	22.34	21.22	20.13
		1882.5	23.30	22.59	21.50	20.38
		1850.7	23.53	22.74	21.70	20.68
	50% RB mid	1914.3	23.06	22.12	21.20	20.12
		1882.5	23.23	22.26	21.37	20.02
		1850.7	23.49	22.53	21.62	20.42
	100% RB	1914.3	22.12	21.18	20.05	19.01
		1882.5	22.26	21.32	20.23	19.30
		1850.7	22.52	21.54	20.49	19.16
3MHz	1 RB high	1913.5	23.09	22.27	21.22	20.01
		1882.5	23.27	22.56	21.45	20.21
		1851.5	23.49	22.77	21.68	20.18
	1 RB low	1913.5	23.17	22.34	21.28	20.23
		1882.5	23.28	22.57	21.47	20.26
		1851.5	23.50	22.80	21.66	20.50
	50% RB mid	1913.5	22.12	21.18	20.14	19.26
		1882.5	22.24	21.31	20.32	19.04
		1851.5	22.54	21.61	20.59	19.42
	100% RB	1913.5	22.11	21.13	20.09	19.05
		1882.5	22.28	21.27	20.22	19.26
		1851.5	22.56	21.57	20.56	19.26
5MHz	1 RB high	1912.5	23.12	22.34	21.25	20.23
		1882.5	23.35	22.58	21.49	20.05
		1852.5	23.51	22.73	21.73	20.28
	1 RB low	1912.5	23.24	22.49	21.41	20.15
		1882.5	23.35	22.62	21.53	20.48
		1852.5	23.56	22.80	21.75	20.42
	50% RB mid	1912.5	22.20	21.22	20.25	19.12
		1882.5	22.34	21.33	20.34	19.40
		1852.5	22.61	21.59	20.62	19.04
	100% RB	1912.5	22.23	21.21	20.22	19.21
		1882.5	22.35	21.33	20.30	19.42
		1852.5	22.63	21.61	20.55	19.06
10MHz	1 RB high	1910.0	23.19	22.35	21.28	20.05
		1882.5	23.34	22.57	21.51	20.31
		1855.0	23.54	22.73	21.65	20.18
	1 RB low	1910.0	23.42	22.63	21.53	20.45

		1882.5	23.43	22.66	21.58	20.38
		1855.0	23.60	22.85	21.75	20.50
	50% RB mid	1910.0	22.30	21.32	20.29	19.20
		1882.5	22.34	21.34	20.30	19.28
		1855.0	22.63	21.62	20.58	19.44
	100% RB	1910.0	22.32	21.29	20.29	18.97
		1882.5	22.36	21.33	20.30	19.14
1855.0		22.60	21.60	20.56	19.20	
15MHz	1 RB high	1907.5	23.22	22.49	21.29	20.09
		1882.5	23.29	22.59	21.38	20.03
		1857.5	23.52	22.73	21.75	20.32
	1 RB low	1907.5	23.38	22.68	21.46	20.17
		1882.5	23.40	22.72	21.53	20.46
		1857.5	23.63	22.86	21.85	20.66
	50% RB mid	1907.5	22.34	21.37	20.36	19.32
		1882.5	22.35	21.33	20.34	19.22
		1857.5	22.59	21.60	20.62	19.26
	100% RB	1907.5	22.35	21.34	20.32	19.13
		1882.5	22.34	21.34	20.32	19.00
		1857.5	22.63	21.62	20.60	19.38
20MHz	1 RB high	1905.0	23.20	22.47	21.33	20.05
		1882.5	23.33	22.52	21.47	20.31
		1860.0	23.48	22.63	21.62	20.32
	1 RB low	1905.0	23.39	22.65	21.57	20.37
		1882.5	23.43	22.69	21.64	20.22
		1860.0	23.69	22.96	21.84	20.50
	50% RB mid	1905.0	22.40	21.40	20.38	19.16
		1882.5	22.40	21.38	20.36	19.36
		1860.0	22.67	21.66	20.62	19.42
	100% RB	1905.0	22.39	21.38	20.37	19.17
		1882.5	22.34	21.31	20.32	19.32
		1860.0	22.61	21.61	20.60	19.30

LTE band 26(824MHz~849MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.72	21.76	20.69	17.76
		836.5	22.66	21.75	20.71	17.78
		824.7	22.76	21.79	21.22	17.90
	1 RB low	848.3	22.70	21.71	20.57	17.77
		836.5	22.66	21.76	20.60	17.79
		824.7	22.76	21.80	21.08	17.99
	50% RB mid	848.3	22.81	21.89	20.83	17.77
		836.5	22.67	21.76	20.88	17.81
		824.7	22.82	21.95	21.11	17.83
	100% RB	848.3	21.75	20.94	19.82	17.76
		836.5	21.64	20.94	19.84	17.77
		824.7	21.76	21.02	19.88	17.80
3MHz	1 RB high	847.5	22.67	21.72	20.60	17.73
		836.5	22.59	21.61	20.64	17.78
		825.5	22.75	21.78	20.64	17.77
	1 RB low	847.5	22.65	21.69	20.49	17.72
		836.5	22.62	21.66	20.53	17.71
		825.5	22.78	21.81	20.55	17.86
	50% RB mid	847.5	21.68	20.76	19.78	17.78
		836.5	21.60	20.83	19.81	17.82
		825.5	21.71	20.78	19.70	17.75
	100% RB	847.5	21.70	20.70	19.79	17.73
		836.5	21.62	20.72	19.79	17.78
		825.5	21.72	20.72	19.82	17.77
5MHz	1 RB high	846.5	22.83	21.87	20.97	17.86
		836.5	22.78	21.81	21.02	17.89
		826.5	22.83	21.89	21.06	17.95
	1 RB low	846.5	22.73	21.78	21.03	17.90
		836.5	22.78	21.82	21.08	17.84
		826.5	22.90	21.94	21.14	18.01
	50% RB mid	846.5	21.72	20.85	19.94	17.88
		836.5	21.67	20.89	19.98	17.89
		826.5	21.76	20.84	19.89	17.90
	100% RB	846.5	21.81	20.78	19.86	17.86
		836.5	21.73	20.77	19.88	17.85
		826.5	21.83	20.80	19.91	17.90
10MHz	1 RB high	844.0	22.89	21.90	20.76	17.93
		836.5	22.79	21.79	20.78	17.96
		829.0	22.80	21.80	20.74	17.92
	1 RB low	844.0	22.77	21.78	20.64	17.95

		836.5	22.80	21.83	20.69	17.91
		829.0	22.88	21.89	20.65	17.92
	50% RB mid	844.0	21.80	20.91	19.92	17.89
		836.5	21.73	20.91	19.91	17.89
		829.0	21.82	20.89	19.93	17.90
	100% RB	844.0	21.78	20.87	19.86	17.83
		836.5	21.75	20.85	19.83	17.82
829.0		21.84	20.87	19.85	17.85	
15MHz	1 RB high	841.5	22.88	22.28	21.24	18.11
		836.5	22.79	22.20	21.25	18.13
		831.5	22.77	22.16	21.23	18.08
	1 RB low	841.5	22.79	22.18	21.16	18.09
		836.5	22.83	22.23	21.21	18.16
		831.5	22.87	22.27	21.20	18.10
	50% RB mid	841.5	21.80	20.91	19.88	17.92
		836.5	21.78	20.84	19.87	17.89
		831.5	21.79	20.84	19.88	17.87
	100% RB	841.5	21.80	20.89	19.92	17.89
		836.5	21.79	20.87	19.89	17.90
		831.5	21.83	20.90	19.87	17.88

LTE band 26(814MHz~824MHz)

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	22.80	21.89	20.83	17.90
		819.0	22.76	21.87	20.76	17.83
		814.7	22.78	21.81	21.28	17.99
	1 RB low	823.3	22.76	21.87	20.74	17.90
		819.0	22.78	21.90	20.66	17.81
		814.7	22.84	21.85	21.17	18.06
	50% RB mid	823.3	22.73	21.74	20.69	17.88
		819.0	22.81	21.94	20.71	17.86
		814.7	22.77	21.80	21.17	17.88
	100% RB	823.3	21.76	20.97	19.82	17.89
		819.0	21.74	21.02	19.80	17.83
		814.7	21.78	21.02	19.93	17.89
3MHz	1 RB high	822.5	22.75	21.76	20.76	17.88
		819.0	22.69	21.69	20.68	17.82
		815.5	22.75	21.77	20.72	17.86
	1 RB low	822.5	22.67	21.71	20.63	17.87
		819.0	22.68	21.73	20.59	17.76
		815.5	22.84	21.90	20.62	17.97
	50% RB mid	822.5	21.69	20.87	19.91	17.85
		819.0	21.68	20.81	19.85	17.83
		815.5	21.73	20.87	19.78	17.88
	100% RB	822.5	21.74	20.81	19.89	17.85
		819.0	21.71	20.72	19.81	17.78
		815.5	21.75	20.79	19.87	17.86
5MHz	1 RB high	821.5	22.88	21.93	21.10	18.00
		819.0	22.84	21.88	21.12	18.02
		816.5	22.88	21.92	21.06	17.95
	1 RB low	821.5	22.84	21.87	21.17	17.92
		819.0	22.87	21.92	21.19	17.95
		816.5	23.00	22.02	21.13	18.09
	50% RB mid	821.5	21.78	20.93	20.03	17.97
		819.0	21.77	20.95	20.01	17.93
		816.5	21.80	20.94	19.94	17.97
	100% RB	821.5	21.83	20.87	19.97	17.95
		819.0	21.82	20.85	19.91	17.91
		816.5	21.83	20.85	19.94	17.93
10MHz	1 RB high	819.0	22.89	21.91	20.83	18.02
	1 RB low	819.0	22.88	21.89	20.75	17.97
	50% RB mid	819.0	21.79	20.94	19.96	17.94
	100% RB	819.0	21.82	20.91	19.91	17.91

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.23	24.38	23.29	22.56
		2593.0	25.62	24.79	23.70	22.73
		2498.5	25.64	24.65	23.67	22.85
	1 RB low	2687.5	25.25	24.41	23.34	22.37
		2593.0	25.67	24.82	23.74	22.75
		2498.5	25.51	24.64	23.54	22.67
	50% RB mid	2687.5	24.25	23.31	22.30	21.32
		2593.0	24.67	23.73	22.73	21.73
		2498.5	24.59	23.64	22.63	21.88
	100% RB	2687.5	24.29	23.31	22.31	21.25
		2593.0	24.70	23.75	22.74	21.62
		2498.5	24.62	23.65	22.65	21.95
10MHz	1 RB high	2685.0	25.25	24.42	23.29	22.66
		2593.0	25.62	24.81	23.67	22.65
		2501.0	25.76	24.97	23.81	22.69
	1 RB low	2685.0	25.29	24.47	23.35	22.41
		2593.0	25.71	24.90	23.76	22.93
		2501.0	25.51	24.70	23.56	22.57
	50% RB mid	2685.0	24.26	23.30	22.31	21.48
		2593.0	24.66	23.69	22.70	21.81
		2501.0	24.62	23.65	22.67	21.80
	100% RB	2685.0	24.28	23.32	22.28	21.41
		2593.0	24.72	23.75	22.71	21.74
		2501.0	24.63	23.67	22.64	21.81
15MHz	1 RB high	2682.5	25.25	24.43	23.31	22.42
		2593.0	25.63	24.81	23.69	22.97
		2503.5	25.90	25.08	23.96	22.93
	1 RB low	2682.5	25.34	24.53	23.41	22.35
		2593.0	25.77	24.94	23.83	22.73
		2503.5	25.57	24.75	23.62	22.83
	50% RB mid	2682.5	24.28	23.27	22.26	21.34
		2593.0	24.68	23.67	22.68	21.81
		2503.5	24.74	23.74	22.73	21.82
	100% RB	2682.5	24.33	23.36	22.34	21.29
		2593.0	24.72	23.75	22.72	21.80
		2503.5	24.78	23.81	22.78	22.05
20MHz	1 RB high	2680.0	25.28	24.46	23.35	22.50
		2593.0	25.62	24.81	23.68	22.81
		2506.0	25.96	25.16	24.02	22.85
	1 RB low	2680.0	25.32	24.50	23.38	22.27



		2593.0	25.81	24.99	23.88	22.73
		2506.0	25.59	24.77	23.64	22.75
	50% RB mid	2680.0	24.34	23.37	22.35	21.36
		2593.0	24.77	23.79	22.78	21.67
		2506.0	24.85	23.87	22.85	21.92
	100% RB	2680.0	24.35	23.36	22.34	21.35
		2593.0	24.77	23.79	22.77	21.62
		2506.0	24.85	23.86	22.86	21.99

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.05	22.30	21.23	19.92
		1745.0	22.78	22.09	20.96	19.91
		1710.7	23.04	22.26	21.17	19.86
	1 RB low	1779.3	23.04	22.29	21.24	20.01
		1745.0	22.80	22.17	21.01	20.15
		1710.7	23.06	22.25	21.23	20.11
	50% RB mid	1779.3	23.00	22.09	21.18	19.72
		1745.0	22.74	21.80	20.89	19.59
		1710.7	23.02	22.05	21.14	19.60
	100% RB	1779.3	22.06	21.12	20.05	18.72
		1745.0	21.78	20.85	19.75	18.62
		1710.7	22.07	21.13	20.04	18.94
3MHz	1 RB high	1778.5	23.01	22.23	21.20	19.48
		1745.0	22.77	22.02	20.98	19.73
		1711.5	22.97	22.26	21.11	19.86
	1 RB low	1778.5	23.08	22.22	21.22	19.83
		1745.0	22.77	22.01	20.97	19.91
		1711.5	23.00	22.32	21.16	20.39
	50% RB mid	1778.5	22.04	21.12	20.10	18.62
		1745.0	21.81	20.89	19.88	18.65
		1711.5	22.08	21.15	20.12	18.50
	100% RB	1778.5	22.06	21.07	20.01	18.88
		1745.0	21.83	20.86	19.82	18.64
		1711.5	22.08	21.11	20.05	18.48
5MHz	1 RB high	1777.5	23.07	22.32	21.21	19.90
		1745.0	22.81	22.12	21.04	19.67
		1712.5	23.01	22.31	21.22	19.82
	1 RB low	1777.5	23.05	22.32	21.23	19.79
		1745.0	22.90	22.06	21.06	20.01
		1712.5	23.07	22.34	21.28	20.25
	50% RB mid	1777.5	22.08	21.09	20.11	18.80
		1745.0	21.91	20.87	19.93	18.77
		1712.5	22.08	21.12	20.11	18.90
	100% RB	1777.5	22.12	21.10	20.10	19.02
		1745.0	21.91	20.89	19.89	18.60
		1712.5	22.11	21.10	20.09	18.86
10MHz	1 RB high	1775.0	23.13	22.30	21.27	19.94
		1745.0	22.90	22.14	21.03	19.89
		1715.0	23.07	22.34	21.24	19.80
	1 RB low	1775.0	23.08	22.27	21.21	19.99

		1745.0	22.91	22.19	21.05	20.15	
		1715.0	23.10	22.36	21.30	20.29	
	50% RB mid	1775.0	22.10	21.11	20.10	18.82	
		1745.0	21.90	20.92	19.89	18.57	
		1715.0	22.09	21.06	20.04	18.66	
	100% RB	1775.0	22.09	21.10	20.10	19.06	
		1745.0	21.90	20.91	19.88	18.56	
1715.0		22.08	21.07	20.05	18.76		
15MHz	1 RB high	1772.5	23.04	22.35	21.23	19.92	
		1745.0	22.91	22.11	21.01	19.79	
		1717.5	22.97	22.28	21.14	19.78	
	1 RB low	1772.5	23.07	22.38	21.22	19.79	
		1745.0	22.94	22.24	21.12	20.03	
		1717.5	23.12	22.37	21.33	20.25	
	50% RB mid	1772.5	22.08	21.07	20.09	18.64	
		1745.0	21.89	20.90	19.92	18.79	
		1717.5	22.07	21.07	20.09	18.94	
	100% RB	1772.5	22.11	21.12	20.11	18.96	
		1745.0	21.91	20.93	19.92	18.64	
		1717.5	22.10	21.11	20.09	18.76	
	20MHz	1 RB high	1770.0	23.06	22.40	21.19	19.76
			1745.0	22.85	22.12	21.08	19.77
			1720.0	22.96	22.31	21.11	19.68
1 RB low		1770.0	23.04	22.31	21.20	19.85	
		1745.0	23.18	22.30	21.18	19.97	
		1720.0	23.20	22.51	21.28	20.09	
50% RB mid		1770.0	22.10	21.11	20.09	18.66	
		1745.0	21.96	20.95	19.94	18.67	
		1720.0	22.11	21.11	20.07	18.78	
100% RB		1770.0	22.08	21.07	20.07	18.86	
		1745.0	21.94	20.92	19.93	18.62	
		1720.0	22.09	21.05	20.05	18.84	

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.81	21.95	20.91	19.45
		680.5	22.59	21.85	20.71	19.43
		665.5	22.65	21.59	20.59	19.39
	1 RB low	695.5	22.62	22.08	20.84	19.46
		680.5	22.72	22.06	20.88	19.54
		665.5	22.55	21.98	20.70	19.32
	50% RB mid	695.5	21.56	20.49	19.53	18.15
		680.5	21.44	20.53	19.45	18.07
		665.5	21.48	20.39	19.75	18.41
	100% RB	695.5	21.60	20.58	19.94	18.54
		680.5	21.66	20.47	19.90	18.50
		665.5	21.76	20.53	19.88	18.62
10MHz	1 RB high	693.0	22.75	22.29	20.83	19.37
		680.5	22.73	22.21	20.63	19.43
		668.0	22.67	21.91	20.75	19.27
	1 RB low	693.0	22.92	22.24	20.90	19.72
		680.5	22.80	21.86	20.72	19.32
		668.0	22.65	22.16	20.74	19.36
	50% RB mid	693.0	21.78	20.57	19.59	18.21
		680.5	21.70	20.47	19.75	18.05
		668.0	21.44	20.75	19.89	18.57
	100% RB	693.0	21.46	20.70	20.12	18.34
		680.5	21.60	20.75	19.74	18.20
		668.0	21.72	20.53	20.08	18.54
15MHz	1 RB high	690.5	22.69	22.05	20.85	19.63
		680.5	22.77	21.95	20.91	19.49
		670.5	22.53	21.67	20.85	19.29
	1 RB low	690.5	22.68	22.18	20.78	19.62
		680.5	22.72	22.16	20.98	19.52
		670.5	22.81	22.00	20.82	19.26
	50% RB mid	690.5	21.64	20.81	19.73	18.17
		680.5	21.66	20.79	19.81	18.13
		670.5	21.76	20.65	20.01	18.41
	100% RB	690.5	21.78	20.78	19.90	18.62
		680.5	21.62	20.67	19.94	18.36
		670.5	21.54	20.53	20.12	18.52
20MHz	1 RB high	688.0	22.73	22.11	20.85	19.49
		680.5	22.69	21.99	20.79	19.35
		673.0	22.57	21.71	20.79	19.41
	1 RB low	688.0	22.72	22.22	20.78	19.50



		680.5	22.78	21.98	20.86	19.40
		673.0	22.63	22.10	20.76	19.34
	50% RB mid	688.0	21.62	20.69	19.69	18.21
		680.5	21.52	20.63	19.65	18.09
		673.0	21.60	20.55	19.87	18.51
	100% RB	688.0	21.64	20.62	19.96	18.48
		680.5	21.58	20.63	19.88	18.36
		673.0	21.66	20.63	20.08	18.52

A.1.3 Radiated

A.1.3.1 Description

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

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

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

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

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

FDD Band 12/71: Part 27.50(c) (10) specifies "Portable stations (hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

A.1.3.2 Method of Measurement

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

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

where;

- **ERP or EIRP** = effective radiated power or equivalent isotropically radiated power(expressed in the same units as P_T).
- **P_T** = transmitter output power, in this report the unit express as dBm;
- **G_T** = gain of the transmitting antenna, in dBd(ERP) or dBi(EIRP);
- **L_C** = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

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

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

A.1.3.3 Limits and Measurement Results

LTE Band 7- EIRP

Limits: ≤33 dBm (2W)

Max EIRP: 22.26dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm) (Gt-Lc =0.8)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.85	22.15	21.00	20.41	22.05	21.35	20.20	19.61
		2535.0	22.73	21.99	20.90	19.74	21.93	21.19	20.10	18.94
		2502.5	22.82	21.97	20.87	20.45	22.02	21.17	20.07	19.65
	1 RB low	2567.5	22.85	22.17	21.00	19.65	22.05	21.37	20.20	18.85
		2535.0	22.73	22.00	20.91	20.12	21.93	21.20	20.11	19.32
		2502.5	22.67	22.58	20.74	19.59	21.87	21.78	19.94	18.79
	50% RB mid	2567.5	21.85	20.85	19.86	18.98	21.05	20.05	19.06	18.18
		2535.0	21.71	20.72	19.73	18.64	20.91	19.92	18.93	17.84
		2502.5	21.75	20.63	19.67	18.73	20.95	19.83	18.87	17.93
	100% RB	2567.5	21.91	20.89	19.84	18.81	21.11	20.09	19.04	18.01
		2535.0	21.78	20.76	19.73	18.56	20.98	19.96	18.93	17.76
		2502.5	21.55	20.66	19.64	18.81	20.75	19.86	18.84	18.01
10MHz	1 RB high	2565.0	22.92	22.18	21.10	20.43	22.12	21.38	20.30	19.63
		2535.0	22.77	22.06	20.92	19.98	21.97	21.26	20.12	19.18
		2505.0	22.87	22.15	21.01	20.27	22.07	21.35	20.21	19.47
	1 RB low	2565.0	22.79	22.07	21.00	20.01	21.99	21.27	20.20	19.21
		2535.0	22.79	22.06	20.94	20.40	21.99	21.26	20.14	19.60
		2505.0	22.61	21.88	20.77	19.67	21.81	21.08	19.97	18.87
	50% RB mid	2565.0	21.84	20.84	19.79	18.98	21.04	20.04	18.99	18.18
		2535.0	21.75	20.73	19.70	18.82	20.95	19.93	18.90	18.02
		2505.0	21.72	20.70	19.68	18.97	20.92	19.90	18.88	18.17
	100% RB	2565.0	21.86	20.89	19.84	18.73	21.06	20.09	19.04	17.93
		2535.0	21.78	20.76	19.73	18.98	20.98	19.96	18.93	18.18
		2505.0	21.71	20.70	19.70	18.89	20.91	19.90	18.90	18.09
15MHz	1 RB high	2562.5	22.98	22.28	21.14	20.53	22.18	21.48	20.34	19.73
		2535.0	22.82	22.07	20.95	20.06	22.02	21.27	20.15	19.26
		2507.5	22.99	22.28	21.17	20.23	22.19	21.48	20.37	19.43
	1 RB low	2562.5	22.73	22.01	20.91	20.05	21.93	21.21	20.11	19.25
		2535.0	22.81	22.10	20.99	20.26	22.01	21.30	20.19	19.46
		2507.5	22.65	21.92	20.83	19.63	21.85	21.12	20.03	18.83
	50% RB mid	2562.5	21.86	20.87	19.87	18.84	21.06	20.07	19.07	18.04
		2535.0	21.79	20.79	19.79	18.96	20.99	19.99	18.99	18.16
		2507.5	21.81	20.81	19.80	18.89	21.01	20.01	19.00	18.09
	100% RB	2562.5	21.88	20.91	19.87	18.89	21.08	20.11	19.07	18.09
		2535.0	21.84	20.85	19.82	18.76	21.04	20.05	19.02	17.96
		2507.5	21.84	20.84	19.82	18.89	21.04	20.04	19.02	18.09
20MHz	1 RB high	2560.0	23.02	22.33	21.19	20.45	22.22	21.53	20.39	19.65

		2535.0	22.82	22.12	21.00	20.14	22.02	21.32	20.20	19.34
		2510.0	23.06	22.36	21.21	20.31	22.26	21.56	20.41	19.51
	1 RB low	2560.0	22.64	21.95	20.81	19.85	21.84	21.15	20.01	19.05
		2535.0	22.88	22.18	21.06	20.28	22.08	21.38	20.26	19.48
		2510.0	22.66	21.94	20.79	19.85	21.86	21.14	19.99	19.05
	50% RB mid	2560.0	21.90	20.90	19.88	18.82	21.10	20.10	19.08	18.02
		2535.0	21.88	20.86	19.84	18.96	21.08	20.06	19.04	18.16
		2510.0	21.92	20.91	19.87	18.77	21.12	20.11	19.07	17.97
	100% RB	2560.0	21.92	20.90	19.87	18.93	21.12	20.10	19.07	18.13
		2535.0	21.89	20.89	19.86	18.82	21.09	20.09	19.06	18.02
		2510.0	21.91	20.90	19.89	18.91	21.11	20.10	19.09	18.11

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

Max ERP: 18.63dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm) (Gt-Lc =-2.2)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	22.71	22.00	20.81	20.09	18.36	17.65	16.46	15.74
		707.5	22.79	22.06	20.95	19.98	18.44	17.71	16.60	15.63
		699.7	22.77	22.17	21.10	19.95	18.42	17.82	16.75	15.60
	1 RB low	715.3	22.70	21.99	20.82	19.84	18.35	17.64	16.47	15.49
		707.5	22.79	22.09	21.02	19.74	18.44	17.74	16.67	15.39
		699.7	22.81	22.08	21.00	20.14	18.46	17.73	16.65	15.79
	50% RB mid	715.3	22.65	21.64	20.80	19.37	18.30	17.29	16.45	15.02
		707.5	22.72	21.76	20.85	19.46	18.37	17.41	16.50	15.11
		699.7	22.73	21.78	20.89	19.80	18.38	17.43	16.54	15.45
	100% RB	715.3	21.67	20.72	19.64	18.83	17.32	16.37	15.29	14.48
		707.5	21.74	20.83	19.71	18.82	17.39	16.48	15.36	14.47
		699.7	21.83	20.88	19.78	18.52	17.48	16.53	15.43	14.17
3MHz	1 RB high	714.5	22.70	21.93	20.87	20.01	18.35	17.58	16.52	15.66
		707.5	22.78	22.00	20.88	19.84	18.43	17.65	16.53	15.49
		700.5	22.80	22.10	20.96	20.07	18.45	17.75	16.61	15.72
	1 RB low	714.5	22.71	21.93	20.83	19.80	18.36	17.58	16.48	15.45
		707.5	22.79	21.99	20.87	19.92	18.44	17.64	16.52	15.57
		700.5	22.77	22.09	20.93	19.92	18.42	17.74	16.58	15.57
	50% RB mid	714.5	21.69	20.71	19.70	18.61	17.34	16.36	15.35	14.26
		707.5	21.76	20.80	19.76	18.66	17.41	16.45	15.41	14.31
		700.5	21.81	20.89	19.88	18.80	17.46	16.54	15.53	14.45
	100% RB	714.5	21.69	20.70	19.64	18.71	17.34	16.35	15.29	14.36
		707.5	21.74	20.76	19.71	18.70	17.39	16.41	15.36	14.35
		700.5	21.82	20.85	19.79	18.72	17.47	16.50	15.44	14.37
5MHz	1 RB high	713.5	22.80	22.07	20.90	20.03	18.45	17.72	16.55	15.68
		707.5	22.85	22.10	20.90	20.08	18.50	17.75	16.55	15.73
		701.5	22.92	22.14	21.00	20.03	18.57	17.79	16.65	15.68
	1 RB low	713.5	22.78	22.05	20.90	19.98	18.43	17.70	16.55	15.63
		707.5	22.82	22.06	20.87	19.82	18.47	17.71	16.52	15.47
		701.5	22.85	22.08	20.96	20.10	18.50	17.73	16.61	15.75
	50% RB mid	713.5	21.72	20.75	19.77	18.63	17.37	16.40	15.42	14.28
		707.5	21.80	20.78	19.84	18.60	17.45	16.43	15.49	14.25
		701.5	21.84	20.85	19.86	18.90	17.49	16.50	15.51	14.55
	100% RB	713.5	21.75	20.74	19.70	18.63	17.40	16.39	15.35	14.28
		707.5	21.82	20.81	19.79	18.64	17.47	16.46	15.44	14.29
		701.5	21.86	20.85	19.82	18.88	17.51	16.50	15.47	14.53
10MHz	1 RB high	711.0	22.91	22.16	21.03	20.11	18.56	17.81	16.68	15.76
		707.5	22.95	22.19	21.04	20.06	18.60	17.84	16.69	15.71

