



LTE TEST REPORT

No. 25T04Z100757-004

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T951P

FCC ID: 2ACCJH188

with

Hardware Version: 05

Software Version: 9ESH

Issued Date: 2025-06-27

Note:

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

Test Laboratory:

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No.25T04Z100757-004

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100757-004	Rev.0	1 st edition	2025-06-27

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

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1. Test Laboratory

1.1. Introduction & Accreditation

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

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

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

Location 2: CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35℃

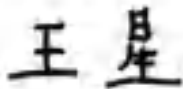
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2025-04-10

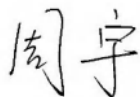
Testing End Date: 2025-06-23

1.5. Signature



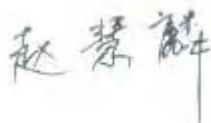
Wang Xing

(Prepared this test report)



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(Reviewed this test report)



Zhao Hui Lin

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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2.2. Manufacturer Information

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

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T951P
FCC ID	2ACCJH188
Antenna	Integral
Output power	21.36dBm/10MHz maximum EIRP measured for LTE Band 48
Extreme Voltage	3.6VDC to 4.4VDC (nominal: 3.85VDC)
Extreme Temperature	-20°C to +65°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
UT05a	356448870204014/	05	9ESH	2025-04-10
	356448870204022			
UT11a	356448870204287/	05	9ESH	2025-04-25
	356448870204345			
UT26a	356448870204493/	05	9ESH	2025-05-13
	356448870204600			

UT26a was used for emission limit test and UT05a, UT11a were used for other testing cases.

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

3.3. Internal Identification of AE used during the test

AE ID* Description

AE1 Battery

AE1

Model	TLp050D7
Manufacturer	VEKEN
Capacitance	rate 5000mAh, Typ 5200mAh

*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
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	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
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03

5. Summary of Test Result

LTE Band 7

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

LTE Band 12 (17)

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

LTE Band 13

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

LTE Band 14

Items	Test Name	Clause in FCC rules	Verdict
1	Output Power	90.542	P
2	Emission Limit	2.1051/90.543	P
3	Frequency Stability	2.1055	P
4	Occupied Bandwidth	2.1049	P
5	Emission Bandwidth	2.1049	P
6	Band Edge Compliance	90.543	P
7	Conducted Spurious Emission	90.543	P

LTE Band 25 (2)

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

LTE Band 26_Part90 (814MHz~824MHz)

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

LTE Band 26_Part22 (824MHz~849MHz) (5)

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

LTE Band 30

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

LTE Band 41 (38)

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

LTE Band 48

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

LTE Band 66 (4)

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

LTE Band 71

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

Terms used in Verdict column

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

All the test results are based on normal power.

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

LTE Band 25, Band 66, Band 26, Band 12 and Band 41 overlap the entire frequency range of LTE Band 2, Band 4, Band 5, Band 17 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38 as well as Band 25, Band 66, Band 26, Band 12 and Band 41.

LTE Band 41 is tested by power class 3.

Explanation of worst-case configuration

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

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	2026-05-05	1 year
Signal&Spectrum Analyzer	FSW	104038	R&S	2025-07-02	1 year
Climate chamber	SH-241	92004642	ESPEC	2025-10-29	1 year
PXA Signal Analyzer	N9030B	MY57142378	Keysight	2026-02-20	1 year
Spectrum Analyzer	ESW44	103144	R&S	2026-01-05	1 year
Antenna	VULB9163	9163-01223	Schwarzbeck	2025-09-19	1 year
Antenna	9117	167	Schwarzbeck	2026-10-15	3 years
Antenna	LB-7180-N F	2030013000041	A-INFO	2025-10-23	1 year
Antenna	3115	00119024	ETS-Lindgren	2025-10-23	1 year
Antenna	LB-180400 -25-C-KF	J211060826	A-INFO	2025-08-29	1 year
Antenna	3116	2663	ETS-Lindgren	2026-03-03	1 year
Radio Communication Analyzer	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.

Test Item	Test Software	Software Vendor
Emission Limit	ELEKTRA 5.00.2	R&S

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)		3.10
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	23.72	22.86	21.53	18.63
		2535.0	23.21	22.74	21.21	18.53
		2502.5	22.63	22.02	21.16	18.78
	1 RB low	2567.5	23.89	22.84	21.74	18.83
		2535.0	23.43	22.67	21.71	18.52
		2502.5	22.75	22.12	21.10	18.66
	50% RB mid	2567.5	22.69	21.59	20.56	18.55
		2535.0	22.49	21.68	20.70	18.53
		2502.5	22.75	21.99	20.04	18.50
	100% RB	2567.5	22.73	21.59	20.61	18.85
		2535.0	22.41	21.61	20.66	18.59
		2502.5	21.81	21.03	19.99	18.65
10MHz	1 RB high	2565.0	22.43	21.66	20.64	18.56
		2535.0	22.64	22.33	21.23	18.60
		2505.0	22.70	22.01	21.15	18.78
	1 RB low	2565.0	23.73	22.94	21.65	18.83
		2535.0	23.47	22.53	21.70	18.72
		2505.0	23.18	22.48	21.23	18.60
	50% RB mid	2565.0	22.74	21.56	20.55	18.81
		2535.0	22.50	21.68	20.66	18.63
		2505.0	21.88	20.99	19.96	18.71
	100% RB	2565.0	22.77	21.61	20.56	18.79

		2535.0	22.42	21.68	20.61	18.63
		2505.0	21.94	21.03	20.04	18.90
15MHz	1 RB high	2562.5	22.45	21.66	20.65	18.79
		2535.0	22.66	21.57	20.71	18.55
		2507.5	22.84	21.99	21.07	18.50
	1 RB low	2562.5	23.95	22.84	21.72	18.73
		2535.0	23.50	22.61	21.69	18.67
		2507.5	23.35	22.56	21.27	18.74
	50% RB mid	2562.5	22.70	21.46	20.50	18.84
		2535.0	22.50	21.66	20.67	18.76
		2507.5	22.00	21.03	20.03	18.79
	100% RB	2562.5	22.73	21.57	20.61	18.61
		2535.0	22.39	21.63	20.63	18.59
		2507.5	22.02	21.05	20.04	18.85
20MHz	1 RB high	2560.0	22.43	21.69	20.66	18.18
		2535.0	23.34	22.47	21.16	18.27
		2510.0	23.19	22.35	21.29	18.09
	1 RB low	2560.0	23.36	22.54	21.23	18.24
		2535.0	23.25	22.44	21.25	18.07
		2510.0	23.12	22.04	21.34	18.21
	50% RB mid	2560.0	22.19	21.13	20.13	18.04
		2535.0	22.35	21.18	20.18	17.95
		2510.0	22.09	21.22	20.19	18.18
	100% RB	2560.0	22.16	21.08	20.05	18.25
		2535.0	22.39	21.16	20.15	17.84
		2510.0	22.04	21.17	20.15	17.91

LTE band 12

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.28	22.46	21.44	18.64
		707.5	23.22	22.57	21.50	18.52
		699.7	23.36	22.60	21.47	18.74
	1 RB low	715.3	23.26	22.56	21.60	18.69
		707.5	23.39	22.61	21.61	18.56
		699.7	23.24	22.51	21.56	18.74
	50% RB mid	715.3	23.16	22.32	21.37	18.46
		707.5	23.33	22.40	21.50	18.60
		699.7	23.40	22.38	21.57	18.50
	100% RB	715.3	22.30	21.51	20.32	18.40
		707.5	22.42	21.51	20.35	18.55
		699.7	22.43	21.43	20.39	18.45
3MHz	1 RB high	714.5	23.34	22.59	21.52	18.80
		707.5	23.31	22.66	21.57	18.64
		700.5	23.42	22.54	21.62	18.74
	1 RB low	714.5	23.37	22.72	21.73	18.58
		707.5	23.34	22.59	21.57	18.51
		700.5	23.39	22.59	21.70	18.59
	50% RB mid	714.5	22.38	21.50	20.37	18.74
		707.5	22.41	21.48	20.47	18.44
		700.5	22.37	21.46	20.40	18.57
	100% RB	714.5	22.35	21.37	20.36	18.58
		707.5	22.40	21.44	20.38	18.44
		700.5	22.38	21.44	20.35	18.61
5MHz	1 RB high	713.5	23.45	22.56	21.69	18.49
		707.5	23.39	22.51	21.56	18.79
		701.5	23.37	22.60	21.51	18.72
	1 RB low	713.5	23.57	22.61	21.55	18.70
		707.5	23.48	22.69	21.63	18.60
		701.5	23.49	22.63	21.56	18.79
	50% RB mid	713.5	22.47	21.46	20.50	18.64
		707.5	22.44	21.46	20.43	18.77
		701.5	22.42	21.45	20.46	18.65
	100% RB	713.5	22.44	21.43	20.39	18.64
		707.5	22.49	21.47	20.41	18.51
		701.5	22.44	21.46	20.39	18.52
10MHz	1 RB high	711.0	23.67	22.84	21.94	18.54
		707.5	23.78	22.83	21.82	18.65
		704.0	23.72	22.95	21.84	18.45
	1 RB low	711.0	23.90	23.03	21.89	18.69

		707.5	23.89	22.99	21.97	18.75
		704.0	23.85	23.09	21.93	18.74
	50% RB mid	711.0	22.71	21.71	20.69	18.52
		707.5	22.73	21.73	20.67	18.45
		704.0	22.72	21.71	20.68	18.66
	100% RB	711.0	22.72	21.74	20.71	18.55
		707.5	22.78	21.74	20.71	18.62
		704.0	22.69	21.67	20.63	18.51

LTE band 13

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.61	22.80	21.94	18.95
		782.0	23.71	22.73	21.79	18.83
		779.5	23.52	22.84	21.79	18.81
	1 RB low	784.5	23.67	22.83	21.76	18.79
		782.0	23.70	22.58	21.89	18.79
		779.5	23.66	22.83	21.67	18.55
	50% RB mid	784.5	22.68	21.63	20.76	18.78
		782.0	22.63	21.71	20.73	18.76
		779.5	22.73	21.71	20.76	18.73
	100% RB	784.5	22.65	21.64	20.74	18.67
		782.0	22.70	21.72	20.74	18.49
		779.5	22.70	21.71	20.73	18.54
10MHz	1 RB high	782.0	23.66	22.90	21.78	18.76
	1 RB low	782.0	23.89	22.88	21.85	18.81
	50% RB mid	782.0	22.64	21.65	20.70	18.69
	100% RB	782.0	22.65	21.69	20.70	18.57

LTE band 14

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	795.5	23.23	22.26	21.39	18.31
		793.0	23.19	22.36	21.48	18.46
		790.5	23.31	22.50	21.35	18.43
	1 RB low	795.5	23.23	22.41	21.44	18.34
		793.0	23.34	22.42	21.44	18.43
		790.5	23.27	22.34	21.35	18.11
	50% RB mid	795.5	22.18	21.23	20.38	18.39
		793.0	22.27	21.31	20.42	18.57
		790.5	22.29	21.31	20.47	18.08
	100% RB	795.5	22.21	21.25	20.38	18.47
		793.0	22.26	21.29	20.40	18.39
		790.5	22.27	21.30	20.40	18.32
10MHz	1 RB high	793.0	23.32	22.60	21.43	18.19
	1 RB low	793.0	23.39	22.38	21.56	18.19
	50% RB mid	793.0	22.22	21.25	20.36	18.28
	100% RB	793.0	22.29	21.28	20.37	18.27

LTE band 25

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.07	22.12	21.14	18.88
		1882.5	22.93	22.16	21.10	18.71
		1850.7	23.01	22.24	21.13	18.70
	1 RB low	1914.3	23.09	22.16	21.18	18.88
		1882.5	22.95	22.28	21.14	18.84
		1850.7	22.93	22.12	21.20	18.68
	50% RB mid	1914.3	23.08	22.14	21.06	18.70
		1882.5	22.94	22.01	21.02	18.71
		1850.7	23.04	22.06	21.01	18.56
	100% RB	1914.3	22.02	21.11	19.97	18.72
		1882.5	21.95	21.01	19.84	18.89
		1850.7	21.99	21.05	19.93	18.61
3MHz	1 RB high	1913.5	23.01	22.27	21.19	18.59
		1882.5	22.99	22.12	21.12	18.71
		1851.5	23.06	22.15	21.16	18.61
	1 RB low	1913.5	23.15	22.38	21.26	18.70
		1882.5	22.99	22.30	21.13	18.82
		1851.5	23.17	22.28	21.11	18.68
	50% RB mid	1913.5	22.09	21.09	20.13	18.60
		1882.5	21.99	21.03	19.99	18.87
		1851.5	22.08	21.07	20.02	18.64
	100% RB	1913.5	22.11	21.09	20.10	18.75
		1882.5	21.98	20.96	19.90	18.67
		1851.5	22.08	21.04	19.98	18.56
5MHz	1 RB high	1912.5	23.05	22.21	21.26	18.64
		1882.5	23.03	22.19	21.23	18.66
		1852.5	23.02	22.22	21.18	18.54
	1 RB low	1912.5	23.11	22.45	21.37	18.59
		1882.5	23.06	22.24	21.34	18.88
		1852.5	23.04	22.22	21.18	18.89
	50% RB mid	1912.5	22.17	21.22	20.24	18.65
		1882.5	22.02	21.03	20.03	18.71
		1852.5	22.06	21.06	20.12	18.51
	100% RB	1912.5	22.23	21.22	20.19	18.61
		1882.5	22.06	21.07	20.04	18.59
		1852.5	22.10	21.04	20.05	18.82
10MHz	1 RB high	1910.0	23.25	22.34	21.31	18.71
		1882.5	23.04	22.24	21.10	18.54
		1855.0	23.14	22.26	21.19	18.83
	1 RB low	1910.0	23.17	22.36	21.34	18.62

		1882.5	23.18	22.38	21.16	18.82
		1855.0	23.11	22.25	21.23	18.62
	50% RB mid	1910.0	22.25	21.17	20.15	18.80
		1882.5	22.09	21.00	19.98	18.72
		1855.0	22.08	20.98	19.96	18.65
	100% RB	1910.0	22.22	21.16	20.14	18.86
		1882.5	22.07	21.00	20.01	18.73
		1855.0	22.08	21.03	20.03	18.85
15MHz	1 RB high	1907.5	23.15	22.48	21.46	18.56
		1882.5	23.04	22.34	21.13	18.84
		1857.5	23.18	22.28	21.25	18.74
	1 RB low	1907.5	23.12	22.47	21.28	18.64
		1882.5	23.16	22.37	21.15	18.75
		1857.5	23.14	22.23	21.20	18.60
	50% RB mid	1907.5	22.12	21.09	20.13	18.65
		1882.5	22.01	20.96	19.97	18.77
		1857.5	22.08	20.99	20.01	18.82
	100% RB	1907.5	22.16	21.18	20.17	18.86
		1882.5	22.06	21.03	20.01	18.65
		1857.5	22.09	21.05	20.02	18.61
20MHz	1 RB high	1905.0	23.45	22.70	21.60	18.64
		1882.5	23.38	22.68	21.55	18.53
		1860.0	23.51	22.70	21.54	18.47
	1 RB low	1905.0	23.41	22.59	21.53	18.30
		1882.5	23.38	22.66	21.53	18.59
		1860.0	23.22	22.45	21.36	18.48
	50% RB mid	1905.0	22.40	21.40	20.41	18.19
		1882.5	22.44	21.42	20.45	18.25
		1860.0	22.26	21.25	20.23	18.34
	100% RB	1905.0	22.40	21.41	20.40	18.43
		1882.5	22.48	21.42	20.43	18.23
		1860.0	22.30	21.27	20.30	18.23

LTE band 26_Part22

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	21.80	20.94	20.04	16.78
		836.5	21.85	21.09	20.09	16.82
		824.7	21.75	20.89	19.80	16.94
	1 RB low	848.3	21.78	20.91	19.96	16.76
		836.5	21.86	21.12	20.04	16.82
		824.7	21.74	20.96	19.72	16.96
	50% RB mid	848.3	21.92	21.09	19.79	16.94
		836.5	21.89	21.16	19.83	16.97
		824.7	21.84	21.20	19.86	16.99
	100% RB	848.3	20.93	20.13	18.88	16.94
		836.5	20.95	19.86	18.92	16.94
		824.7	21.02	19.89	18.87	16.92
3MHz	1 RB high	847.5	21.88	21.02	19.81	16.95
		836.5	21.84	20.98	19.87	16.99
		825.5	21.85	20.97	19.81	16.97
	1 RB low	847.5	21.87	21.04	19.70	16.96
		836.5	21.85	21.01	19.76	16.98
		825.5	21.87	21.03	19.72	16.98
	50% RB mid	847.5	21.00	20.06	19.06	16.99
		836.5	21.07	20.08	19.10	17.01
		825.5	21.04	20.13	18.88	16.98
	100% RB	847.5	21.00	19.97	18.99	16.96
		836.5	21.01	20.00	19.02	16.98
		825.5	21.11	20.05	19.02	16.97
5MHz	1 RB high	846.5	21.94	21.05	20.21	17.08
		836.5	21.88	21.09	20.25	17.10
		826.5	22.01	21.12	20.25	17.12
	1 RB low	846.5	21.90	21.07	20.24	17.10
		836.5	21.93	21.15	20.28	17.13
		826.5	22.02	21.10	20.28	17.11
	50% RB mid	846.5	21.03	20.08	19.10	17.02
		836.5	21.08	20.11	18.99	16.88
		826.5	20.96	20.10	19.03	17.08
	100% RB	846.5	21.09	20.05	19.05	17.06
		836.5	21.07	20.04	18.93	16.96
		826.5	21.05	19.97	19.05	17.06
10MHz	1 RB high	844.0	21.95	21.02	19.91	17.10
		836.5	21.97	21.10	19.95	17.15
		829.0	21.92	21.08	19.95	17.15
	1 RB low	844.0	21.88	21.02	19.82	17.07

		836.5	22.04	21.09	19.84	17.12
		829.0	21.95	21.04	19.84	17.07
	50% RB mid	844.0	21.06	20.10	19.13	17.09
		836.5	21.08	20.14	19.16	17.09
		829.0	21.08	20.10	19.11	17.08
	100% RB	844.0	21.13	20.15	19.13	17.10
		836.5	21.03	20.06	19.03	17.01
		829.0	21.10	20.11	19.08	17.05
15MHz	1 RB high	841.5	22.03	21.44	20.47	17.31
		836.5	22.03	21.41	20.43	17.32
		831.5	21.91	21.42	20.38	17.35
	1 RB low	841.5	22.01	21.45	20.36	17.33
		836.5	22.06	21.47	20.40	17.34
		831.5	21.99	21.40	20.37	17.24
	50% RB mid	841.5	21.00	20.17	19.05	16.96
		836.5	21.05	20.03	19.04	16.96
		831.5	21.05	20.06	19.12	17.07
	100% RB	841.5	21.03	20.03	19.03	17.09
		836.5	21.13	20.13	19.00	17.07
		831.5	21.16	20.15	19.19	17.18

LTE band 26_Part90

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	21.87	21.06	19.91	17.03
		819.0	21.80	21.12	20.13	16.86
		814.7	21.83	21.03	20.39	17.10
	1 RB low	823.3	21.84	20.99	19.82	16.97
		819.0	21.83	21.15	20.04	16.84
		814.7	21.81	21.01	20.28	17.11
	50% RB mid	823.3	21.95	21.20	19.86	16.99
		819.0	21.91	21.19	20.18	16.90
		814.7	21.95	21.21	19.93	17.02
	100% RB	823.3	21.04	20.22	18.94	16.98
		819.0	20.98	20.17	18.91	16.92
		814.7	21.02	20.20	19.00	16.95
3MHz	1 RB high	822.5	21.86	21.02	19.84	17.01
		819.0	21.83	20.99	19.88	17.00
		815.5	21.87	21.05	19.94	17.05
	1 RB low	822.5	21.89	20.99	19.76	16.93
		819.0	21.83	21.04	19.75	17.00
		815.5	21.87	21.04	19.83	17.01
	50% RB mid	822.5	20.93	19.97	19.02	16.98
		819.0	20.93	20.02	19.09	17.03
		815.5	21.07	20.10	19.02	17.06
	100% RB	822.5	20.94	19.89	18.99	16.96
		819.0	20.92	19.95	19.01	16.99
		815.5	21.07	19.97	19.08	17.05
5MHz	1 RB high	821.5	21.94	21.06	20.25	17.09
		819.0	21.99	21.03	20.24	17.05
		816.5	21.92	20.91	20.27	17.13
	1 RB low	821.5	21.84	21.06	20.27	17.08
		819.0	21.88	21.12	20.25	17.14
		816.5	21.94	20.88	20.32	17.12
	50% RB mid	821.5	20.96	20.07	19.13	17.09
		819.0	21.00	20.06	19.15	17.09
		816.5	21.03	20.08	19.16	17.10
	100% RB	821.5	21.00	19.93	19.03	17.00
		819.0	20.99	19.96	19.02	17.00
		816.5	21.09	20.05	19.13	17.10
10MHz	1 RB high	819.0	21.99	21.06	19.95	17.16
	1 RB low	819.0	21.91	21.04	19.85	17.10
	50% RB mid	819.0	20.99	20.10	19.08	17.09
	100% RB	819.0	20.96	19.99	18.98	16.97