		704.0	22.98	22.25	21.07	19.91	18.63	17.90	16.72	15.56
	1 RB low	711.0	22.87	22.13	20.98	19.96	18.52	17.78	16.63	15.61
		707.5	22.87	22.13	20.96	19.82	18.52	17.78	16.61	15.47
		704.0	22.88	22.15	21.04	19.94	18.53	17.80	16.69	15.59
	50% RB mid	711.0	21.76	20.72	19.73	18.75	17.41	16.37	15.38	14.40
		707.5	21.79	20.78	19.76	18.58	17.44	16.43	15.41	14.23
		704.0	21.84	20.80	19.82	18.64	17.49	16.45	15.47	14.29
	100% RB	711.0	21.78	20.76	19.75	18.59	17.43	16.41	15.40	14.24
		707.5	21.83	20.82	19.80	18.78	17.48	16.47	15.45	14.43
		704.0	21.83	20.80	19.78	18.82	17.48	16.45	15.43	14.47

LTE Band 25- EIRP
Limits: ≤33dBm (2W)

Max EIRP: 22.69dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm) (Gt-Lc =-1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.05	22.32	21.23	20.15	22.05	21.32	20.23	19.15
		1882.5	23.27	22.58	21.41	20.43	22.27	21.58	20.41	19.43
		1850.7	23.53	22.75	21.65	20.28	22.53	21.75	20.65	19.28
	1 RB low	1914.3	23.08	22.34	21.22	20.13	22.08	21.34	20.22	19.13
		1882.5	23.30	22.59	21.50	20.38	22.30	21.59	20.50	19.38
		1850.7	23.53	22.74	21.70	20.68	22.53	21.74	20.70	19.68
	50% RB mid	1914.3	23.06	22.12	21.20	20.12	22.06	21.12	20.20	19.12
		1882.5	23.23	22.26	21.37	20.02	22.23	21.26	20.37	19.02
		1850.7	23.49	22.53	21.62	20.42	22.49	21.53	20.62	19.42
	100% RB	1914.3	22.12	21.18	20.05	19.01	21.12	20.18	19.05	18.01
		1882.5	22.26	21.32	20.23	19.30	21.26	20.32	19.23	18.30
		1850.7	22.52	21.54	20.49	19.16	21.52	20.54	19.49	18.16
3MHz	1 RB high	1913.5	23.09	22.27	21.22	20.01	22.09	21.27	20.22	19.01
		1882.5	23.27	22.56	21.45	20.21	22.27	21.56	20.45	19.21
		1851.5	23.49	22.77	21.68	20.18	22.49	21.77	20.68	19.18
	1 RB low	1913.5	23.17	22.34	21.28	20.23	22.17	21.34	20.28	19.23
		1882.5	23.28	22.57	21.47	20.26	22.28	21.57	20.47	19.26
		1851.5	23.50	22.80	21.66	20.50	22.50	21.80	20.66	19.50
	50% RB mid	1913.5	22.12	21.18	20.14	19.26	21.12	20.18	19.14	18.26
		1882.5	22.24	21.31	20.32	19.04	21.24	20.31	19.32	18.04
		1851.5	22.54	21.61	20.59	19.42	21.54	20.61	19.59	18.42
	100% RB	1913.5	22.11	21.13	20.09	19.05	21.11	20.13	19.09	18.05
		1882.5	22.28	21.27	20.22	19.26	21.28	20.27	19.22	18.26
		1851.5	22.56	21.57	20.56	19.26	21.56	20.57	19.56	18.26
5MHz	1 RB high	1912.5	23.12	22.34	21.25	20.23	22.12	21.34	20.25	19.23
		1882.5	23.35	22.58	21.49	20.05	22.35	21.58	20.49	19.05
		1852.5	23.51	22.73	21.73	20.28	22.51	21.73	20.73	19.28
	1 RB low	1912.5	23.24	22.49	21.41	20.15	22.24	21.49	20.41	19.15
		1882.5	23.35	22.62	21.53	20.48	22.35	21.62	20.53	19.48
		1852.5	23.56	22.80	21.75	20.42	22.56	21.80	20.75	19.42
	50% RB mid	1912.5	22.20	21.22	20.25	19.12	21.20	20.22	19.25	18.12
		1882.5	22.34	21.33	20.34	19.40	21.34	20.33	19.34	18.40
		1852.5	22.61	21.59	20.62	19.04	21.61	20.59	19.62	18.04
	100% RB	1912.5	22.23	21.21	20.22	19.21	21.23	20.21	19.22	18.21
		1882.5	22.35	21.33	20.30	19.42	21.35	20.33	19.30	18.42
		1852.5	22.63	21.61	20.55	19.06	21.63	20.61	19.55	18.06
10MHz	1 RB high	1910.0	23.19	22.35	21.28	20.05	22.19	21.35	20.28	19.05
		1882.5	23.34	22.57	21.51	20.31	22.34	21.57	20.51	19.31

	1 RB low	1855.0	23.54	22.73	21.65	20.18	22.54	21.73	20.65	19.18
		1910.0	23.42	22.63	21.53	20.45	22.42	21.63	20.53	19.45
		1882.5	23.43	22.66	21.58	20.38	22.43	21.66	20.58	19.38
	50% RB mid	1855.0	23.60	22.85	21.75	20.50	22.60	21.85	20.75	19.50
		1910.0	22.30	21.32	20.29	19.20	21.30	20.32	19.29	18.20
		1882.5	22.34	21.34	20.30	19.28	21.34	20.34	19.30	18.28
	100% RB	1855.0	22.63	21.62	20.58	19.44	21.63	20.62	19.58	18.44
		1910.0	22.32	21.29	20.29	18.97	21.32	20.29	19.29	17.97
		1882.5	22.36	21.33	20.30	19.14	21.36	20.33	19.30	18.14
	15MHz	1 RB high	1855.0	22.60	21.60	20.56	19.20	21.60	20.60	19.56
1907.5			23.22	22.49	21.29	20.09	22.22	21.49	20.29	19.09
1882.5			23.29	22.59	21.38	20.03	22.29	21.59	20.38	19.03
1 RB low		1857.5	23.52	22.73	21.75	20.32	22.52	21.73	20.75	19.32
		1907.5	23.38	22.68	21.46	20.17	22.38	21.68	20.46	19.17
		1882.5	23.40	22.72	21.53	20.46	22.40	21.72	20.53	19.46
50% RB mid		1857.5	23.63	22.86	21.85	20.66	22.63	21.86	20.85	19.66
		1907.5	22.34	21.37	20.36	19.32	21.34	20.37	19.36	18.32
		1882.5	22.35	21.33	20.34	19.22	21.35	20.33	19.34	18.22
100% RB		1857.5	22.59	21.60	20.62	19.26	21.59	20.60	19.62	18.26
	1907.5	22.35	21.34	20.32	19.13	21.35	20.34	19.32	18.13	
	1882.5	22.34	21.34	20.32	19.00	21.34	20.34	19.32	18.00	
20MHz	1 RB high	1857.5	22.63	21.62	20.60	19.38	21.63	20.62	19.60	18.38
		1905.0	23.20	22.47	21.33	20.05	22.20	21.47	20.33	19.05
		1882.5	23.33	22.52	21.47	20.31	22.33	21.52	20.47	19.31
	1 RB low	1860.0	23.48	22.63	21.62	20.32	22.48	21.63	20.62	19.32
		1905.0	23.39	22.65	21.57	20.37	22.39	21.65	20.57	19.37
		1882.5	23.43	22.69	21.64	20.22	22.43	21.69	20.64	19.22
	50% RB mid	1860.0	23.69	22.96	21.84	20.50	22.69	21.96	20.84	19.50
		1905.0	22.40	21.40	20.38	19.16	21.40	20.40	19.38	18.16
		1882.5	22.40	21.38	20.36	19.36	21.40	20.38	19.36	18.36
	100% RB	1860.0	22.67	21.66	20.62	19.42	21.67	20.66	19.62	18.42
1905.0		22.39	21.38	20.37	19.17	21.39	20.38	19.37	18.17	
1882.5		22.34	21.31	20.32	19.32	21.34	20.31	19.32	18.32	
		1860.0	22.61	21.61	20.60	19.30	21.61	20.61	19.60	18.30

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

Max ERP: 19.15dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm) (Gt-Lc =-1.6)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	22.72	21.76	20.69	17.76	18.97	18.01	16.94	14.01
		836.5	22.66	21.75	20.71	17.78	18.91	18.00	16.96	14.03
		824.7	22.76	21.79	21.22	17.90	19.01	18.04	17.47	14.15
	1 RB low	848.3	22.70	21.71	20.57	17.77	18.95	17.96	16.82	14.02
		836.5	22.66	21.76	20.60	17.79	18.91	18.01	16.85	14.04
		824.7	22.76	21.80	21.08	17.99	19.01	18.05	17.33	14.24
	50% RB mid	848.3	22.81	21.89	20.83	17.77	19.06	18.14	17.08	14.02
		836.5	22.67	21.76	20.88	17.81	18.92	18.01	17.13	14.06
		824.7	22.82	21.95	21.11	17.83	19.07	18.20	17.36	14.08
	100% RB	848.3	21.75	20.94	19.82	17.76	18.00	17.19	16.07	14.01
		836.5	21.64	20.94	19.84	17.77	17.89	17.19	16.09	14.02
		824.7	21.76	21.02	19.88	17.80	18.01	17.27	16.13	14.05
3MHz	1 RB high	847.5	22.67	21.72	20.60	17.73	18.92	17.97	16.85	13.98
		836.5	22.59	21.61	20.64	17.78	18.84	17.86	16.89	14.03
		825.5	22.75	21.78	20.64	17.77	19.00	18.03	16.89	14.02
	1 RB low	847.5	22.65	21.69	20.49	17.72	18.90	17.94	16.74	13.97
		836.5	22.62	21.66	20.53	17.71	18.87	17.91	16.78	13.96
		825.5	22.78	21.81	20.55	17.86	19.03	18.06	16.80	14.11
	50% RB mid	847.5	21.68	20.76	19.78	17.78	17.93	17.01	16.03	14.03
		836.5	21.60	20.83	19.81	17.82	17.85	17.08	16.06	14.07
		825.5	21.71	20.78	19.70	17.75	17.96	17.03	15.95	14.00
	100% RB	847.5	21.70	20.70	19.79	17.73	17.95	16.95	16.04	13.98
		836.5	21.62	20.72	19.79	17.78	17.87	16.97	16.04	14.03
		825.5	21.72	20.72	19.82	17.77	17.97	16.97	16.07	14.02
5MHz	1 RB high	846.5	22.83	21.87	20.97	17.86	19.08	18.12	17.22	14.11
		836.5	22.78	21.81	21.02	17.89	19.03	18.06	17.27	14.14
		826.5	22.83	21.89	21.06	17.95	19.08	18.14	17.31	14.20
	1 RB low	846.5	22.73	21.78	21.03	17.90	18.98	18.03	17.28	14.15
		836.5	22.78	21.82	21.08	17.84	19.03	18.07	17.33	14.09
		826.5	22.90	21.94	21.14	18.01	19.15	18.19	17.39	14.26
	50% RB mid	846.5	21.72	20.85	19.94	17.88	17.97	17.10	16.19	14.13
		836.5	21.67	20.89	19.98	17.89	17.92	17.14	16.23	14.14
		826.5	21.76	20.84	19.89	17.90	18.01	17.09	16.14	14.15
	100% RB	846.5	21.81	20.78	19.86	17.86	18.06	17.03	16.11	14.11
		836.5	21.73	20.77	19.88	17.85	17.98	17.02	16.13	14.10
		826.5	21.83	20.80	19.91	17.90	18.08	17.05	16.16	14.15
10MHz	1 RB high	844.0	22.89	21.90	20.76	17.93	19.14	18.15	17.01	14.18
		836.5	22.79	21.79	20.78	17.96	19.04	18.04	17.03	14.21

	1 RB low	829.0	22.80	21.80	20.74	17.92	19.05	18.05	16.99	14.17
		844.0	22.77	21.78	20.64	17.95	19.02	18.03	16.89	14.20
		836.5	22.80	21.83	20.69	17.91	19.05	18.08	16.94	14.16
	50% RB mid	829.0	22.88	21.89	20.65	17.92	19.13	18.14	16.90	14.17
		844.0	21.80	20.91	19.92	17.89	18.05	17.16	16.17	14.14
		836.5	21.73	20.91	19.91	17.89	17.98	17.16	16.16	14.14
	100% RB	829.0	21.82	20.89	19.93	17.90	18.07	17.14	16.18	14.15
		844.0	21.78	20.87	19.86	17.83	18.03	17.12	16.11	14.08
		836.5	21.75	20.85	19.83	17.82	18.00	17.10	16.08	14.07
	15MHz	1 RB high	829.0	21.84	20.87	19.85	17.85	18.09	17.12	16.10
841.5			22.88	22.28	21.24	18.11	19.13	18.53	17.49	14.36
836.5			22.79	22.20	21.25	18.13	19.04	18.45	17.50	14.38
1 RB low		831.5	22.77	22.16	21.23	18.08	19.02	18.41	17.48	14.33
		841.5	22.79	22.18	21.16	18.09	19.04	18.43	17.41	14.34
		836.5	22.83	22.23	21.21	18.16	19.08	18.48	17.46	14.41
50% RB mid		831.5	22.87	22.27	21.20	18.10	19.12	18.52	17.45	14.35
		841.5	21.80	20.91	19.88	17.92	18.05	17.16	16.13	14.17
		836.5	21.78	20.84	19.87	17.89	18.03	17.09	16.12	14.14
100% RB		831.5	21.79	20.84	19.88	17.87	18.04	17.09	16.13	14.12
		841.5	21.80	20.89	19.92	17.89	18.05	17.14	16.17	14.14
		836.5	21.79	20.87	19.89	17.90	18.04	17.12	16.14	14.15
		831.5	21.83	20.90	19.87	17.88	18.08	17.15	16.12	14.13

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

Max EIRP: 24.76dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-1.2)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.23	24.38	23.29	22.56	24.03	23.18	22.09	21.36
		2593.0	25.62	24.79	23.70	22.73	24.42	23.59	22.50	21.53
		2498.5	25.64	24.65	23.67	22.85	24.44	23.45	22.47	21.65
	1 RB low	2687.5	25.25	24.41	23.34	22.37	24.05	23.21	22.14	21.17
		2593.0	25.67	24.82	23.74	22.75	24.47	23.62	22.54	21.55
		2498.5	25.51	24.64	23.54	22.67	24.31	23.44	22.34	21.47
	50% RB mid	2687.5	24.25	23.31	22.30	21.32	23.05	22.11	21.10	20.12
		2593.0	24.67	23.73	22.73	21.73	23.47	22.53	21.53	20.53
		2498.5	24.59	23.64	22.63	21.88	23.39	22.44	21.43	20.68
	100% RB	2687.5	24.29	23.31	22.31	21.25	23.09	22.11	21.11	20.05
		2593.0	24.70	23.75	22.74	21.62	23.50	22.55	21.54	20.42
		2498.5	24.62	23.65	22.65	21.95	23.42	22.45	21.45	20.75
10MHz	1 RB high	2685.0	25.25	24.42	23.29	22.66	24.05	23.22	22.09	21.46
		2593.0	25.62	24.81	23.67	22.65	24.42	23.61	22.47	21.45
		2501.0	25.76	24.97	23.81	22.69	24.56	23.77	22.61	21.49
	1 RB low	2685.0	25.29	24.47	23.35	22.41	24.09	23.27	22.15	21.21
		2593.0	25.71	24.90	23.76	22.93	24.51	23.70	22.56	21.73
		2501.0	25.51	24.70	23.56	22.57	24.31	23.50	22.36	21.37
	50% RB mid	2685.0	24.26	23.30	22.31	21.48	23.06	22.10	21.11	20.28
		2593.0	24.66	23.69	22.70	21.81	23.46	22.49	21.50	20.61
		2501.0	24.62	23.65	22.67	21.80	23.42	22.45	21.47	20.60
	100% RB	2685.0	24.28	23.32	22.28	21.41	23.08	22.12	21.08	20.21
		2593.0	24.72	23.75	22.71	21.74	23.52	22.55	21.51	20.54
		2501.0	24.63	23.67	22.64	21.81	23.43	22.47	21.44	20.61
15MHz	1 RB high	2682.5	25.25	24.43	23.31	22.42	24.05	23.23	22.11	21.22
		2593.0	25.63	24.81	23.69	22.97	24.43	23.61	22.49	21.77
		2503.5	25.90	25.08	23.96	22.93	24.70	23.88	22.76	21.73
	1 RB low	2682.5	25.34	24.53	23.41	22.35	24.14	23.33	22.21	21.15
		2593.0	25.77	24.94	23.83	22.73	24.57	23.74	22.63	21.53
		2503.5	25.57	24.75	23.62	22.83	24.37	23.55	22.42	21.63
	50% RB mid	2682.5	24.28	23.27	22.26	21.34	23.08	22.07	21.06	20.14
		2593.0	24.68	23.67	22.68	21.81	23.48	22.47	21.48	20.61
		2503.5	24.74	23.74	22.73	21.82	23.54	22.54	21.53	20.62
	100% RB	2682.5	24.33	23.36	22.34	21.29	23.13	22.16	21.14	20.09
		2593.0	24.72	23.75	22.72	21.80	23.52	22.55	21.52	20.60
		2503.5	24.78	23.81	22.78	22.05	23.58	22.61	21.58	20.85
20MHz	1 RB high	2680.0	25.28	24.46	23.35	22.50	24.08	23.26	22.15	21.30
		2593.0	25.62	24.81	23.68	22.81	24.42	23.61	22.48	21.61

		2506.0	25.96	25.16	24.02	22.85	24.76	23.96	22.82	21.65
1 RB low		2680.0	25.32	24.50	23.38	22.27	24.12	23.30	22.18	21.07
		2593.0	25.81	24.99	23.88	22.73	24.61	23.79	22.68	21.53
		2506.0	25.59	24.77	23.64	22.75	24.39	23.57	22.44	21.55
50% RB mid		2680.0	24.34	23.37	22.35	21.36	23.14	22.17	21.15	20.16
		2593.0	24.77	23.79	22.78	21.67	23.57	22.59	21.58	20.47
		2506.0	24.85	23.87	22.85	21.92	23.65	22.67	21.65	20.72
100% RB		2680.0	24.35	23.36	22.34	21.35	23.15	22.16	21.14	20.15
		2593.0	24.77	23.79	22.77	21.62	23.57	22.59	21.57	20.42
		2506.0	24.85	23.86	22.86	21.99	23.65	22.66	21.66	20.79

LTE Band 66- EIRP
Limits: ≤30dBm (1W)

Max EIRP: 22.20dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm) (Gt-Lc =-1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.05	22.30	21.23	19.92	22.05	21.30	20.23	18.92
		1745.0	22.78	22.09	20.96	19.91	21.78	21.09	19.96	18.91
		1710.7	23.04	22.26	21.17	19.86	22.04	21.26	20.17	18.86
	1 RB low	1779.3	23.04	22.29	21.24	20.01	22.04	21.29	20.24	19.01
		1745.0	22.80	22.17	21.01	20.15	21.80	21.17	20.01	19.15
		1710.7	23.06	22.25	21.23	20.11	22.06	21.25	20.23	19.11
	50% RB mid	1779.3	23.00	22.09	21.18	19.72	22.00	21.09	20.18	18.72
		1745.0	22.74	21.80	20.89	19.59	21.74	20.80	19.89	18.59
		1710.7	23.02	22.05	21.14	19.60	22.02	21.05	20.14	18.60
	100% RB	1779.3	22.06	21.12	20.05	18.72	21.06	20.12	19.05	17.72
		1745.0	21.78	20.85	19.75	18.62	20.78	19.85	18.75	17.62
		1710.7	22.07	21.13	20.04	18.94	21.07	20.13	19.04	17.94
3MHz	1 RB high	1778.5	23.01	22.23	21.20	19.48	22.01	21.23	20.20	18.48
		1745.0	22.77	22.02	20.98	19.73	21.77	21.02	19.98	18.73
		1711.5	22.97	22.26	21.11	19.86	21.97	21.26	20.11	18.86
	1 RB low	1778.5	23.08	22.22	21.22	19.83	22.08	21.22	20.22	18.83
		1745.0	22.77	22.01	20.97	19.91	21.77	21.01	19.97	18.91
		1711.5	23.00	22.32	21.16	20.39	22.00	21.32	20.16	19.39
	50% RB mid	1778.5	22.04	21.12	20.10	18.62	21.04	20.12	19.10	17.62
		1745.0	21.81	20.89	19.88	18.65	20.81	19.89	18.88	17.65
		1711.5	22.08	21.15	20.12	18.50	21.08	20.15	19.12	17.50
	100% RB	1778.5	22.06	21.07	20.01	18.88	21.06	20.07	19.01	17.88
		1745.0	21.83	20.86	19.82	18.64	20.83	19.86	18.82	17.64
		1711.5	22.08	21.11	20.05	18.48	21.08	20.11	19.05	17.48
5MHz	1 RB high	1777.5	23.07	22.32	21.21	19.90	22.07	21.32	20.21	18.90
		1745.0	22.81	22.12	21.04	19.67	21.81	21.12	20.04	18.67
		1712.5	23.01	22.31	21.22	19.82	22.01	21.31	20.22	18.82
	1 RB low	1777.5	23.05	22.32	21.23	19.79	22.05	21.32	20.23	18.79
		1745.0	22.90	22.06	21.06	20.01	21.90	21.06	20.06	19.01
		1712.5	23.07	22.34	21.28	20.25	22.07	21.34	20.28	19.25
	50% RB mid	1777.5	22.08	21.09	20.11	18.80	21.08	20.09	19.11	17.80
		1745.0	21.91	20.87	19.93	18.77	20.91	19.87	18.93	17.77
		1712.5	22.08	21.12	20.11	18.90	21.08	20.12	19.11	17.90
	100% RB	1777.5	22.12	21.10	20.10	19.02	21.12	20.10	19.10	18.02
		1745.0	21.91	20.89	19.89	18.60	20.91	19.89	18.89	17.60
		1712.5	22.11	21.10	20.09	18.86	21.11	20.10	19.09	17.86
10MHz	1 RB high	1775.0	23.13	22.30	21.27	19.94	22.13	21.30	20.27	18.94
		1745.0	22.90	22.14	21.03	19.89	21.90	21.14	20.03	18.89

	1 RB low	1715.0	23.07	22.34	21.24	19.80	22.07	21.34	20.24	18.80
		1775.0	23.08	22.27	21.21	19.99	22.08	21.27	20.21	18.99
		1745.0	22.91	22.19	21.05	20.15	21.91	21.19	20.05	19.15
	50% RB mid	1715.0	23.10	22.36	21.30	20.29	22.10	21.36	20.30	19.29
		1775.0	22.10	21.11	20.10	18.82	21.10	20.11	19.10	17.82
		1745.0	21.90	20.92	19.89	18.57	20.90	19.92	18.89	17.57
	100% RB	1715.0	22.09	21.06	20.04	18.66	21.09	20.06	19.04	17.66
		1775.0	22.09	21.10	20.10	19.06	21.09	20.10	19.10	18.06
		1745.0	21.90	20.91	19.88	18.56	20.90	19.91	18.88	17.56
15MHz	1 RB high	1772.5	23.04	22.35	21.23	19.92	22.04	21.35	20.23	18.92
		1745.0	22.91	22.11	21.01	19.79	21.91	21.11	20.01	18.79
		1717.5	22.97	22.28	21.14	19.78	21.97	21.28	20.14	18.78
	1 RB low	1772.5	23.07	22.38	21.22	19.79	22.07	21.38	20.22	18.79
		1745.0	22.94	22.24	21.12	20.03	21.94	21.24	20.12	19.03
		1717.5	23.12	22.37	21.33	20.25	22.12	21.37	20.33	19.25
	50% RB mid	1772.5	22.08	21.07	20.09	18.64	21.08	20.07	19.09	17.64
		1745.0	21.89	20.90	19.92	18.79	20.89	19.90	18.92	17.79
		1717.5	22.07	21.07	20.09	18.94	21.07	20.07	19.09	17.94
	100% RB	1772.5	22.11	21.12	20.11	18.96	21.11	20.12	19.11	17.96
		1745.0	21.91	20.93	19.92	18.64	20.91	19.93	18.92	17.64
		1717.5	22.10	21.11	20.09	18.76	21.10	20.11	19.09	17.76
20MHz	1 RB high	1770.0	23.06	22.40	21.19	19.76	22.06	21.40	20.19	18.76
		1745.0	22.85	22.12	21.08	19.77	21.85	21.12	20.08	18.77
		1720.0	22.96	22.31	21.11	19.68	21.96	21.31	20.11	18.68
	1 RB low	1770.0	23.04	22.31	21.20	19.85	22.04	21.31	20.20	18.85
		1745.0	23.18	22.30	21.18	19.97	22.18	21.30	20.18	18.97
		1720.0	23.20	22.51	21.28	20.09	22.20	21.51	20.28	19.09
	50% RB mid	1770.0	22.10	21.11	20.09	18.66	21.10	20.11	19.09	17.66
		1745.0	21.96	20.95	19.94	18.67	20.96	19.95	18.94	17.67
		1720.0	22.11	21.11	20.07	18.78	21.11	20.11	19.07	17.78
	100% RB	1770.0	22.08	21.07	20.07	18.86	21.08	20.07	19.07	17.86
		1745.0	21.94	20.92	19.93	18.62	20.94	19.92	18.93	17.62
		1720.0	22.09	21.05	20.05	18.84	21.09	20.05	19.05	17.84