LTE band 30

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.64	21.78	20.75	17.76
		2310.0	22.79	21.95	20.72	17.78
		2307.5	22.79	22.03	20.88	17.85
	1 RB low	2312.5	22.75	21.99	20.89	17.82
		2310.0	22.80	22.12	21.04	17.91
		2307.5	22.83	22.06	20.97	17.88
	50% RB mid	2312.5	21.64	20.72	19.76	17.72
		2310.0	21.75	20.81	19.83	18.06
		2307.5	21.83	20.82	19.88	18.07
	100% RB	2312.5	21.68	20.78	19.73	17.55
		2310.0	21.80	20.84	19.80	17.52
		2307.5	21.81	20.85	19.77	17.48
10MHz	1 RB high	2310.0	22.70	21.81	20.90	17.75
	1 RB low	2310.0	22.87	22.12	21.02	17.90
	50% RB mid	2310.0	21.75	20.81	19.79	17.85
	100% RB	2310.0	21.83	20.84	19.82	17.90

LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	22.74	22.08	20.92	17.37
		2593.0	22.40	21.30	20.46	17.48
		2498.5	22.73	21.75	20.41	17.39
	1 RB low	2687.5	22.74	22.01	20.83	17.56
		2593.0	22.43	21.39	20.35	17.68
		2498.5	22.73	21.68	20.34	17.49
	50% RB mid	2687.5	22.14	21.12	20.21	17.36
		2593.0	21.31	20.25	19.32	17.56
		2498.5	21.78	20.70	19.77	17.37
	100% RB	2687.5	22.14	21.21	20.18	17.80
		2593.0	21.29	20.29	19.29	17.53
		2498.5	21.73	20.75	19.72	17.24
10MHz	1 RB high	2685.0	22.53	22.12	20.85	17.79
		2593.0	22.71	21.31	20.33	17.61
		2501.0	22.10	21.93	20.61	17.34
	1 RB low	2685.0	22.55	21.97	20.75	17.34
		2593.0	22.81	21.46	20.06	17.76
		2501.0	22.12	21.74	20.38	17.44
	50% RB mid	2685.0	21.66	21.12	20.14	17.78
		2593.0	21.56	20.28	19.31	17.30
		2501.0	21.11	20.81	19.81	17.36
	100% RB	2685.0	21.65	21.15	20.13	17.43
		2593.0	21.61	20.34	19.31	17.22
		2501.0	21.13	20.84	19.80	17.70
15MHz	1 RB high	2682.5	22.71	22.06	20.90	17.25
		2593.0	22.41	21.25	20.32	17.39
		2503.5	22.82	22.08	20.70	17.39
	1 RB low	2682.5	22.72	21.86	20.67	17.62
		2593.0	22.52	21.47	20.06	17.64
		2503.5	22.80	21.73	20.34	17.47
	50% RB mid	2682.5	21.98	21.00	20.03	17.57
		2593.0	21.24	20.21	19.24	17.50
		2503.5	21.89	20.86	19.88	17.28
	100% RB	2682.5	22.01	21.07	20.07	17.44
		2593.0	21.27	20.29	19.27	17.47
		2503.5	21.88	20.90	19.89	17.49
20MHz	1 RB high	2680.0	22.78	22.15	20.90	17.75
		2593.0	22.44	21.29	20.03	17.14
		2506.0	22.74	22.02	20.58	17.51
	1 RB low	2680.0	22.97	21.99	20.63	17.80

		2593.0	22.58	21.58	20.17	17.34
		2506.0	22.72	21.70	20.34	17.28
	50% RB mid	2680.0	22.12	21.20	20.18	17.71
		2593.0	21.40	20.41	19.39	17.38
		2506.0	21.87	20.89	19.85	17.56
	100% RB	2680.0	22.12	21.17	20.18	18.14
		2593.0	21.39	20.39	19.36	17.08
		2506.0	21.87	20.88	19.82	17.57

LTE band 48

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.78	22.77	21.40	18.55
		3625.0	22.88	21.90	20.52	18.44
		3552.5	22.44	21.46	20.09	18.24
	1 RB low	3697.5	23.78	22.74	21.35	18.22
		3625.0	22.81	21.81	20.44	18.20
		3552.5	22.42	21.45	20.09	18.22
	50% RB mid	3697.5	22.71	21.67	20.72	18.42
		3625.0	22.80	21.76	20.63	18.38
		3552.5	22.42	21.34	20.52	18.45
	100% RB	3697.5	22.72	21.72	20.75	18.53
		3625.0	21.83	20.85	19.86	18.28
		3552.5	21.42	20.41	19.44	18.40
10MHz	1 RB high	3695.0	23.79	22.77	21.38	18.37
		3625.0	22.97	21.97	20.59	18.54
		3555.0	22.40	21.43	20.06	18.39
	1 RB low	3695.0	23.68	22.70	21.32	18.45
		3625.0	22.73	21.75	20.36	18.41
		3555.0	22.42	21.46	20.08	18.23
	50% RB mid	3695.0	22.65	21.67	20.68	18.26
		3625.0	21.77	20.76	19.79	18.42
		3555.0	21.35	20.36	19.38	18.26
	100% RB	3695.0	22.64	21.69	20.66	18.44
		3625.0	21.77	20.82	19.78	18.57
		3555.0	21.37	20.40	19.36	18.44
15MHz	1 RB high	3692.5	23.80	22.81	21.41	18.30
		3625.0	22.98	22.03	20.64	18.38
		3557.5	22.43	21.45	20.07	18.59
	1 RB low	3692.5	23.70	22.71	21.31	18.59
		3625.0	22.70	21.74	20.35	18.36
		3557.5	22.46	21.48	20.10	18.57
	50% RB mid	3692.5	22.68	21.67	20.67	18.32
		3625.0	21.79	20.78	19.81	18.35
		3557.5	21.39	20.35	19.39	18.21
	100% RB	3692.5	22.68	21.74	20.74	18.49
		3625.0	21.82	20.86	19.85	18.49
		3557.5	21.38	20.45	19.44	18.48
20MHz	1 RB high	3690.0	23.59	22.44	21.09	18.24
		3625.0	22.75	21.89	20.46	18.30

	1 RB low	3560.0	22.10	21.18	20.03	18.50
		3690.0	23.43	22.31	20.94	18.43
		3625.0	22.49	21.64	20.26	18.30
		3560.0	22.15	21.23	20.03	18.49
	50% RB mid	3690.0	22.30	21.37	20.36	18.48
		3625.0	21.62	20.67	19.76	18.32
		3560.0	21.11	20.15	19.23	18.33
	100% RB	3690.0	22.30	21.40	20.30	18.36
		3625.0	21.59	20.72	19.73	18.35
		3560.0	21.10	20.16	19.23	18.29

LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.29	22.52	21.37	18.47
		1745.0	23.25	22.61	21.49	18.55
		1710.7	23.41	22.69	21.64	18.41
	1 RB low	1779.3	23.41	22.57	21.36	18.46
		1745.0	23.34	22.50	21.45	18.53
		1710.7	23.46	22.56	21.56	18.44
	50% RB mid	1779.3	23.26	22.35	21.33	18.37
		1745.0	23.29	22.25	21.33	18.40
		1710.7	23.46	22.40	21.42	18.58
	100% RB	1779.3	22.25	21.33	20.25	18.52
		1745.0	22.30	21.36	20.21	18.32
		1710.7	22.43	21.53	20.38	18.52
3MHz	1 RB high	1778.5	23.12	22.34	21.45	18.43
		1745.0	23.24	22.49	21.50	18.44
		1711.5	23.29	22.56	21.49	18.23
	1 RB low	1778.5	23.11	22.43	21.34	18.37
		1745.0	23.31	22.62	21.49	18.57
		1711.5	23.47	22.64	21.61	18.41
	50% RB mid	1778.5	22.24	21.27	20.23	18.51
		1745.0	22.29	21.38	20.28	18.35
		1711.5	22.37	21.47	20.39	18.22
	100% RB	1778.5	22.23	21.23	20.19	18.32
		1745.0	22.25	21.28	20.29	18.53
		1711.5	22.39	21.40	20.37	18.30
5MHz	1 RB high	1777.5	23.33	22.48	21.49	18.44
		1745.0	23.44	22.56	21.45	18.49
		1712.5	23.42	22.69	21.56	18.20
	1 RB low	1777.5	23.44	22.49	21.44	18.52
		1745.0	23.52	22.75	21.49	18.22
		1712.5	23.41	22.75	21.59	18.45
	50% RB mid	1777.5	22.34	21.30	20.29	18.24
		1745.0	22.37	21.38	20.31	18.25
		1712.5	22.44	21.43	20.44	18.21
	100% RB	1777.5	22.31	21.32	20.19	18.58
		1745.0	22.38	21.37	20.33	18.60
		1712.5	22.47	21.40	20.40	18.38
10MHz	1 RB high	1775.0	23.33	22.57	21.43	18.37
		1745.0	23.42	22.60	21.52	18.25
		1715.0	23.38	22.48	21.46	18.22
	1 RB low	1775.0	23.38	22.66	21.43	18.24

		1745.0	23.40	22.65	21.58	18.35
		1715.0	23.62	22.68	21.67	18.46
	50% RB mid	1775.0	22.33	21.32	20.31	18.50
		1745.0	22.36	21.34	20.29	18.57
		1715.0	22.44	21.40	20.40	18.50
	100% RB	1775.0	22.32	21.30	20.30	18.31
		1745.0	22.36	21.35	20.35	18.23
		1715.0	22.41	21.42	20.41	18.55
15MHz	1 RB high	1772.5	23.44	22.60	21.44	18.37
		1745.0	23.46	22.72	21.53	18.43
		1717.5	23.42	22.59	21.45	18.31
	1 RB low	1772.5	23.33	22.51	21.47	18.58
		1745.0	23.37	22.66	21.57	18.49
		1717.5	23.54	22.74	21.66	18.27
	50% RB mid	1772.5	22.28	21.26	20.26	18.45
		1745.0	22.29	21.31	20.31	18.37
		1717.5	22.31	21.30	20.30	18.48
	100% RB	1772.5	22.32	21.32	20.31	18.56
		1745.0	22.34	21.36	20.34	18.52
		1717.5	22.36	21.38	20.37	18.33
20MHz	1 RB high	1770.0	23.25	22.54	21.36	18.54
		1745.0	23.62	22.77	21.65	18.50
		1720.0	23.51	22.79	21.57	18.49
	1 RB low	1770.0	23.46	22.73	21.65	18.69
		1745.0	23.69	22.87	21.65	18.49
		1720.0	23.66	22.96	21.68	18.51
	50% RB mid	1770.0	22.32	21.33	20.31	18.40
		1745.0	22.55	21.54	20.53	18.66
		1720.0	22.46	21.49	20.48	18.44
	100% RB	1770.0	22.38	21.40	20.37	18.36
		1745.0	22.56	21.54	20.51	18.56
		1720.0	22.49	21.43	20.48	18.34

LTE band 71

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.04	22.50	21.40	18.57
		680.5	23.09	22.63	21.36	18.22
		665.5	23.06	22.31	21.48	18.60
	1 RB low	695.5	23.12	22.53	21.50	18.40
		680.5	23.12	22.59	21.42	18.42
		665.5	23.07	22.58	21.61	18.20
	50% RB mid	695.5	23.08	22.09	21.07	18.53
		680.5	23.08	22.10	20.98	18.38
		665.5	23.11	22.13	21.03	18.30
	100% RB	695.5	22.33	21.35	20.36	18.36
		680.5	22.28	21.25	20.26	18.46
		665.5	22.33	21.27	20.25	18.42
10MHz	1 RB high	693.0	23.09	22.48	21.47	18.42
		680.5	23.10	22.57	21.48	18.22
		668.0	23.13	22.49	21.34	18.25
	1 RB low	693.0	23.16	22.49	21.43	18.26
		680.5	23.11	22.49	21.43	18.52
		668.0	23.14	22.63	21.54	18.32
	50% RB mid	693.0	22.24	21.22	20.19	18.35
		680.5	22.25	21.19	20.20	18.37
		668.0	22.29	21.26	20.24	18.53
	100% RB	693.0	22.22	21.20	20.16	18.58
		680.5	22.22	21.20	20.17	18.37
		668.0	22.20	21.24	20.16	18.33
15MHz	1 RB high	690.5	23.05	22.52	21.47	18.24
		680.5	23.08	22.62	21.39	18.42
		670.5	23.18	22.40	21.40	18.53
	1 RB low	690.5	23.22	22.56	21.51	18.52
		680.5	23.24	22.50	21.47	18.60
		670.5	23.14	22.63	21.48	18.33
	50% RB mid	690.5	22.31	21.35	20.33	18.59
		680.5	22.28	21.28	20.31	18.36
		670.5	22.26	21.25	20.28	18.21
	100% RB	690.5	22.35	21.35	20.34	18.42
		680.5	22.30	21.29	20.26	18.25
		670.5	22.30	21.30	20.26	18.60
20MHz	1 RB high	688.0	23.18	22.46	21.47	18.50
		680.5	23.14	22.40	21.41	18.19
		673.0	23.10	22.51	21.42	18.47
	1 RB low	688.0	23.29	22.49	21.54	18.58

		680.5	23.19	22.53	21.45	18.47
		673.0	23.23	22.67	21.56	18.33
	50% RB mid	688.0	22.38	21.39	20.39	18.21
		680.5	22.34	21.34	20.31	18.19
		673.0	22.30	21.28	20.28	18.26
	100% RB	688.0	22.38	21.36	20.31	18.40
		680.5	22.29	21.27	20.24	18.35
		673.0	22.30	21.29	20.30	18.28

LTE CA band 7C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
10MHz/20MHz	2525.6	2540.0	QPSK	1	49	1	0	22.62
			QPSK	50	0	100	0	20.59
			16QAM	1	49	1	0	21.64
			16QAM	50	0	100	0	19.63
			64QAM	1	49	1	0	19.43
			64QAM	50	0	100	0	19.69
			256QAM	1	49	1	0	17.60
			256QAM	50	0	100	0	17.65
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	22.75
			QPSK	75	0	50	0	20.71
			16QAM	1	74	1	0	21.40
			16QAM	75	0	50	0	19.78
			64QAM	1	74	1	0	19.35
			64QAM	75	0	50	0	19.72
			256QAM	1	74	1	0	17.58
			256QAM	75	0	50	0	17.71
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	22.81
			QPSK	75	0	75	0	20.61
			16QAM	1	74	1	0	21.44
			16QAM	75	0	75	0	19.66
			64QAM	1	74	1	0	19.67
			64QAM	75	0	75	0	19.67
			256QAM	1	74	1	0	17.64
			256QAM	75	0	75	0	17.64
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	22.79
			QPSK	75	0	100	0	20.67
			16QAM	1	74	1	0	21.44
			16QAM	75	0	100	0	19.66
			64QAM	1	74	1	0	19.69
			64QAM	75	0	100	0	19.67
			256QAM	1	74	1	0	17.60
			256QAM	75	0	100	0	17.68
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	22.88
			QPSK	100	0	50	0	20.75
			16QAM	1	99	1	0	21.66
			16QAM	100	0	50	0	19.76
			64QAM	1	99	1	0	19.77
			64QAM	100	0	50	0	19.81
			256QAM	1	99	1	0	17.51
			256QAM	100	0	50	0	17.75

20MHz/15MHz	2527.6	2544.7	QPSK	1	99	1	0	22.90
			QPSK	100	0	75	0	20.77
			16QAM	1	99	1	0	21.71
			16QAM	100	0	75	0	19.77
			64QAM	1	99	1	0	19.50
			64QAM	100	0	75	0	19.79
			256QAM	1	99	1	0	17.60
			256QAM	100	0	75	0	17.76
20MHz/20MHz	2525.1	2544.9	QPSK	1	99	1	0	22.94
			QPSK	100	0	100	0	20.79
			16QAM	1	99	1	0	21.85
			16QAM	100	0	100	0	19.77
			64QAM	1	99	1	0	19.83
			64QAM	100	0	100	0	19.82
			256QAM	1	99	1	0	17.64
			256QAM	100	0	100	0	17.72

LTE CA band 48C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	3615.8	3627.5	QPSK	1	24	1	0	22.25
			QPSK	25	0	100	0	20.37
			16QAM	1	24	1	0	21.24
			16QAM	25	0	100	0	19.44
			64QAM	1	24	1	0	19.16
			64QAM	25	0	100	0	19.43
			256QAM	1	24	1	0	17.29
			256QAM	25	0	100	0	17.41
10MHz/20MHz	3615.6	3630.0	QPSK	1	49	1	0	22.50
			QPSK	50	0	100	0	20.43
			16QAM	1	49	1	0	21.38
			16QAM	50	0	100	0	19.44
			64QAM	1	49	1	0	19.16
			64QAM	50	0	100	0	19.45
			256QAM	1	49	1	0	17.30
			256QAM	50	0	100	0	17.42
15MHz/20MHz	3615.3	3632.4	QPSK	1	74	1	0	22.57
			QPSK	75	0	100	0	20.39
			16QAM	1	74	1	0	21.16
			16QAM	75	0	100	0	19.40
			64QAM	1	74	1	0	19.52
			64QAM	75	0	100	0	19.43
			256QAM	1	74	1	0	17.60
			256QAM	75	0	100	0	17.43
20MHz/5MHz	3622.5	3634.2	QPSK	1	99	1	0	22.43
			QPSK	100	0	25	0	20.24
			16QAM	1	99	1	0	21.33
			16QAM	100	0	25	0	19.36
			64QAM	1	99	1	0	19.56
			64QAM	100	0	25	0	19.34
			256QAM	1	99	1	0	17.65
			256QAM	100	0	25	0	17.39
20MHz/10MHz	3620.1	3634.5	QPSK	1	99	1	0	22.43
			QPSK	100	0	50	0	20.32
			16QAM	1	99	1	0	21.54
			16QAM	100	0	50	0	19.34
			64QAM	1	99	1	0	19.49
			64QAM	100	0	50	0	19.39
			256QAM	1	99	1	0	17.73
			256QAM	100	0	50	0	17.42

20MHz/15MHz	3617.6	3634.7	QPSK	1	99	1	0	22.46
			QPSK	100	0	75	0	20.28
			16QAM	1	99	1	0	21.58
			16QAM	100	0	75	0	19.37
			64QAM	1	99	1	0	19.55
			64QAM	100	0	75	0	19.40
			256QAM	1	99	1	0	17.74
			256QAM	100	0	75	0	17.42
20MHz/20MHz	3615.1	3634.9	QPSK	1	99	1	0	22.45
			QPSK	100	0	100	0	20.36
			16QAM	1	99	1	0	21.56
			16QAM	100	0	100	0	19.37
			64QAM	1	99	1	0	19.51
			64QAM	100	0	100	0	19.39
			256QAM	1	99	1	0	17.78
			256QAM	100	0	100	0	17.43

LTE CA band 66B

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/5MHz	1752.6	1757.4	QPSK	1	24	1	0	22.53
			QPSK	25	0	25	0	20.60
			16QAM	1	24	1	0	21.60
			16QAM	25	0	25	0	19.64
			64QAM	1	24	1	0	19.53
			64QAM	25	0	25	0	19.57
			256QAM	1	24	1	0	17.60
			256QAM	25	0	25	0	17.62
5MHz/10MHz	1750.3	1757.5	QPSK	1	24	1	0	22.63
			QPSK	25	0	50	0	20.68
			16QAM	1	24	1	0	21.72
			16QAM	25	0	50	0	19.69
			64QAM	1	24	1	0	19.55
			64QAM	25	0	50	0	19.68
			256QAM	1	24	1	0	17.72
			256QAM	25	0	50	0	17.70
5MHz/15MHz	1748.1	1757.4	QPSK	1	24	1	0	22.73
			QPSK	25	0	75	0	20.70
			16QAM	1	24	1	0	21.78
			16QAM	25	0	75	0	19.72
			64QAM	1	24	1	0	19.73
			64QAM	25	0	75	0	19.72
			256QAM	1	24	1	0	17.78
			256QAM	25	0	75	0	17.69
10MHz/5MHz	1752.5	1759.7	QPSK	1	49	1	0	22.63
			QPSK	50	0	25	0	20.68
			16QAM	1	49	1	0	21.71
			16QAM	50	0	25	0	19.70
			64QAM	1	49	1	0	19.56
			64QAM	50	0	25	0	19.66
			256QAM	1	49	1	0	17.58
			256QAM	50	0	25	0	17.73
10MHz/10MHz	1750.1	1760.0	QPSK	1	49	1	0	22.68
			QPSK	50	0	50	0	20.67
			16QAM	1	49	1	0	21.69
			16QAM	50	0	50	0	19.73
			64QAM	1	49	1	0	19.53
			64QAM	50	0	50	0	19.72
			256QAM	1	49	1	0	17.66
			256QAM	50	0	50	0	17.74

15MHz/5MHz	1752.6	1761.9	QPSK	1	74	1	0	22.66
			QPSK	75	0	25	0	20.66
			16QAM	1	74	1	0	21.73
			16QAM	75	0	25	0	19.65
			64QAM	1	74	1	0	19.51
			64QAM	75	0	25	0	19.69
			256QAM	1	74	1	0	17.58
			256QAM	75	0	25	0	17.71

LTE CA band 66C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	1745.8	1757.5	QPSK	1	24	1	0	22.76
			QPSK	25	0	100	0	20.71
			16QAM	1	24	1	0	21.84
			16QAM	25	0	100	0	19.65
			64QAM	1	24	1	0	19.71
			64QAM	25	0	100	0	19.69
			256QAM	1	24	1	0	17.84
			256QAM	25	0	100	0	17.70
10MHz/15MHz	1747.9	1759.9	QPSK	1	49	1	0	22.71
			QPSK	50	0	75	0	20.67
			16QAM	1	49	1	0	21.79
			16QAM	50	0	75	0	19.71
			64QAM	1	49	1	0	19.52
			64QAM	50	0	75	0	19.70
			256QAM	1	49	1	0	17.67
			256QAM	50	0	75	0	17.71
10MHz/20MHz	1745.6	1760.0	QPSK	1	49	1	0	22.82
			QPSK	50	0	100	0	20.72
			16QAM	1	49	1	0	21.58
			16QAM	50	0	100	0	19.69
			64QAM	1	49	1	0	19.57
			64QAM	50	0	100	0	19.71
			256QAM	1	49	1	0	17.71
			256QAM	50	0	100	0	17.75
15MHz/10MHz	1750.1	1762.1	QPSK	1	74	1	0	22.67
			QPSK	75	0	50	0	20.66
			16QAM	1	74	1	0	21.77
			16QAM	75	0	50	0	19.64
			64QAM	1	74	1	0	19.53
			64QAM	75	0	50	0	19.66
			256QAM	1	74	1	0	17.62
			256QAM	75	0	50	0	17.66
15MHz/15MHz	1747.5	1762.5	QPSK	1	74	1	0	22.73
			QPSK	75	0	75	0	20.72
			16QAM	1	74	1	0	21.76
			16QAM	75	0	75	0	19.68
			64QAM	1	74	1	0	19.56
			64QAM	75	0	75	0	19.72
			256QAM	1	74	1	0	17.64
			256QAM	75	0	75	0	17.70

15MHz/20MHz	1745.3	1762.4	QPSK	1	74	1	0	22.79
			QPSK	75	0	100	0	20.74
			16QAM	1	74	1	0	21.81
			16QAM	75	0	100	0	19.70
			64QAM	1	74	1	0	19.52
			64QAM	75	0	100	0	19.74
			256QAM	1	74	1	0	17.68
			256QAM	75	0	100	0	17.72
20MHz/5MHz	1752.5	1764.2	QPSK	1	99	1	0	22.67
			QPSK	100	0	25	0	20.67
			16QAM	1	99	1	0	21.64
			16QAM	100	0	25	0	19.66
			64QAM	1	99	1	0	19.76
			64QAM	100	0	25	0	19.62
			256QAM	1	99	1	0	17.70
			256QAM	100	0	25	0	17.63
20MHz/10MHz	1750.1	1764.5	QPSK	1	99	1	0	22.66
			QPSK	100	0	50	0	20.66
			16QAM	1	99	1	0	21.52
			16QAM	100	0	50	0	19.70
			64QAM	1	99	1	0	19.70
			64QAM	100	0	50	0	19.65
			256QAM	1	99	1	0	17.79
			256QAM	100	0	50	0	17.68
20MHz/15MHz	1747.6	1764.7	QPSK	1	99	1	0	22.66
			QPSK	100	0	75	0	20.70
			16QAM	1	99	1	0	21.53
			16QAM	100	0	75	0	19.74
			64QAM	1	99	1	0	19.74
			64QAM	100	0	75	0	19.70
			256QAM	1	99	1	0	17.83
			256QAM	100	0	75	0	17.70
20MHz/20MHz	1745.1	1764.9	QPSK	1	99	1	0	22.71
			QPSK	100	0	100	0	20.73
			16QAM	1	99	1	0	21.83
			16QAM	100	0	100	0	19.73
			64QAM	1	99	1	0	19.74
			64QAM	100	0	100	0	19.70
			256QAM	1	99	1	0	17.86
			256QAM	100	0	100	0	17.71

A.1.3 Radiated

A.1.3.1 Description

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

FDD Band 7: 27.50(h)(2) specifies " Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

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

FDD Band 13: Part 27.50(b)(10) specifies " Portable stations (hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP".

FDD Band 14: Part 90.542(a) (7) specifies " Portable stations (hand-held de-vices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP".

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

FDD Band 26_Part22: Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 26_Part90: Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

FDD Band 30: Part 27.50(c) specifies " For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth ".

TDD Band 41: 27.50(h)(2) specifies " *Mobile and other user stations*. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power".

TDD Band 48: 96.11 (b) specifies " Mobile stations are limited to 23dBm/10megahertz ".

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 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.

LTE band 7- EIRP

Limits: ≤33 dBm (2W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -3.9dBi			
5MHz	1 RB high	2567.5	23.72	22.86	21.53	18.63	19.82	18.96	17.63	14.73
		2535.0	23.21	22.74	21.21	18.53	19.31	18.84	17.31	14.63
		2502.5	22.63	22.02	21.16	18.78	18.73	18.12	17.26	14.88
	1 RB low	2567.5	23.89	22.84	21.74	18.83	19.99	18.94	17.84	14.93
		2535.0	23.43	22.67	21.71	18.52	19.53	18.77	17.81	14.62
		2502.5	22.75	22.12	21.1	18.66	18.85	18.22	17.20	14.76
	50% RB mid	2567.5	22.69	21.59	20.56	18.55	18.79	17.69	16.66	14.65
		2535.0	22.49	21.68	20.7	18.53	18.59	17.78	16.80	14.63
		2502.5	22.75	21.99	20.04	18.5	18.85	18.09	16.14	14.60
	100% RB	2567.5	22.73	21.59	20.61	18.85	18.83	17.69	16.71	14.95
		2535.0	22.41	21.61	20.66	18.59	18.51	17.71	16.76	14.69
		2502.5	21.81	21.03	19.99	18.65	17.91	17.13	16.09	14.75
10MHz	1 RB high	2565.0	22.43	21.66	20.64	18.56	18.53	17.76	16.74	14.66
		2535.0	22.64	22.33	21.23	18.6	18.74	18.43	17.33	14.70
		2505.0	22.7	22.01	21.15	18.78	18.80	18.11	17.25	14.88
	1 RB low	2565.0	23.73	22.94	21.65	18.83	19.83	19.04	17.75	14.93
		2535.0	23.47	22.53	21.7	18.72	19.57	18.63	17.80	14.82
		2505.0	23.18	22.48	21.23	18.6	19.28	18.58	17.33	14.70
	50% RB mid	2565.0	22.74	21.56	20.55	18.81	18.84	17.66	16.65	14.91
		2535.0	22.5	21.68	20.66	18.63	18.60	17.78	16.76	14.73
		2505.0	21.88	20.99	19.96	18.71	17.98	17.09	16.06	14.81
	100% RB	2565.0	22.77	21.61	20.56	18.79	18.87	17.71	16.66	14.89
		2535.0	22.42	21.68	20.61	18.63	18.52	17.78	16.71	14.73
		2505.0	21.94	21.03	20.04	18.9	18.04	17.13	16.14	15.00
15MHz	1 RB high	2562.5	22.45	21.66	20.65	18.79	18.55	17.76	16.75	14.89
		2535.0	22.66	21.57	20.71	18.55	18.76	17.67	16.81	14.65
		2507.5	22.84	21.99	21.07	18.5	18.94	18.09	17.17	14.60
	1 RB low	2562.5	23.95	22.84	21.72	18.73	20.05	18.94	17.82	14.83
		2535.0	23.5	22.61	21.69	18.67	19.60	18.71	17.79	14.77
		2507.5	23.35	22.56	21.27	18.74	19.45	18.66	17.37	14.84
	50% RB mid	2562.5	22.7	21.46	20.5	18.84	18.80	17.56	16.60	14.94
		2535.0	22.5	21.66	20.67	18.76	18.60	17.76	16.77	14.86
		2507.5	22	21.03	20.03	18.79	18.10	17.13	16.13	14.89
	100% RB	2562.5	22.73	21.57	20.61	18.61	18.83	17.67	16.71	14.71
		2535.0	22.39	21.63	20.63	18.59	18.49	17.73	16.73	14.69
		2507.5	22.02	21.05	20.04	18.85	18.12	17.15	16.14	14.95
20MHz	1 RB high	2560.0	22.43	21.69	20.66	18.18	18.53	17.79	16.76	14.28
		2535.0	23.34	22.47	21.16	18.27	19.44	18.57	17.26	14.37

	1 RB low	2510.0	23.19	22.35	21.29	18.09	19.29	18.45	17.39	14.19
		2560.0	23.36	22.54	21.23	18.24	19.46	18.64	17.33	14.34
		2535.0	23.25	22.44	21.25	18.07	19.35	18.54	17.35	14.17
		2510.0	23.12	22.04	21.34	18.21	19.22	18.14	17.44	14.31
	50% RB mid	2560.0	22.19	21.13	20.13	18.04	18.29	17.23	16.23	14.14
		2535.0	22.35	21.18	20.18	17.95	18.45	17.28	16.28	14.05
		2510.0	22.09	21.22	20.19	18.18	18.19	17.32	16.29	14.28
	100% RB	2560.0	22.16	21.08	20.05	18.25	18.26	17.18	16.15	14.35
		2535.0	22.39	21.16	20.15	17.84	18.49	17.26	16.25	13.94
		2510.0	22.04	21.17	20.15	17.91	18.14	17.27	16.25	14.01

LTE band 12-ERP

Limits: ≤34.77dBm (3W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -3.8dBi			
1.4MHz	1 RB high	715.3	23.28	22.46	21.44	18.64	17.33	16.51	15.49	12.69
		707.5	23.22	22.57	21.5	18.52	17.27	16.62	15.55	12.57
		699.7	23.36	22.6	21.47	18.74	17.41	16.65	15.52	12.79
	1 RB low	715.3	23.26	22.56	21.6	18.69	17.31	16.61	15.65	12.74
		707.5	23.39	22.61	21.61	18.56	17.44	16.66	15.66	12.61
		699.7	23.24	22.51	21.56	18.74	17.29	16.56	15.61	12.79
	50% RB mid	715.3	23.16	22.32	21.37	18.46	17.21	16.37	15.42	12.51
		707.5	23.33	22.4	21.5	18.6	17.38	16.45	15.55	12.65
		699.7	23.4	22.38	21.57	18.5	17.45	16.43	15.62	12.55
	100% RB	715.3	22.3	21.51	20.32	18.4	16.35	15.56	14.37	12.45
		707.5	22.42	21.51	20.35	18.55	16.47	15.56	14.40	12.60
		699.7	22.43	21.43	20.39	18.45	16.48	15.48	14.44	12.50
3MHz	1 RB high	714.5	23.34	22.59	21.52	18.8	17.39	16.64	15.57	12.85
		707.5	23.31	22.66	21.57	18.64	17.36	16.71	15.62	12.69
		700.5	23.42	22.54	21.62	18.74	17.47	16.59	15.67	12.79
	1 RB low	714.5	23.37	22.72	21.73	18.58	17.42	16.77	15.78	12.63
		707.5	23.34	22.59	21.57	18.51	17.39	16.64	15.62	12.56
		700.5	23.39	22.59	21.7	18.59	17.44	16.64	15.75	12.64
	50% RB mid	714.5	22.38	21.5	20.37	18.74	16.43	15.55	14.42	12.79
		707.5	22.41	21.48	20.47	18.44	16.46	15.53	14.52	12.49
		700.5	22.37	21.46	20.4	18.57	16.42	15.51	14.45	12.62
	100% RB	714.5	22.35	21.37	20.36	18.58	16.40	15.42	14.41	12.63
		707.5	22.4	21.44	20.38	18.44	16.45	15.49	14.43	12.49
		700.5	22.38	21.44	20.35	18.61	16.43	15.49	14.40	12.66
5MHz	1 RB high	713.5	23.45	22.56	21.69	18.49	17.50	16.61	15.74	12.54
		707.5	23.39	22.51	21.56	18.79	17.44	16.56	15.61	12.84
		701.5	23.37	22.6	21.51	18.72	17.42	16.65	15.56	12.77
	1 RB low	713.5	23.57	22.61	21.55	18.7	17.62	16.66	15.60	12.75
		707.5	23.48	22.69	21.63	18.6	17.53	16.74	15.68	12.65
		701.5	23.49	22.63	21.56	18.79	17.54	16.68	15.61	12.84
	50% RB mid	713.5	22.47	21.46	20.5	18.64	16.52	15.51	14.55	12.69
		707.5	22.44	21.46	20.43	18.77	16.49	15.51	14.48	12.82
		701.5	22.42	21.45	20.46	18.65	16.47	15.50	14.51	12.70
	100% RB	713.5	22.44	21.43	20.39	18.64	16.49	15.48	14.44	12.69
		707.5	22.49	21.47	20.41	18.51	16.54	15.52	14.46	12.56
		701.5	22.44	21.46	20.39	18.52	16.49	15.51	14.44	12.57
10MHz	1 RB high	711	23.67	22.84	21.94	18.54	17.72	16.89	15.99	12.59
		707.5	23.78	22.83	21.82	18.65	17.83	16.88	15.87	12.70

	1 RB low	704	23.72	22.95	21.84	18.45	17.77	17.00	15.89	12.50
		711	23.9	23.03	21.89	18.69	17.95	17.08	15.94	12.74
		707.5	23.89	22.99	21.97	18.75	17.94	17.04	16.02	12.80
	50% RB mid	704	23.85	23.09	21.93	18.74	17.90	17.14	15.98	12.79
		711	22.71	21.71	20.69	18.52	16.76	15.76	14.74	12.57
		707.5	22.73	21.73	20.67	18.45	16.78	15.78	14.72	12.50
	100% RB	704	22.72	21.71	20.68	18.66	16.77	15.76	14.73	12.71
		711	22.72	21.74	20.71	18.55	16.77	15.79	14.76	12.60
		707.5	22.78	21.74	20.71	18.62	16.83	15.79	14.76	12.67
		704	22.69	21.67	20.63	18.51	16.74	15.72	14.68	12.56

LTE band 13- ERP

Limits: ≤34.77dBm (3W)

Band width	RB size/ offset	Frequen cy (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -4.5dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	784.5	23.61	22.8	21.94	18.95	16.96	16.15	15.29	12.30
		782.0	23.71	22.73	21.79	18.83	17.06	16.08	15.14	12.18
		779.5	23.52	22.84	21.79	18.81	16.87	16.19	15.14	12.16
	1 RB low	784.5	23.67	22.83	21.76	18.79	17.02	16.18	15.11	12.14
		782.0	23.7	22.58	21.89	18.79	17.05	15.93	15.24	12.14
		779.5	23.66	22.83	21.67	18.55	17.01	16.18	15.02	11.90
	50% RB mid	784.5	22.68	21.63	20.76	18.78	16.03	14.98	14.11	12.13
		782.0	22.63	21.71	20.73	18.76	15.98	15.06	14.08	12.11
		779.5	22.73	21.71	20.76	18.73	16.08	15.06	14.11	12.08
	100% RB	784.5	22.65	21.64	20.74	18.67	16.00	14.99	14.09	12.02
		782.0	22.7	21.72	20.74	18.49	16.05	15.07	14.09	11.84
		779.5	22.7	21.71	20.73	18.54	16.05	15.06	14.08	11.89
10MHz	1 RB high	782.0	23.66	22.9	21.78	18.76	17.01	16.25	15.13	12.11
	1 RB low	782.0	23.89	22.88	21.85	18.81	17.24	16.23	15.20	12.16
	50% RB mid	782.0	22.64	21.65	20.7	18.69	15.99	15.00	14.05	12.04
	100% RB	782.0	22.65	21.69	20.7	18.57	16.00	15.04	14.05	11.92

LTE band 14- ERP

Limits: ≤34.77dBm (3W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -4.5dBi			
5MHz	1 RB high	795.5	23.23	22.26	21.39	18.31	16.58	15.61	14.74	11.66
		793.0	23.19	22.36	21.48	18.46	16.54	15.71	14.83	11.81
		790.5	23.31	22.5	21.35	18.43	16.66	15.85	14.70	11.78
	1 RB low	795.5	23.23	22.41	21.44	18.34	16.58	15.76	14.79	11.69
		793.0	23.34	22.42	21.44	18.43	16.69	15.77	14.79	11.78
		790.5	23.27	22.34	21.35	18.11	16.62	15.69	14.70	11.46
	50% RB mid	795.5	22.18	21.23	20.38	18.39	15.53	14.58	13.73	11.74
		793.0	22.27	21.31	20.42	18.57	15.62	14.66	13.77	11.92
		790.5	22.29	21.31	20.47	18.08	15.64	14.66	13.82	11.43
	100% RB	795.5	22.21	21.25	20.38	18.47	15.56	14.60	13.73	11.82
		793.0	22.26	21.29	20.4	18.39	15.61	14.64	13.75	11.74
		790.5	22.27	21.3	20.4	18.32	15.62	14.65	13.75	11.67
10MHz	1 RB high	793.0	23.32	22.6	21.43	18.19	16.67	15.95	14.78	11.54
	1 RB low	793.0	23.39	22.38	21.56	18.19	16.74	15.73	14.91	11.54
	50% RB mid	793.0	22.22	21.25	20.36	18.28	15.57	14.60	13.71	11.63
	100% RB	793.0	22.29	21.28	20.37	18.27	15.64	14.63	13.72	11.62

LTE band 25- EIRP

Limits: ≤33dBm (2W)

Band width	RB size/offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -2.8dBi			
1.4MHz	1 RB high	1914.3	23.07	22.12	21.14	18.88	20.27	19.32	18.34	16.08
		1882.5	22.93	22.16	21.1	18.71	20.13	19.36	18.30	15.91
		1850.7	23.01	22.24	21.13	18.7	20.21	19.44	18.33	15.90
	1 RB low	1914.3	23.09	22.16	21.18	18.88	20.29	19.36	18.38	16.08
		1882.5	22.95	22.28	21.14	18.84	20.15	19.48	18.34	16.04
		1850.7	22.93	22.12	21.2	18.68	20.13	19.32	18.40	15.88
	50% RB mid	1914.3	23.08	22.14	21.06	18.7	20.28	19.34	18.26	15.90
		1882.5	22.94	22.01	21.02	18.71	20.14	19.21	18.22	15.91
		1850.7	23.04	22.06	21.01	18.56	20.24	19.26	18.21	15.76
	100% RB	1914.3	22.02	21.11	19.97	18.72	19.22	18.31	17.17	15.92
		1882.5	21.95	21.01	19.84	18.89	19.15	18.21	17.04	16.09
		1850.7	21.99	21.05	19.93	18.61	19.19	18.25	17.13	15.81
3MHz	1 RB high	1913.5	23.01	22.27	21.19	18.59	20.21	19.47	18.39	15.79
		1882.5	22.99	22.12	21.12	18.71	20.19	19.32	18.32	15.91
		1851.5	23.06	22.15	21.16	18.61	20.26	19.35	18.36	15.81
	1 RB low	1913.5	23.15	22.38	21.26	18.7	20.35	19.58	18.46	15.90
		1882.5	22.99	22.3	21.13	18.82	20.19	19.50	18.33	16.02
		1851.5	23.17	22.28	21.11	18.68	20.37	19.48	18.31	15.88
	50% RB mid	1913.5	22.09	21.09	20.13	18.6	19.29	18.29	17.33	15.80
		1882.5	21.99	21.03	19.99	18.87	19.19	18.23	17.19	16.07
		1851.5	22.08	21.07	20.02	18.64	19.28	18.27	17.22	15.84
	100% RB	1913.5	22.11	21.09	20.1	18.75	19.31	18.29	17.30	15.95
		1882.5	21.98	20.96	19.9	18.67	19.18	18.16	17.10	15.87
		1851.5	22.08	21.04	19.98	18.56	19.28	18.24	17.18	15.76
5MHz	1 RB high	1912.5	23.05	22.21	21.26	18.64	20.25	19.41	18.46	15.84
		1882.5	23.03	22.19	21.23	18.66	20.23	19.39	18.43	15.86
		1852.5	23.02	22.22	21.18	18.54	20.22	19.42	18.38	15.74
	1 RB low	1912.5	23.11	22.45	21.37	18.59	20.31	19.65	18.57	15.79
		1882.5	23.06	22.24	21.34	18.88	20.26	19.44	18.54	16.08
		1852.5	23.04	22.22	21.18	18.89	20.24	19.42	18.38	16.09
	50% RB mid	1912.5	22.17	21.22	20.24	18.65	19.37	18.42	17.44	15.85
		1882.5	22.02	21.03	20.03	18.71	19.22	18.23	17.23	15.91
		1852.5	22.06	21.06	20.12	18.51	19.26	18.26	17.32	15.71
	100% RB	1912.5	22.23	21.22	20.19	18.61	19.43	18.42	17.39	15.81
		1882.5	22.06	21.07	20.04	18.59	19.26	18.27	17.24	15.79
		1852.5	22.1	21.04	20.05	18.82	19.30	18.24	17.25	16.02
10MHz	1 RB high	1910	23.25	22.34	21.31	18.71	20.45	19.54	18.51	15.91
		1882.5	23.04	22.24	21.1	18.54	20.24	19.44	18.30	15.74