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

Max ERP: 18.27dBm

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm) (Gt-Lc =-2.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	22.81	21.95	20.91	19.45	18.16	17.30	16.26	14.80
		680.5	22.59	21.85	20.71	19.43	17.94	17.20	16.06	14.78
		665.5	22.65	21.59	20.59	19.39	18.00	16.94	15.94	14.74
	1 RB low	695.5	22.62	22.08	20.84	19.46	17.97	17.43	16.19	14.81
		680.5	22.72	22.06	20.88	19.54	18.07	17.41	16.23	14.89
		665.5	22.55	21.98	20.70	19.32	17.90	17.33	16.05	14.67
	50% RB mid	695.5	21.56	20.49	19.53	18.15	16.91	15.84	14.88	13.50
		680.5	21.44	20.53	19.45	18.07	16.79	15.88	14.80	13.42
		665.5	21.48	20.39	19.75	18.41	16.83	15.74	15.10	13.76
	100% RB	695.5	21.60	20.58	19.94	18.54	16.95	15.93	15.29	13.89
		680.5	21.66	20.47	19.90	18.50	17.01	15.82	15.25	13.85
		665.5	21.76	20.53	19.88	18.62	17.11	15.88	15.23	13.97
10MHz	1 RB high	693.0	22.75	22.29	20.83	19.37	18.10	17.64	16.18	14.72
		680.5	22.73	22.21	20.63	19.43	18.08	17.56	15.98	14.78
		668.0	22.67	21.91	20.75	19.27	18.02	17.26	16.10	14.62
	1 RB low	693.0	22.92	22.24	20.90	19.72	18.27	17.59	16.25	15.07
		680.5	22.80	21.86	20.72	19.32	18.15	17.21	16.07	14.67
		668.0	22.65	22.16	20.74	19.36	18.00	17.51	16.09	14.71
	50% RB mid	693.0	21.78	20.57	19.59	18.21	17.13	15.92	14.94	13.56
		680.5	21.70	20.47	19.75	18.05	17.05	15.82	15.10	13.40
		668.0	21.44	20.75	19.89	18.57	16.79	16.10	15.24	13.92
	100% RB	693.0	21.46	20.70	20.12	18.34	16.81	16.05	15.47	13.69
		680.5	21.60	20.75	19.74	18.20	16.95	16.10	15.09	13.55
		668.0	21.72	20.53	20.08	18.54	17.07	15.88	15.43	13.89
15MHz	1 RB high	690.5	22.69	22.05	20.85	19.63	18.04	17.40	16.20	14.98
		680.5	22.77	21.95	20.91	19.49	18.12	17.30	16.26	14.84
		670.5	22.53	21.67	20.85	19.29	17.88	17.02	16.20	14.64
	1 RB low	690.5	22.68	22.18	20.78	19.62	18.03	17.53	16.13	14.97
		680.5	22.72	22.16	20.98	19.52	18.07	17.51	16.33	14.87
		670.5	22.81	22.00	20.82	19.26	18.16	17.35	16.17	14.61
	50% RB mid	690.5	21.64	20.81	19.73	18.17	16.99	16.16	15.08	13.52
		680.5	21.66	20.79	19.81	18.13	17.01	16.14	15.16	13.48
		670.5	21.76	20.65	20.01	18.41	17.11	16.00	15.36	13.76
	100% RB	690.5	21.78	20.78	19.90	18.62	17.13	16.13	15.25	13.97
		680.5	21.62	20.67	19.94	18.36	16.97	16.02	15.29	13.71
		670.5	21.54	20.53	20.12	18.52	16.89	15.88	15.47	13.87
20MHz	1 RB high	688.0	22.73	22.11	20.85	19.49	18.08	17.46	16.20	14.84
		680.5	22.69	21.99	20.79	19.35	18.04	17.34	16.14	14.70

		673.0	22.57	21.71	20.79	19.41	17.92	17.06	16.14	14.76
1 RB low		688.0	22.72	22.22	20.78	19.50	18.07	17.57	16.13	14.85
		680.5	22.78	21.98	20.86	19.40	18.13	17.33	16.21	14.75
		673.0	22.63	22.10	20.76	19.34	17.98	17.45	16.11	14.69
50% RB mid		688.0	21.62	20.69	19.69	18.21	16.97	16.04	15.04	13.56
		680.5	21.52	20.63	19.65	18.09	16.87	15.98	15.00	13.44
		673.0	21.60	20.55	19.87	18.51	16.95	15.90	15.22	13.86
100% RB		688.0	21.64	20.62	19.96	18.48	16.99	15.97	15.31	13.83
		680.5	21.58	20.63	19.88	18.36	16.93	15.98	15.23	13.71
		673.0	21.66	20.63	20.08	18.52	17.01	15.98	15.43	13.87

A.2 Emission Limit

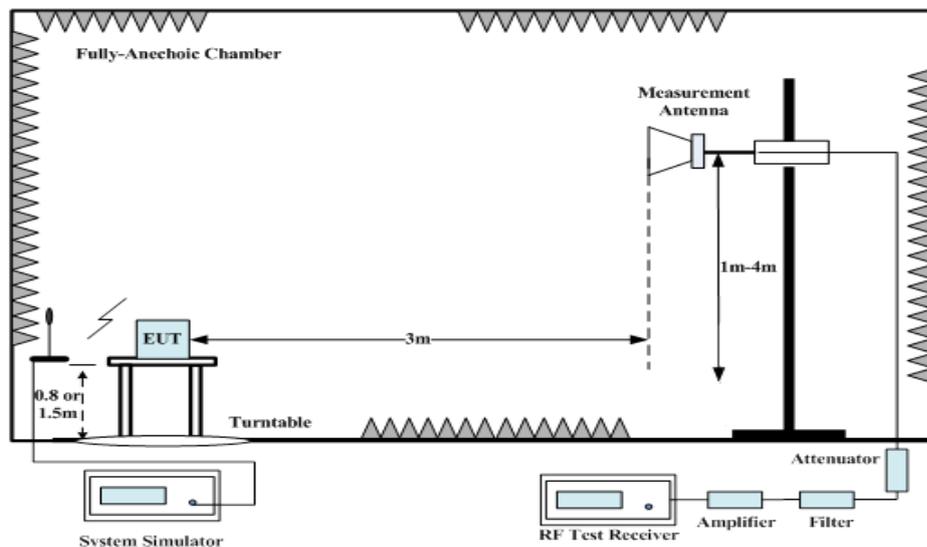
A.2.1 Measurement Method

The measurement procedures in ANSI C63.26 are used.

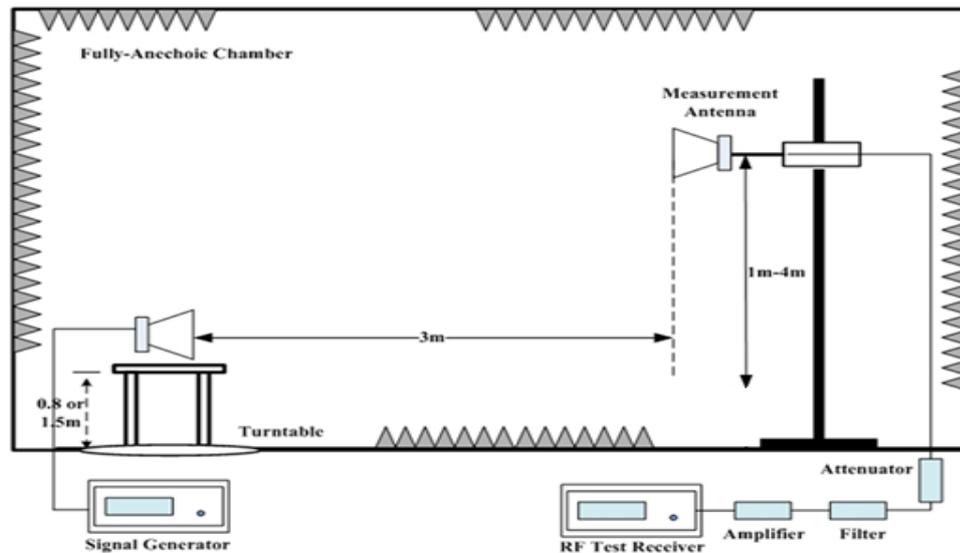
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



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



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power (P_{Mea}) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

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

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

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

A.2.2 Measurement Limit

FDD Band 25: Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

FDD Band 26(824MHz~849MHz): Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 7/41: Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X

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

FDD Band 12/71: Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FDD Band 26(814MHz~824MHz): Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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.

Note 1: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

A.2.4 Measurement Results Table

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

A.2.5 Sweep Table

Subrange	RBW	VBW
9~150 kHz	0.2kHz	0.6kHz
150kHz~30MHz	9kHz	27kHz
30MHz~1 GHz	100KHz	300KHz
1~26 GHz	1 MHz	3 MHz

A.2.6 Results

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.00	-45.93	5.15	11.33	-39.75	-25.00	14.75	H
7521.50	-52.48	7.71	10.24	-49.95	-25.00	24.95	V
10013.50	-50.15	9.35	11.79	-47.71	-25.00	22.71	H
12508.00	-45.60	12.36	13.58	-44.38	-25.00	19.38	V
15003.50	-44.87	14.75	14.61	-45.01	-25.00	20.01	H
17513.50	-33.05	19.71	13.11	-39.65	-25.00	14.65	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5069.50	-48.40	5.30	11.60	-42.10	-25.00	17.10	H
7607.50	-53.15	7.58	10.32	-50.41	-25.00	25.41	H
10137.00	-50.03	8.96	11.77	-47.22	-25.00	22.22	V
12674.00	-45.48	11.69	13.15	-44.02	-25.00	19.02	H
15223.00	-43.59	15.68	15.05	-44.22	-25.00	19.22	H
17753.50	-34.42	19.56	13.45	-40.53	-25.00	15.53	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5135.00	-47.16	5.55	11.60	-41.11	-25.00	16.11	V
7700.50	-53.67	6.71	10.60	-49.78	-25.00	24.78	H
10267.50	-49.22	10.78	11.90	-48.10	-25.00	23.10	V
12837.50	-44.15	13.05	12.92	-44.28	-25.00	19.28	V
15406.50	-46.11	14.90	15.41	-45.60	-25.00	20.60	H
17970.00	-33.84	20.00	13.46	-40.38	-25.00	15.38	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2097.50	-56.62	3.52	7.80	2.15	-54.49	-13.00	41.49	V
2811.00	-51.50	5.20	10.42	2.15	-48.43	-13.00	35.43	V
4205.50	-60.57	4.66	10.12	2.15	-57.26	-13.00	44.26	V
4899.00	-61.06	4.87	11.00	2.15	-57.08	-13.00	44.08	V
6287.50	-59.00	6.09	10.80	2.15	-56.44	-13.00	43.44	V
7008.00	-54.29	7.68	10.42	2.15	-53.70	-13.00	40.70	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2115.50	-55.31	3.66	8.05	2.15	-53.07	-13.00	40.07	V
2836.50	-51.98	5.04	10.47	2.15	-48.70	-13.00	35.70	V
4943.50	-60.70	4.90	11.17	2.15	-56.58	-13.00	43.58	V
5647.00	-60.38	5.60	11.39	2.15	-56.74	-13.00	43.74	V
6378.50	-57.99	5.78	10.96	2.15	-54.96	-13.00	41.96	H
7072.50	-55.33	6.88	10.41	2.15	-53.95	-13.00	40.95	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2146.00	-55.21	3.71	8.54	2.15	-52.53	-13.00	39.53	V
2857.50	-51.66	5.55	10.54	2.15	-48.82	-13.00	35.82	H
5019.00	-61.39	5.10	11.41	2.15	-57.23	-13.00	44.23	H
5720.00	-59.86	5.91	11.36	2.15	-56.56	-13.00	43.56	V
6449.50	-57.63	6.77	10.80	2.15	-55.75	-13.00	42.75	H
7159.50	-54.35	6.72	10.14	2.15	-53.08	-13.00	40.08	V

LTE Band 41, 5MHz, QPSK, Channel 39657

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5004.50	-61.84	5.15	11.33	-55.66	-25.00	30.66	V
7509.00	-53.03	7.70	10.22	-50.51	-25.00	25.51	V
9983.50	-50.02	9.37	11.77	-47.62	-25.00	22.62	V
12498.00	-45.26	12.35	13.60	-44.01	-25.00	19.01	H
15000.00	-43.64	14.76	14.60	-43.80	-25.00	18.80	V
17475.50	-33.57	19.76	13.08	-40.25	-25.00	15.25	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5172.00	-60.97	5.80	11.64	-55.13	-25.00	30.13	H
7779.50	-51.97	7.37	10.76	-48.58	-25.00	23.58	H
10359.00	-49.33	10.77	11.96	-48.14	-25.00	23.14	V
12976.00	-45.15	12.56	12.72	-44.99	-25.00	19.99	H
15556.00	-44.84	16.73	15.60	-45.97	-25.00	20.97	H
17978.00	-32.88	19.98	13.44	-39.42	-25.00	14.42	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5388.50	-62.01	5.44	11.62	-55.83	-25.00	30.83	V
8065.00	-53.02	7.87	11.13	-49.76	-25.00	24.76	H
10747.00	-48.52	9.84	12.15	-46.21	-25.00	21.21	H
13452.00	-43.90	12.59	12.35	-44.14	-25.00	19.14	V
16111.00	-42.79	17.09	15.10	-44.78	-25.00	19.78	V
17983.50	-33.62	19.97	13.43	-40.16	-25.00	15.16	H

LTE Band71_5MHz_CH133147_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1990.50	-57.57	3.41	7.80	2.15	-55.33	-13.00	42.33	V
2658.00	-52.73	4.76	10.20	2.15	-49.44	-13.00	36.44	V
4645.00	-61.22	5.07	10.91	2.15	-57.53	-13.00	44.53	H
5335.50	-60.60	6.21	11.73	2.15	-57.23	-13.00	44.23	H
5981.50	-59.66	5.62	10.70	2.15	-56.73	-13.00	43.73	V
6648.00	-56.66	6.15	10.40	2.15	-54.56	-13.00	41.56	H

LTE Band71_5MHz_CH133297_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2028.50	-57.14	3.45	7.70	2.15	-55.04	-13.00	42.04	V
2713.50	-51.58	4.88	10.23	2.15	-48.38	-13.00	35.38	H
4777.00	-61.36	4.81	10.95	2.15	-57.37	-13.00	44.37	V
5439.00	-61.59	5.32	11.37	2.15	-57.69	-13.00	44.69	V
6134.50	-58.23	6.13	10.67	2.15	-55.84	-13.00	42.84	H
6805.00	-55.64	6.38	10.39	2.15	-53.78	-13.00	40.78	V

LTE Band 71_5MHz_CH133447_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2099.00	-56.73	3.52	7.80	2.15	-54.60	-13.00	41.60	H
2788.50	-51.34	4.90	10.38	2.15	-48.01	-13.00	35.01	V
4860.50	-61.65	5.22	10.92	2.15	-58.10	-13.00	45.10	H
5551.50	-60.88	5.32	11.20	2.15	-57.15	-13.00	44.15	V
6252.00	-58.71	6.15	10.80	2.15	-56.21	-13.00	43.21	H
6943.00	-55.96	6.47	10.39	2.15	-54.19	-13.00	41.19	H

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

Reference Measurement Results from basic model:
LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.50	-42.92	5.15	11.33	-36.74	-25.00	11.74	V
7517.50	-50.21	7.71	10.24	-47.68	-25.00	22.68	V
10024.00	-46.09	9.34	11.78	-43.65	-25.00	18.65	H
12509.50	-40.29	12.37	13.57	-39.09	-25.00	14.09	V
15005.50	-37.96	14.75	14.62	-38.09	-25.00	13.09	H
17513.00	-26.20	19.71	13.11	-32.80	-25.00	7.80	H

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5070.50	-41.24	5.30	11.60	-34.94	-25.00	9.94	V
7610.50	-52.14	6.59	10.32	-48.41	-25.00	23.41	V
10143.50	-44.59	9.73	11.79	-42.53	-25.00	17.53	H
12688.00	-42.03	11.75	13.12	-40.66	-25.00	15.66	V
15201.00	-39.25	15.12	15.00	-39.37	-25.00	14.37	V
17738.00	-25.58	19.56	13.44	-31.70	-25.00	6.70	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5135.00	-45.87	5.55	11.60	-39.82	-25.00	14.82	H
7708.50	-51.52	6.73	10.62	-47.63	-25.00	22.63	H
10263.00	-43.29	10.82	11.90	-42.21	-25.00	17.21	V
12826.50	-40.32	13.13	12.95	-40.50	-25.00	15.50	V
15411.50	-40.34	14.91	15.42	-39.83	-25.00	14.83	V
17973.00	-26.78	19.99	13.45	-33.32	-25.00	8.32	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2114.00	-56.19	3.67	8.02	2.15	-53.99	-13.00	40.99	V
2797.00	-51.26	4.91	10.39	2.15	-47.93	-13.00	34.93	V
4886.50	-59.90	4.80	10.97	2.15	-55.88	-13.00	42.88	V
5600.50	-59.20	5.65	11.30	2.15	-55.70	-13.00	42.70	H
6290.00	-56.27	6.08	10.80	2.15	-53.70	-13.00	40.70	V
7011.50	-52.29	7.64	10.42	2.15	-51.66	-13.00	38.66	V

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2127.00	-55.66	3.71	8.23	2.15	-53.29	-13.00	40.29	V
2817.00	-50.59	5.16	10.43	2.15	-47.47	-13.00	34.47	V
4955.00	-59.19	4.92	11.21	2.15	-55.05	-13.00	42.05	V
5662.50	-58.54	5.72	11.40	2.15	-55.01	-13.00	42.01	V
6381.50	-56.75	5.78	10.96	2.15	-53.72	-13.00	40.72	V
7086.50	-51.51	6.95	10.35	2.15	-50.26	-13.00	37.26	V

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2159.00	-55.75	3.70	8.71	2.15	-52.89	-13.00	39.89	V
2867.00	-50.47	5.47	10.60	2.15	-47.49	-13.00	34.49	V
4998.50	-59.72	5.17	11.30	2.15	-55.74	-13.00	42.74	V
5709.00	-58.64	5.66	11.38	2.15	-55.07	-13.00	42.07	V
6452.50	-55.68	6.75	10.79	2.15	-53.79	-13.00	40.79	V
7145.50	-52.66	6.67	10.21	2.15	-51.27	-13.00	38.27	V

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3699.00	-63.03	3.46	10.40	-56.09	-13.00	43.09	V
5561.00	-59.63	5.36	11.22	-53.77	-13.00	40.77	H
7392.00	-50.67	8.14	10.07	-48.74	-13.00	35.74	V
9245.00	-46.64	8.85	11.71	-43.78	-13.00	30.78	V
11104.00	-43.37	9.75	12.60	-40.52	-13.00	27.52	V
12957.00	-38.81	12.51	12.74	-38.58	-13.00	25.58	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3765.00	-59.28	3.79	10.14	-52.93	-13.00	39.93	V
5661.50	-59.48	5.72	11.40	-53.80	-13.00	40.80	H
7519.00	-50.12	7.71	10.24	-47.59	-13.00	34.59	V
9425.50	-46.89	9.02	11.60	-44.31	-13.00	31.31	V
11282.50	-42.74	10.63	12.62	-40.75	-13.00	27.75	V
13179.00	-39.07	13.15	12.52	-39.70	-13.00	26.70	V

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
3828.00	-62.43	3.92	9.94	-56.41	-13.00	43.41	H
5754.00	-58.51	5.83	11.28	-53.06	-13.00	40.06	V
7652.00	-51.55	6.87	10.41	-48.01	-13.00	35.01	V
9578.50	-48.07	8.65	11.90	-44.82	-13.00	31.82	V
11477.50	-40.51	12.31	12.52	-40.30	-13.00	27.30	V
13398.50	-37.27	12.45	12.40	-37.32	-13.00	24.32	V

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2474.50	-53.77	4.33	10.35	2.15	-49.90	-13.00	36.90	V
4954.50	-60.81	4.91	11.21	2.15	-56.66	-13.00	43.66	V
5763.50	-58.60	5.81	11.22	2.15	-55.34	-13.00	42.34	V
6611.00	-54.04	7.00	10.32	2.15	-52.87	-13.00	39.87	V
7417.00	-49.75	8.00	10.10	2.15	-49.80	-13.00	36.80	V
8245.50	-48.95	7.59	11.20	2.15	-47.49	-13.00	34.49	V

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2506.00	-54.10	4.43	10.30	2.15	-50.38	-13.00	37.38	V
4191.50	-60.26	4.12	10.08	2.15	-56.45	-13.00	43.45	V
5860.00	-59.30	5.61	10.96	2.15	-56.10	-13.00	43.10	V
6681.50	-53.94	6.38	10.46	2.15	-52.01	-13.00	39.01	H
7525.00	-51.55	7.71	10.25	2.15	-51.16	-13.00	38.16	H
8356.50	-48.80	8.25	11.30	2.15	-47.90	-13.00	34.90	V

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
1705.50	-60.78	2.85	9.42	2.15	-56.36	-13.00	43.36	V
2553.50	-53.65	4.56	10.30	2.15	-50.06	-13.00	37.06	H
5931.50	-58.10	6.04	10.74	2.15	-55.55	-13.00	42.55	V
6774.00	-53.45	6.40	10.35	2.15	-51.65	-13.00	38.65	H
7633.50	-51.61	6.74	10.37	2.15	-50.13	-13.00	37.13	H
8469.00	-49.67	8.02	11.30	2.15	-48.54	-13.00	35.54	V

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2433.00	-54.31	4.12	10.33	2.15	-50.25	-13.00	37.25	V
4883.00	-60.11	4.78	10.97	2.15	-56.07	-13.00	43.07	H
5709.50	-59.66	5.94	11.38	2.15	-56.37	-13.00	43.37	V
6506.00	-55.53	6.25	10.60	2.15	-53.33	-13.00	40.33	H
7317.50	-51.53	7.83	9.90	2.15	-51.61	-13.00	38.61	H
8138.00	-50.52	8.22	11.12	2.15	-49.77	-13.00	36.77	H

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2454.00	-54.02	4.45	10.39	2.15	-50.23	-13.00	37.23	V
4902.50	-60.48	4.88	11.01	2.15	-56.50	-13.00	43.50	V
5724.00	-59.41	5.90	11.35	2.15	-56.11	-13.00	43.11	H
6563.50	-53.37	7.41	10.52	2.15	-52.41	-13.00	39.41	V
7378.00	-51.58	7.38	10.01	2.15	-51.10	-13.00	38.10	H
8178.50	-50.30	7.23	11.16	2.15	-48.52	-13.00	35.52	V

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

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polorization
2464.50	-53.50	4.32	10.37	2.15	-49.60	-13.00	36.60	V
4109.50	-60.35	4.02	10.08	2.15	-56.44	-13.00	43.44	H
5769.00	-59.33	5.67	11.19	2.15	-55.96	-13.00	42.96	H
6581.00	-53.21	7.26	10.41	2.15	-52.21	-13.00	39.21	V
7420.50	-50.64	7.98	10.10	2.15	-50.67	-13.00	37.67	H
8241.50	-49.68	7.59	11.20	2.15	-48.22	-13.00	35.22	V

LTE Band 41, 5MHz, QPSK, Channel 39657

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5005.00	-60.09	5.15	11.33	-53.91	-25.00	28.91	V
7491.50	-50.75	7.69	10.18	-48.26	-25.00	23.26	H
9986.00	-46.74	9.37	11.77	-44.34	-25.00	19.34	H
12485.50	-39.56	12.33	13.57	-38.32	-25.00	13.32	V
14997.00	-38.49	14.76	14.59	-38.66	-25.00	13.66	H
17502.00	-24.59	19.72	13.10	-31.21	-25.00	6.21	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5181.50	-60.31	5.76	11.66	-54.41	-25.00	29.41	V
7782.00	-51.34	7.36	10.76	-47.94	-25.00	22.94	H
10386.50	-44.44	10.68	11.99	-43.13	-25.00	18.13	H
12967.50	-39.51	12.53	12.73	-39.31	-25.00	14.31	V
15545.00	-39.05	16.79	15.60	-40.24	-25.00	15.24	H
17981.00	-27.38	19.98	13.44	-33.92	-25.00	8.92	V

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
5385.50	-61.51	5.43	11.63	-55.31	-25.00	30.31	H
8062.50	-51.28	7.86	11.12	-48.02	-25.00	23.02	H
10744.50	-43.01	9.85	12.14	-40.72	-25.00	15.72	H
13428.50	-36.83	12.53	12.37	-36.99	-25.00	11.99	V
16128.50	-36.18	17.03	15.10	-38.11	-25.00	13.11	H
17983.50	-27.31	19.97	13.43	-33.85	-25.00	8.85	H

LTE Band 66, 1.4MHz QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
8558.50	-59.73	8.50	11.20	-57.03	-13.00	44.03	H
10254.00	-53.75	10.89	11.90	-52.74	-13.00	39.74	V
11970.00	-51.43	12.31	13.04	-50.70	-13.00	37.70	V
13698.00	-49.11	13.05	12.20	-49.96	-13.00	36.96	H
15397.50	-51.02	14.88	15.40	-50.50	-13.00	37.50	H
17107.50	-40.88	18.45	13.49	-45.84	-13.00	32.84	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
8738.50	-58.72	7.86	11.10	-55.48	-13.00	42.48	V
10473.00	-53.78	10.36	11.93	-52.21	-13.00	39.21	H
12207.00	-52.26	12.17	13.40	-51.03	-13.00	38.03	H
13949.50	-44.02	14.69	12.15	-46.56	-13.00	33.56	H
15690.50	-49.41	16.68	15.51	-50.58	-13.00	37.58	V
17452.00	-36.94	19.26	13.05	-43.15	-13.00	30.15	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polorization
8895.50	-57.70	8.04	11.58	-54.16	-13.00	41.16	V
10684.50	-53.77	10.01	12.08	-51.70	-13.00	38.70	V
12459.50	-49.29	12.87	13.52	-48.64	-13.00	35.64	V
14234.50	-48.12	13.13	12.63	-48.62	-13.00	35.62	H
16006.00	-47.49	17.50	15.38	-49.61	-13.00	36.61	V
17792.50	-37.50	19.55	13.49	-43.56	-13.00	30.56	H

LTE Band71_5MHz_CH133147_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2009.00	-56.88	3.35	7.70	2.15	-54.68	-13.00	41.68	V
2675.50	-52.30	4.94	10.20	2.15	-49.19	-13.00	36.19	V
4661.00	-61.81	5.01	10.92	2.15	-58.05	-13.00	45.05	V
5330.50	-60.61	6.26	11.74	2.15	-57.28	-13.00	44.28	H
6001.00	-58.02	6.21	10.69	2.15	-55.69	-13.00	42.69	V
6667.00	-55.33	6.28	10.43	2.15	-53.33	-13.00	40.33	V

LTE Band71_5MHz_CH133297_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2055.50	-56.54	3.60	7.71	2.15	-54.58	-13.00	41.58	V
2725.50	-51.80	4.88	10.25	2.15	-48.58	-13.00	35.58	H
4070.00	-60.76	4.35	10.04	2.15	-57.22	-13.00	44.22	V
5454.50	-60.99	5.36	11.35	2.15	-57.15	-13.00	44.15	H
6135.50	-57.71	6.13	10.67	2.15	-55.32	-13.00	42.32	V
6819.50	-54.24	6.37	10.36	2.15	-52.40	-13.00	39.40	V

LTE Band 71_5MHz_CH133447_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{pl} (dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2076.50	-56.38	3.53	7.75	2.15	-54.31	-13.00	41.31	V
2792.50	-51.91	4.91	10.38	2.15	-48.59	-13.00	35.59	H
4878.50	-60.34	4.75	10.96	2.15	-56.28	-13.00	43.28	H
5565.00	-59.64	5.38	11.23	2.15	-55.94	-13.00	42.94	H
6247.50	-56.93	6.16	10.79	2.15	-54.45	-13.00	41.45	H
6947.50	-54.55	6.47	10.40	2.15	-52.77	-13.00	39.77	H