	1 RB low	1855	23.14	22.26	21.19	18.83	20.34	19.46	18.39	16.03
		1910	23.17	22.36	21.34	18.62	20.37	19.56	18.54	15.82
		1882.5	23.18	22.38	21.16	18.82	20.38	19.58	18.36	16.02
	50% RB mid	1855	23.11	22.25	21.23	18.62	20.31	19.45	18.43	15.82
		1910	22.25	21.17	20.15	18.8	19.45	18.37	17.35	16.00
		1882.5	22.09	21	19.98	18.72	19.29	18.20	17.18	15.92
	100% RB	1855	22.08	20.98	19.96	18.65	19.28	18.18	17.16	15.85
		1910	22.22	21.16	20.14	18.86	19.42	18.36	17.34	16.06
		1882.5	22.07	21	20.01	18.73	19.27	18.20	17.21	15.93
15MHz	1 RB high	1907.5	23.15	22.48	21.46	18.56	20.35	19.68	18.66	15.76
		1882.5	23.04	22.34	21.13	18.84	20.24	19.54	18.33	16.04
		1857.5	23.18	22.28	21.25	18.74	20.38	19.48	18.45	15.94
	1 RB low	1907.5	23.12	22.47	21.28	18.64	20.32	19.67	18.48	15.84
		1882.5	23.16	22.37	21.15	18.75	20.36	19.57	18.35	15.95
		1857.5	23.14	22.23	21.2	18.6	20.34	19.43	18.40	15.80
	50% RB mid	1907.5	22.12	21.09	20.13	18.65	19.32	18.29	17.33	15.85
		1882.5	22.01	20.96	19.97	18.77	19.21	18.16	17.17	15.97
		1857.5	22.08	20.99	20.01	18.82	19.28	18.19	17.21	16.02
	100% RB	1907.5	22.16	21.18	20.17	18.86	19.36	18.38	17.37	16.06
		1882.5	22.06	21.03	20.01	18.65	19.26	18.23	17.21	15.85
		1857.5	22.09	21.05	20.02	18.61	19.29	18.25	17.22	15.81
20MHz	1 RB high	1905	23.45	22.7	21.6	18.64	20.65	19.90	18.80	15.84
		1882.5	23.38	22.68	21.55	18.53	20.58	19.88	18.75	15.73
		1860	23.51	22.7	21.54	18.47	20.71	19.90	18.74	15.67
	1 RB low	1905	23.41	22.59	21.53	18.3	20.61	19.79	18.73	15.50
		1882.5	23.38	22.66	21.53	18.59	20.58	19.86	18.73	15.79
		1860	23.22	22.45	21.36	18.48	20.42	19.65	18.56	15.68
	50% RB mid	1905	22.4	21.4	20.41	18.19	19.60	18.60	17.61	15.39
		1882.5	22.44	21.42	20.45	18.25	19.64	18.62	17.65	15.45
		1860	22.26	21.25	20.23	18.34	19.46	18.45	17.43	15.54
	100% RB	1905	22.4	21.41	20.4	18.43	19.60	18.61	17.60	15.63
		1882.5	22.48	21.42	20.43	18.23	19.68	18.62	17.63	15.43
		1860	22.3	21.27	20.3	18.23	19.50	18.47	17.50	15.43

LTE Band 26_Part90-ERP

Limits: ≤50dBm (100W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -4.1dBi			
1.4MHz	1 RB high	823.3	21.87	21.06	19.91	17.03	15.62	14.81	13.66	10.78
		819	21.8	21.12	20.13	16.86	15.55	14.87	13.88	10.61
		814.7	21.83	21.03	20.39	17.1	15.58	14.78	14.14	10.85
	1 RB low	823.3	21.84	20.99	19.82	16.97	15.59	14.74	13.57	10.72
		819	21.83	21.15	20.04	16.84	15.58	14.90	13.79	10.59
		814.7	21.81	21.01	20.28	17.11	15.56	14.76	14.03	10.86
	50% RB mid	823.3	21.95	21.2	19.86	16.99	15.70	14.95	13.61	10.74
		819	21.91	21.19	20.18	16.9	15.66	14.94	13.93	10.65
		814.7	21.95	21.21	19.93	17.02	15.70	14.96	13.68	10.77
	100% RB	823.3	21.04	20.22	18.94	16.98	14.79	13.97	12.69	10.73
		819	20.98	20.17	18.91	16.92	14.73	13.92	12.66	10.67
		814.7	21.02	20.2	19	16.95	14.77	13.95	12.75	10.70
3MHz	1 RB high	822.5	21.86	21.02	19.84	17.01	15.61	14.77	13.59	10.76
		819	21.83	20.99	19.88	17	15.58	14.74	13.63	10.75
		815.5	21.87	21.05	19.94	17.05	15.62	14.80	13.69	10.80
	1 RB low	822.5	21.89	20.99	19.76	16.93	15.64	14.74	13.51	10.68
		819	21.83	21.04	19.75	17	15.58	14.79	13.50	10.75
		815.5	21.87	21.04	19.83	17.01	15.62	14.79	13.58	10.76
	50% RB mid	822.5	20.93	19.97	19.02	16.98	14.68	13.72	12.77	10.73
		819	20.93	20.02	19.09	17.03	14.68	13.77	12.84	10.78
		815.5	21.07	20.1	19.02	17.06	14.82	13.85	12.77	10.81
	100% RB	822.5	20.94	19.89	18.99	16.96	14.69	13.64	12.74	10.71
		819	20.92	19.95	19.01	16.99	14.67	13.70	12.76	10.74
		815.5	21.07	19.97	19.08	17.05	14.82	13.72	12.83	10.80
5MHz	1 RB high	821.5	21.94	21.06	20.25	17.09	15.69	14.81	14.00	10.84
		819	21.99	21.03	20.24	17.05	15.74	14.78	13.99	10.80
		816.5	21.92	20.91	20.27	17.13	15.67	14.66	14.02	10.88
	1 RB low	821.5	21.84	21.06	20.27	17.08	15.59	14.81	14.02	10.83
		819	21.88	21.12	20.25	17.14	15.63	14.87	14.00	10.89
		816.5	21.94	20.88	20.32	17.12	15.69	14.63	14.07	10.87
	50% RB mid	821.5	20.96	20.07	19.13	17.09	14.71	13.82	12.88	10.84
		819	21	20.06	19.15	17.09	14.75	13.81	12.90	10.84
		816.5	21.03	20.08	19.16	17.1	14.78	13.83	12.91	10.85
	100% RB	821.5	21	19.93	19.03	17	14.75	13.68	12.78	10.75
		819	20.99	19.96	19.02	17	14.74	13.71	12.77	10.75
		816.5	21.09	20.05	19.13	17.1	14.84	13.80	12.88	10.85
10MHz	1 RB high	819	21.99	21.06	19.95	17.16	15.74	14.81	13.70	10.91
	1 RB low	819	21.91	21.04	19.85	17.1	15.66	14.79	13.60	10.85



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	50% RB mid	819	20.99	20.1	19.08	17.09	14.74	13.85	12.83	10.84
	100% RB	819	20.96	19.99	18.98	16.97	14.71	13.74	12.73	10.72

LTE band 26_Part22- ERP

Limits: ≤38.45dBm (7W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -4.1dBi			
1.4MHz	1 RB high	848.3	21.8	20.94	20.04	16.78	15.55	14.69	13.79	10.53
		836.5	21.85	21.09	20.09	16.82	15.60	14.84	13.84	10.57
		824.7	21.75	20.89	19.8	16.94	15.50	14.64	13.55	10.69
	1 RB low	848.3	21.78	20.91	19.96	16.76	15.53	14.66	13.71	10.51
		836.5	21.86	21.12	20.04	16.82	15.61	14.87	13.79	10.57
		824.7	21.74	20.96	19.72	16.96	15.49	14.71	13.47	10.71
	50% RB mid	848.3	21.92	21.09	19.79	16.94	15.67	14.84	13.54	10.69
		836.5	21.89	21.16	19.83	16.97	15.64	14.91	13.58	10.72
		824.7	21.84	21.2	19.86	16.99	15.59	14.95	13.61	10.74
	100% RB	848.3	20.93	20.13	18.88	16.94	14.68	13.88	12.63	10.69
		836.5	20.95	19.86	18.92	16.94	14.70	13.61	12.67	10.69
		824.7	21.02	19.89	18.87	16.92	14.77	13.64	12.62	10.67
3MHz	1 RB high	847.5	21.88	21.02	19.81	16.95	15.63	14.77	13.56	10.70
		836.5	21.84	20.98	19.87	16.99	15.59	14.73	13.62	10.74
		825.5	21.85	20.97	19.81	16.97	15.60	14.72	13.56	10.72
	1 RB low	847.5	21.87	21.04	19.7	16.96	15.62	14.79	13.45	10.71
		836.5	21.85	21.01	19.76	16.98	15.60	14.76	13.51	10.73
		825.5	21.87	21.03	19.72	16.98	15.62	14.78	13.47	10.73
	50% RB mid	847.5	21	20.06	19.06	16.99	14.75	13.81	12.81	10.74
		836.5	21.07	20.08	19.1	17.01	14.82	13.83	12.85	10.76
		825.5	21.04	20.13	18.88	16.98	14.79	13.88	12.63	10.73
	100% RB	847.5	21	19.97	18.99	16.96	14.75	13.72	12.74	10.71
		836.5	21.01	20	19.02	16.98	14.76	13.75	12.77	10.73
		825.5	21.11	20.05	19.02	16.97	14.86	13.80	12.77	10.72
5MHz	1 RB high	846.5	21.94	21.05	20.21	17.08	15.69	14.80	13.96	10.83
		836.5	21.88	21.09	20.25	17.1	15.63	14.84	14.00	10.85
		826.5	22.01	21.12	20.25	17.12	15.76	14.87	14.00	10.87
	1 RB low	846.5	21.9	21.07	20.24	17.1	15.65	14.82	13.99	10.85
		836.5	21.93	21.15	20.28	17.13	15.68	14.90	14.03	10.88
		826.5	22.02	21.1	20.28	17.11	15.77	14.85	14.03	10.86
	50% RB mid	846.5	21.03	20.08	19.1	17.02	14.78	13.83	12.85	10.77
		836.5	21.08	20.11	18.99	16.88	14.83	13.86	12.74	10.63
		826.5	20.96	20.1	19.03	17.08	14.71	13.85	12.78	10.83
	100% RB	846.5	21.09	20.05	19.05	17.06	14.84	13.80	12.80	10.81
		836.5	21.07	20.04	18.93	16.96	14.82	13.79	12.68	10.71
		826.5	21.05	19.97	19.05	17.06	14.80	13.72	12.80	10.81
10MHz	1 RB high	844.0	21.95	21.02	19.91	17.1	15.70	14.77	13.66	10.85
		836.5	21.97	21.1	19.95	17.15	15.72	14.85	13.70	10.90

	1 RB low	829.0	21.92	21.08	19.95	17.15	15.67	14.83	13.70	10.90
		844.0	21.88	21.02	19.82	17.07	15.63	14.77	13.57	10.82
		836.5	22.04	21.09	19.84	17.12	15.79	14.84	13.59	10.87
		829.0	21.95	21.04	19.84	17.07	15.70	14.79	13.59	10.82
	50% RB mid	844.0	21.06	20.1	19.13	17.09	14.81	13.85	12.88	10.84
		836.5	21.08	20.14	19.16	17.09	14.83	13.89	12.91	10.84
		829.0	21.08	20.1	19.11	17.08	14.83	13.85	12.86	10.83
	100% RB	844.0	21.13	20.15	19.13	17.1	14.88	13.90	12.88	10.85
		836.5	21.03	20.06	19.03	17.01	14.78	13.81	12.78	10.76
		829.0	21.1	20.11	19.08	17.05	14.85	13.86	12.83	10.80
15MHz	1 RB high	841.5	22.03	21.44	20.47	17.31	15.78	15.19	14.22	11.06
		836.5	22.03	21.41	20.43	17.32	15.78	15.16	14.18	11.07
		831.5	21.91	21.42	20.38	17.35	15.66	15.17	14.13	11.10
	1 RB low	841.5	22.01	21.45	20.36	17.33	15.76	15.20	14.11	11.08
		836.5	22.06	21.47	20.4	17.34	15.81	15.22	14.15	11.09
		831.5	21.99	21.4	20.37	17.24	15.74	15.15	14.12	10.99
	50% RB mid	841.5	21	20.17	19.05	16.96	14.75	13.92	12.80	10.71
		836.5	21.05	20.03	19.04	16.96	14.80	13.78	12.79	10.71
		831.5	21.05	20.06	19.12	17.07	14.80	13.81	12.87	10.82
	100% RB	841.5	21.03	20.03	19.03	17.09	14.78	13.78	12.78	10.84
		836.5	21.13	20.13	19	17.07	14.88	13.88	12.75	10.82
		831.5	21.16	20.15	19.19	17.18	14.91	13.90	12.94	10.93

LTE band 30- EIRP

Limits: ≤250 milliwatts/5MHz

BW (MHz)	Freq (MHz)	Modulation	RB Allocation	Conducted Power (dBm/5MHz)	Antenna Gain (dBi)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Margin (dB)
5	2307.5	QPSK	1 RB low	22.82	-3.9	18.92	24	5.08
5	2307.5	QPSK	1 RB high	23.11	-3.9	19.21	24	4.79
5	2307.5	QPSK	100% RB	21.15	-3.9	17.25	24	6.75
5	2307.5	16QAM	1 RB low	21.85	-3.9	17.95	24	6.05
5	2307.5	16QAM	1 RB high	22.12	-3.9	18.22	24	5.78
5	2307.5	16QAM	100% RB	20.17	-3.9	16.27	24	7.73
5	2307.5	64QAM	1 RB low	21.02	-3.9	17.12	24	6.88
5	2307.5	64QAM	1 RB high	21.30	-3.9	17.40	24	6.60
5	2307.5	64QAM	100% RB	19.31	-3.9	15.41	24	8.59
5	2307.5	256QAM	1 RB low	18.03	-3.9	14.13	24	9.87
5	2307.5	256QAM	1 RB high	18.29	-3.9	14.39	24	9.61
5	2307.5	256QAM	100% RB	17.32	-3.9	13.42	24	10.58
5	2310	QPSK	1 RB low	23.10	-3.9	19.20	24	4.80
5	2310	QPSK	1 RB high	23.20	-3.9	19.30	24	4.70
5	2310	QPSK	100% RB	21.31	-3.9	17.41	24	6.59
5	2310	16QAM	1 RB low	22.10	-3.9	18.20	24	5.80
5	2310	16QAM	1 RB high	22.19	-3.9	18.29	24	5.71
5	2310	16QAM	100% RB	20.27	-3.9	16.37	24	7.63
5	2310	64QAM	1 RB low	21.27	-3.9	17.37	24	6.63
5	2310	64QAM	1 RB high	21.35	-3.9	17.45	24	6.55
5	2310	64QAM	100% RB	19.46	-3.9	15.56	24	8.44
5	2310	256QAM	1 RB low	18.24	-3.9	14.34	24	9.66
5	2310	256QAM	1 RB high	18.43	-3.9	14.53	24	9.47
5	2310	256QAM	100% RB	17.44	-3.9	13.54	24	10.46
5	2312.5	QPSK	1 RB low	23.16	-3.9	19.26	24	4.74
5	2312.5	QPSK	1 RB high	23.23	-3.9	19.33	24	4.67
5	2312.5	QPSK	100% RB	21.35	-3.9	17.45	24	6.55
5	2312.5	16QAM	1 RB low	22.18	-3.9	18.28	24	5.72
5	2312.5	16QAM	1 RB high	22.22	-3.9	18.32	24	5.68
5	2312.5	16QAM	100% RB	20.35	-3.9	16.45	24	7.55
5	2312.5	64QAM	1 RB low	21.33	-3.9	17.43	24	6.57
5	2312.5	64QAM	1 RB high	21.39	-3.9	17.49	24	6.51
5	2312.5	64QAM	100% RB	19.53	-3.9	15.63	24	8.37
5	2312.5	256QAM	1 RB low	18.36	-3.9	14.46	24	9.54
5	2312.5	256QAM	1 RB high	18.46	-3.9	14.56	24	9.44
5	2312.5	256QAM	100% RB	17.53	-3.9	13.63	24	10.37
10	2310	QPSK	1 RB low	22.91	-3.9	19.01	24	4.99
10	2310	QPSK	1 RB high	23.20	-3.9	19.30	24	4.70



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10	2310	QPSK	100% RB	19.65	-3.9	15.75	24	8.25
10	2310	16QAM	1 RB low	22.08	-3.9	18.18	24	5.82
10	2310	16QAM	1 RB high	22.35	-3.9	18.45	24	5.55
10	2310	16QAM	100% RB	18.65	-3.9	14.75	24	9.25
10	2310	64QAM	1 RB low	21.09	-3.9	17.19	24	6.81
10	2310	64QAM	1 RB high	21.41	-3.9	17.51	24	6.49
10	2310	64QAM	100% RB	17.77	-3.9	13.87	24	10.13
10	2310	256QAM	1 RB low	18.07	-3.9	14.17	24	9.83
10	2310	256QAM	1 RB high	18.42	-3.9	14.52	24	9.48
10	2310	256QAM	100% RB	15.74	-3.9	11.84	24	12.16

LTE band 30- EIRP

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm) GT = -3.9dBi			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2312.5	22.64	21.78	20.75	17.76	16.59	15.73	14.70	11.71
		2310	22.79	21.95	20.72	17.78	16.74	15.90	14.67	11.73
		2307.5	22.79	22.03	20.88	17.85	16.74	15.98	14.83	11.80
	1 RB low	2312.5	22.75	21.99	20.89	17.82	16.70	15.94	14.84	11.77
		2310	22.8	22.12	21.04	17.91	16.75	16.07	14.99	11.86
		2307.5	22.83	22.06	20.97	17.88	16.78	16.01	14.92	11.83
	50% RB mid	2312.5	21.64	20.72	19.76	17.72	15.59	14.67	13.71	11.67
		2310	21.75	20.81	19.83	18.06	15.70	14.76	13.78	12.01
		2307.5	21.83	20.82	19.88	18.07	15.78	14.77	13.83	12.02
	100% RB	2312.5	21.68	20.78	19.73	17.55	15.63	14.73	13.68	11.50
		2310	21.8	20.84	19.8	17.52	15.75	14.79	13.75	11.47
		2307.5	21.81	20.85	19.77	17.48	15.76	14.80	13.72	11.43
10MHz	1 RB high	2310	22.7	21.81	20.9	17.75	16.65	15.76	14.85	11.70
	1 RB low	2310	22.87	22.12	21.02	17.9	16.82	16.07	14.97	11.85
	50% RB mid	2310	21.75	20.81	19.79	17.85	15.70	14.76	13.74	11.80
	100% RB	2310	21.83	20.84	19.82	17.9	15.78	14.79	13.77	11.85

LTE band 41- EIRP

Limits: ≤33 dBm (2W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -3.9dBi			
5MHz	1 RB high	2687.5	22.74	22.08	20.92	17.37	18.84	18.18	17.02	13.47
		2593	22.4	21.3	20.46	17.48	18.50	17.40	16.56	13.58
		2498.5	22.73	21.75	20.41	17.39	18.83	17.85	16.51	13.49
	1 RB low	2687.5	22.74	22.01	20.83	17.56	18.84	18.11	16.93	13.66
		2593	22.43	21.39	20.35	17.68	18.53	17.49	16.45	13.78
		2498.5	22.73	21.68	20.34	17.49	18.83	17.78	16.44	13.59
	50% RB mid	2687.5	22.14	21.12	20.21	17.36	18.24	17.22	16.31	13.46
		2593	21.31	20.25	19.32	17.56	17.41	16.35	15.42	13.66
		2498.5	21.78	20.7	19.77	17.37	17.88	16.80	15.87	13.47
	100% RB	2687.5	22.14	21.21	20.18	17.8	18.24	17.31	16.28	13.90
		2593	21.29	20.29	19.29	17.53	17.39	16.39	15.39	13.63
		2498.5	21.73	20.75	19.72	17.24	17.83	16.85	15.82	13.34
10MHz	1 RB high	2685	22.53	22.12	20.85	17.79	18.63	18.22	16.95	13.89
		2593	22.71	21.31	20.33	17.61	18.81	17.41	16.43	13.71
		2501	22.1	21.93	20.61	17.34	18.20	18.03	16.71	13.44
	1 RB low	2685	22.55	21.97	20.75	17.34	18.65	18.07	16.85	13.44
		2593	22.81	21.46	20.06	17.76	18.91	17.56	16.16	13.86
		2501	22.12	21.74	20.38	17.44	18.22	17.84	16.48	13.54
	50% RB mid	2685	21.66	21.12	20.14	17.78	17.76	17.22	16.24	13.88
		2593	21.56	20.28	19.31	17.3	17.66	16.38	15.41	13.40
		2501	21.11	20.81	19.81	17.36	17.21	16.91	15.91	13.46
	100% RB	2685	21.65	21.15	20.13	17.43	17.75	17.25	16.23	13.53
		2593	21.61	20.34	19.31	17.22	17.71	16.44	15.41	13.32
		2501	21.13	20.84	19.8	17.7	17.23	16.94	15.90	13.80
15MHz	1 RB high	2682.5	22.71	22.06	20.9	17.25	18.81	18.16	17.00	13.35
		2593	22.41	21.25	20.32	17.39	18.51	17.35	16.42	13.49
		2503.5	22.82	22.08	20.7	17.39	18.92	18.18	16.80	13.49
	1 RB low	2682.5	22.72	21.86	20.67	17.62	18.82	17.96	16.77	13.72
		2593	22.52	21.47	20.06	17.64	18.62	17.57	16.16	13.74
		2503.5	22.8	21.73	20.34	17.47	18.90	17.83	16.44	13.57
	50% RB mid	2682.5	21.98	21	20.03	17.57	18.08	17.10	16.13	13.67
		2593	21.24	20.21	19.24	17.5	17.34	16.31	15.34	13.60
		2503.5	21.89	20.86	19.88	17.28	17.99	16.96	15.98	13.38
	100% RB	2682.5	22.01	21.07	20.07	17.44	18.11	17.17	16.17	13.54
		2593	21.27	20.29	19.27	17.47	17.37	16.39	15.37	13.57
		2503.5	21.88	20.9	19.89	17.49	17.98	17.00	15.99	13.59
20MHz	1 RB high	2680	22.78	22.15	20.9	17.75	18.88	18.25	17.00	13.85
		2593	22.44	21.29	20.03	17.14	18.54	17.39	16.13	13.24