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

A.3 Frequency Stability

A.3.1 Method of Measurement

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

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

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

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

A.3.2 Measurement results

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	2500.620	2569.380		
50				-1.13	0.0004
40				-1.12	0.0004
30				-1.97	0.0008
10				-2.35	0.0009
0				-4.99	0.0020
-10				-2.79	0.0011
-20				-0.33	0.0001
-30				-1.90	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	2500.620	2569.380	-4.86	0.0019
4.4				-3.53	0.0014

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

Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	699.490	715.510		
50				-0.63	0.0009
40				0.07	0.0001
30				-0.86	0.0012
10				-0.74	0.0011
0				0.12	0.0002
-10				-0.06	0.0001
-20				-0.11	0.0002
-30				-0.39	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	699.490	715.510	-0.36	0.0005
4.4				-0.19	0.0003

LTE band 25, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1850.860	1914.130		
50				-0.96	0.0005
40				0.79	0.0004
30				-1.46	0.0008
10				-2.26	0.0012
0				-1.16	0.0006
-10				-0.69	0.0004
-20				1.33	0.0007
-30				0.54	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	1850.860	1914.130	0.04	0.0000
4.4				1.55	0.0008

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	824.600	848.400		
50				-1.65	0.0020
40				-1.00	0.0012
30				-1.80	0.0022
10				-1.00	0.0012
0				0.13	0.0002
-10				-0.77	0.0009
-20				-1.26	0.0015
-30				-0.79	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	824.600	848.400	-2.22	0.0027
4.4				-2.13	0.0025

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	814.440	823.570		
50				0.09	0.0001
40				1.43	0.0017
30				1.83	0.0022
10				1.82	0.0022
0				2.42	0.0030
-10				1.80	0.0022
-20				1.47	0.0018
-30				1.79	0.0022

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	814.440	823.570	2.86	0.0035
4.4				1.56	0.0019

LTE band 41, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	2496.500	2689.420		
50				-1.15	0.0004
40				-1.89	0.0007
30				-1.05	0.0004
10				-1.05	0.0004
0				-1.20	0.0005
-10				-1.60	0.0006
-20				-1.35	0.0005
-30				0.49	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	2496.500	2689.420	-3.21	0.0012
4.4				-2.43	0.0009

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	1710.850	1779.140		
50				-0.59	0.0003
40				-0.50	0.0003
30				-0.50	0.0003
10				-0.04	0.0000
0				-0.89	0.0005
-10				-1.05	0.0006
-20				-1.57	0.0009
-30				0.06	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	1710.850	1779.140	-0.83	0.0005
4.4				-0.63	0.0004

LTE band 71, 20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Temperature

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.8	663.880	697.140		
50				1.46	0.0021
40				0.92	0.0013
30				0.90	0.0013
10				1.32	0.0019
0				0.74	0.0011
-10				1.46	0.0021
-20				1.55	0.0023
-30				0.57	0.0008

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.45	20	663.880	697.140	0.92	0.0013
4.4				1.83	0.0027

A.4 Occupied Bandwidth

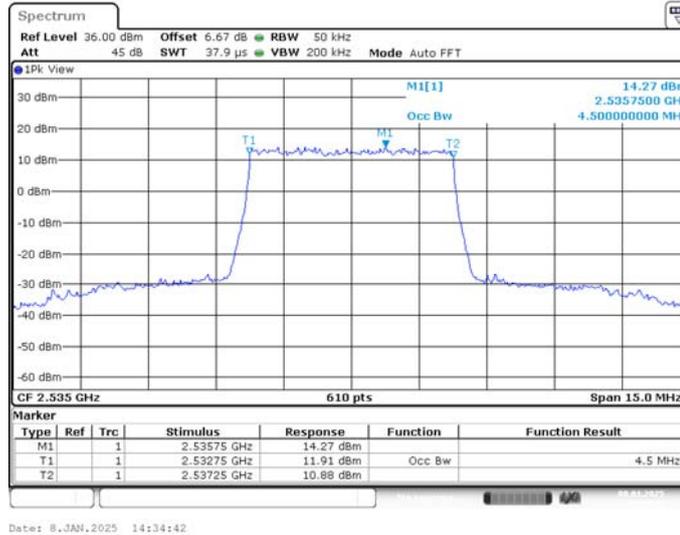
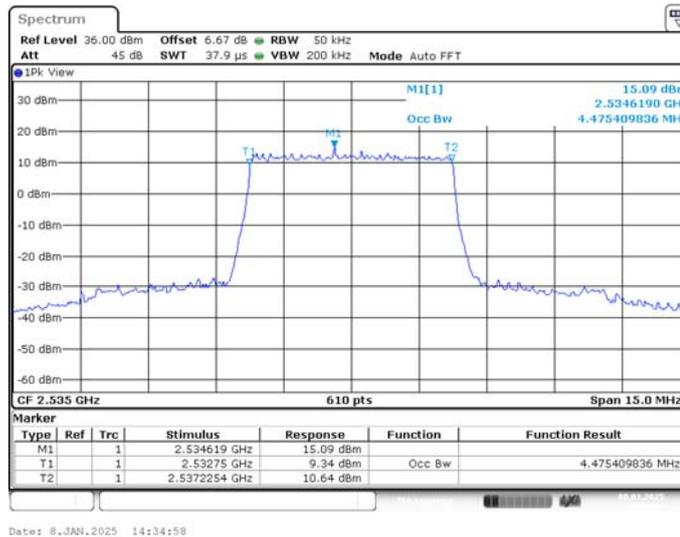
Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

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

LTE band 7,5MHz(99%)

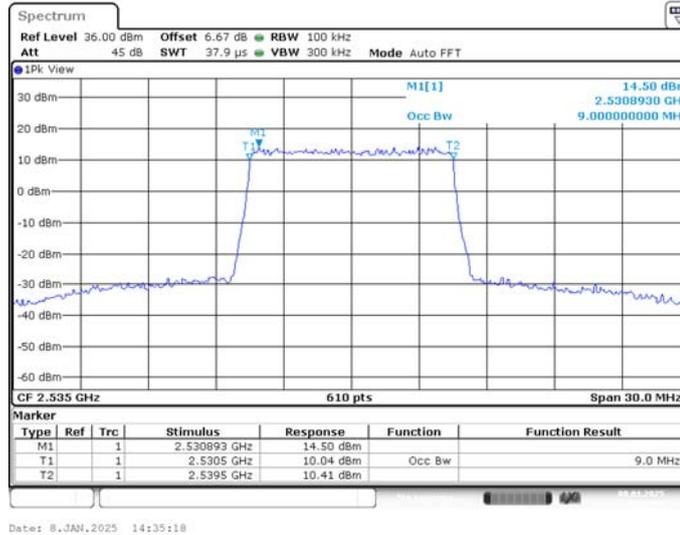
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	4.500	4.475

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

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


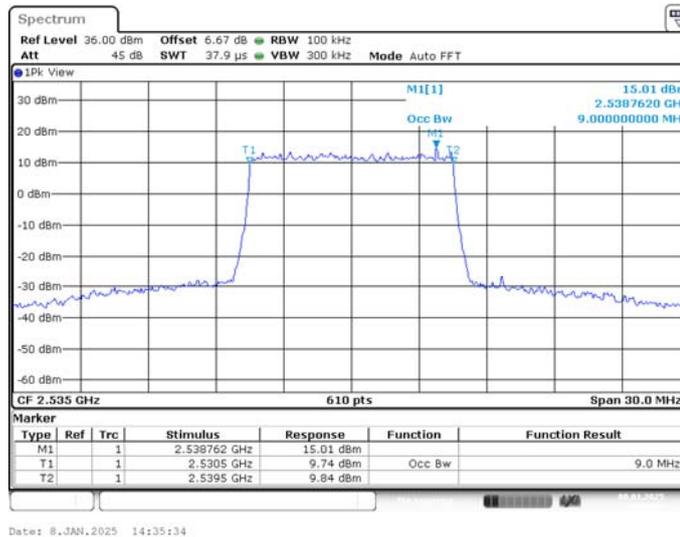
LTE band 7,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	9.000	9.000

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

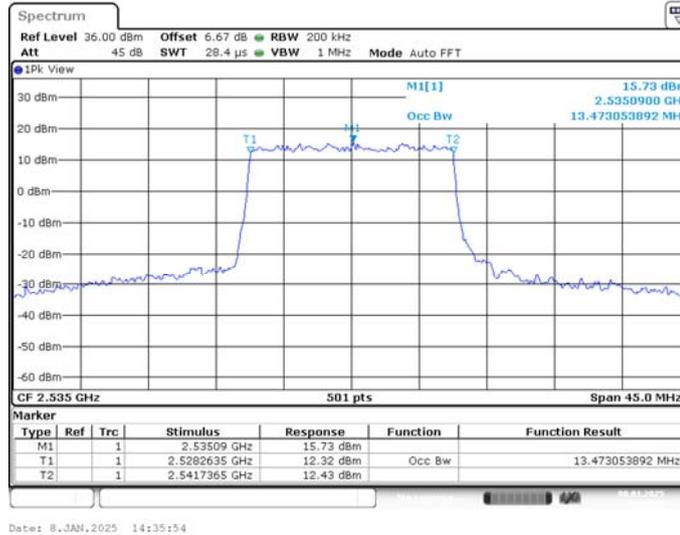
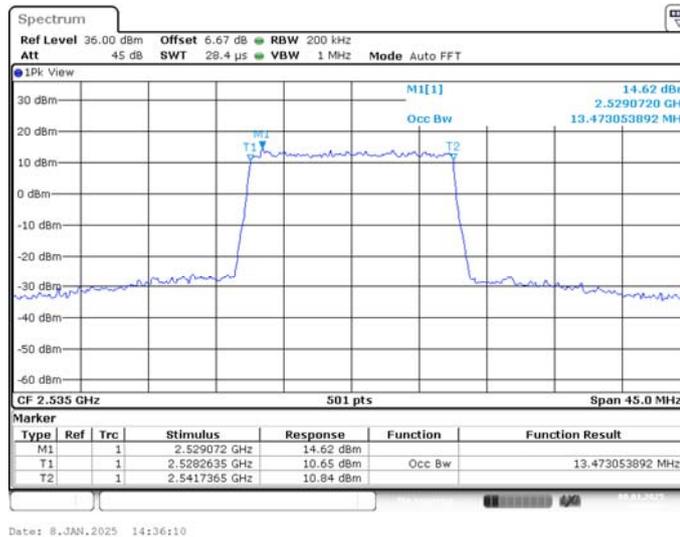


LTE band 7 , 10MHz Bandwidth,MID,16QAM (99% BW)



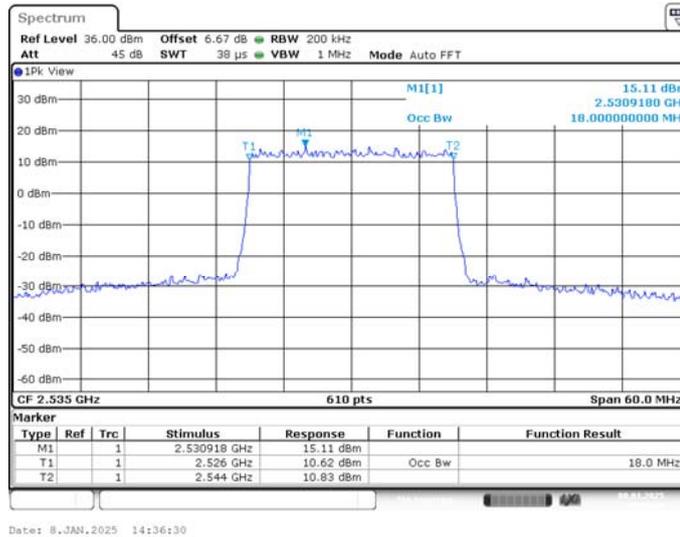
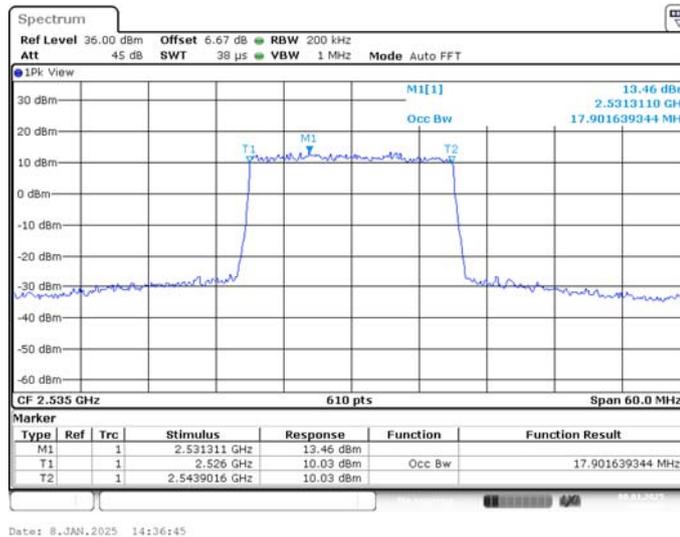
LTE band 7,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	13.473	13.473

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

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


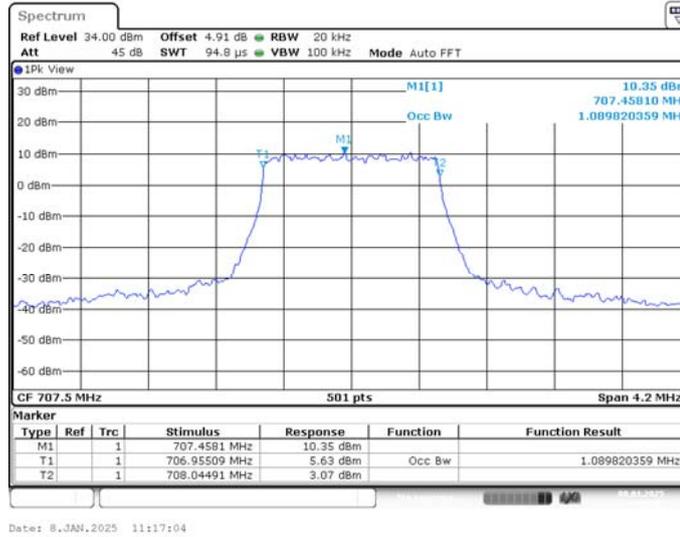
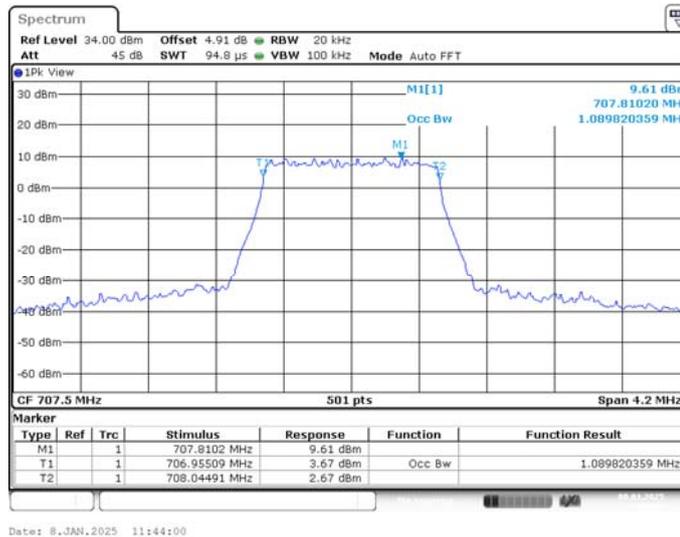
LTE band 7,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	18.000	17.902

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

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


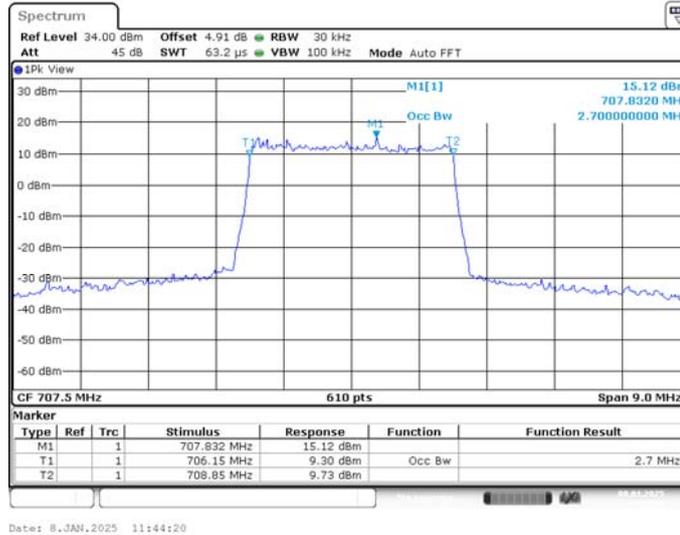
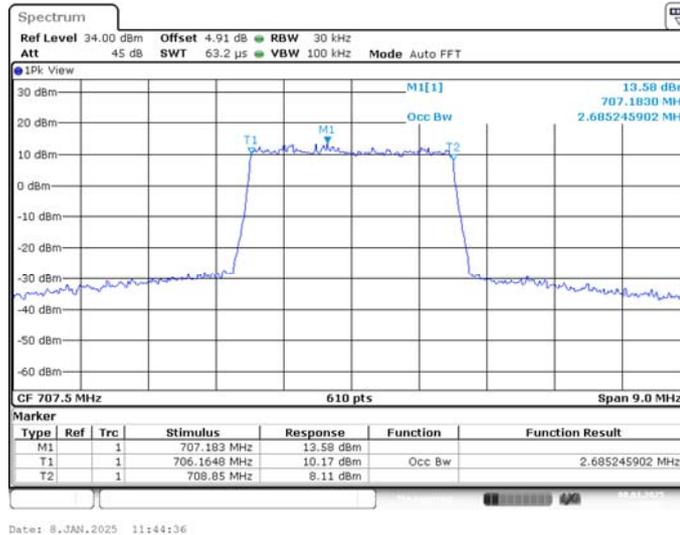
LTE band 12,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	1.090	1.090

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

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


LTE band 12,3MHz(99%)

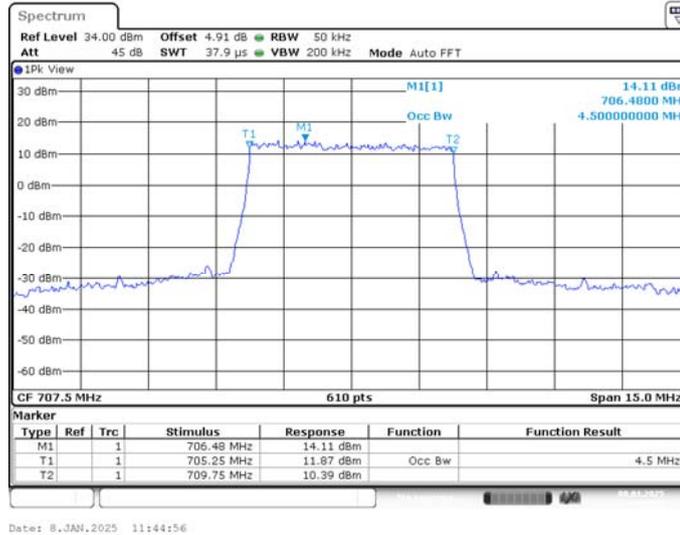
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	2.700	2.685

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

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


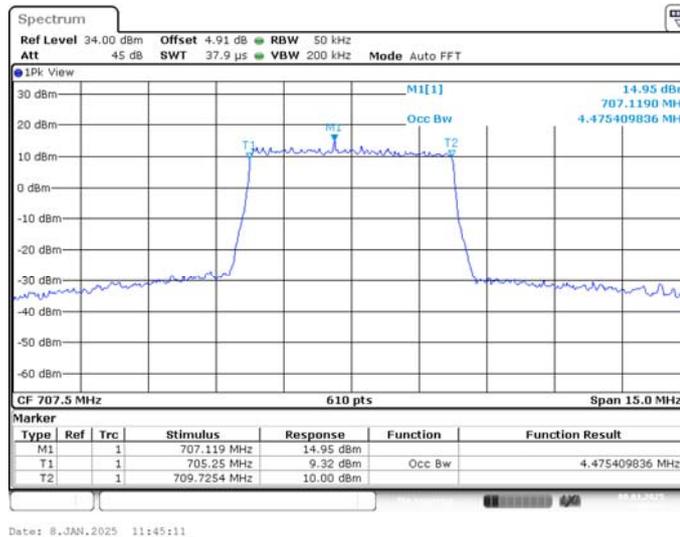
LTE band 12,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	4.500	4.475

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

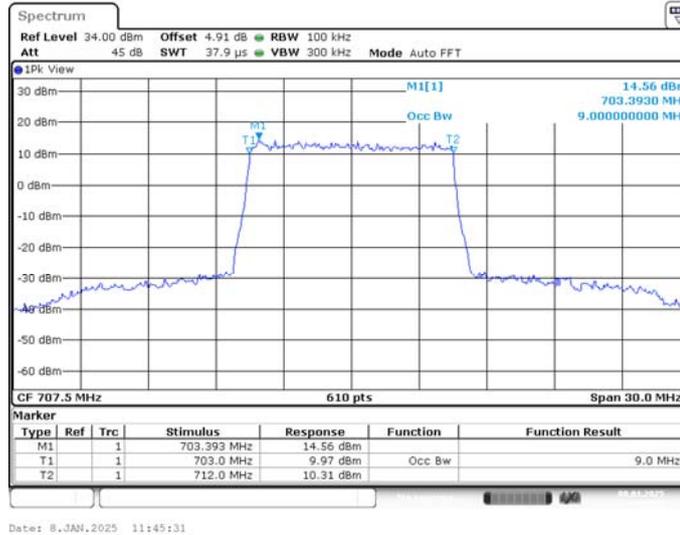
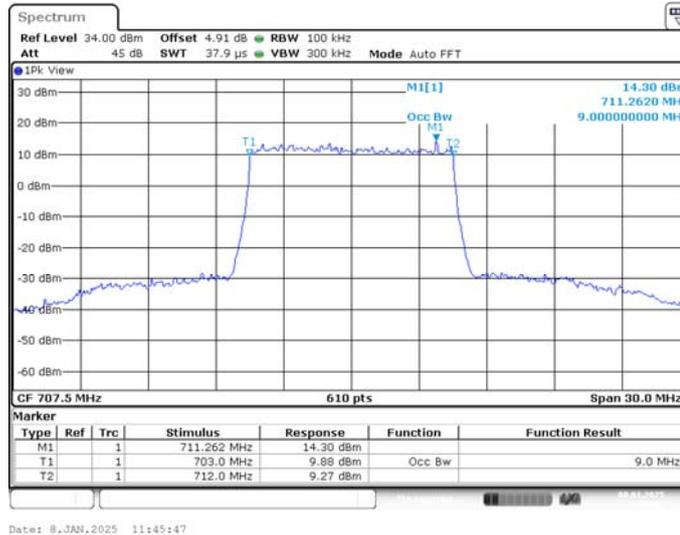


LTE band 12 , 5MHz Bandwidth,MID,16QAM (99% BW)



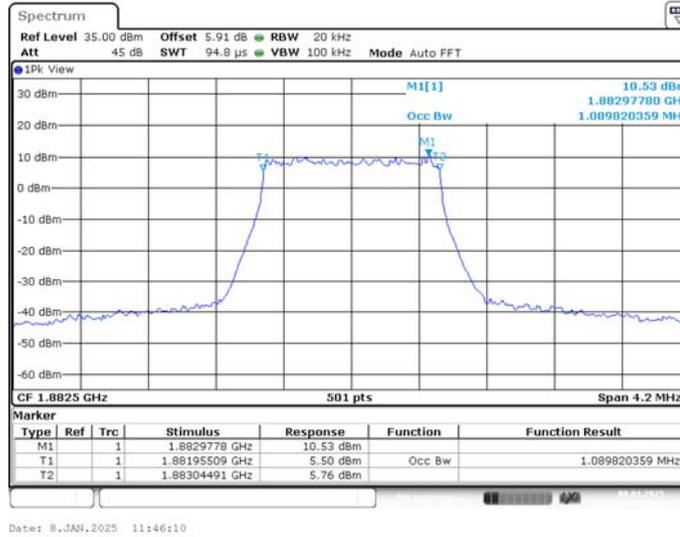
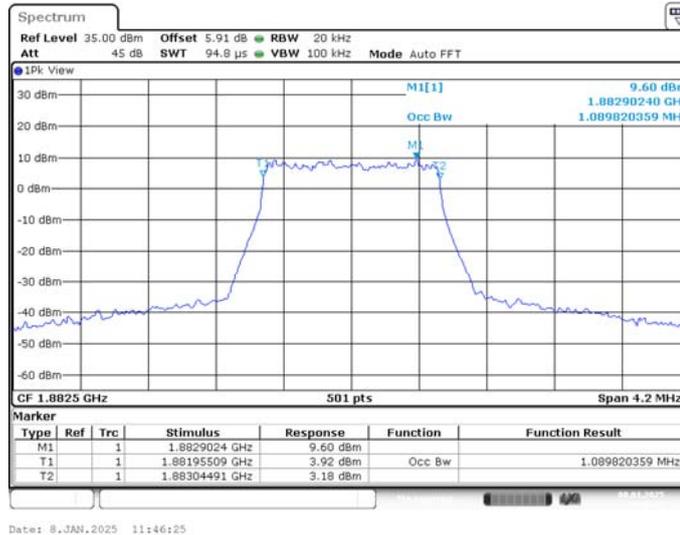
LTE band 12,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	9.000	9.000

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

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


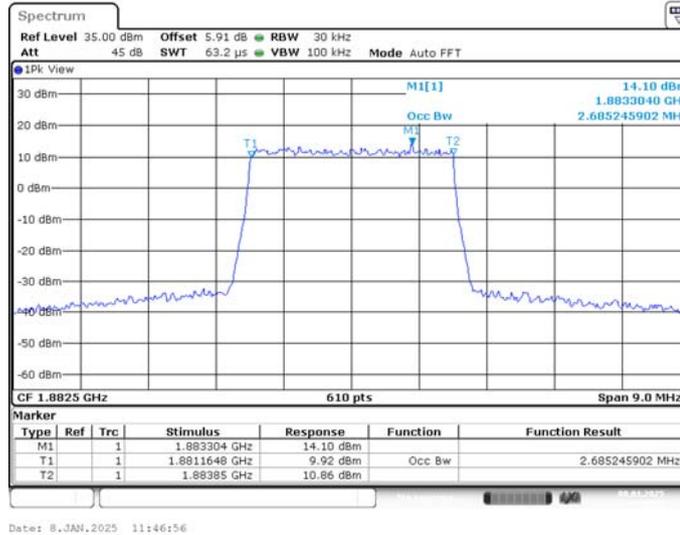
LTE band 25,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	1.090	1.090

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

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


LTE band 25,3MHz(99%)

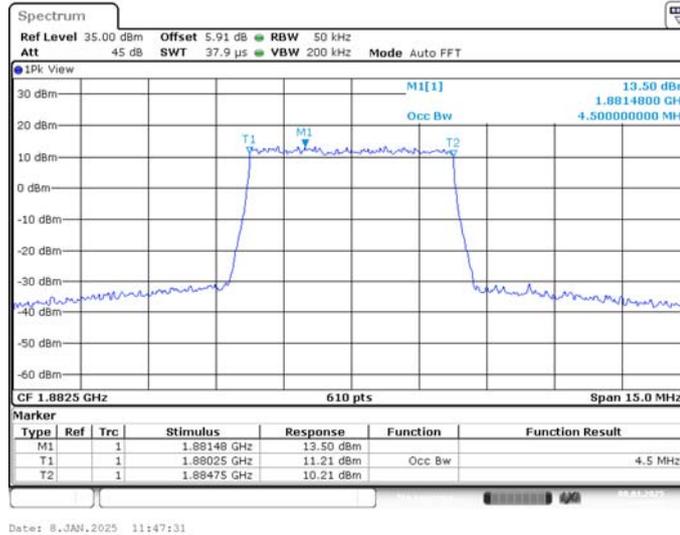
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	2.685	2.685