		2506	22.74	22.02	20.58	17.51	18.84	18.12	16.68	13.61
	1 RB low	2680	22.97	21.99	20.63	17.8	19.07	18.09	16.73	13.90
		2593	22.58	21.58	20.17	17.34	18.68	17.68	16.27	13.44
		2506	22.72	21.7	20.34	17.28	18.82	17.80	16.44	13.38
	50% RB mid	2680	22.12	21.2	20.18	17.71	18.22	17.30	16.28	13.81
		2593	21.4	20.41	19.39	17.38	17.50	16.51	15.49	13.48
		2506	21.87	20.89	19.85	17.56	17.97	16.99	15.95	13.66
	100% RB	2680	22.12	21.17	20.18	18.14	18.22	17.27	16.28	14.24
		2593	21.39	20.39	19.36	17.08	17.49	16.49	15.46	13.18
		2506	21.87	20.88	19.82	17.57	17.97	16.98	15.92	13.67

LTE band 48- EIRP

Limits: ≤23dBm/10megahertz

BW (MHz)	Freq (MHz)	Modulation	RB Allocation	Conducted Power (dBm/10MHz)	Antenna Gain (dBi)	EIRP (dBm/10MHz)	Margin (dB)
5	3552.5	QPSK	1 RB low	23.61	-3.6	20.01	2.99
5	3552.5	QPSK	1 RB high	23.60	-3.6	20.00	3.00
5	3552.5	QPSK	100% RB	22.46	-3.6	18.86	4.14
5	3552.5	16QAM	1 RB low	22.84	-3.6	19.24	3.76
5	3552.5	16QAM	1 RB high	22.82	-3.6	19.22	3.78
5	3552.5	16QAM	100% RB	21.44	-3.6	17.84	5.16
5	3552.5	64QAM	1 RB low	21.85	-3.6	18.25	4.75
5	3552.5	64QAM	1 RB high	21.83	-3.6	18.23	4.77
5	3552.5	64QAM	100% RB	20.47	-3.6	16.87	6.13
5	3552.5	256QAM	1 RB low	18.79	-3.6	15.19	7.81
5	3552.5	256QAM	1 RB high	18.76	-3.6	15.16	7.84
5	3552.5	256QAM	100% RB	18.46	-3.6	14.86	8.14
5	3625	QPSK	1 RB low	24.24	-3.6	20.64	2.36
5	3625	QPSK	1 RB high	24.22	-3.6	20.62	2.38
5	3625	QPSK	100% RB	23.20	-3.6	19.60	3.40
5	3625	16QAM	1 RB low	23.65	-3.6	20.05	2.95
5	3625	16QAM	1 RB high	23.56	-3.6	19.96	3.04
5	3625	16QAM	100% RB	22.19	-3.6	18.59	4.41
5	3625	64QAM	1 RB low	22.55	-3.6	18.95	4.05
5	3625	64QAM	1 RB high	22.47	-3.6	18.87	4.13
5	3625	64QAM	100% RB	21.16	-3.6	17.56	5.44
5	3625	256QAM	1 RB low	19.58	-3.6	15.98	7.02
5	3625	256QAM	1 RB high	19.52	-3.6	15.92	7.08
5	3625	256QAM	100% RB	19.15	-3.6	15.55	7.45
5	3697.5	QPSK	1 RB low	24.77	-3.6	21.17	1.83
5	3697.5	QPSK	1 RB high	24.66	-3.6	21.06	1.94
5	3697.5	QPSK	100% RB	23.35	-3.6	19.75	3.25
5	3697.5	16QAM	1 RB low	23.67	-3.6	20.07	2.93
5	3697.5	16QAM	1 RB high	23.50	-3.6	19.90	3.10
5	3697.5	16QAM	100% RB	22.32	-3.6	18.72	4.28
5	3697.5	64QAM	1 RB low	22.65	-3.6	19.05	3.95
5	3697.5	64QAM	1 RB high	22.51	-3.6	18.91	4.09
5	3697.5	64QAM	100% RB	21.33	-3.6	17.73	5.27
5	3697.5	256QAM	1 RB low	19.69	-3.6	16.09	6.91
5	3697.5	256QAM	1 RB high	19.55	-3.6	15.95	7.05
5	3697.5	256QAM	100% RB	19.35	-3.6	15.75	7.25
10	3555	QPSK	1 RB low	23.62	-3.6	20.02	2.98
10	3555	QPSK	1 RB high	23.54	-3.6	19.94	3.06

10	3555	QPSK	100% RB	21.88	-3.6	18.28	4.72
10	3555	16QAM	1 RB low	22.86	-3.6	19.26	3.74
10	3555	16QAM	1 RB high	22.80	-3.6	19.20	3.80
10	3555	16QAM	100% RB	20.83	-3.6	17.23	5.77
10	3555	64QAM	1 RB low	21.74	-3.6	18.14	4.86
10	3555	64QAM	1 RB high	21.64	-3.6	18.04	4.96
10	3555	64QAM	100% RB	19.85	-3.6	16.25	6.75
10	3555	256QAM	1 RB low	18.76	-3.6	15.16	7.84
10	3555	256QAM	1 RB high	18.71	-3.6	15.11	7.89
10	3555	256QAM	100% RB	17.86	-3.6	14.26	8.74
10	3625	QPSK	1 RB low	24.24	-3.6	20.64	2.36
10	3625	QPSK	1 RB high	24.38	-3.6	20.78	2.22
10	3625	QPSK	100% RB	22.61	-3.6	19.01	3.99
10	3625	16QAM	1 RB low	23.48	-3.6	19.88	3.12
10	3625	16QAM	1 RB high	23.64	-3.6	20.04	2.96
10	3625	16QAM	100% RB	21.62	-3.6	18.02	4.98
10	3625	64QAM	1 RB low	22.44	-3.6	18.84	4.16
10	3625	64QAM	1 RB high	22.48	-3.6	18.88	4.12
10	3625	64QAM	100% RB	20.60	-3.6	17.00	6.00
10	3625	256QAM	1 RB low	19.37	-3.6	15.77	7.23
10	3625	256QAM	1 RB high	19.47	-3.6	15.87	7.13
10	3625	256QAM	100% RB	18.58	-3.6	14.98	8.02
10	3695	QPSK	1 RB low	24.92	-3.6	21.32	1.68
10	3695	QPSK	1 RB high	24.62	-3.6	21.02	1.98
10	3695	QPSK	100% RB	22.84	-3.6	19.24	3.76
10	3695	16QAM	1 RB low	23.97	-3.6	20.37	2.63
10	3695	16QAM	1 RB high	23.64	-3.6	20.04	2.96
10	3695	16QAM	100% RB	21.85	-3.6	18.25	4.75
10	3695	64QAM	1 RB low	22.89	-3.6	19.29	3.71
10	3695	64QAM	1 RB high	22.54	-3.6	18.94	4.06
10	3695	64QAM	100% RB	20.83	-3.6	17.23	5.77
10	3695	256QAM	1 RB low	19.85	-3.6	16.25	6.75
10	3695	256QAM	1 RB high	19.50	-3.6	15.90	7.10
10	3695	256QAM	100% RB	18.81	-3.6	15.21	7.79
15	3557.5	QPSK	1 RB low	23.69	-3.6	20.09	2.91
15	3557.5	QPSK	1 RB high	23.71	-3.6	20.11	2.89
15	3557.5	QPSK	100% RB	21.13	-3.6	17.53	5.47
15	3557.5	16QAM	1 RB low	22.89	-3.6	19.29	3.71
15	3557.5	16QAM	1 RB high	22.94	-3.6	19.34	3.66
15	3557.5	16QAM	100% RB	20.14	-3.6	16.54	6.46
15	3557.5	64QAM	1 RB low	22.05	-3.6	18.45	4.55
15	3557.5	64QAM	1 RB high	22.01	-3.6	18.41	4.59
15	3557.5	64QAM	100% RB	19.12	-3.6	15.52	7.48

15	3557.5	256QAM	1 RB low	18.79	-3.6	15.19	7.81
15	3557.5	256QAM	1 RB high	18.84	-3.6	15.24	7.76
15	3557.5	256QAM	100% RB	17.12	-3.6	13.52	9.48
15	3625	QPSK	1 RB low	24.25	-3.6	20.65	2.35
15	3625	QPSK	1 RB high	24.32	-3.6	20.72	2.28
15	3625	QPSK	100% RB	21.87	-3.6	18.27	4.73
15	3625	16QAM	1 RB low	23.49	-3.6	19.89	3.11
15	3625	16QAM	1 RB high	23.55	-3.6	19.95	3.05
15	3625	16QAM	100% RB	20.87	-3.6	17.27	5.73
15	3625	64QAM	1 RB low	22.39	-3.6	18.79	4.21
15	3625	64QAM	1 RB high	22.44	-3.6	18.84	4.16
15	3625	64QAM	100% RB	19.88	-3.6	16.28	6.72
15	3625	256QAM	1 RB low	19.34	-3.6	15.74	7.26
15	3625	256QAM	1 RB high	19.42	-3.6	15.82	7.18
15	3625	256QAM	100% RB	17.86	-3.6	14.26	8.74
15	3692.5	QPSK	1 RB low	24.96	-3.6	21.36	1.64
15	3692.5	QPSK	1 RB high	24.69	-3.6	21.09	1.91
15	3692.5	QPSK	100% RB	22.19	-3.6	18.59	4.41
15	3692.5	16QAM	1 RB low	24.01	-3.6	20.41	2.59
15	3692.5	16QAM	1 RB high	23.58	-3.6	19.98	3.02
15	3692.5	16QAM	100% RB	21.20	-3.6	17.60	5.40
15	3692.5	64QAM	1 RB low	22.90	-3.6	19.30	3.70
15	3692.5	64QAM	1 RB high	22.54	-3.6	18.94	4.06
15	3692.5	64QAM	100% RB	20.19	-3.6	16.59	6.41
15	3692.5	256QAM	1 RB low	19.93	-3.6	16.33	6.67
15	3692.5	256QAM	1 RB high	19.54	-3.6	15.94	7.06
15	3692.5	256QAM	100% RB	18.20	-3.6	14.60	8.40
20	3560	QPSK	1 RB low	23.66	-3.6	20.06	2.94
20	3560	QPSK	1 RB high	23.64	-3.6	20.04	2.96
20	3560	QPSK	100% RB	20.25	-3.6	16.65	6.35
20	3560	16QAM	1 RB low	22.78	-3.6	19.18	3.82
20	3560	16QAM	1 RB high	22.77	-3.6	19.17	3.83
20	3560	16QAM	100% RB	19.25	-3.6	15.65	7.35
20	3560	64QAM	1 RB low	21.81	-3.6	18.21	4.79
20	3560	64QAM	1 RB high	21.78	-3.6	18.18	4.82
20	3560	64QAM	100% RB	18.29	-3.6	14.69	8.31
20	3560	256QAM	1 RB low	18.73	-3.6	15.13	7.87
20	3560	256QAM	1 RB high	18.68	-3.6	15.08	7.92
20	3560	256QAM	100% RB	16.25	-3.6	12.65	10.35
20	3625	QPSK	1 RB low	24.20	-3.6	20.60	2.40
20	3625	QPSK	1 RB high	24.41	-3.6	20.81	2.19
20	3625	QPSK	100% RB	21.04	-3.6	17.44	5.56
20	3625	16QAM	1 RB low	23.57	-3.6	19.97	3.03

20	3625	16QAM	1 RB high	23.64	-3.6	20.04	2.96
20	3625	16QAM	100% RB	20.04	-3.6	16.44	6.56
20	3625	64QAM	1 RB low	22.51	-3.6	18.91	4.09
20	3625	64QAM	1 RB high	22.65	-3.6	19.05	3.95
20	3625	64QAM	100% RB	19.00	-3.6	15.40	7.60
20	3625	256QAM	1 RB low	19.51	-3.6	15.91	7.09
20	3625	256QAM	1 RB high	19.70	-3.6	16.10	6.90
20	3625	256QAM	100% RB	17.01	-3.6	13.41	9.59
20	3690	QPSK	1 RB low	24.89	-3.6	21.29	1.71
20	3690	QPSK	1 RB high	24.42	-3.6	20.82	2.18
20	3690	QPSK	100% RB	21.48	-3.6	17.88	5.12
20	3690	16QAM	1 RB low	24.23	-3.6	20.63	2.37
20	3690	16QAM	1 RB high	23.71	-3.6	20.11	2.89
20	3690	16QAM	100% RB	20.49	-3.6	16.89	6.11
20	3690	64QAM	1 RB low	23.10	-3.6	19.50	3.50
20	3690	64QAM	1 RB high	22.65	-3.6	19.05	3.95
20	3690	64QAM	100% RB	19.43	-3.6	15.83	7.17
20	3690	256QAM	1 RB low	20.15	-3.6	16.55	6.45
20	3690	256QAM	1 RB high	19.67	-3.6	16.07	6.93
20	3690	256QAM	100% RB	17.41	-3.6	13.81	9.19

LTE band 48- EIRP

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -3.6dBi			
5MHz	1 RB high	3697.5	23.78	22.77	21.4	18.55	20.18	19.17	17.80	14.95
		3625.0	22.88	21.9	20.52	18.44	19.28	18.30	16.92	14.84
		3552.5	22.44	21.46	20.09	18.24	18.84	17.86	16.49	14.64
	1 RB low	3697.5	23.78	22.74	21.35	18.22	20.18	19.14	17.75	14.62
		3625.0	22.81	21.81	20.44	18.2	19.21	18.21	16.84	14.60
		3552.5	22.42	21.45	20.09	18.22	18.82	17.85	16.49	14.62
	50% RB mid	3697.5	22.71	21.67	20.72	18.42	19.11	18.07	17.12	14.82
		3625.0	22.8	21.76	20.63	18.38	19.20	18.16	17.03	14.78
		3552.5	22.42	21.34	20.52	18.45	18.82	17.74	16.92	14.85
	100% RB	3697.5	22.72	21.72	20.75	18.53	19.12	18.12	17.15	14.93
		3625.0	21.83	20.85	19.86	18.28	18.23	17.25	16.26	14.68
		3552.5	21.42	20.41	19.44	18.4	17.82	16.81	15.84	14.80
10MHz	1 RB high	3695.0	23.79	22.77	21.38	18.37	20.19	19.17	17.78	14.77
		3625.0	22.97	21.97	20.59	18.54	19.37	18.37	16.99	14.94
		3555.0	22.4	21.43	20.06	18.39	18.80	17.83	16.46	14.79
	1 RB low	3695.0	23.68	22.7	21.32	18.45	20.08	19.10	17.72	14.85
		3625.0	22.73	21.75	20.36	18.41	19.13	18.15	16.76	14.81
		3555.0	22.42	21.46	20.08	18.23	18.82	17.86	16.48	14.63
	50% RB mid	3695.0	22.65	21.67	20.68	18.26	19.05	18.07	17.08	14.66
		3625.0	21.77	20.76	19.79	18.42	18.17	17.16	16.19	14.82
		3555.0	21.35	20.36	19.38	18.26	17.75	16.76	15.78	14.66
	100% RB	3695.0	22.64	21.69	20.66	18.44	19.04	18.09	17.06	14.84
		3625.0	21.77	20.82	19.78	18.57	18.17	17.22	16.18	14.97
		3555.0	21.37	20.4	19.36	18.44	17.77	16.80	15.76	14.84
15MHz	1 RB high	3692.5	23.8	22.81	21.41	18.3	20.20	19.21	17.81	14.70
		3625.0	22.98	22.03	20.64	18.38	19.38	18.43	17.04	14.78
		3557.5	22.43	21.45	20.07	18.59	18.83	17.85	16.47	14.99
	1 RB low	3692.5	23.7	22.71	21.31	18.59	20.10	19.11	17.71	14.99
		3625.0	22.7	21.74	20.35	18.36	19.10	18.14	16.75	14.76
		3557.5	22.46	21.48	20.1	18.57	18.86	17.88	16.50	14.97
	50% RB mid	3692.5	22.68	21.67	20.67	18.32	19.08	18.07	17.07	14.72
		3625.0	21.79	20.78	19.81	18.35	18.19	17.18	16.21	14.75
		3557.5	21.39	20.35	19.39	18.21	17.79	16.75	15.79	14.61
	100% RB	3692.5	22.68	21.74	20.74	18.49	19.08	18.14	17.14	14.89
		3625.0	21.82	20.86	19.85	18.49	18.22	17.26	16.25	14.89
		3557.5	21.38	20.45	19.44	18.48	17.78	16.85	15.84	14.88
20MHz	1 RB high	3690.0	23.59	22.44	21.09	18.24	19.99	18.84	17.49	14.64
		3625.0	22.75	21.89	20.46	18.3	19.15	18.29	16.86	14.70
		3560.0	22.1	21.18	20.03	18.5	18.50	17.58	16.43	14.90

	1 RB low	3690.0	23.43	22.31	20.94	18.43	19.83	18.71	17.34	14.83
		3625.0	22.49	21.64	20.26	18.3	18.89	18.04	16.66	14.70
		3560.0	22.15	21.23	20.03	18.49	18.55	17.63	16.43	14.89
	50% RB mid	3690.0	22.3	21.37	20.36	18.48	18.70	17.77	16.76	14.88
		3625.0	21.62	20.67	19.76	18.32	18.02	17.07	16.16	14.72
		3560.0	21.11	20.15	19.23	18.33	17.51	16.55	15.63	14.73
	100% RB	3690.0	22.3	21.4	20.3	18.36	18.70	17.80	16.70	14.76
		3625.0	21.59	20.72	19.73	18.35	17.99	17.12	16.13	14.75
		3560.0	21.1	20.16	19.23	18.29	17.50	16.56	15.63	14.69

LTE band 66- EIRP

Limits: ≤30dBm (1W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -3.3dBi			
1.4MHz	1 RB high	1779.3	23.29	22.52	21.37	18.47	19.99	19.22	18.07	15.17
		1745	23.25	22.61	21.49	18.55	19.95	19.31	18.19	15.25
		1710.7	23.41	22.69	21.64	18.41	20.11	19.39	18.34	15.11
	1 RB low	1779.3	23.41	22.57	21.36	18.46	20.11	19.27	18.06	15.16
		1745	23.34	22.5	21.45	18.53	20.04	19.20	18.15	15.23
		1710.7	23.46	22.56	21.56	18.44	20.16	19.26	18.26	15.14
	50% RB mid	1779.3	23.26	22.35	21.33	18.37	19.96	19.05	18.03	15.07
		1745	23.29	22.25	21.33	18.4	19.99	18.95	18.03	15.10
		1710.7	23.46	22.4	21.42	18.58	20.16	19.10	18.12	15.28
	100% RB	1779.3	22.25	21.33	20.25	18.52	18.95	18.03	16.95	15.22
		1745	22.3	21.36	20.21	18.32	19.00	18.06	16.91	15.02
		1710.7	22.43	21.53	20.38	18.52	19.13	18.23	17.08	15.22
3MHz	1 RB high	1778.5	23.12	22.34	21.45	18.43	19.82	19.04	18.15	15.13
		1745	23.24	22.49	21.5	18.44	19.94	19.19	18.20	15.14
		1711.5	23.29	22.56	21.49	18.23	19.99	19.26	18.19	14.93
	1 RB low	1778.5	23.11	22.43	21.34	18.37	19.81	19.13	18.04	15.07
		1745	23.31	22.62	21.49	18.57	20.01	19.32	18.19	15.27
		1711.5	23.47	22.64	21.61	18.41	20.17	19.34	18.31	15.11
	50% RB mid	1778.5	22.24	21.27	20.23	18.51	18.94	17.97	16.93	15.21
		1745	22.29	21.38	20.28	18.35	18.99	18.08	16.98	15.05
		1711.5	22.37	21.47	20.39	18.22	19.07	18.17	17.09	14.92
	100% RB	1778.5	22.23	21.23	20.19	18.32	18.93	17.93	16.89	15.02
		1745	22.25	21.28	20.29	18.53	18.95	17.98	16.99	15.23
		1711.5	22.39	21.4	20.37	18.3	19.09	18.10	17.07	15.00
5MHz	1 RB high	1777.5	23.33	22.48	21.49	18.44	20.03	19.18	18.19	15.14
		1745	23.44	22.56	21.45	18.49	20.14	19.26	18.15	15.19
		1712.5	23.42	22.69	21.56	18.2	20.12	19.39	18.26	14.90
	1 RB low	1777.5	23.44	22.49	21.44	18.52	20.14	19.19	18.14	15.22
		1745	23.52	22.75	21.49	18.22	20.22	19.45	18.19	14.92
		1712.5	23.41	22.75	21.59	18.45	20.11	19.45	18.29	15.15
	50% RB mid	1777.5	22.34	21.3	20.29	18.24	19.04	18.00	16.99	14.94
		1745	22.37	21.38	20.31	18.25	19.07	18.08	17.01	14.95
		1712.5	22.44	21.43	20.44	18.21	19.14	18.13	17.14	14.91
	100% RB	1777.5	22.31	21.32	20.19	18.58	19.01	18.02	16.89	15.28
		1745	22.38	21.37	20.33	18.6	19.08	18.07	17.03	15.30
		1712.5	22.47	21.4	20.4	18.38	19.17	18.10	17.10	15.08
10MHz	1 RB high	1775	23.33	22.57	21.43	18.37	20.03	19.27	18.13	15.07
		1745	23.42	22.6	21.52	18.25	20.12	19.30	18.22	14.95

	1 RB low	1715	23.38	22.48	21.46	18.22	20.08	19.18	18.16	14.92
		1775	23.38	22.66	21.43	18.24	20.08	19.36	18.13	14.94
		1745	23.4	22.65	21.58	18.35	20.10	19.35	18.28	15.05
	50% RB mid	1715	23.62	22.68	21.67	18.46	20.32	19.38	18.37	15.16
		1775	22.33	21.32	20.31	18.5	19.03	18.02	17.01	15.20
		1745	22.36	21.34	20.29	18.57	19.06	18.04	16.99	15.27
	100% RB	1715	22.44	21.4	20.4	18.5	19.14	18.10	17.10	15.20
		1775	22.32	21.3	20.3	18.31	19.02	18.00	17.00	15.01
		1745	22.36	21.35	20.35	18.23	19.06	18.05	17.05	14.93
15MHz	1 RB high	1772.5	23.44	22.6	21.44	18.37	20.14	19.30	18.14	15.07
		1745	23.46	22.72	21.53	18.43	20.16	19.42	18.23	15.13
		1717.5	23.42	22.59	21.45	18.31	20.12	19.29	18.15	15.01
	1 RB low	1772.5	23.33	22.51	21.47	18.58	20.03	19.21	18.17	15.28
		1745	23.37	22.66	21.57	18.49	20.07	19.36	18.27	15.19
		1717.5	23.54	22.74	21.66	18.27	20.24	19.44	18.36	14.97
	50% RB mid	1772.5	22.28	21.26	20.26	18.45	18.98	17.96	16.96	15.15
		1745	22.29	21.31	20.31	18.37	18.99	18.01	17.01	15.07
		1717.5	22.31	21.3	20.3	18.48	19.01	18.00	17.00	15.18
	100% RB	1772.5	22.32	21.32	20.31	18.56	19.02	18.02	17.01	15.26
		1745	22.34	21.36	20.34	18.52	19.04	18.06	17.04	15.22
		1717.5	22.36	21.38	20.37	18.33	19.06	18.08	17.07	15.03
20MHz	1 RB high	1770	23.25	22.54	21.36	18.54	19.95	19.24	18.06	15.24
		1745	23.62	22.77	21.65	18.5	20.32	19.47	18.35	15.20
		1720	23.51	22.79	21.57	18.49	20.21	19.49	18.27	15.19
	1 RB low	1770	23.46	22.73	21.65	18.69	20.16	19.43	18.35	15.39
		1745	23.69	22.87	21.65	18.49	20.39	19.57	18.35	15.19
		1720	23.66	22.96	21.68	18.51	20.36	19.66	18.38	15.21
	50% RB mid	1770	22.32	21.33	20.31	18.4	19.02	18.03	17.01	15.10
		1745	22.55	21.54	20.53	18.66	19.25	18.24	17.23	15.36
		1720	22.46	21.49	20.48	18.44	19.16	18.19	17.18	15.14
	100% RB	1770	22.38	21.4	20.37	18.36	19.08	18.10	17.07	15.06
		1745	22.56	21.54	20.51	18.56	19.26	18.24	17.21	15.26
		1720	22.49	21.43	20.48	18.34	19.19	18.13	17.18	15.04

LTE band 71- ERP

Limits: ≤34.77dBm (3W)

Band width	RB size/ offset	Frequency (MHz)	Conducted Power (dBm)				Radiated Power (dBm)			
			QPSK	16QAM	64QAM	256QAM	GT = -5.3dBi			
5MHz	1 RB high	695.5	23.04	22.5	21.4	18.57	15.59	15.05	13.95	11.12
		680.5	23.09	22.63	21.36	18.22	15.64	15.18	13.91	10.77
		665.5	23.06	22.31	21.48	18.6	15.61	14.86	14.03	11.15
	1 RB low	695.5	23.12	22.53	21.5	18.4	15.67	15.08	14.05	10.95
		680.5	23.12	22.59	21.42	18.42	15.67	15.14	13.97	10.97
		665.5	23.07	22.58	21.61	18.2	15.62	15.13	14.16	10.75
	50% RB mid	695.5	23.08	22.09	21.07	18.53	15.63	14.64	13.62	11.08
		680.5	23.08	22.1	20.98	18.38	15.63	14.65	13.53	10.93
		665.5	23.11	22.13	21.03	18.3	15.66	14.68	13.58	10.85
	100% RB	695.5	22.33	21.35	20.36	18.36	14.88	13.90	12.91	10.91
		680.5	22.28	21.25	20.26	18.46	14.83	13.80	12.81	11.01
		665.5	22.33	21.27	20.25	18.42	14.88	13.82	12.80	10.97
10MHz	1 RB high	693	23.09	22.48	21.47	18.42	15.64	15.03	14.02	10.97
		680.5	23.1	22.57	21.48	18.22	15.65	15.12	14.03	10.77
		668	23.13	22.49	21.34	18.25	15.68	15.04	13.89	10.80
	1 RB low	693	23.16	22.49	21.43	18.26	15.71	15.04	13.98	10.81
		680.5	23.11	22.49	21.43	18.52	15.66	15.04	13.98	11.07
		668	23.14	22.63	21.54	18.32	15.69	15.18	14.09	10.87
	50% RB mid	693	22.24	21.22	20.19	18.35	14.79	13.77	12.74	10.90
		680.5	22.25	21.19	20.2	18.37	14.80	13.74	12.75	10.92
		668	22.29	21.26	20.24	18.53	14.84	13.81	12.79	11.08
	100% RB	693	22.22	21.2	20.16	18.58	14.77	13.75	12.71	11.13
		680.5	22.22	21.2	20.17	18.37	14.77	13.75	12.72	10.92
		668	22.2	21.24	20.16	18.33	14.75	13.79	12.71	10.88
15MHz	1 RB high	690.5	23.05	22.52	21.47	18.24	15.60	15.07	14.02	10.79
		680.5	23.08	22.62	21.39	18.42	15.63	15.17	13.94	10.97
		670.5	23.18	22.4	21.4	18.53	15.73	14.95	13.95	11.08
	1 RB low	690.5	23.22	22.56	21.51	18.52	15.77	15.11	14.06	11.07
		680.5	23.24	22.5	21.47	18.6	15.79	15.05	14.02	11.15
		670.5	23.14	22.63	21.48	18.33	15.69	15.18	14.03	10.88
	50% RB mid	690.5	22.31	21.35	20.33	18.59	14.86	13.90	12.88	11.14
		680.5	22.28	21.28	20.31	18.36	14.83	13.83	12.86	10.91
		670.5	22.26	21.25	20.28	18.21	14.81	13.80	12.83	10.76
	100% RB	690.5	22.35	21.35	20.34	18.42	14.90	13.90	12.89	10.97
		680.5	22.3	21.29	20.26	18.25	14.85	13.84	12.81	10.80
		670.5	22.3	21.3	20.26	18.6	14.85	13.85	12.81	11.15
20MHz	1 RB high	688	23.18	22.46	21.47	18.5	15.73	15.01	14.02	11.05
		680.5	23.14	22.4	21.41	18.19	15.69	14.95	13.96	10.74

		673	23.1	22.51	21.42	18.47	15.65	15.06	13.97	11.02
	1 RB low	688	23.29	22.49	21.54	18.58	15.84	15.04	14.09	11.13
		680.5	23.19	22.53	21.45	18.47	15.74	15.08	14.00	11.02
		673	23.23	22.67	21.56	18.33	15.78	15.22	14.11	10.88
	50% RB mid	688	22.38	21.39	20.39	18.21	14.93	13.94	12.94	10.76
		680.5	22.34	21.34	20.31	18.19	14.89	13.89	12.86	10.74
		673	22.3	21.28	20.28	18.26	14.85	13.83	12.83	10.81
	100% RB	688	22.38	21.36	20.31	18.4	14.93	13.91	12.86	10.95
		680.5	22.29	21.27	20.24	18.35	14.84	13.82	12.79	10.90
		673	22.3	21.29	20.3	18.28	14.85	13.84	12.85	10.83

LTE band 7C- EIRP
Limits: ≤33dBm (2W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -3.9dBi
				Size	Offset	Size	Offset		
10MHz/20MHz	2525.6	2540	QPSK	1	49	1	0	22.62	18.72
			QPSK	50	0	100	0	20.59	16.69
			16QAM	1	49	1	0	21.64	17.74
			16QAM	50	0	100	0	19.63	15.73
			64QAM	1	49	1	0	19.43	15.53
			64QAM	50	0	100	0	19.69	15.79
			256QAM	1	49	1	0	17.6	13.7
			256QAM	50	0	100	0	17.65	13.75
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	22.75	18.85
			QPSK	75	0	50	0	20.71	16.81
			16QAM	1	74	1	0	21.4	17.5
			16QAM	75	0	50	0	19.78	15.88
			64QAM	1	74	1	0	19.35	15.45
			64QAM	75	0	50	0	19.72	15.82
			256QAM	1	74	1	0	17.58	13.68
			256QAM	75	0	50	0	17.71	13.81
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	22.81	18.91
			QPSK	75	0	75	0	20.61	16.71
			16QAM	1	74	1	0	21.44	17.54
			16QAM	75	0	75	0	19.66	15.76
			64QAM	1	74	1	0	19.67	15.77
			64QAM	75	0	75	0	19.67	15.77
			256QAM	1	74	1	0	17.64	13.74
			256QAM	75	0	75	0	17.64	13.74
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	22.79	18.89
			QPSK	75	0	100	0	20.67	16.77
			16QAM	1	74	1	0	21.44	17.54
			16QAM	75	0	100	0	19.66	15.76
			64QAM	1	74	1	0	19.69	15.79
			64QAM	75	0	100	0	19.67	15.77
			256QAM	1	74	1	0	17.6	13.7
			256QAM	75	0	100	0	17.68	13.78
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	22.88	18.98
			QPSK	100	0	50	0	20.75	16.85
			16QAM	1	99	1	0	21.66	17.76
			16QAM	100	0	50	0	19.76	15.86
			64QAM	1	99	1	0	19.77	15.87

			64QAM	100	0	50	0	19.81	15.91
			256QAM	1	99	1	0	17.51	13.61
			256QAM	100	0	50	0	17.75	13.85
20MHz/15MHz	2527.6	2544.7	QPSK	1	99	1	0	22.9	19
			QPSK	100	0	75	0	20.77	16.87
			16QAM	1	99	1	0	21.71	17.81
			16QAM	100	0	75	0	19.77	15.87
			64QAM	1	99	1	0	19.5	15.6
			64QAM	100	0	75	0	19.79	15.89
			256QAM	1	99	1	0	17.6	13.7
			256QAM	100	0	75	0	17.76	13.86
20MHz/20MHz	2525.1	2544.9	QPSK	1	99	1	0	22.94	19.04
			QPSK	100	0	100	0	20.79	16.89
			16QAM	1	99	1	0	21.85	17.95
			16QAM	100	0	100	0	19.77	15.87
			64QAM	1	99	1	0	19.83	15.93
			64QAM	100	0	100	0	19.82	15.92
			256QAM	1	99	1	0	17.64	13.74
			256QAM	100	0	100	0	17.72	13.82

LTE band 48C- EIRP

Limits: ≤23dBm/10MHz

PCC/SCC BW (MHz)	PCC Freq (MHz)	SCC Freq (MHz)	Modulation	PCC RB	SCC RB	Conducted Power (dBm/10MHz)	Antenna Gain (dBi)	EIRP (dBm/10MHz)	Margin (dB)
5/20	3615.8	3627.5	QPSK	1 RB high	1 RB low	24.53	-3.6	20.93	2.07
5/20	3615.8	3627.5	QPSK	100% RB	100% RB	20.24	-3.6	16.64	6.36
5/20	3615.8	3627.5	16QAM	1 RB high	1 RB low	23.37	-3.6	19.77	3.23
5/20	3615.8	3627.5	16QAM	100% RB	100% RB	19.26	-3.6	15.66	7.34
5/20	3615.8	3627.5	64QAM	1 RB high	1 RB low	21.41	-3.6	17.81	5.19
5/20	3615.8	3627.5	64QAM	100% RB	100% RB	19.25	-3.6	15.65	7.35
5/20	3615.8	3627.5	256QAM	1 RB high	1 RB low	19.47	-3.6	15.87	7.13
5/20	3615.8	3627.5	256QAM	100% RB	100% RB	17.26	-3.6	13.66	9.34
10/20	3615.6	3630	QPSK	1 RB high	1 RB low	24.61	-3.6	21.01	1.99
10/20	3615.6	3630	QPSK	100% RB	100% RB	19.29	-3.6	15.69	7.31
10/20	3615.6	3630	16QAM	1 RB high	1 RB low	23.75	-3.6	20.15	2.85
10/20	3615.6	3630	16QAM	100% RB	100% RB	18.30	-3.6	14.70	8.30
10/20	3615.6	3630	64QAM	1 RB high	1 RB low	21.46	-3.6	17.86	5.14
10/20	3615.6	3630	64QAM	100% RB	100% RB	18.34	-3.6	14.74	8.26
10/20	3615.6	3630	256QAM	1 RB high	1 RB low	19.52	-3.6	15.92	7.08
10/20	3615.6	3630	256QAM	100% RB	100% RB	16.30	-3.6	12.70	10.30
15/20	3615.3	3632.4	QPSK	1 RB high	1 RB low	25.02	-3.6	21.42	1.58
15/20	3615.3	3632.4	QPSK	100% RB	100% RB	18.27	-3.6	14.67	8.33
15/20	3615.3	3632.4	16QAM	1 RB high	1 RB low	23.86	-3.6	20.26	2.74
15/20	3615.3	3632.4	16QAM	100% RB	100% RB	17.27	-3.6	13.67	9.33
15/20	3615.3	3632.4	64QAM	1 RB high	1 RB low	21.55	-3.6	17.95	5.05
15/20	3615.3	3632.4	64QAM	100% RB	100% RB	17.28	-3.6	13.68	9.32
15/20	3615.3	3632.4	256QAM	1 RB high	1 RB low	19.69	-3.6	16.09	6.91
15/20	3615.3	3632.4	256QAM	100% RB	100% RB	15.30	-3.6	11.70	11.30
5/20	3622.5	3634.2	QPSK	1 RB high	1 RB low	24.61	-3.6	21.01	1.99
5/20	3622.5	3634.2	QPSK	100% RB	100% RB	20.00	-3.6	16.40	6.60
5/20	3622.5	3634.2	16QAM	1 RB high	1 RB low	23.81	-3.6	20.21	2.79
5/20	3622.5	3634.2	16QAM	100% RB	100% RB	18.96	-3.6	15.36	7.64
5/20	3622.5	3634.2	64QAM	1 RB high	1 RB low	21.50	-3.6	17.90	5.10
5/20	3622.5	3634.2	64QAM	100% RB	100% RB	18.95	-3.6	15.35	7.65
5/20	3622.5	3634.2	256QAM	1 RB high	1 RB low	19.53	-3.6	15.93	7.07
5/20	3622.5	3634.2	256QAM	100% RB	100% RB	17.01	-3.6	13.41	9.59
10/20	3620.1	3634.5	QPSK	1 RB high	1 RB low	24.57	-3.6	20.97	2.03
10/20	3620.1	3634.5	QPSK	100% RB	100% RB	19.05	-3.6	15.45	7.55
10/20	3620.1	3634.5	16QAM	1 RB high	1 RB low	23.55	-3.6	19.95	3.05
10/20	3620.1	3634.5	16QAM	100% RB	100% RB	18.12	-3.6	14.52	8.48
10/20	3620.1	3634.5	64QAM	1 RB high	1 RB low	21.71	-3.6	18.11	4.89



10/20	3620.1	3634.5	64QAM	100% RB	100% RB	18.04	-3.6	14.44	8.56
10/20	3620.1	3634.5	256QAM	1 RB high	1 RB low	19.57	-3.6	15.97	7.03
10/20	3620.1	3634.5	256QAM	100% RB	100% RB	16.06	-3.6	12.46	10.54
20/15	3617.6	3634.7	QPSK	1 RB high	1 RB low	24.83	-3.6	21.23	1.77
20/15	3617.6	3634.7	QPSK	100% RB	100% RB	18.06	-3.6	14.46	8.54
20/15	3617.6	3634.7	16QAM	1 RB high	1 RB low	23.91	-3.6	20.31	2.69
20/15	3617.6	3634.7	16QAM	100% RB	100% RB	17.05	-3.6	13.45	9.55
20/15	3617.6	3634.7	64QAM	1 RB high	1 RB low	21.66	-3.6	18.06	4.94
20/15	3617.6	3634.7	64QAM	100% RB	100% RB	16.95	-3.6	13.35	9.65
20/15	3617.6	3634.7	256QAM	1 RB high	1 RB low	19.66	-3.6	16.06	6.94
20/15	3617.6	3634.7	256QAM	100% RB	100% RB	15.03	-3.6	11.43	11.57
20/20	3615.1	3634.9	QPSK	1 RB high	1 RB low	24.63	-3.6	21.03	1.97
20/20	3615.1	3634.9	QPSK	100% RB	100% RB	17.39	-3.6	13.79	9.21
20/20	3615.1	3634.9	16QAM	1 RB high	1 RB low	23.71	-3.6	20.11	2.89
20/20	3615.1	3634.9	16QAM	100% RB	100% RB	16.42	-3.6	12.82	10.18
20/20	3615.1	3634.9	64QAM	1 RB high	1 RB low	21.52	-3.6	17.92	5.08
20/20	3615.1	3634.9	64QAM	100% RB	100% RB	16.38	-3.6	12.78	10.22
20/20	3615.1	3634.9	256QAM	1 RB high	1 RB low	19.63	-3.6	16.03	6.97
20/20	3615.1	3634.9	256QAM	100% RB	100% RB	14.37	-3.6	10.77	12.23

LTE band 48C- EIRP

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power (dBm) (Gt-Lc =-3.6)
				Size	Offset	Size	Offset		
5MHz/20MHz	3615.8	3627.5	QPSK	1	24	1	0	22.25	18.65
				25	0	100	0	20.37	16.77
			16QAM	1	24	1	0	21.24	17.64
				25	0	100	0	19.44	15.84
			64QAM	1	24	1	0	19.16	15.56
				25	0	100	0	19.43	15.83
			256QAM	1	24	1	0	17.29	13.69
				25	0	100	0	17.41	13.81
10MHz/20MHz	3615.6	3630	QPSK	1	49	1	0	22.5	18.9
				50	0	100	0	20.43	16.83
			16QAM	1	49	1	0	21.38	17.78
				50	0	100	0	19.44	15.84
			64QAM	1	49	1	0	19.16	15.56
				50	0	100	0	19.45	15.85
			256QAM	1	49	1	0	17.3	13.7
				50	0	100	0	17.42	13.82
15MHz/20MHz	3615.3	3632.4	QPSK	1	74	1	0	22.57	18.97
				75	0	100	0	20.39	16.79
			16QAM	1	74	1	0	21.16	17.56
				75	0	100	0	19.4	15.8
			64QAM	1	74	1	0	19.52	15.92
				75	0	100	0	19.43	15.83
			256QAM	1	74	1	0	17.6	14
				75	0	100	0	17.43	13.83
20MHz/5MHz	3622.5	3634.2	QPSK	1	99	1	0	22.43	18.83
				100	0	25	0	20.24	16.64
			16QAM	1	99	1	0	21.33	17.73
				100	0	25	0	19.36	15.76
			64QAM	1	99	1	0	19.56	15.96
				100	0	25	0	19.34	15.74
			256QAM	1	99	1	0	17.65	14.05
				100	0	25	0	17.39	13.79
20MHz/10MHz	3620.1	3634.5	QPSK	1	99	1	0	22.43	18.83
				100	0	50	0	20.32	16.72
			16QAM	1	99	1	0	21.54	17.94
				100	0	50	0	19.34	15.74
			64QAM	1	99	1	0	19.49	15.89
				100	0	50	0	19.39	15.79
			256QAM	1	99	1	0	17.73	14.13