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

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

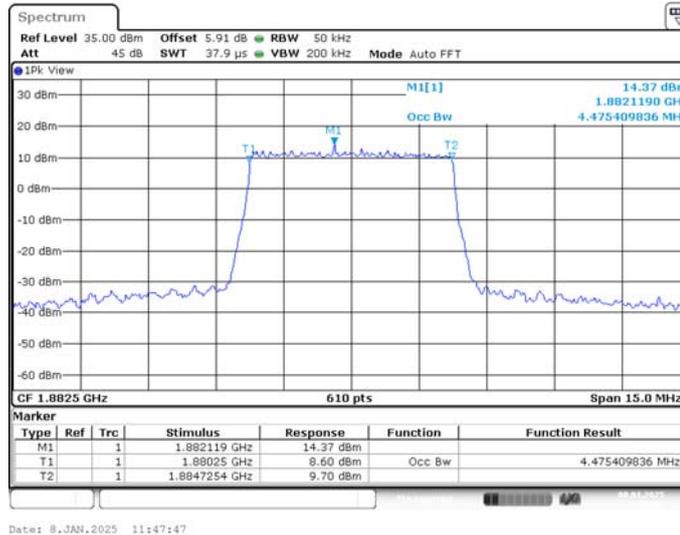

LTE band 25,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	4.500	4.475

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

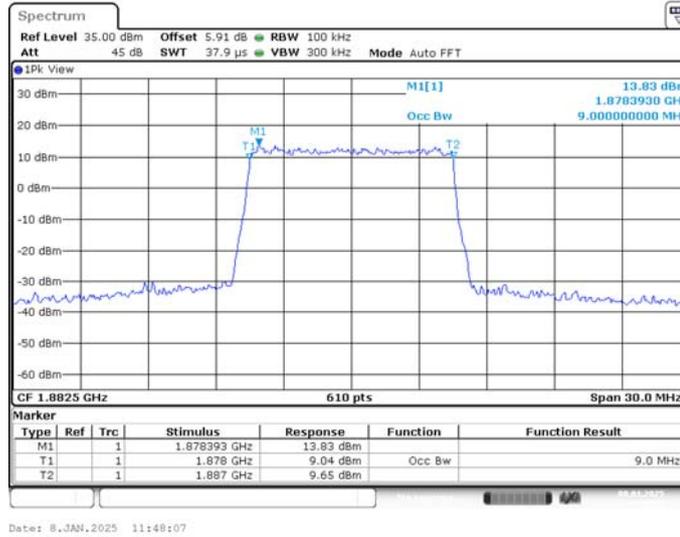
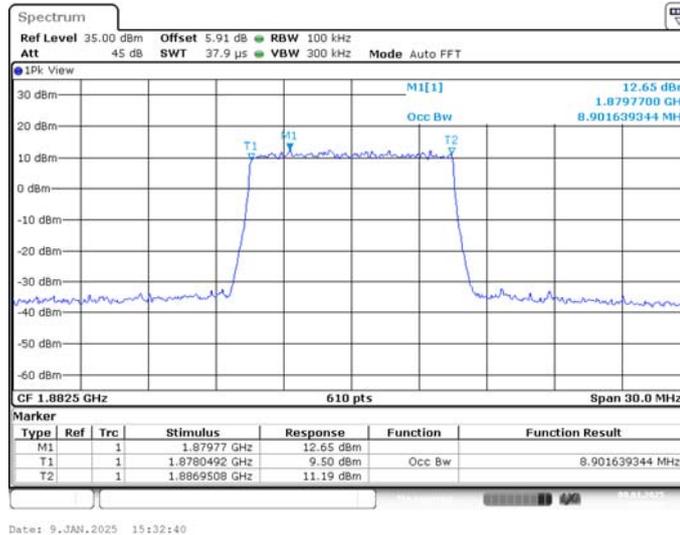


LTE band 25 , 5MHz Bandwidth,MID,16QAM (99% BW)



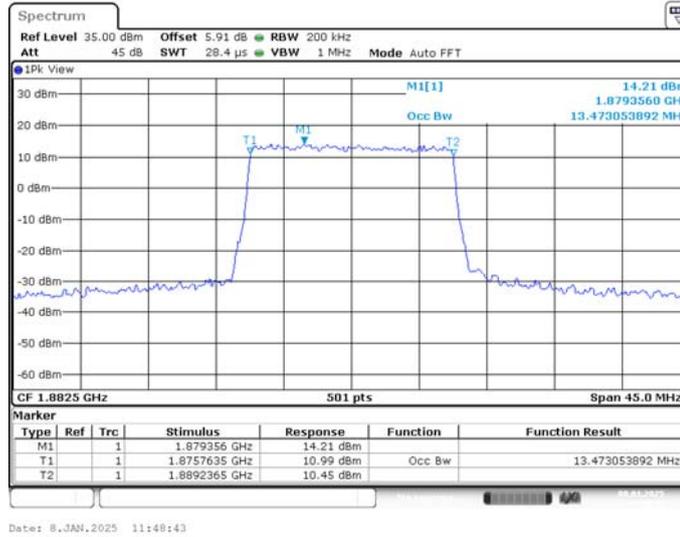
LTE band 25,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	9.000	8.902

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

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


LTE band 25,15MHz(99%)

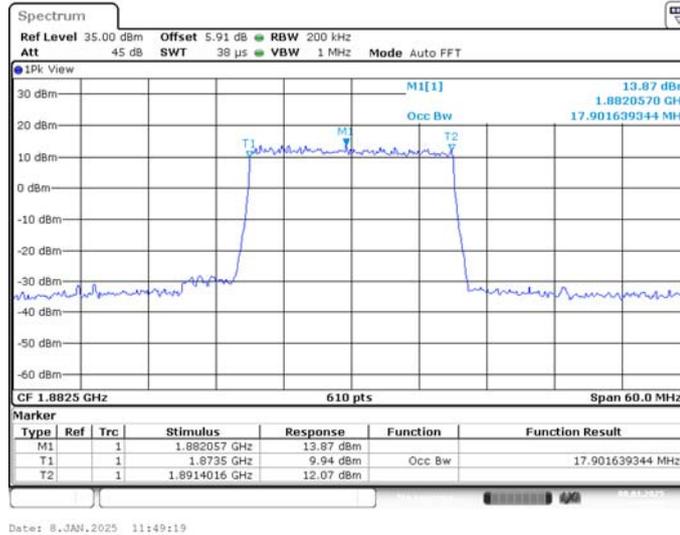
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	13.473	13.473

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

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

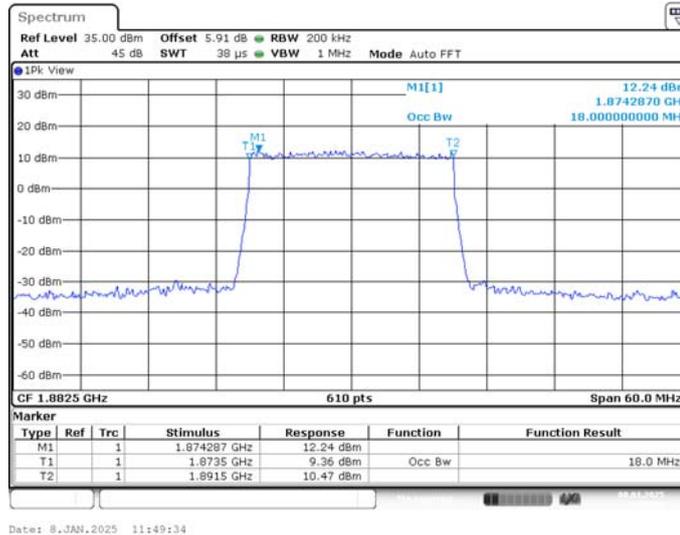

LTE band 25,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	17.902	18.000

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



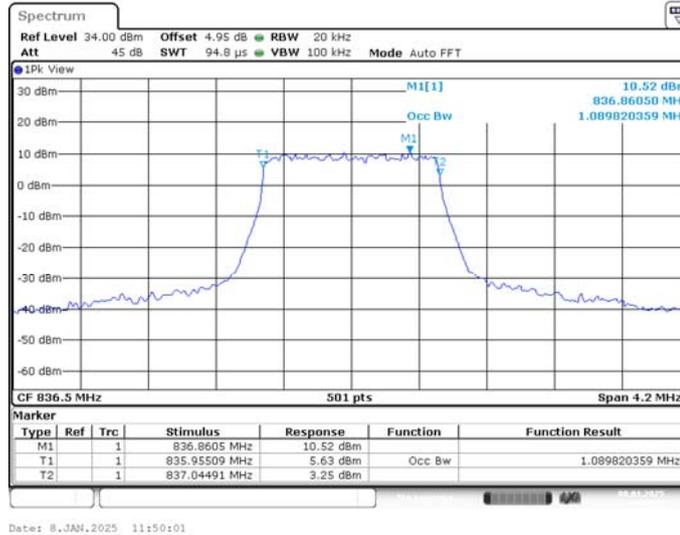
LTE band 25 , 20MHz Bandwidth,MID,16QAM (99% BW)



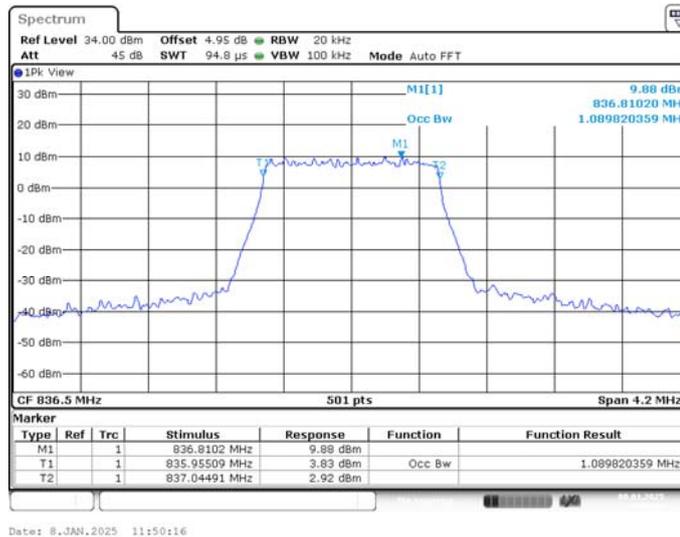
LTE band 26(824MHz~849MHz),1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	1.090	1.090

LTE band 26 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

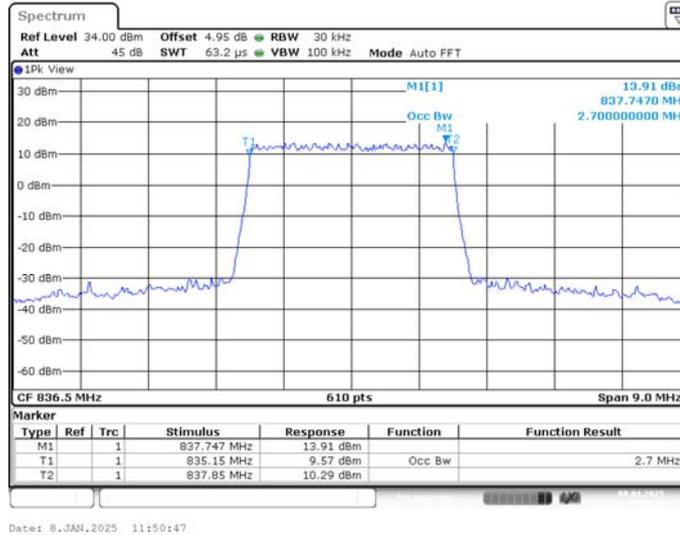
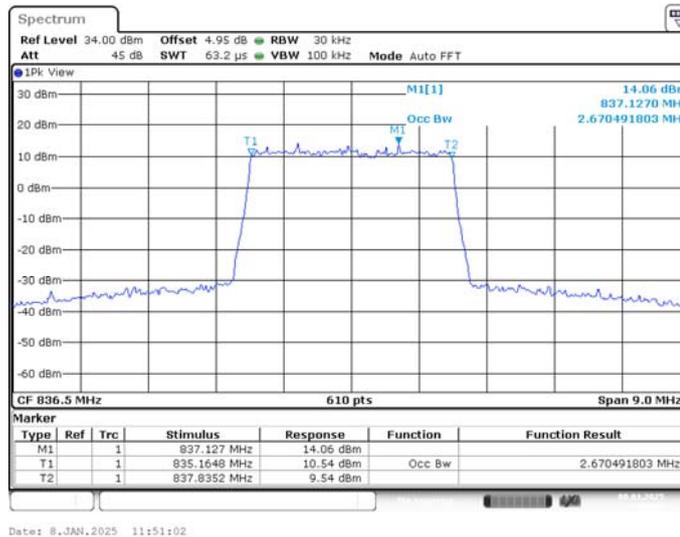


LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



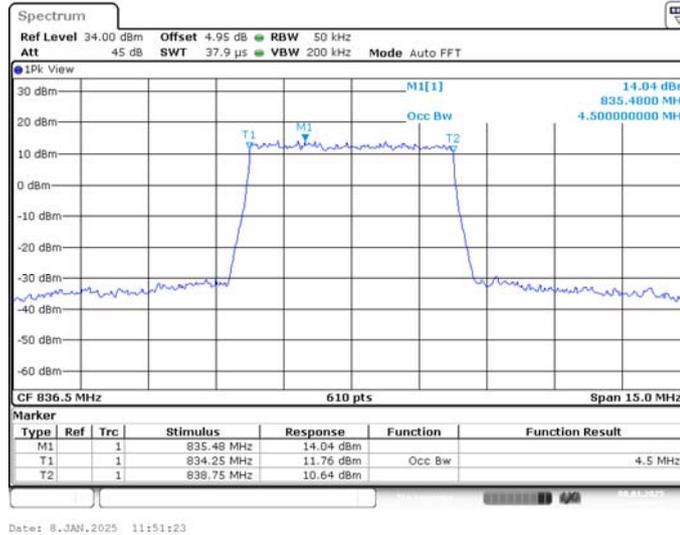
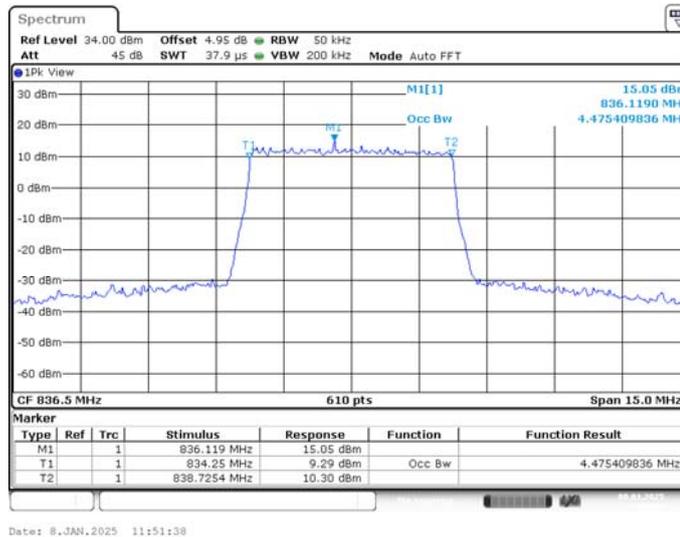
LTE band 26(824MHz~849MHz),3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	2.700	2.670

LTE band 26 , 3MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)


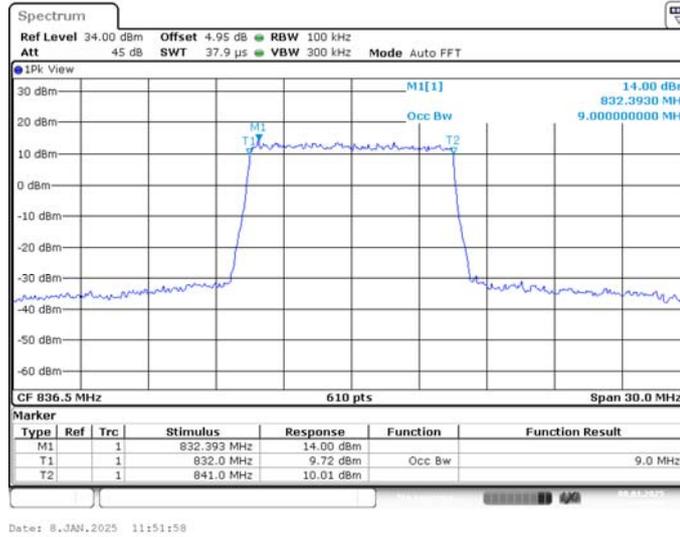
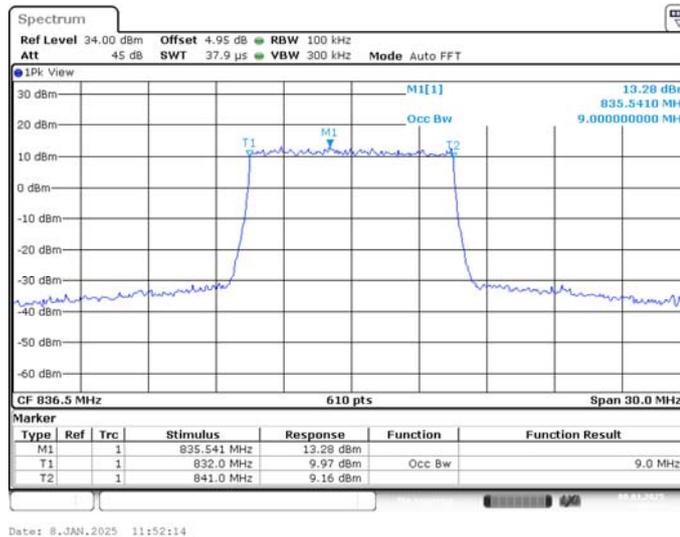
LTE band 26(824MHz~849MHz),5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	4.500	4.475

LTE band 26 , 5MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)


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

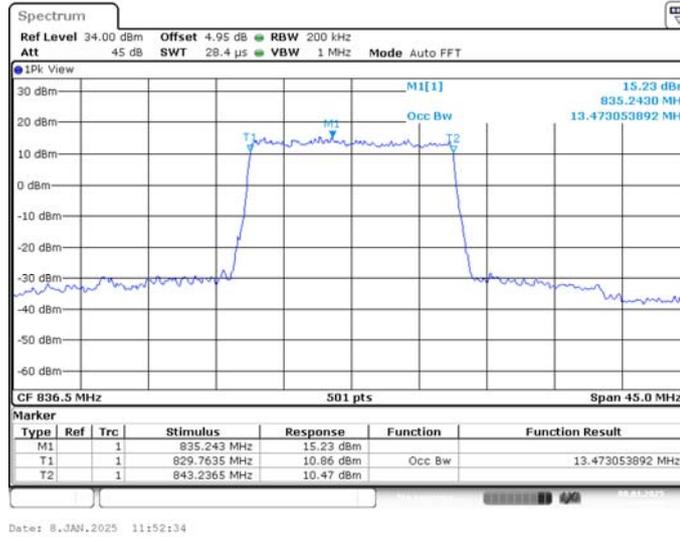
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	9.000	9.000

LTE band 26 , 10MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)


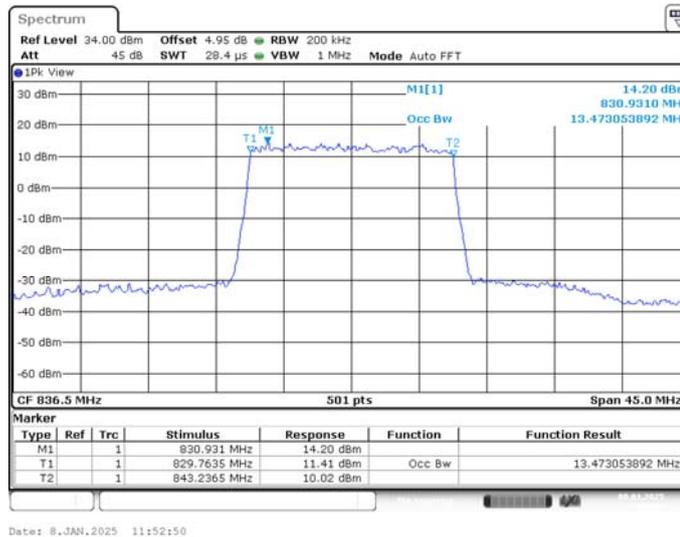
LTE band 26(824MHz~849MHz),15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	13.473	13.473

LTE band 26 , 15MHz Bandwidth,MID,QPSK (99% BW)



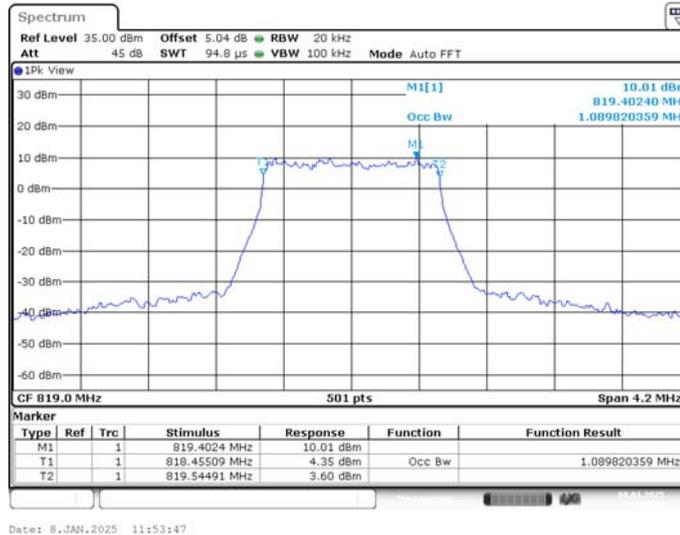
LTE band 26 , 15MHz Bandwidth,MID,16QAM (99% BW)



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

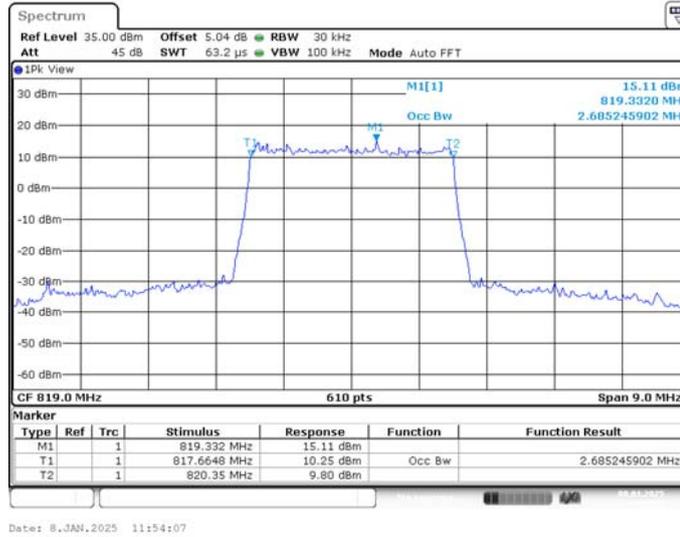
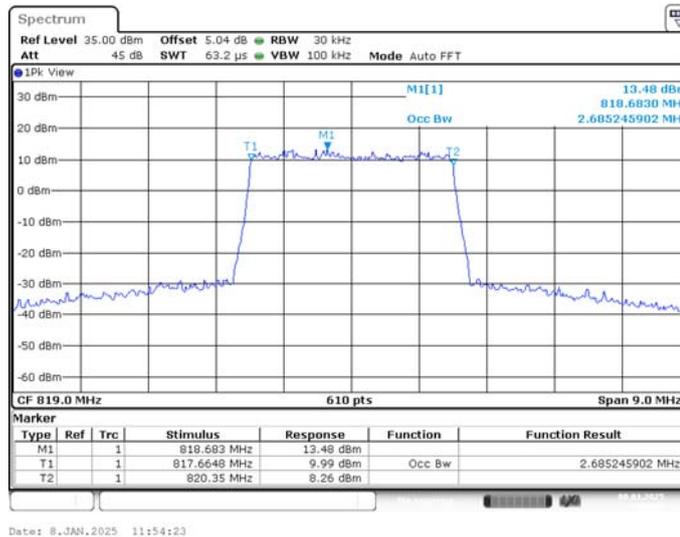
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	1.090	1.090

LTE band 26 , 1.4MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)


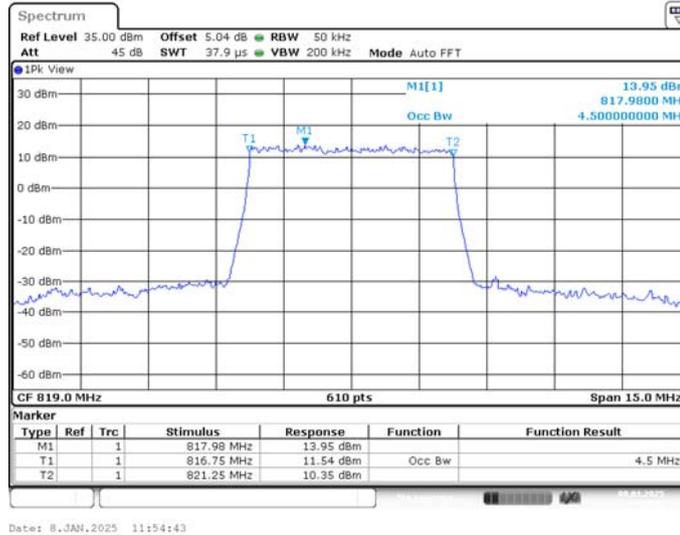
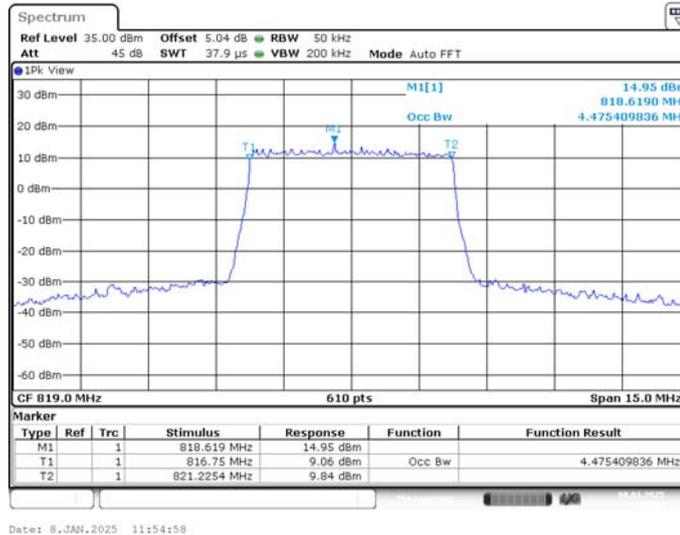
LTE band 26(814MHz~824MHz),3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	2.685	2.685

LTE band 26 , 3MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)


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

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	4.500	4.475

LTE band 26 , 5MHz Bandwidth,MID,QPSK (99% BW)

LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)


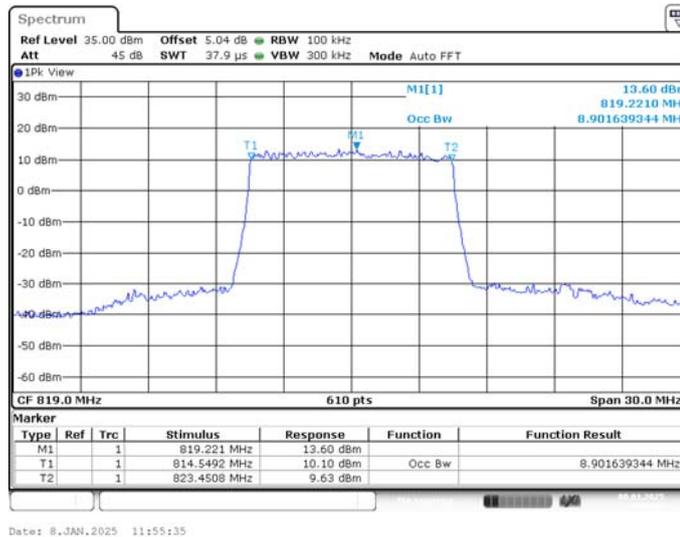
LTE band 26(814MHz~824MHz),10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	8.951	8.902

LTE band 26 , 10MHz Bandwidth,MID,QPSK (99% BW)



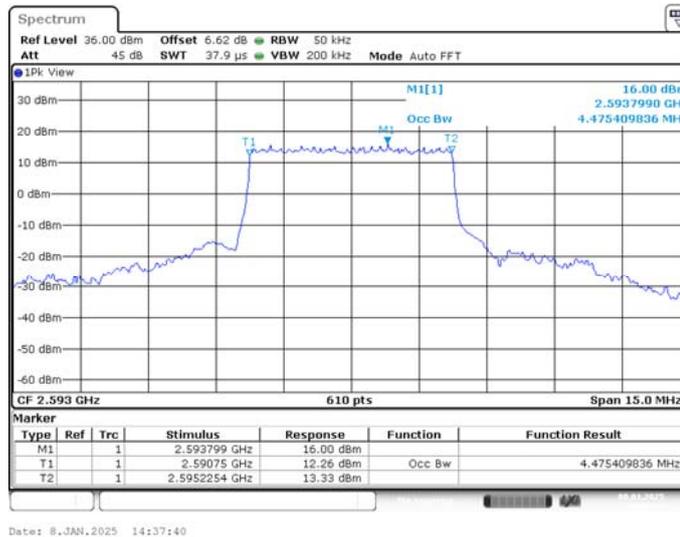
LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)



LTE band 41,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	4.500	4.475

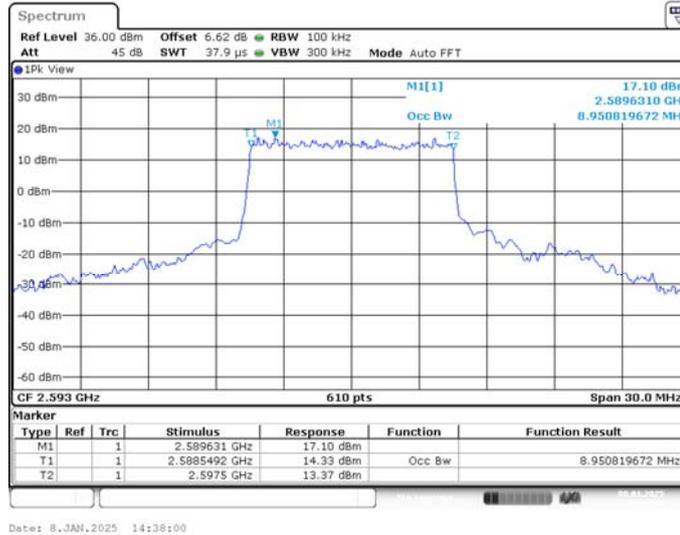
LTE band 41 , 5MHz Bandwidth,MID,QPSK (99% BW)

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


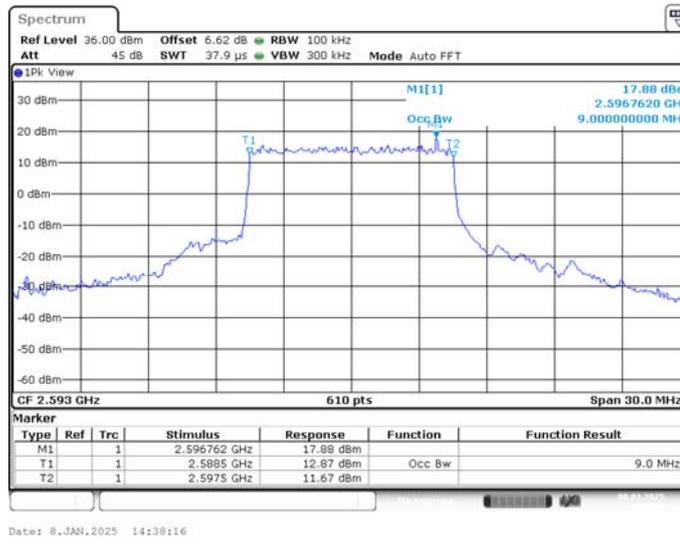
LTE band 41,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	8.951	9.000

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



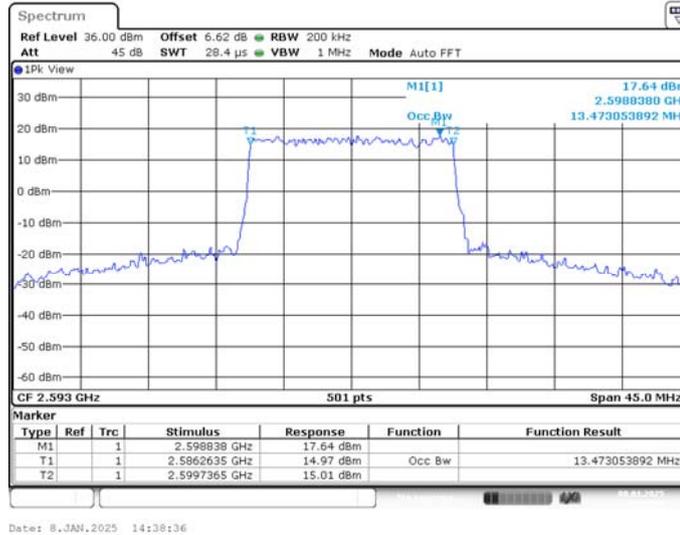
LTE band 41 , 10MHz Bandwidth,MID,16QAM (99% BW)



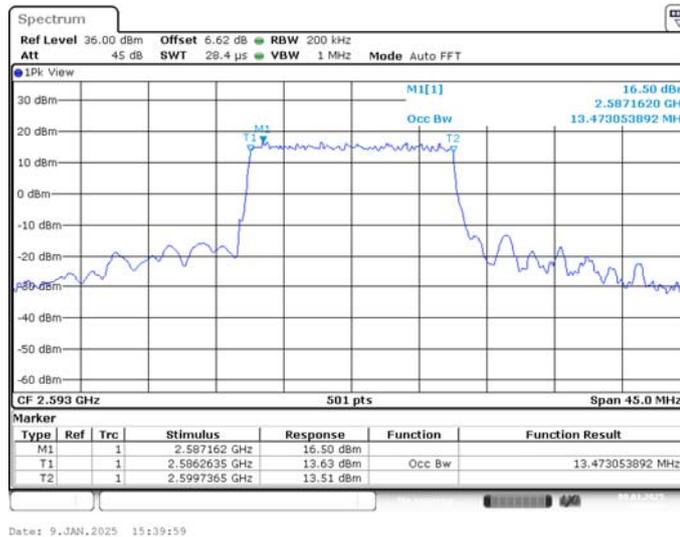
LTE band 41,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	13.473	13.473

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



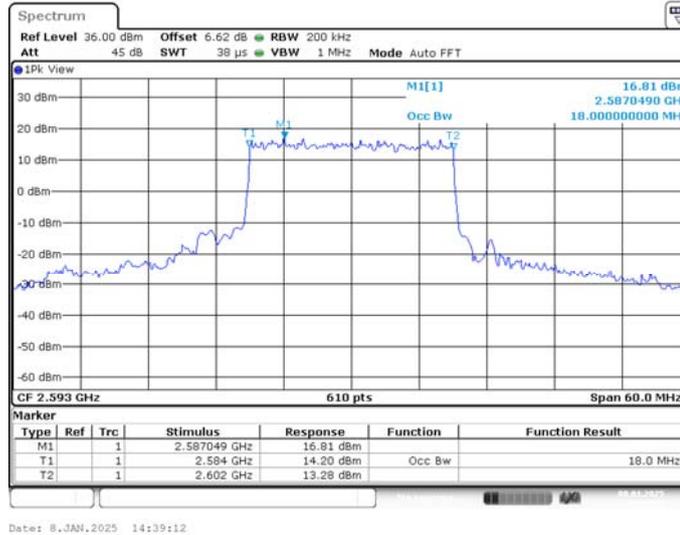
LTE band 41 , 15MHz Bandwidth,MID,16QAM (99% BW)



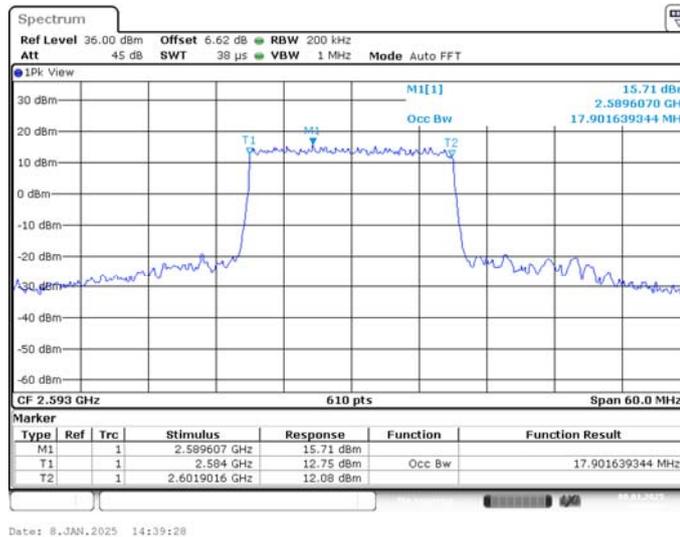
LTE band 41,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2593	18.000	17.902

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

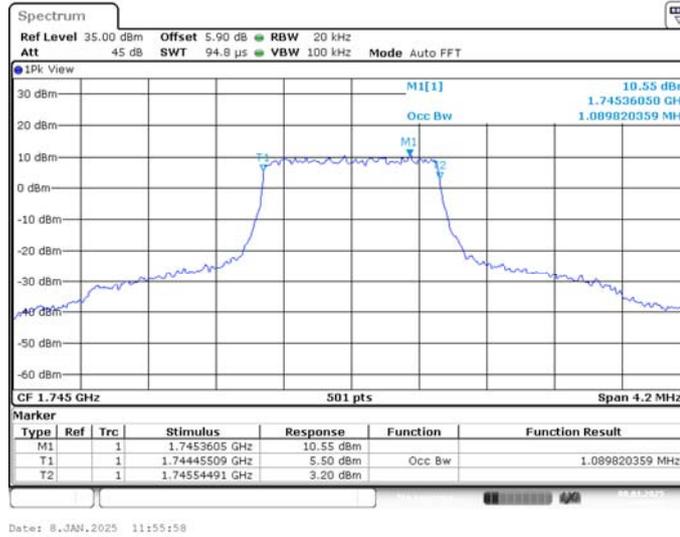


LTE band 41 , 20MHz Bandwidth,MID,16QAM (99% BW)



LTE band 66,1.4MHz(99%)

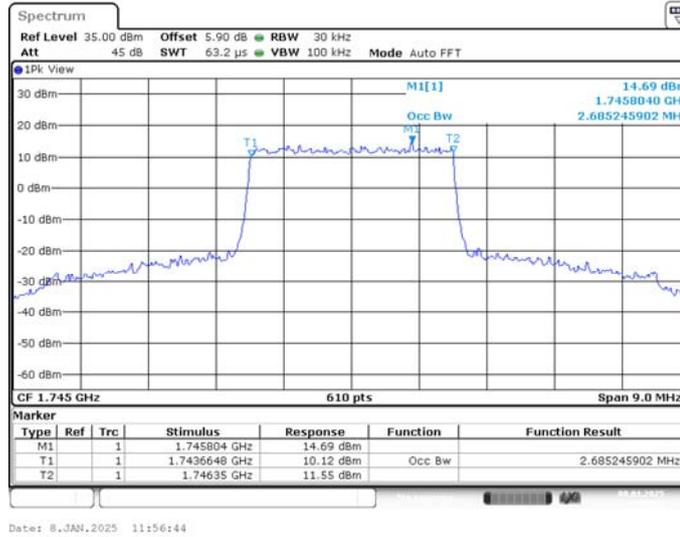
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	1.090	1.081

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

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

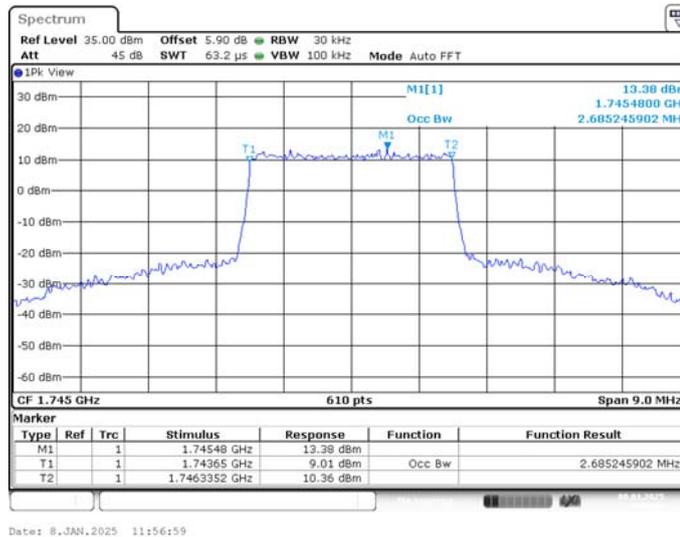

LTE band 66,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	2.685	2.685

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

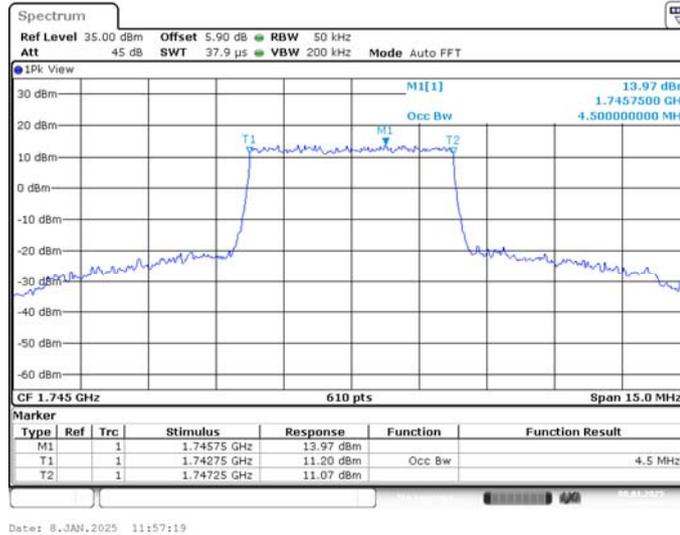
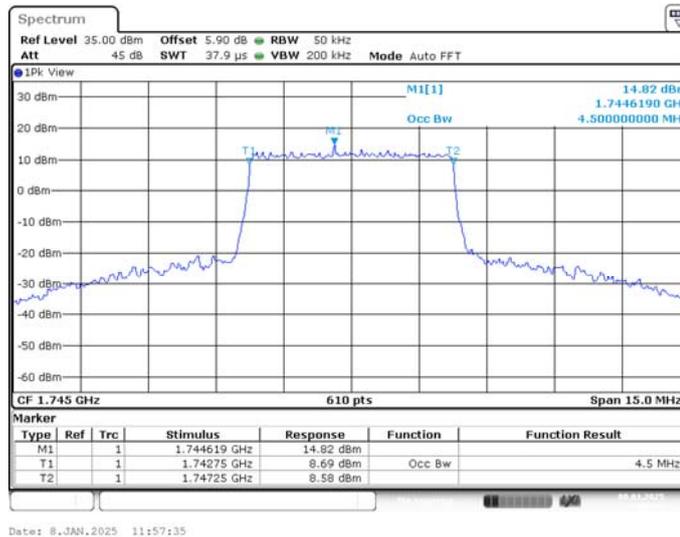


LTE band 66 , 3MHz Bandwidth,MID,16QAM (99% BW)



LTE band 66,5MHz(99%)

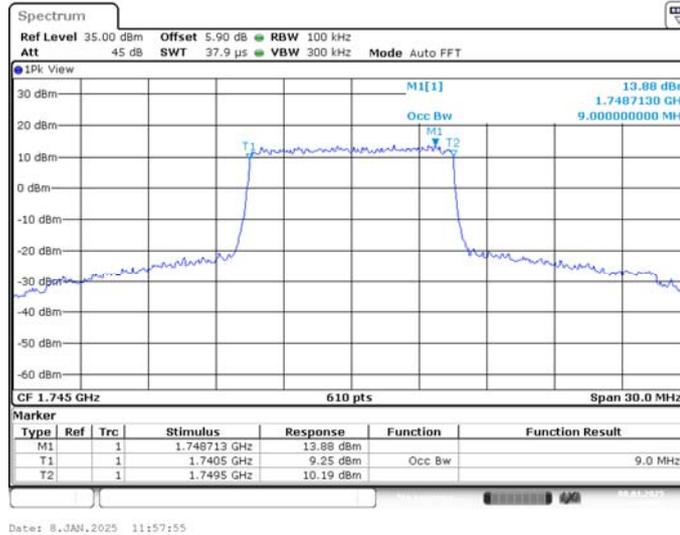
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	4.500	4.500

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

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


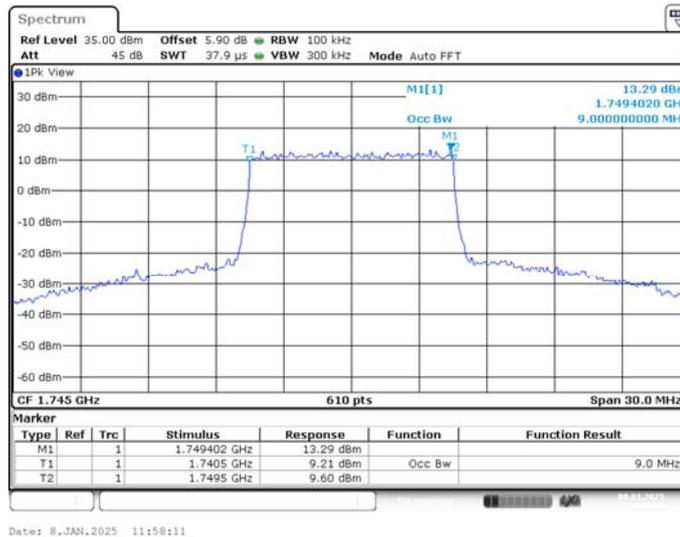
LTE band 66,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	9.000	9.000

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

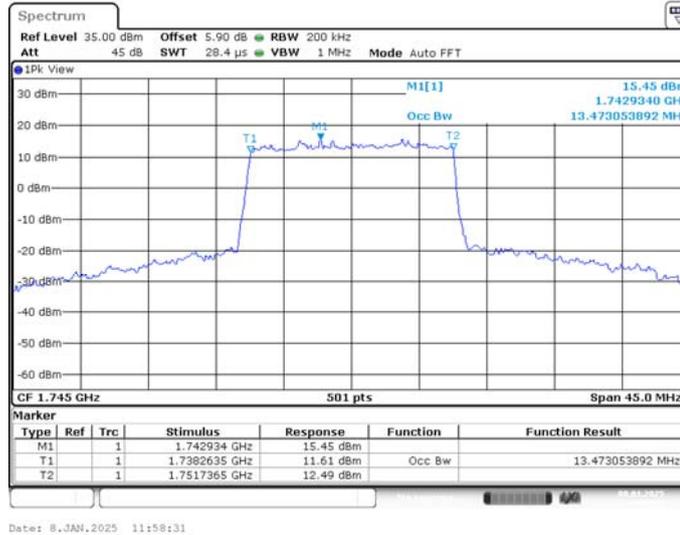
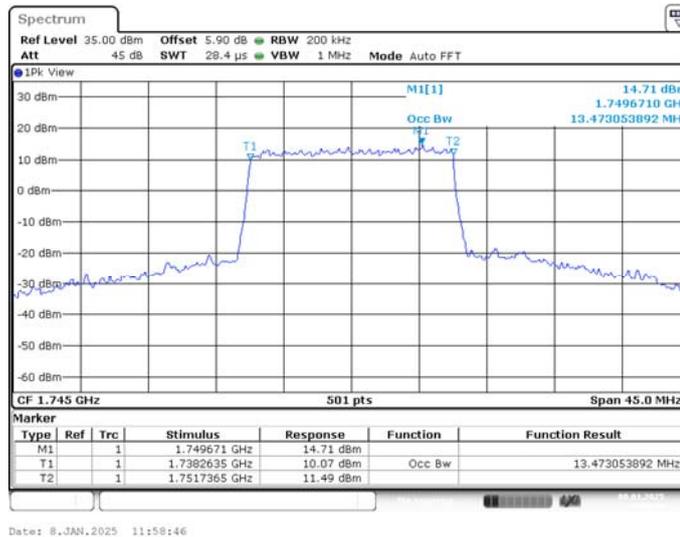


LTE band 66 , 10MHz Bandwidth,MID,16QAM (99% BW)



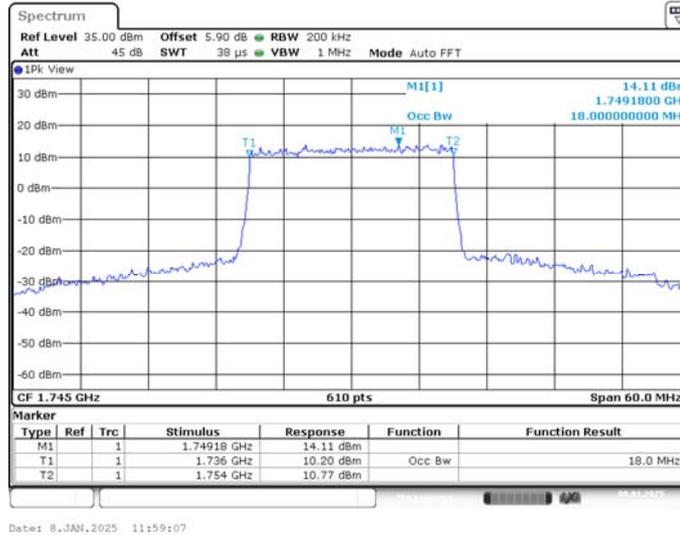
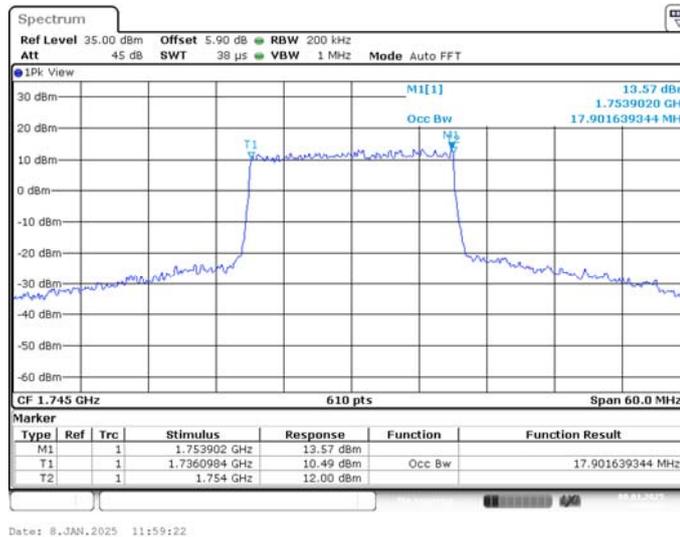
LTE band 66,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	13.473	13.473

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

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


LTE band 66,20MHz(99%)

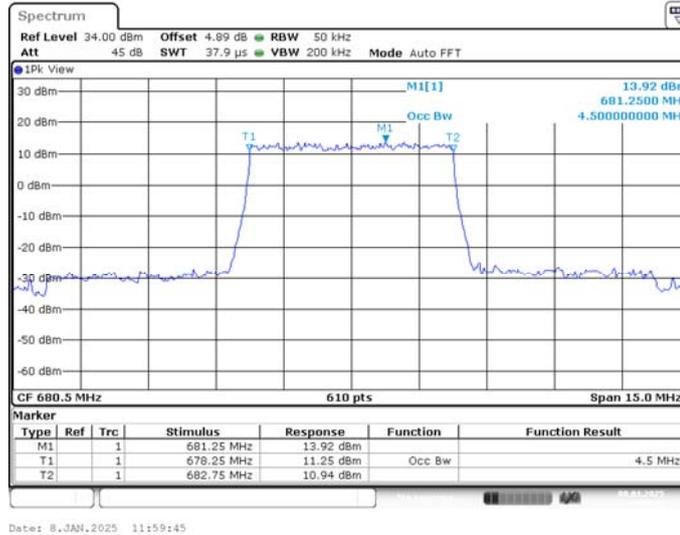
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	18.000	17.902

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

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


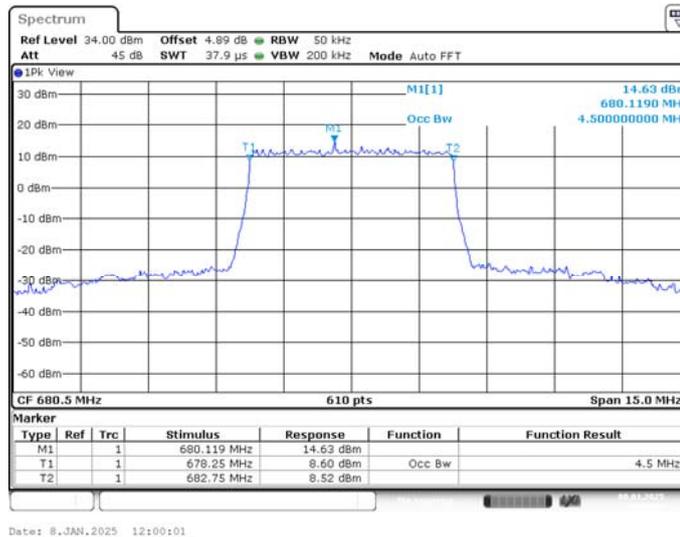
LTE band 71,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
680.5	4.500	4.500