				100	0	50	0	17.42	13.82
20MHz/15MHz	3617.6	3634.7	QPSK	1	99	1	0	22.46	18.86
				100	0	75	0	20.28	16.68
			16QAM	1	99	1	0	21.58	17.98
				100	0	75	0	19.37	15.77
			64QAM	1	99	1	0	19.55	15.95
				100	0	75	0	19.4	15.8
			256QAM	1	99	1	0	17.74	14.14
				100	0	75	0	17.42	13.82
20MHz/20MHz	3615.1	3634.9	QPSK	1	99	1	0	22.45	18.85
				100	0	100	0	20.36	16.76
			16QAM	1	99	1	0	21.56	17.96
				100	0	100	0	19.37	15.77
			64QAM	1	99	1	0	19.51	15.91
				100	0	100	0	19.39	15.79
			256QAM	1	99	1	0	17.78	14.18
				100	0	100	0	17.43	13.83

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

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -3.3dBi
				Size	Offset	Size	Offset		
5MHz/5MHz	1752.6	1757.4	QPSK	1	24	1	0	22.53	19.23
				25	0	25	0	20.6	17.3
			16QAM	1	24	1	0	21.6	18.3
				25	0	25	0	19.64	16.34
			64QAM	1	24	1	0	19.53	16.23
				25	0	25	0	19.57	16.27
			256QAM	1	24	1	0	17.6	14.3
				25	0	25	0	17.62	14.32
5MHz/10MHz	1750.3	1757.5	QPSK	1	24	1	0	22.63	19.33
				25	0	50	0	20.68	17.38
			16QAM	1	24	1	0	21.72	18.42
				25	0	50	0	19.69	16.39
			64QAM	1	24	1	0	19.55	16.25
				25	0	50	0	19.68	16.38
			256QAM	1	24	1	0	17.72	14.42
				25	0	50	0	17.7	14.4
5MHz/15MHz	1748.1	1757.4	QPSK	1	24	1	0	22.73	19.43
				25	0	75	0	20.7	17.4
			16QAM	1	24	1	0	21.78	18.48
				25	0	75	0	19.72	16.42
			64QAM	1	24	1	0	19.73	16.43
				25	0	75	0	19.72	16.42
			256QAM	1	24	1	0	17.78	14.48
				25	0	75	0	17.69	14.39
10MHz/5MHz	1752.5	1759.7	QPSK	1	49	1	0	22.63	19.33
				50	0	25	0	20.68	17.38
			16QAM	1	49	1	0	21.71	18.41
				50	0	25	0	19.7	16.4
			64QAM	1	49	1	0	19.56	16.26
				50	0	25	0	19.66	16.36
			256QAM	1	49	1	0	17.58	14.28
				50	0	25	0	17.73	14.43
10MHz/10MHz	1750.1	1760	QPSK	1	49	1	0	22.68	19.38
				50	0	50	0	20.67	17.37
			16QAM	1	49	1	0	21.69	18.39
				50	0	50	0	19.73	16.43
			64QAM	1	49	1	0	19.53	16.23
				1	49	1	0	19.53	16.23

				50	0	50	0	19.72	16.42
			256QAM	1	49	1	0	17.66	14.36
				50	0	50	0	17.74	14.44
15MHz/5MHz	1752.6	1761.9	QPSK	1	74	1	0	22.66	19.36
				75	0	25	0	20.66	17.36
			16QAM	1	74	1	0	21.73	18.43
				75	0	25	0	19.65	16.35
			64QAM	1	74	1	0	19.51	16.21
				75	0	25	0	19.69	16.39
			256QAM	1	74	1	0	17.58	14.28
				75	0	25	0	17.71	14.41

LTE band 66C- EIRP
Limits: ≤30dBm (1W)

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	Radiated Power(dBm) GT = -3.3dBi
				Size	Offset	Size	Offset		
5MHz/20MHz	1745.8	1757.5	QPSK	1	24	1	0	22.76	19.46
			QPSK	25	0	100	0	20.71	17.41
			16QAM	1	24	1	0	21.84	18.54
			16QAM	25	0	100	0	19.65	16.35
			64QAM	1	24	1	0	19.71	16.41
			64QAM	25	0	100	0	19.69	16.39
			256QAM	1	24	1	0	17.84	14.54
			256QAM	25	0	100	0	17.7	14.4
10MHz/15MHz	1747.9	1759.9	QPSK	1	49	1	0	22.71	19.41
			QPSK	50	0	75	0	20.67	17.37
			16QAM	1	49	1	0	21.79	18.49
			16QAM	50	0	75	0	19.71	16.41
			64QAM	1	49	1	0	19.52	16.22
			64QAM	50	0	75	0	19.7	16.4
			256QAM	1	49	1	0	17.67	14.37
			256QAM	50	0	75	0	17.71	14.41
10MHz/20MHz	1745.6	1760.0	QPSK	1	49	1	0	22.82	19.52
			QPSK	50	0	100	0	20.72	17.42
			16QAM	1	49	1	0	21.58	18.28
			16QAM	50	0	100	0	19.69	16.39
			64QAM	1	49	1	0	19.57	16.27
			64QAM	50	0	100	0	19.71	16.41
			256QAM	1	49	1	0	17.71	14.41
			256QAM	50	0	100	0	17.75	14.45
15MHz/10MHz	1750.1	1762.1	QPSK	1	74	1	0	22.67	19.37
			QPSK	75	0	50	0	20.66	17.36
			16QAM	1	74	1	0	21.77	18.47
			16QAM	75	0	50	0	19.64	16.34
			64QAM	1	74	1	0	19.53	16.23
			64QAM	75	0	50	0	19.66	16.36
			256QAM	1	74	1	0	17.62	14.32
			256QAM	75	0	50	0	17.66	14.36
15MHz/15MHz	1747.5	1762.5	QPSK	1	74	1	0	22.73	19.43
			QPSK	75	0	75	0	20.72	17.42
			16QAM	1	74	1	0	21.76	18.46
			16QAM	75	0	75	0	19.68	16.38
			64QAM	1	74	1	0	19.56	16.26

			64QAM	75	0	75	0	19.72	16.42
			256QAM	1	74	1	0	17.64	14.34
			256QAM	75	0	75	0	17.7	14.4
15MHz/20MHz	1745.3	1762.4	QPSK	1	74	1	0	22.79	19.49
			QPSK	75	0	100	0	20.74	17.44
			16QAM	1	74	1	0	21.81	18.51
			16QAM	75	0	100	0	19.7	16.4
			64QAM	1	74	1	0	19.52	16.22
			64QAM	75	0	100	0	19.74	16.44
			256QAM	1	74	1	0	17.68	14.38
			256QAM	75	0	100	0	17.72	14.42
20MHz/5MHz	1752.5	1764.2	QPSK	1	99	1	0	22.67	19.37
			QPSK	100	0	25	0	20.67	17.37
			16QAM	1	99	1	0	21.64	18.34
			16QAM	100	0	25	0	19.66	16.36
			64QAM	1	99	1	0	19.76	16.46
			64QAM	100	0	25	0	19.62	16.32
			256QAM	1	99	1	0	17.7	14.4
			256QAM	100	0	25	0	17.63	14.33
20MHz/10MHz	1750.1	1764.5	QPSK	1	99	1	0	22.66	19.36
			QPSK	100	0	50	0	20.66	17.36
			16QAM	1	99	1	0	21.52	18.22
			16QAM	100	0	50	0	19.7	16.4
			64QAM	1	99	1	0	19.7	16.4
			64QAM	100	0	50	0	19.65	16.35
			256QAM	1	99	1	0	17.79	14.49
			256QAM	100	0	50	0	17.68	14.38
20MHz/15MHz	1747.6	1764.7	QPSK	1	99	1	0	22.66	19.36
			QPSK	100	0	75	0	20.7	17.4
			16QAM	1	99	1	0	21.53	18.23
			16QAM	100	0	75	0	19.74	16.44
			64QAM	1	99	1	0	19.74	16.44
			64QAM	100	0	75	0	19.7	16.4
			256QAM	1	99	1	0	17.83	14.53
			256QAM	100	0	75	0	17.7	14.4
20MHz/20MHz	1745.1	1764.9	QPSK	1	99	1	0	22.71	19.41
			QPSK	100	0	100	0	20.73	17.43
			16QAM	1	99	1	0	21.83	18.53
			16QAM	100	0	100	0	19.73	16.43
			64QAM	1	99	1	0	19.74	16.44
			64QAM	100	0	100	0	19.7	16.4
			256QAM	1	99	1	0	17.86	14.56
			256QAM	100	0	100	0	17.71	14.41

A.2 Emission Limit

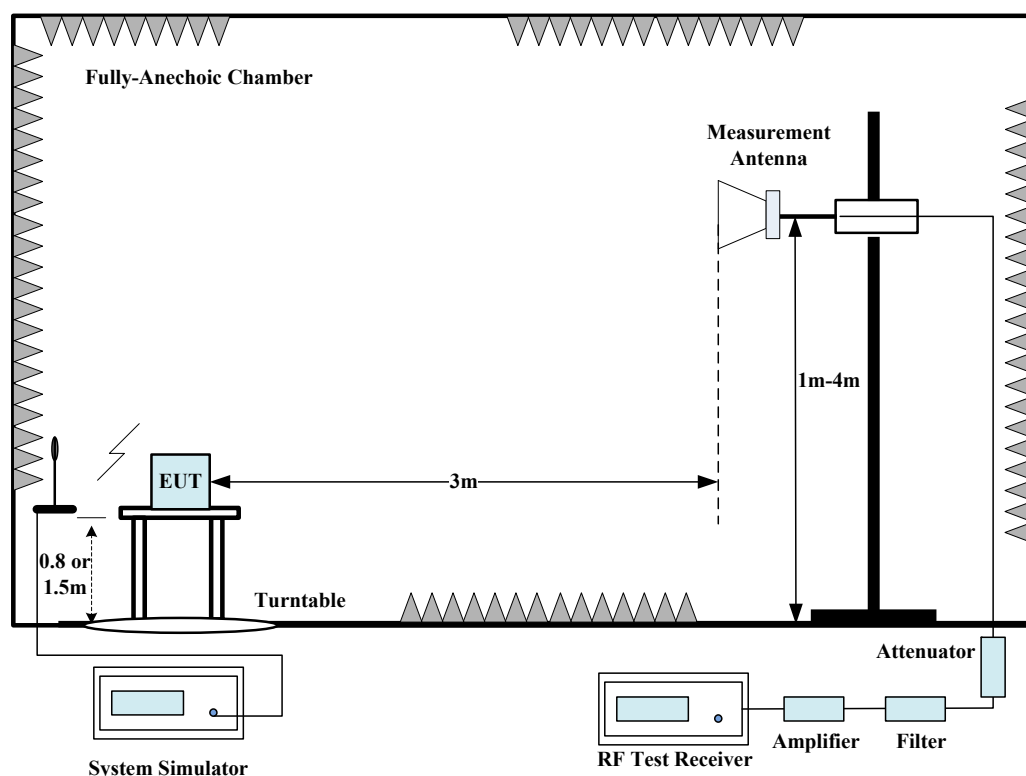
A.2.1 Measurement Method

The measurement procedures in C63.26 are used.

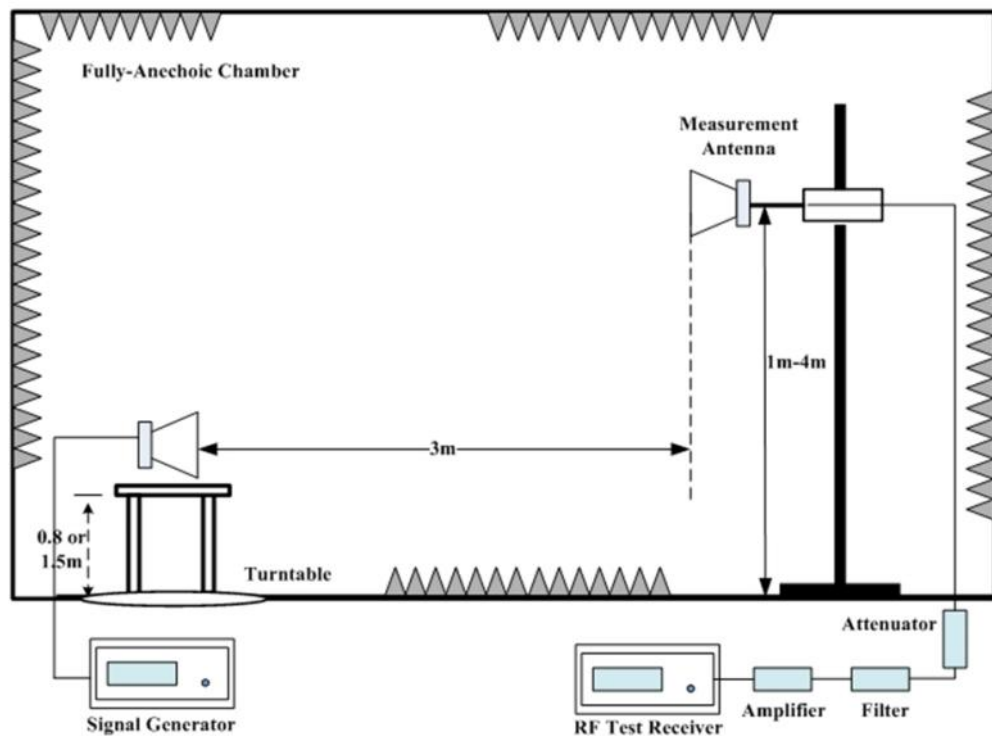
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and 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 7: 27.53(m)(4) specifies that For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(4) 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 13: Part 27.53(f) states for operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FDD Band 14: Part 90.543(e)(3) states for On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

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 26_Part90: Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FDD Band 26_Part22: 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 30: Part 27.53(a)(4) specifies that the power of any emission is $70 + 10 \log (P)$ dB below 2288 MHz and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

TDD Band 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.

TDD Band 48: Part 96.41(e) specifies the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

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.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

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

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

A.2.4 Measurement Results Table

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

A.2.5 Sweep Table

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

Test note

Investigation has been done on all modes and modulations/data rates. In total, three EUT elevation positions are measured. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

A.2.6 Measurement Result

LTE Band 7, 5 MHz, QPSK, Channel 20775

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005.00	-61.00	5.15	11.33	-54.82	-25.00	29.82	H
7508.00	-45.90	7.70	10.22	-43.38	-25.00	18.38	V
10020.50	-49.07	9.34	11.78	-46.63	-25.00	21.63	V
12515.00	-45.07	12.38	13.56	-43.89	-25.00	18.89	V
15003.00	-44.95	14.75	14.61	-45.09	-25.00	20.09	V
17505.50	-33.33	19.72	13.11	-39.94	-25.00	14.94	V

LTE Band 7, 5 MHz, QPSK, Channel 21100

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.00	-60.86	5.30	11.60	-54.56	-25.00	29.56	H
7605.50	-41.86	7.58	10.31	-39.13	-25.00	14.13	H
10141.00	-48.65	9.74	11.78	-46.61	-25.00	21.61	H
12675.50	-43.14	11.69	13.15	-41.68	-25.00	16.68	H
15208.00	-46.06	15.11	15.02	-46.15	-25.00	21.15	H
17733.50	-34.25	19.56	13.43	-40.38	-25.00	15.38	H

LTE Band 7, 5 MHz, QPSK, Channel 21425

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.50	-60.43	5.55	11.60	-54.38	-25.00	29.38	H
7703.00	-42.05	6.72	10.61	-38.16	-25.00	13.16	H
10270.50	-47.20	10.76	11.90	-46.06	-25.00	21.06	H
12838.00	-42.04	13.04	12.92	-42.16	-25.00	17.16	H
15405.50	-46.22	14.90	15.41	-45.71	-25.00	20.71	H
17963.00	-33.75	20.02	13.47	-40.30	-25.00	15.30	H

LTE Band 12, 1.4MHz, QPSK, Channel 23017

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2099.50	-46.61	3.52	7.80	2.15	-44.48	-13.00	31.48	V
2807.00	-50.47	5.22	10.41	2.15	-47.43	-13.00	34.43	V
4198.50	-51.24	4.16	10.10	2.15	-47.45	-13.00	34.45	H
4898.50	-49.08	4.86	11.00	2.15	-45.09	-13.00	32.09	V
5598.00	-49.85	5.66	11.30	2.15	-46.36	-13.00	33.36	H
6298.50	-49.29	6.06	10.80	2.15	-46.70	-13.00	33.70	H

LTE Band 12, 1.4MHz, QPSK, Channel 23095

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2123.00	-46.39	3.72	8.17	2.15	-44.09	-13.00	31.09	V
2822.50	-51.91	5.12	10.44	2.15	-48.74	-13.00	35.74	V
3537.50	-52.88	3.28	10.25	2.15	-48.06	-13.00	35.06	H
4245.50	-51.89	4.94	10.28	2.15	-48.70	-13.00	35.70	V
5660.00	-50.55	5.73	11.40	2.15	-47.03	-13.00	34.03	H
6368.50	-51.80	5.76	10.94	2.15	-48.77	-13.00	35.77	H

LTE Band 12, 1.4MHz, QPSK, Channel 23173

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2146.00	-51.55	3.71	8.54	2.15	-48.87	-13.00	35.87	V
2872.50	-51.28	5.42	10.64	2.15	-48.21	-13.00	35.21	H
3576.00	-57.99	3.06	10.40	2.15	-52.80	-13.00	39.80	H
4292.50	-55.93	4.65	10.56	2.15	-52.17	-13.00	39.17	V
5007.50	-53.27	5.14	11.34	2.15	-49.22	-13.00	36.22	H
5723.00	-49.23	5.90	11.35	2.15	-45.93	-13.00	32.93	H

LTE Band 13, 5MHz, QPSK, Channel 23205

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1559.26	-64.04	6.94	8.77	0.00	-62.21	-40.00	22.21	H
2338.76	-43.75	8.56	10.20	2.15	-44.26	-13.00	31.26	V
4677.50	-46.51	11.10	11.25	2.15	-48.52	-13.00	35.52	H
5457.50	-41.15	11.26	11.22	2.15	-43.34	-13.00	30.34	H
6237.50	-38.13	12.52	10.47	2.15	-42.33	-13.00	29.33	H
7017.00	-42.34	12.51	10.40	2.15	-46.60	-13.00	33.60	H

LTE Band 13, 5MHz, QPSK, Channel 23230

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1564.36	-64.76	6.94	8.81	0.00	-62.88	-40.00	22.88	H
2346.70	-41.66	8.51	10.26	2.15	-42.06	-13.00	29.06	H
4692.50	-44.73	11.10	11.29	2.15	-46.69	-13.00	33.69	H
5475.50	-37.60	11.26	11.18	2.15	-39.83	-13.00	26.83	H
6257.00	-37.98	12.84	10.53	2.15	-42.44	-13.00	29.44	H
7039.50	-42.97	13.02	10.45	2.15	-47.69	-13.00	34.69	H

LTE Band 13, 5MHz, QPSK, Channel 23255

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1569.20	-64.46	6.94	8.85	0.00	-62.54	-40.00	22.54	H
2354.15	-38.60	8.54	10.17	2.15	-39.12	-13.00	26.12	H
3923.00	-49.73	10.10	10.25	2.15	-51.74	-13.00	38.74	H
4707.50	-41.46	11.44	11.19	2.15	-43.86	-13.00	30.86	H
5492.50	-36.49	11.26	11.15	2.15	-38.76	-13.00	25.76	H
6277.50	-35.30	12.48	10.53	2.15	-39.40	-13.00	26.40	H

LTE Band 14, 5MHz, QPSK, Channel 23305

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1581.44	-63.80	6.89	8.95	0.00	-61.74	-40.00	21.74	H
2372.02	-42.65	8.45	10.19	2.15	-43.07	-13.00	30.07	H
4744.50	-39.88	11.44	11.16	2.15	-42.32	-13.00	29.32	H
5534.50	-36.88	11.63	11.20	2.15	-39.46	-13.00	26.46	H
6325.50	-37.84	12.43	10.58	2.15	-41.84	-13.00	28.84	H
7907.00	-41.37	13.64	11.07	2.15	-46.09	-13.00	33.09	H

LTE Band 14, 5MHz, QPSK, Channel 23330

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1586.29	-65.59	6.89	8.99	0.00	-63.49	-40.00	23.49	H
4759.50	-41.28	11.25	11.19	2.15	-43.48	-13.00	30.48	H
5552.00	-35.18	11.63	11.20	2.15	-37.76	-13.00	24.76	H
6345.50	-37.11	12.41	10.62	2.15	-41.05	-13.00	28.05	H
7138.50	-40.13	12.83	10.29	2.15	-44.82	-13.00	31.82	H
7931.50	-40.31	13.64	11.10	2.15	-45.01	-13.00	32.01	H