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

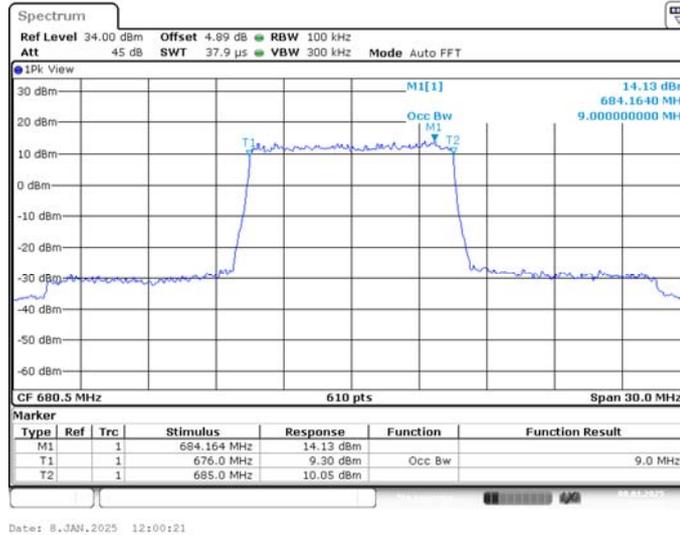
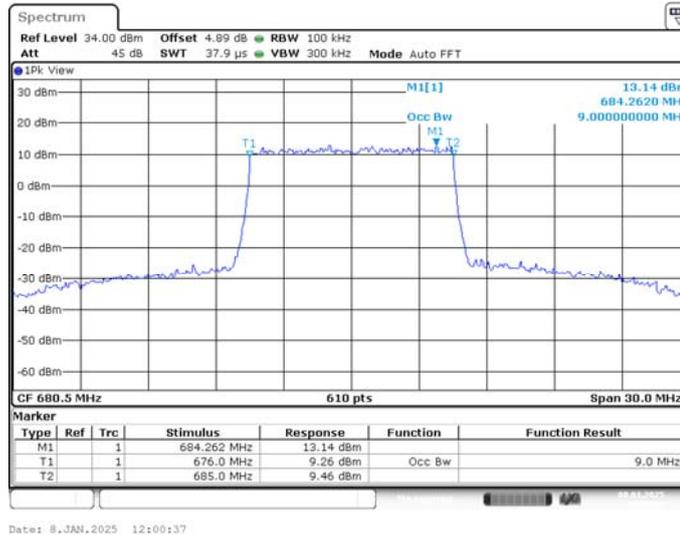


LTE band 71 , 5MHz Bandwidth,MID,16QAM (99% BW)



LTE band 71,10MHz(99%)

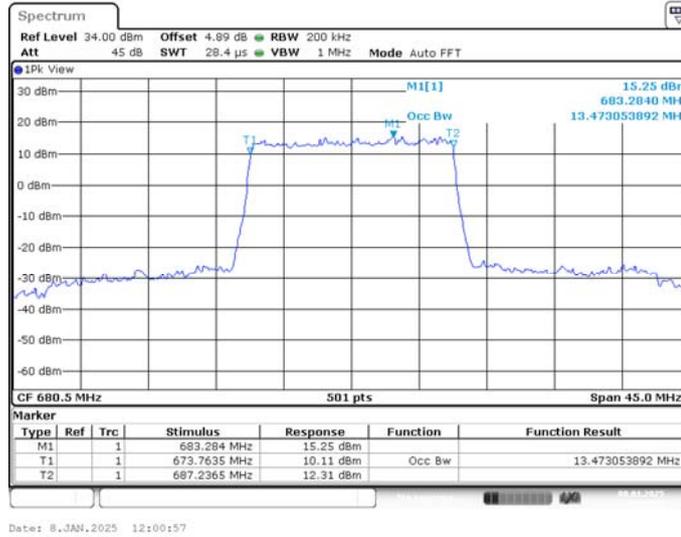
Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
680.5	9.000	9.000

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

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


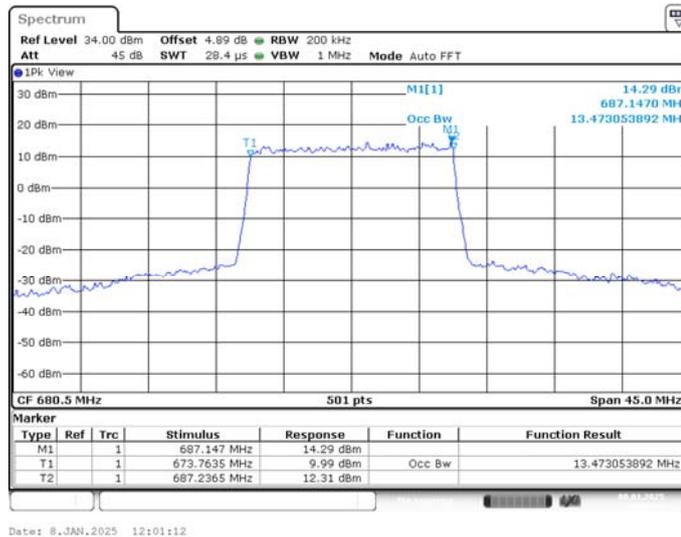
LTE band 71,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
680.5	13.473	13.473

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



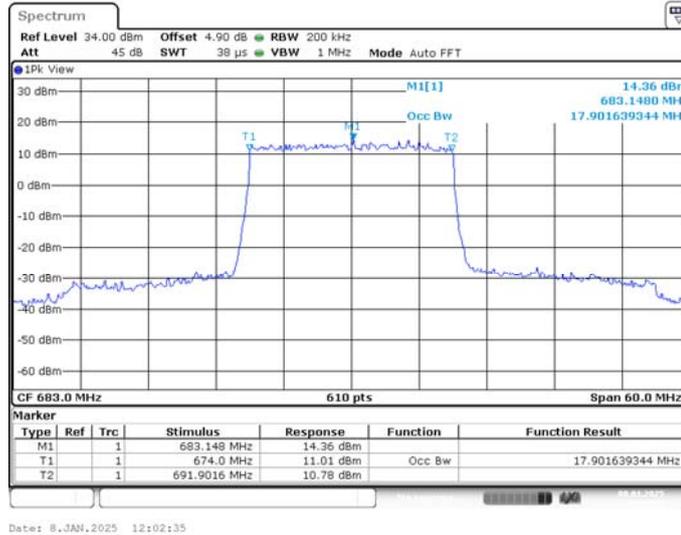
LTE band 71 , 15MHz Bandwidth,MID,16QAM (99% BW)



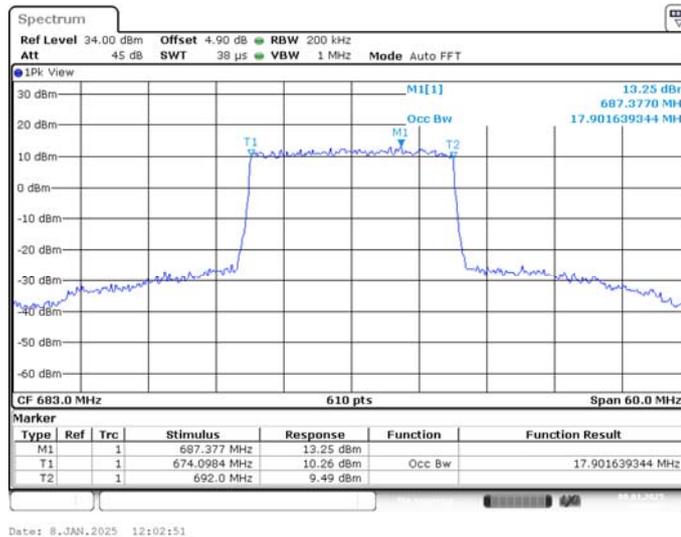
LTE band 71,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
683	17.902	17.902

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



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



A.5 Emission Bandwidth

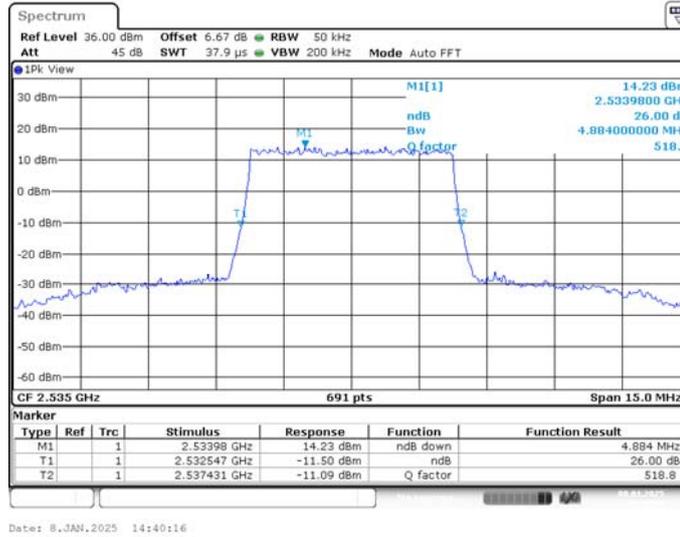
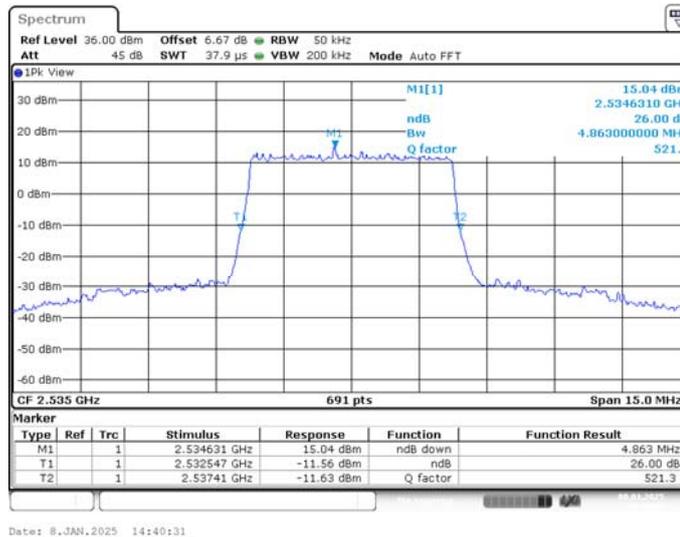
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times$ RBW.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

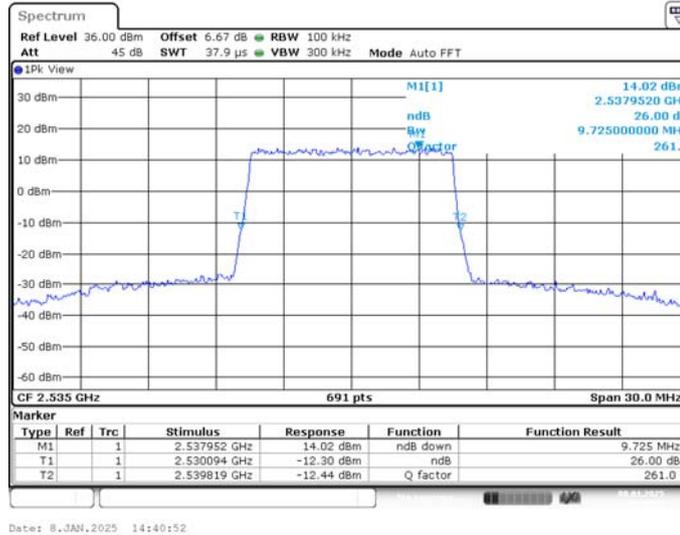
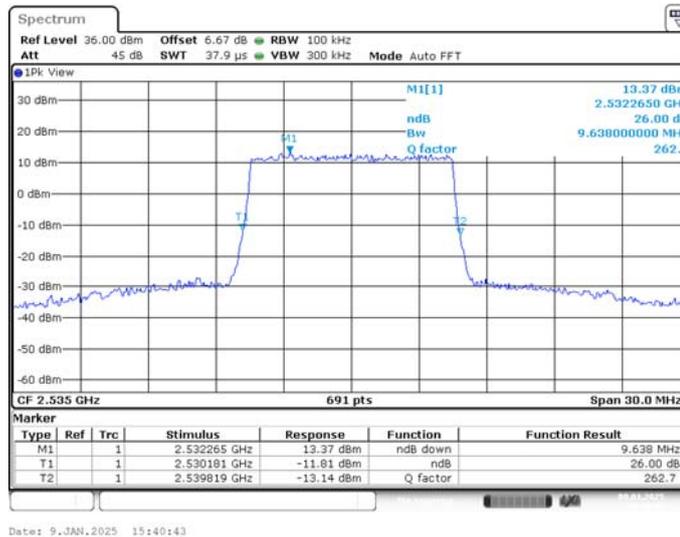
LTE band 7,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	4.884	4.863

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

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


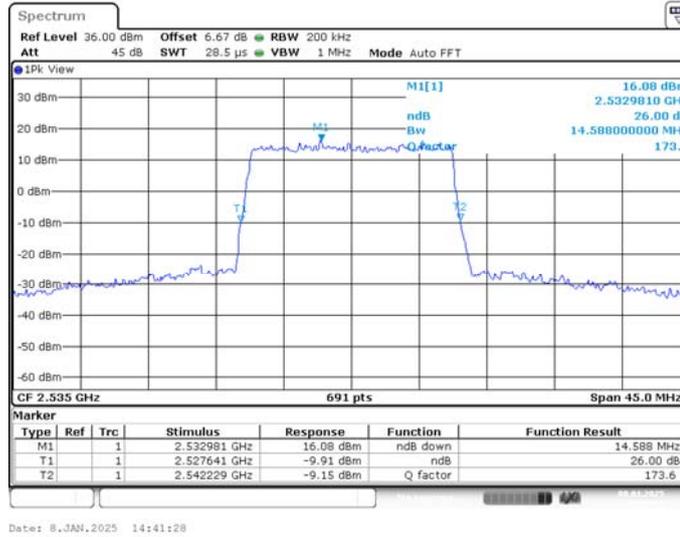
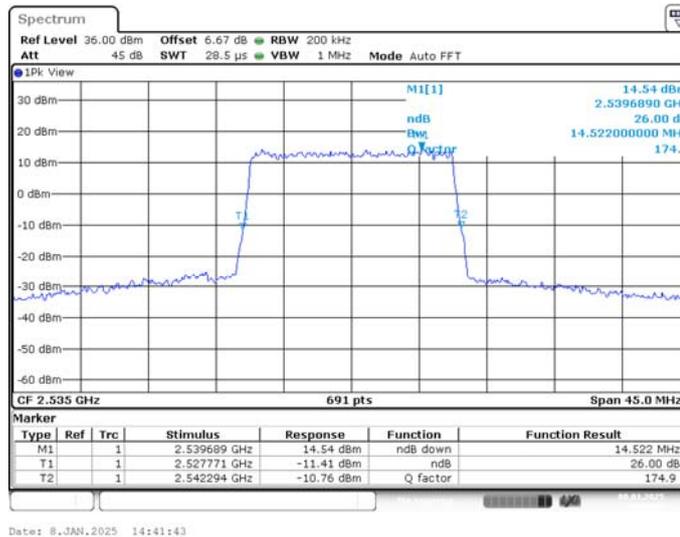
LTE band 7,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	9.725	9.638

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

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


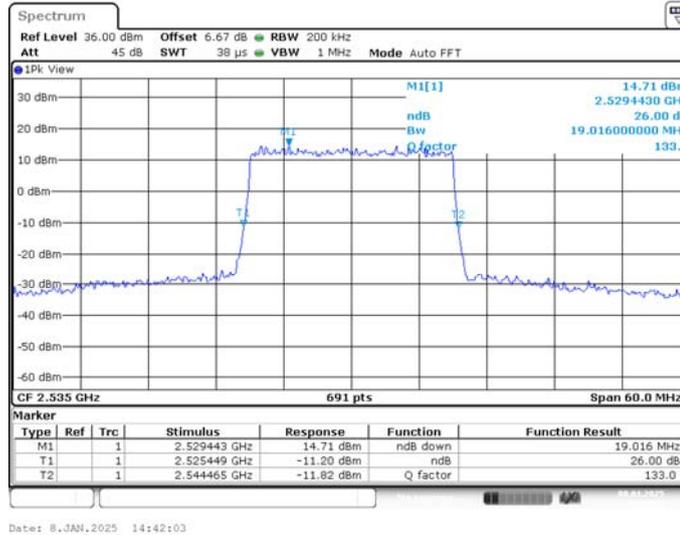
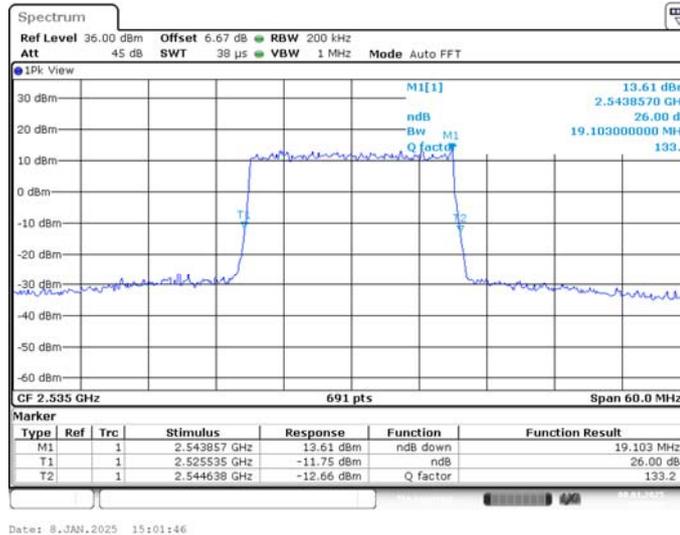
LTE band 7,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	14.588	14.522

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

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


LTE band 7,20MHz(-26dBc)

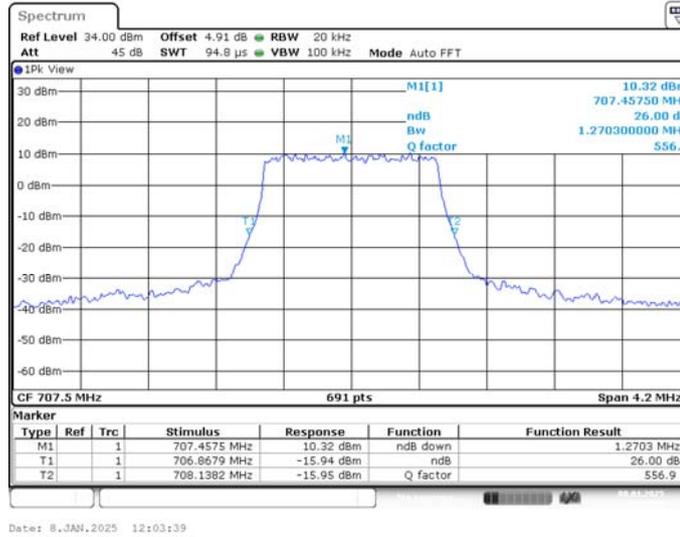
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	19.016	19.103

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

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


LTE band 12,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	1.270	1.295

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



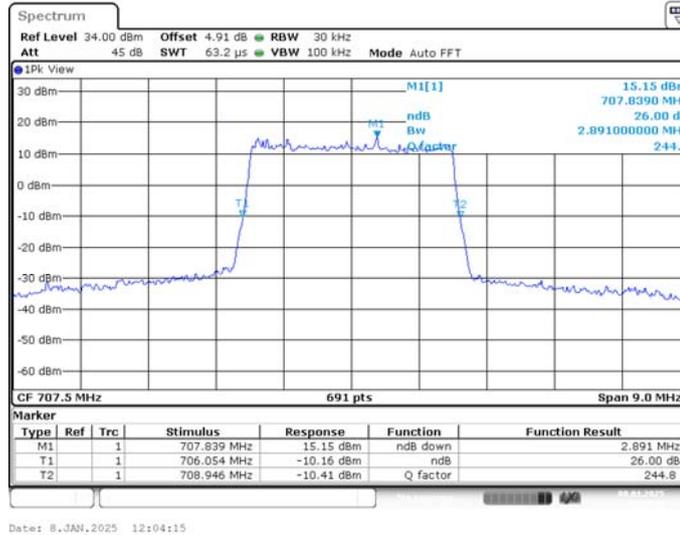
LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



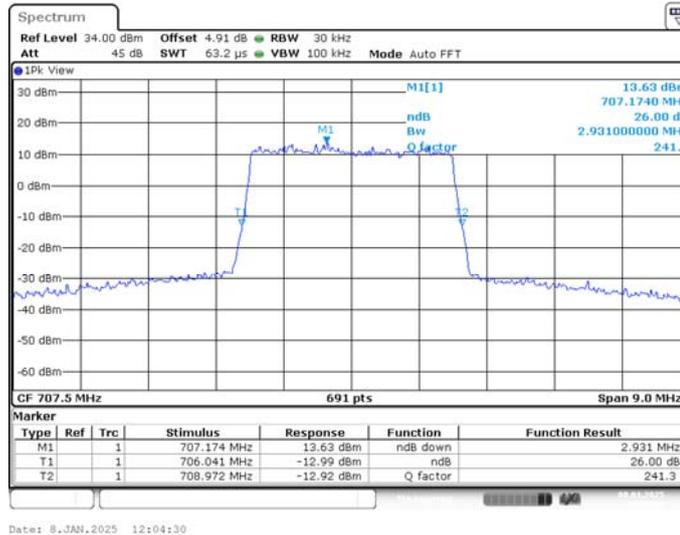
LTE band 12,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	2.891	2.931

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



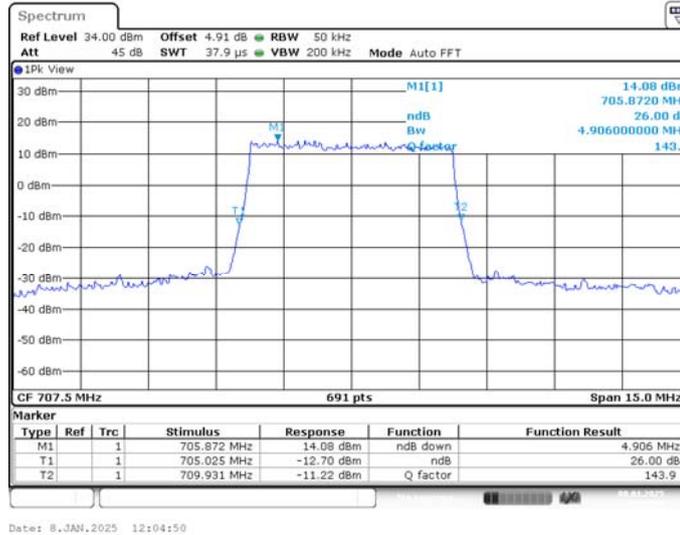
LTE band 12 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



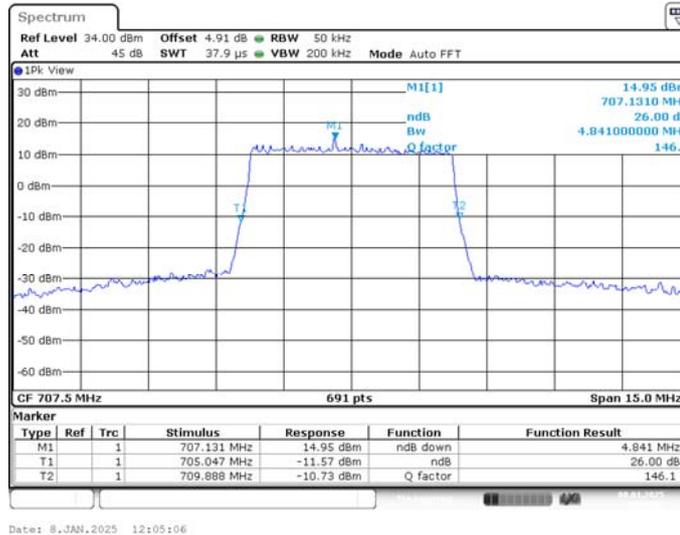
LTE band 12,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	4.906	4.841

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



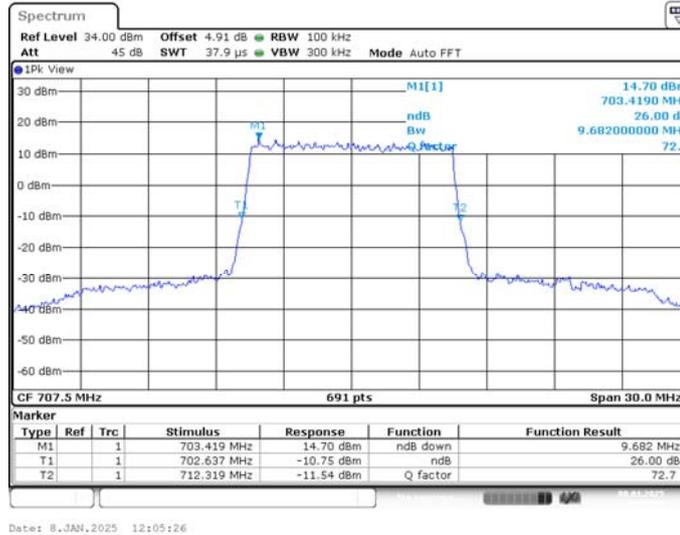
LTE band 12 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



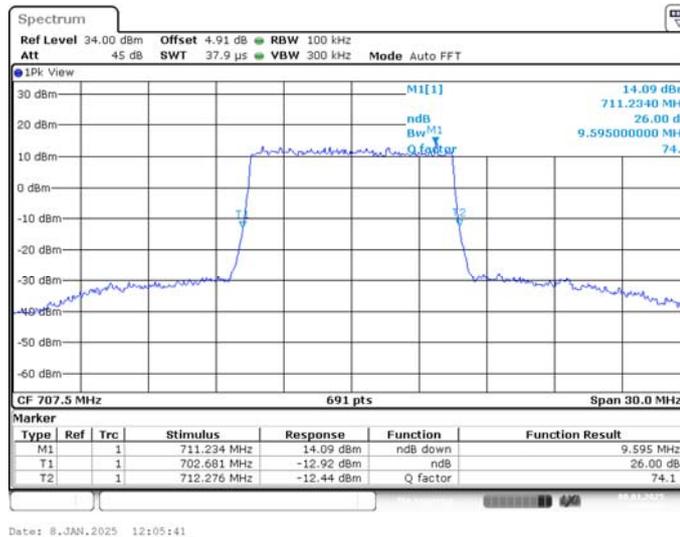
LTE band 12,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	9.682	9.595

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

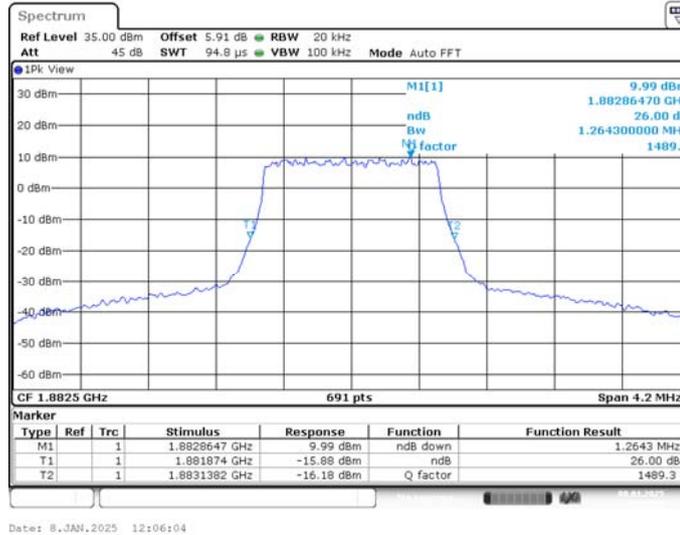
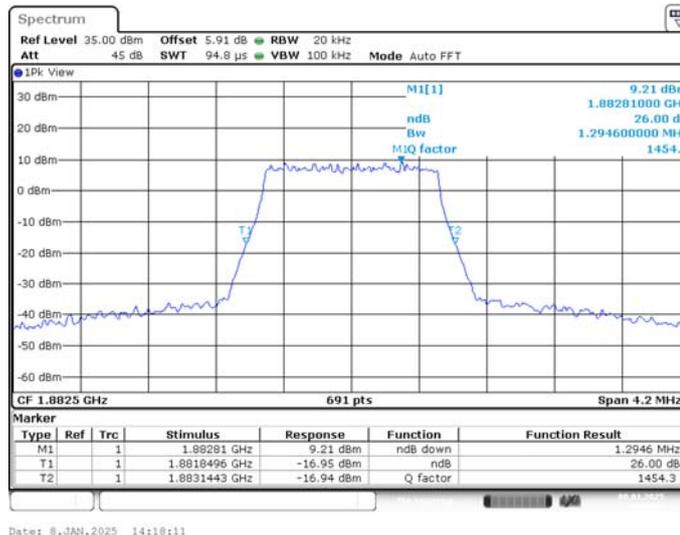


LTE band 12 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 25,1.4MHz(-26dBc)

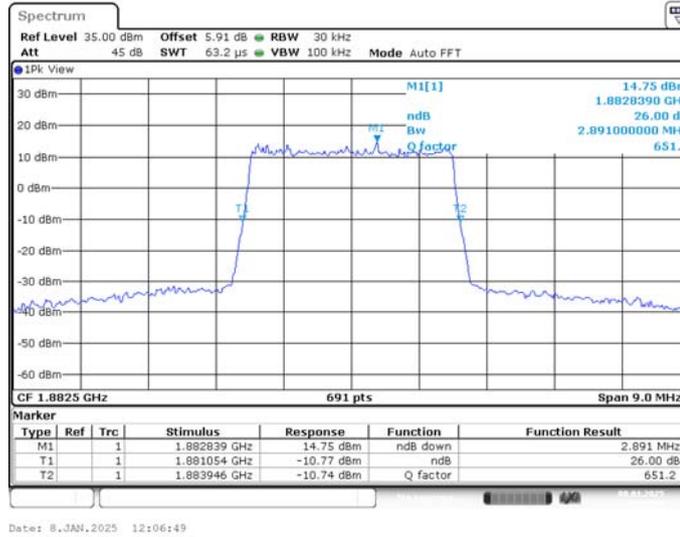
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	1.264	1.295

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

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


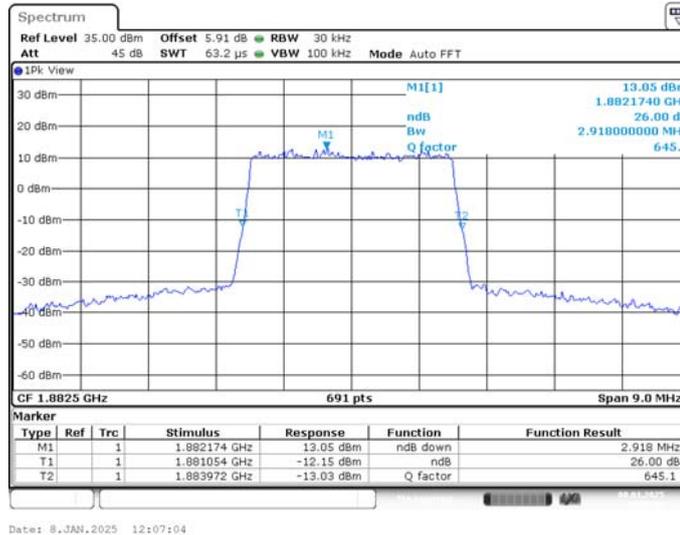
LTE band 25,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	2.891	2.918

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



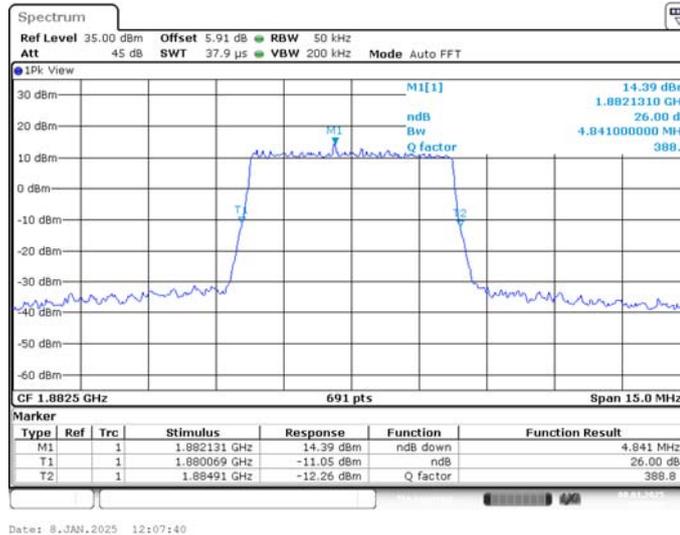
LTE band 25 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 25,5MHz(-26dBc)

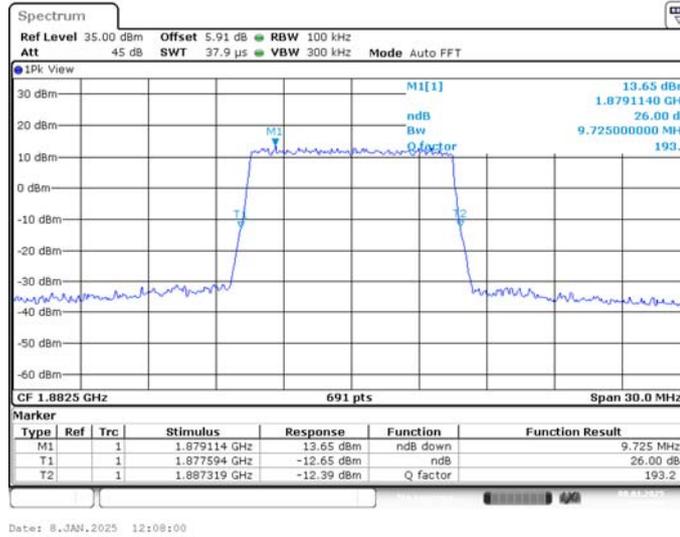
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	4.884	4.841

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

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


LTE band 25,10MHz(-26dBc)

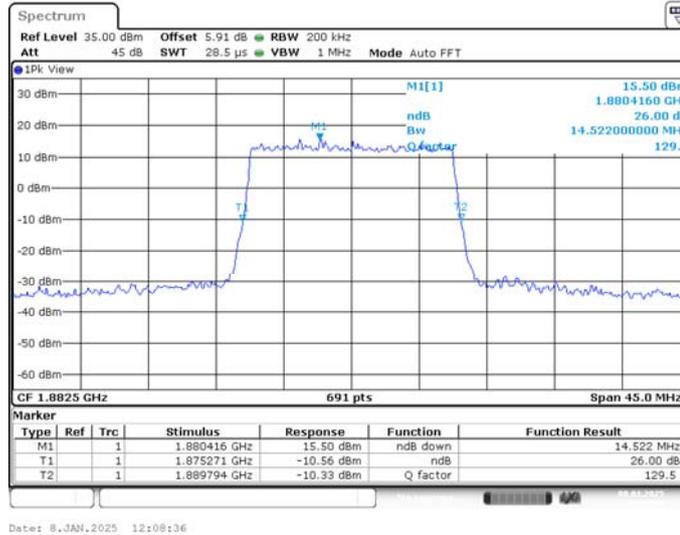
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	9.725	9.508

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

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

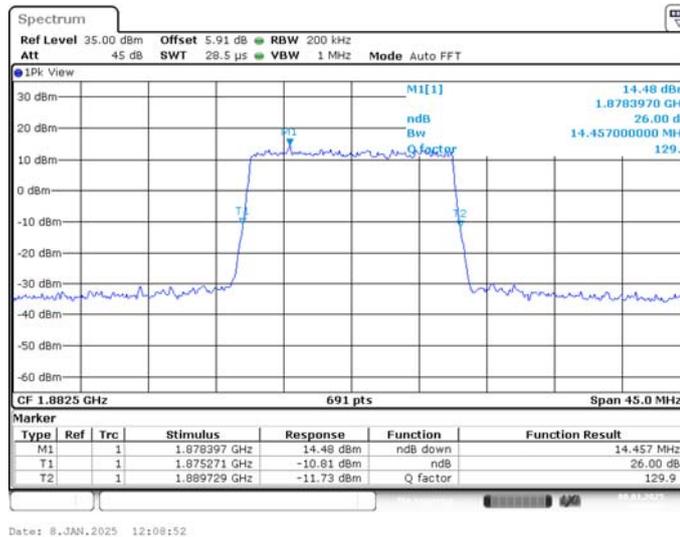

LTE band 25,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	14.522	14.457

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



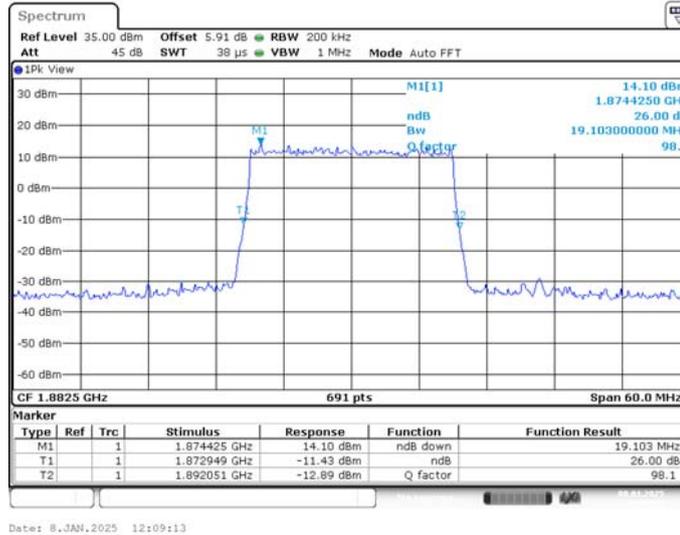
LTE band 25 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



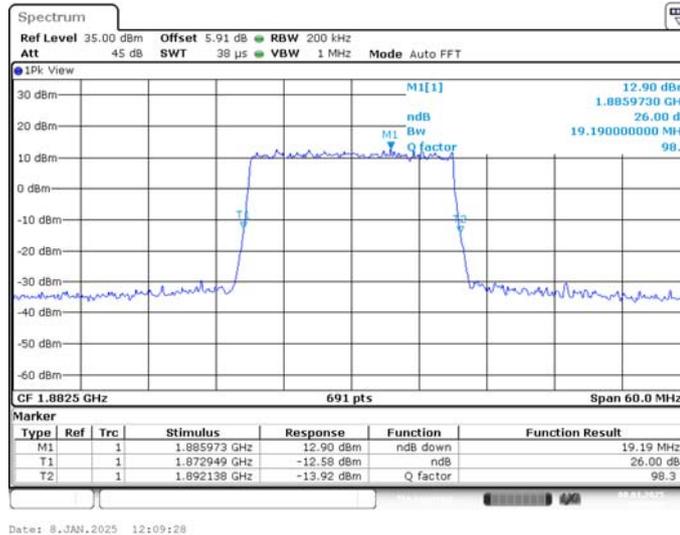
LTE band 25,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	19.103	19.190

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



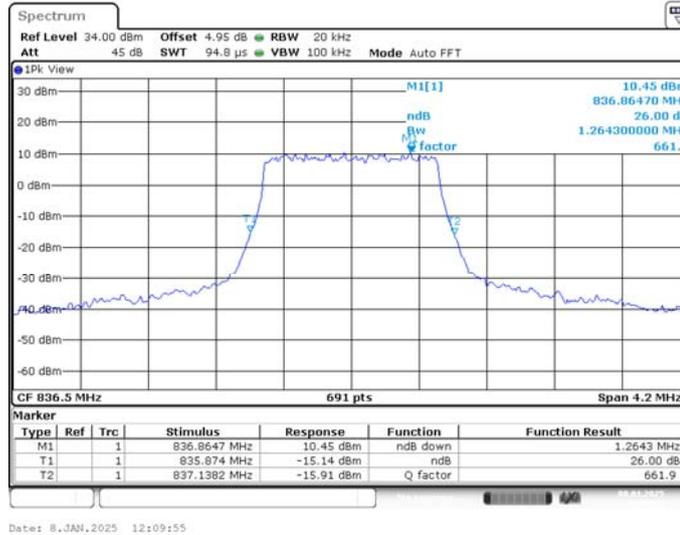
LTE band 25 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



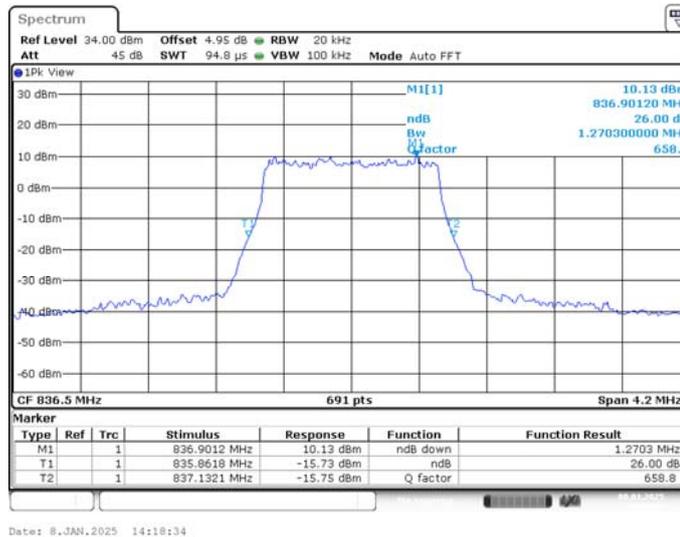
LTE band 26(824MHz~849MHz),1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	1.264	1.270

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

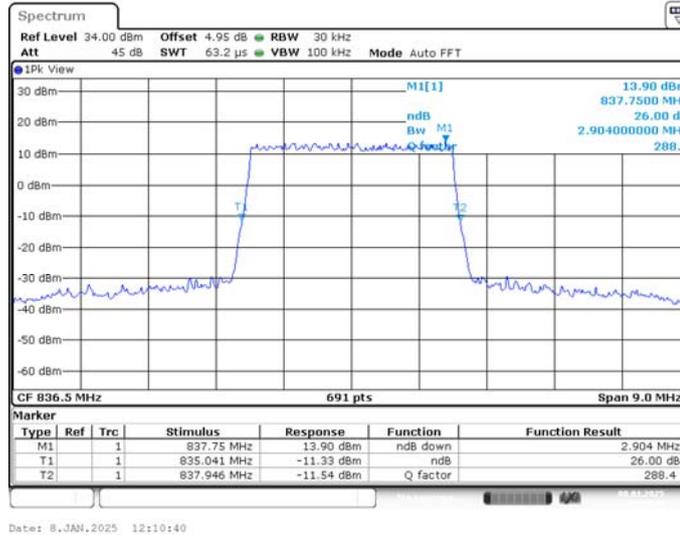
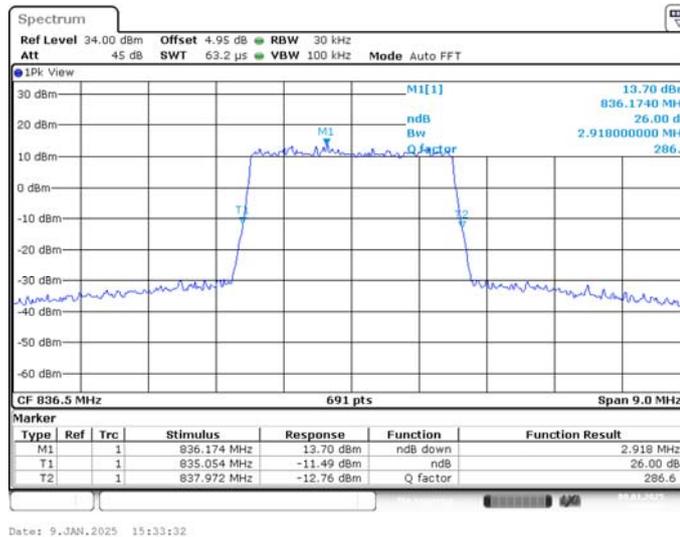


LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



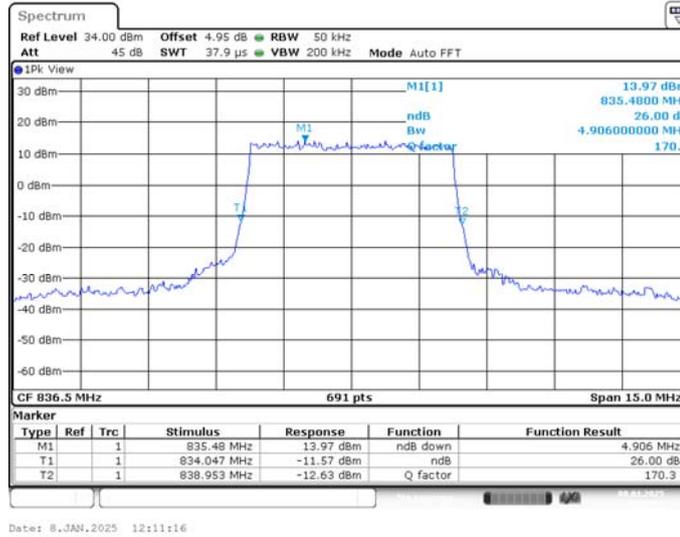
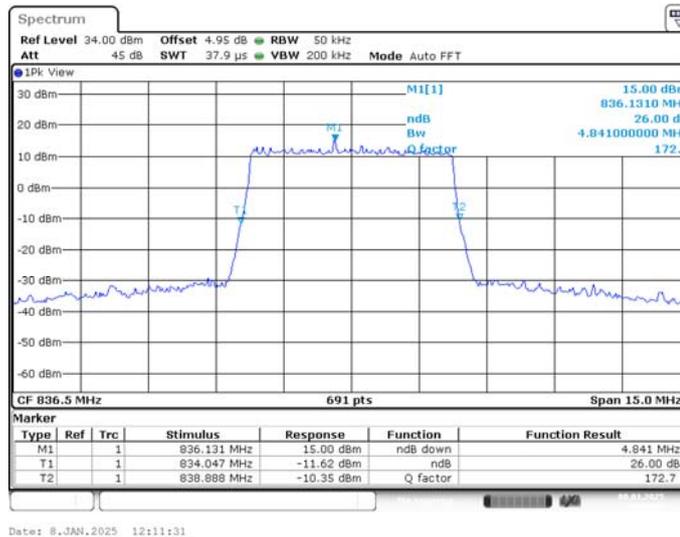
LTE band 26(824MHz~849MHz),3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	2.904	2.918

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

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


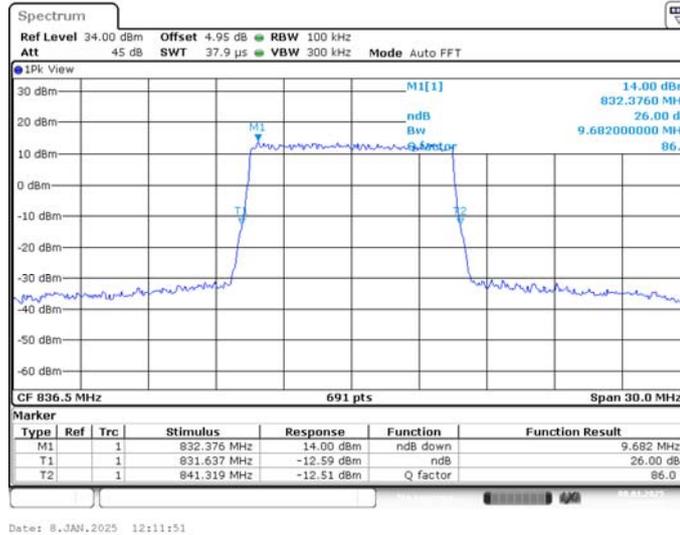
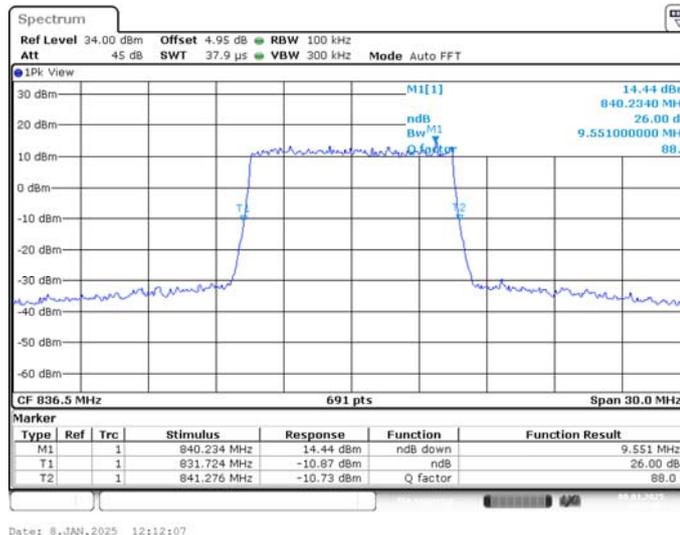
LTE band 26(824MHz~849MHz),5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	4.906	4.841

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

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


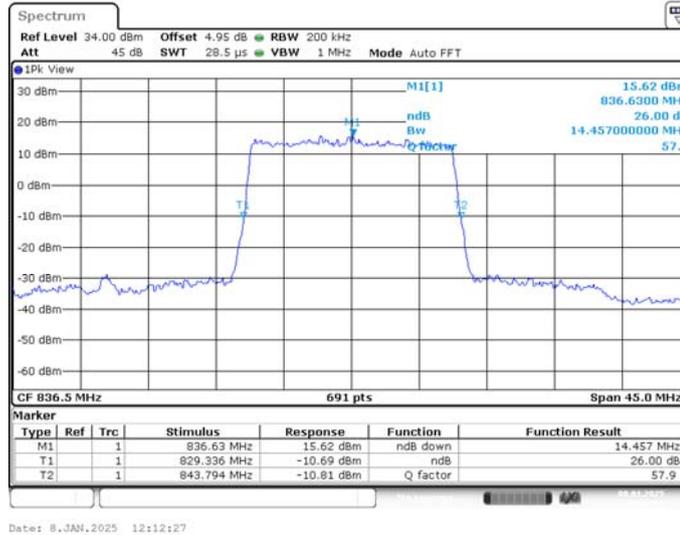
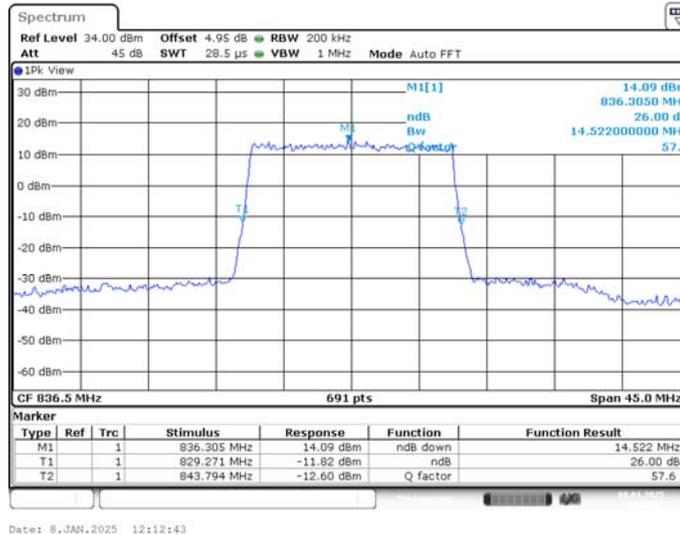
LTE band 26(824MHz~849MHz),10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	9.682	9.551

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

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


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

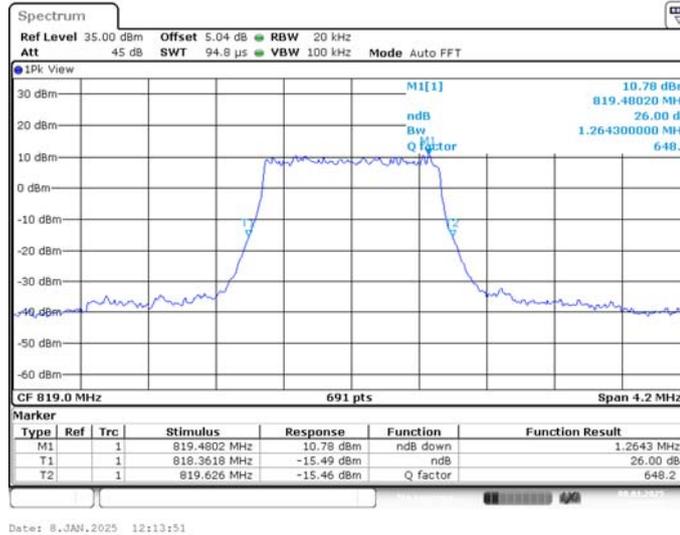
Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	14.457	14.522

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

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


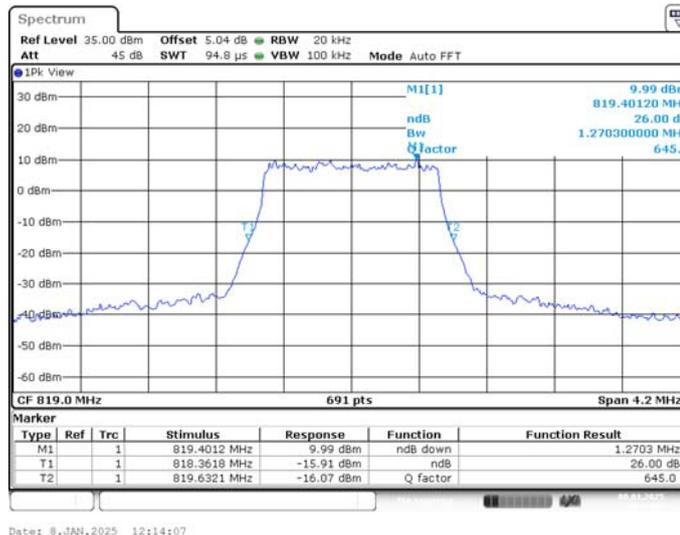
LTE band 26(814MHz~824MHz),1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	1.264	1.270

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

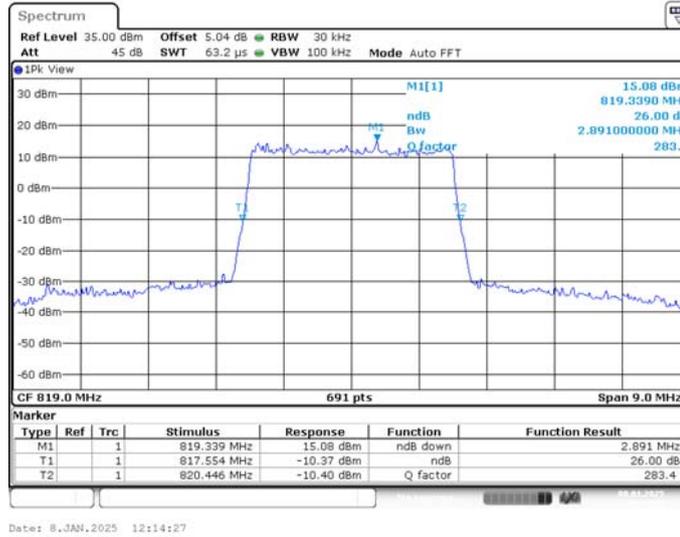


LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



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

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	2.891	2.931

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

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