LTE Band 14, 5MHz, QPSK, Channel 23355

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1591.39	-65.70	6.83	9.03	0.00	-63.50	-40.00	23.50	H
2386.91	-45.34	8.45	10.20	2.15	-45.74	-13.00	32.74	H
4774.00	-38.85	11.25	11.18	2.15	-41.07	-13.00	28.07	H
5569.50	-35.17	11.63	11.20	2.15	-37.75	-13.00	24.75	H
6366.00	-38.09	12.26	10.60	2.15	-41.90	-13.00	28.90	H
7161.00	-32.45	13.20	10.21	2.15	-37.58	-13.00	24.58	H

LTE Band 25, 1.4MHz, QPSK, Channel 26047

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.00	-54.09	3.47	10.40	-47.16	-13.00	34.16	H
5552.00	-55.29	5.32	11.20	-49.41	-13.00	36.41	H
7403.00	-39.75	8.08	10.10	-37.73	-13.00	24.73	H
9254.00	-35.68	8.85	11.70	-32.83	-13.00	19.83	H
11105.00	-44.39	9.75	12.60	-41.54	-13.00	28.54	H
12941.50	-45.24	12.47	12.76	-44.95	-13.00	31.95	V

LTE Band 25, 1.4MHz, QPSK, Channel 26365

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-50.43	3.79	10.14	-44.08	-13.00	31.08	H
5647.50	-53.61	5.60	11.40	-47.81	-13.00	34.81	H
7530.50	-38.23	7.72	10.26	-35.69	-13.00	22.69	H
9412.50	-36.97	9.06	11.55	-34.48	-13.00	21.48	H
11296.00	-41.39	10.61	12.60	-39.40	-13.00	26.40	H
13181.50	-43.90	13.14	12.52	-44.52	-13.00	31.52	H

LTE Band 25, 1.4MHz, QPSK, Channel 26683

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3828.50	-51.09	3.92	9.94	-45.07	-13.00	32.07	H
5743.00	-48.02	5.86	11.31	-42.57	-13.00	29.57	H
7657.50	-39.26	6.90	10.43	-35.73	-13.00	22.73	H
9572.00	-35.13	8.64	11.90	-31.87	-13.00	18.87	H
11486.00	-35.13	12.28	12.51	-34.90	-13.00	21.90	H
13400.50	-40.26	12.46	12.40	-40.32	-13.00	27.32	H

LTE Band 26_Part22, 1.4MHz, QPSK, Channel 26797

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1649.50	-50.13	2.60	9.50	2.15	-45.38	-13.00	32.38	H
2474.00	-50.36	4.33	10.35	2.15	-46.49	-13.00	33.49	V
4949.00	-53.40	4.91	11.20	2.15	-49.26	-13.00	36.26	H
5773.00	-52.12	5.68	11.16	2.15	-48.79	-13.00	35.79	H
6597.50	-50.48	7.11	10.32	2.15	-49.42	-13.00	36.42	H
7422.50	-47.84	7.97	10.10	2.15	-47.86	-13.00	34.86	V

LTE Band 26_Part22, 1.4MHz, QPSK, Channel 26915

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2510.00	-44.42	4.42	10.30	2.15	-40.69	-13.00	27.69	H
4183.00	-53.10	4.07	10.07	2.15	-49.25	-13.00	36.25	H
5019.00	-50.99	5.10	11.41	2.15	-46.83	-13.00	33.83	H
5856.50	-49.16	5.61	10.97	2.15	-45.95	-13.00	32.95	H
6693.00	-49.21	6.20	10.49	2.15	-47.07	-13.00	34.07	H
7529.00	-47.58	7.71	10.26	2.15	-47.18	-13.00	34.18	H

LTE Band 26_Part22, 1.4MHz, QPSK, Channel 27033

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2545.50	-45.95	4.61	10.30	2.15	-42.41	-13.00	29.41	V
4241.50	-52.79	4.44	10.27	2.15	-49.11	-13.00	36.11	H
5090.50	-49.98	5.30	11.60	2.15	-45.83	-13.00	32.83	H
5938.50	-46.88	6.00	10.72	2.15	-44.31	-13.00	31.31	H
7635.00	-44.26	6.75	10.37	2.15	-42.79	-13.00	29.79	V
8484.00	-48.05	8.88	11.30	2.15	-47.78	-13.00	34.78	V

LTE Band 26_Part90, 1.4MHz, QPSK, Channel 26697

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1629.50	-51.59	2.39	9.34	2.15	-46.79	-13.00	33.79	H
2444.50	-44.15	4.55	10.38	2.15	-40.47	-13.00	27.47	V
4888.50	-47.87	4.81	10.98	2.15	-43.85	-13.00	30.85	V
5703.50	-46.78	5.67	11.39	2.15	-43.21	-13.00	30.21	H
6518.00	-47.51	6.27	10.60	2.15	-45.33	-13.00	32.33	H
8147.50	-50.63	8.19	11.10	2.15	-49.87	-13.00	36.87	H

LTE Band 26_Part90, 1.4MHz, QPSK, Channel 26740

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1638.00	-53.00	2.40	9.40	2.15	-48.15	-13.00	35.15	H
2457.50	-50.24	4.42	10.38	2.15	-46.43	-13.00	33.43	H
4095.50	-54.56	3.93	10.09	2.15	-50.55	-13.00	37.55	H
4914.50	-48.29	4.95	11.06	2.15	-44.33	-13.00	31.33	H
5733.50	-49.80	5.88	11.33	2.15	-46.50	-13.00	33.50	H
6553.50	-47.90	6.31	10.58	2.15	-45.78	-13.00	32.78	H

LTE Band 26_Part90, 1.4MHz, QPSK, Channel 26783

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1647.00	-51.22	2.62	9.48	2.15	-46.51	-13.00	33.51	H
2470.50	-48.16	4.32	10.36	2.15	-44.27	-13.00	31.27	V
4940.50	-51.72	4.90	11.16	2.15	-47.61	-13.00	34.61	H
5763.50	-52.05	5.81	11.22	2.15	-48.79	-13.00	35.79	H
6587.00	-50.63	7.21	10.38	2.15	-49.61	-13.00	36.61	H
7410.50	-49.51	8.04	10.10	2.15	-49.60	-13.00	36.60	V

LTE Band 30, 5MHz, QPSK, Channel 27685

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4615.00	-64.68	4.68	10.97	-58.39	-40.00	18.39	V
6923.00	-55.24	6.47	10.35	-51.36	-40.00	11.36	H
9231.00	-56.49	8.85	11.74	-53.60	-40.00	13.60	H
11538.50	-50.45	10.59	12.54	-48.50	-40.00	8.50	H
13846.00	-48.38	13.08	12.10	-49.36	-40.00	9.36	H
16154.00	-41.35	18.62	15.10	-44.87	-40.00	4.87	H

LTE Band 30, 5MHz, QPSK, Channel 27710

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4620.50	-61.28	4.70	10.96	-55.02	-40.00	15.02	H
6930.50	-52.64	6.47	10.36	-48.75	-40.00	8.75	V
9240.50	-46.99	8.85	11.72	-44.12	-40.00	4.12	H
11551.00	-51.70	10.68	12.55	-49.83	-40.00	9.83	H
13861.00	-50.24	13.10	12.10	-51.24	-40.00	11.24	H
16171.50	-46.12	18.53	15.10	-49.55	-40.00	9.55	H

LTE Band 30, 5MHz, QPSK, Channel 27735

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4625.50	-68.26	4.71	10.95	-62.02	-40.00	22.02	H
6938.00	-53.06	6.47	10.38	-49.15	-40.00	9.15	H
9250.50	-58.92	8.85	11.70	-56.07	-40.00	16.07	H
11563.00	-52.83	10.76	12.56	-51.03	-40.00	11.03	H
13876.50	-49.37	13.12	12.10	-50.39	-40.00	10.39	H
16189.00	-45.55	18.43	15.10	-48.88	-40.00	8.88	H

LTE Band 41, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4985.00	-60.13	5.21	11.27	-54.07	-25.00	29.07	H
7496.00	-46.27	7.70	10.19	-43.78	-25.00	18.78	H
9994.50	-49.21	9.36	11.79	-46.78	-25.00	21.78	H
12493.00	-41.53	12.34	13.59	-40.28	-25.00	15.28	H
14992.00	-44.35	14.77	14.57	-44.55	-25.00	19.55	H
17488.00	-33.49	19.74	13.09	-40.14	-25.00	15.14	H

LTE Band 41, 5MHz, QPSK, Channel 40620

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5186.50	-59.47	5.75	11.67	-53.55	-25.00	28.55	H
7779.50	-36.60	7.37	10.76	-33.21	-25.00	8.21	H
10372.50	-47.89	10.73	11.97	-46.65	-25.00	21.65	V
12966.50	-42.87	12.53	12.73	-42.67	-25.00	17.67	V
15559.50	-42.57	16.71	15.60	-43.68	-25.00	18.68	H
17996.00	-33.83	19.94	13.41	-40.36	-25.00	15.36	H

LTE Band 41, 5MHz, QPSK, Channel 41565

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-52.37	5.75	11.65	-46.47	-25.00	21.47	H
8063.00	-31.75	7.86	11.13	-28.48	-25.00	3.48	H
10750.50	-39.84	9.83	12.15	-37.52	-25.00	12.52	H
13438.50	-38.65	12.56	12.36	-38.85	-25.00	13.85	H
16126.50	-34.83	17.03	15.10	-36.76	-25.00	11.76	H
17999.50	-33.92	19.94	13.40	-40.46	-25.00	15.46	H

LTE Band 48, 5MHz, QPSK, Channel 39675

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7105.13	-57.29	12.86	10.36	-59.80	-40.00	19.80	H
8880.00	-56.23	14.23	11.49	-58.97	-40.00	18.97	H
10658.25	-46.39	12.20	12.20	-46.39	-40.00	6.39	H
12432.00	-52.88	16.97	13.38	-56.47	-40.00	16.47	H
14208.00	-51.34	17.05	12.68	-55.72	-40.00	15.72	H
17291.63	-44.32	18.58	12.58	-50.32	-40.00	10.32	H

LTE Band 48, 5MHz, QPSK, Channel 55990

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7250.00	-58.55	13.19	10.07	-61.68	-40.00	21.68	H
9062.50	-56.50	14.57	11.80	-59.26	-40.00	19.26	H
10875.38	-48.26	12.38	12.38	-48.26	-40.00	8.26	H
12687.50	-54.00	16.09	13.21	-56.88	-40.00	16.88	V
14500.00	-51.90	17.66	13.17	-56.40	-40.00	16.40	H
17412.75	-45.99	18.09	12.53	-51.56	-40.00	11.56	H

LTE Band 48, 5MHz, QPSK, Channel 56715

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7395.00	-51.65	13.13	10.09	-54.69	-40.00	14.69	H
9245.00	-55.91	14.57	11.79	-58.69	-40.00	18.69	V
11092.88	-43.80	12.48	12.48	-43.80	-40.00	3.80	H
12943.00	-51.73	16.39	12.95	-55.17	-40.00	15.17	V
14792.00	-52.44	17.66	14.06	-56.04	-40.00	16.04	H
17379.38	-44.27	18.87	12.52	-50.62	-40.00	10.62	H

LTE Band 66, 1.4MHz, QPSK, Channel 131979

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5132.00	-57.67	5.56	11.60	-51.63	-13.00	38.63	H
6843.00	-55.94	6.54	10.31	-52.17	-13.00	39.17	H
8554.00	-46.17	8.52	11.20	-43.49	-13.00	30.49	H
10264.50	-47.17	10.80	11.90	-46.07	-13.00	33.07	H
11975.50	-49.97	12.28	13.05	-49.20	-13.00	36.20	H
15397.00	-48.13	14.88	15.39	-47.62	-13.00	34.62	H

LTE Band 66, 1.4MHz, QPSK, Channel 132322

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
6980.50	-53.36	8.06	10.40	-51.02	-13.00	38.02	V
8725.50	-45.64	8.45	11.10	-42.99	-13.00	29.99	H
10470.50	-46.60	10.36	11.93	-45.03	-13.00	32.03	H
13961.00	-50.86	14.62	12.16	-53.32	-13.00	40.32	H
15706.00	-46.77	16.64	15.51	-47.90	-13.00	34.90	H
17451.00	-44.06	19.26	13.05	-50.27	-13.00	37.27	H

LTE Band 66, 1.4MHz, QPSK, Channel 132665

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7117.50	-53.51	6.56	10.26	-49.81	-13.00	36.81	H
8897.00	-43.78	8.04	11.59	-40.23	-13.00	27.23	H
10676.50	-46.23	10.04	12.08	-44.19	-13.00	31.19	H
14235.50	-53.28	13.14	12.64	-53.78	-13.00	40.78	H
16015.00	-48.00	17.47	15.36	-50.11	-13.00	37.11	H
17798.00	-44.24	19.55	13.50	-50.29	-13.00	37.29	H

LTE Band 71, 5MHz, QPSK, Channel 133147

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1988.00	-57.50	3.43	7.82	2.15	-55.26	-13.00	42.26	V
2676.00	-52.75	4.94	10.20	2.15	-49.64	-13.00	36.64	V
4659.50	-48.95	5.02	10.92	2.15	-45.20	-13.00	32.20	H
5325.00	-50.73	5.08	11.75	2.15	-46.21	-13.00	33.21	V
5991.00	-46.58	5.67	10.70	2.15	-43.70	-13.00	30.70	H
6663.50	-56.26	6.26	10.43	2.15	-54.24	-13.00	41.24	H

LTE Band 71, 5MHz, QPSK, Channel 133297

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2034.50	-57.08	3.43	7.70	2.15	-54.96	-13.00	41.96	H
2720.50	-52.52	4.88	10.24	2.15	-49.31	-13.00	36.31	H
4765.00	-51.44	4.81	10.97	2.15	-47.43	-13.00	34.43	H
5445.00	-48.38	5.34	11.33	2.15	-44.54	-13.00	31.54	H
6126.50	-50.86	6.13	10.65	2.15	-48.49	-13.00	35.49	H
6809.00	-55.92	6.37	10.38	2.15	-54.06	-13.00	41.06	V

LTE Band 71, 5MHz, QPSK, Channel 133447

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2796.50	-51.59	4.91	10.39	2.15	-48.26	-13.00	35.26	V
4174.00	-56.80	4.01	10.05	2.15	-52.91	-13.00	39.91	H
4869.50	-46.66	5.25	10.94	2.15	-43.12	-13.00	30.12	H
5565.50	-45.08	5.38	11.23	2.15	-41.38	-13.00	28.38	H
6261.00	-51.31	6.13	10.80	2.15	-48.79	-13.00	35.79	H
6957.00	-52.35	6.47	10.40	2.15	-50.57	-13.00	37.57	H

LTE Band 7C, QPSK, Channel 20850+21048

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5020.00	-56.52	11.66	11.23	-56.95	-25.00	31.95	H
7530.00	-44.39	13.22	10.33	-47.29	-25.00	22.29	H
10040.00	-42.03	12.03	12.03	-42.03	-25.00	17.03	H
12550.00	-42.56	17.35	13.34	-46.56	-25.00	21.56	H
15060.00	-41.53	18.41	14.72	-45.21	-25.00	20.21	H
17570.00	-36.28	18.35	12.64	-41.99	-25.00	16.99	H

LTE Band 7C, QPSK, Channel 21001+21199

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5052.00	-57.64	11.46	11.27	-57.84	-25.00	32.84	V
7575.47	-37.52	12.94	10.38	-40.08	-25.00	15.08	V
10100.63	-43.69	12.07	12.07	-43.69	-25.00	18.69	H
12626.25	-37.66	17.00	13.27	-41.38	-25.00	16.38	H
15156.00	-42.98	18.42	14.85	-46.55	-25.00	21.55	H
17682.00	-35.50	18.70	12.86	-41.34	-25.00	16.34	H

LTE Band 7C, QPSK, Channel 21152+21350

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5082.00	-57.63	11.46	11.27	-57.82	-25.00	32.82	V
7620.47	-41.04	13.64	10.40	-44.28	-25.00	19.28	H
10161.09	-42.97	12.04	12.04	-42.97	-25.00	17.97	H
12705.00	-44.01	16.88	13.23	-47.66	-25.00	22.66	V
15246.00	-45.29	18.36	15.06	-48.59	-25.00	23.59	V
17787.00	-37.12	18.81	12.84	-43.08	-25.00	18.08	H

LTE Band 48C, QPSK, Channel 55340+ 55538

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7140.00	-58.03	12.61	10.29	-60.36	-40.00	20.36	H
10710.00	-54.53	15.91	12.24	-58.21	-40.00	18.21	H
12495.00	-56.18	13.41	13.41	-56.18	-40.00	16.18	H
14280.00	-51.34	17.33	12.79	-55.88	-40.00	15.88	H
16065.00	-52.42	19.15	15.27	-56.30	-40.00	16.30	V
17850.00	-46.34	18.31	12.87	-51.79	-40.00	11.79	H

LTE Band 48C, QPSK, Channel 55891+ 56089

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7250.00	-58.55	13.19	10.07	-61.68	-40.00	21.68	H
9062.50	-56.51	14.57	11.80	-59.27	-40.00	19.27	H
10875.00	-58.68	12.38	12.38	-58.68	-40.00	18.68	H
12687.50	-54.38	16.09	13.21	-57.25	-40.00	17.25	H
14500.00	-51.77	17.66	13.17	-56.27	-40.00	16.27	H
16312.50	-50.69	18.57	14.50	-54.76	-40.00	14.76	V

LTE Band 48C, QPSK, Channel 56442+ 56640

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7360.00	-58.04	13.33	10.02	-61.35	-40.00	21.35	H
9200.00	-56.35	14.38	11.83	-58.90	-40.00	18.90	H
11040.00	-58.10	12.45	12.45	-58.10	-40.00	18.10	V
12880.00	-52.61	16.62	13.13	-56.11	-40.00	16.11	V
14720.00	-51.79	17.79	13.80	-55.78	-40.00	15.78	H
17219.25	-45.70	17.55	12.73	-50.52	-40.00	10.52	H

LTE Band 66B, QPSK, Channel 132022+132121

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3429.84	-65.47	9.62	10.34	-64.75	-13.00	51.75	H
5145.00	-58.24	11.26	11.47	-58.03	-13.00	45.03	H
6860.16	-54.85	10.38	10.38	-54.85	-13.00	41.85	H
8575.78	-52.85	14.32	11.40	-55.77	-13.00	42.77	H
10290.47	-49.45	15.50	12.20	-52.75	-13.00	39.75	H
12040.00	-53.70	16.43	13.19	-56.94	-13.00	43.94	V

LTE Band 66B, QPSK, Channel 132373+132472

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3510.00	-65.35	9.83	10.51	-64.67	-13.00	51.67	H
5250.00	-59.22	11.77	11.53	-59.46	-13.00	46.46	H
7020.47	-54.15	10.41	10.41	-54.15	-13.00	41.15	H
8751.09	-51.52	14.22	11.30	-54.45	-13.00	41.45	H
10501.41	-48.70	15.54	12.13	-52.11	-13.00	39.11	H
12250.00	-53.68	16.79	13.33	-57.13	-13.00	44.13	V

LTE Band 66B, QPSK, Channel 132523+132622

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3530.16	-62.61	10.13	10.59	-62.15	-13.00	49.15	H
5295.47	-57.14	11.77	11.44	-57.47	-13.00	44.47	H
7060.31	-52.64	10.37	10.37	-52.64	-13.00	39.64	H
8825.63	-51.29	14.21	11.38	-54.13	-13.00	41.13	H
10590.94	-43.62	15.36	12.18	-46.80	-13.00	33.80	H
12365.16	-51.74	16.72	13.37	-55.09	-13.00	42.09	H

LTE Band 66C, QPSK, Channel 132072+132270

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3440.16	-63.19	9.62	10.32	-62.49	-13.00	49.49	H
5160.00	-57.57	11.33	11.54	-57.36	-13.00	44.36	H
6879.84	-54.35	10.40	10.40	-54.35	-13.00	41.35	H
8600.16	-53.86	14.07	11.43	-56.50	-13.00	43.50	V
10320.47	-48.64	15.20	12.13	-51.71	-13.00	38.71	H
12110.00	-53.06	16.90	13.28	-56.67	-13.00	43.67	V

LTE Band 66C, QPSK, Channel 132323+132521

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.31	-64.01	9.80	10.37	-63.44	-13.00	50.44	V
5235.00	-56.93	11.91	11.50	-57.34	-13.00	44.34	H
6980.63	-53.29	10.30	10.30	-53.29	-13.00	40.29	H
8726.25	-50.41	14.21	11.35	-53.27	-13.00	40.27	H
10470.94	-44.47	15.55	12.10	-47.92	-13.00	34.92	H
12285.00	-53.24	16.83	13.33	-56.74	-13.00	43.74	H

LTE Band 66C, QPSK, Channel 132374+132572

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3500.63	-61.02	9.83	10.47	-60.38	-13.00	47.38	H
5250.47	-57.64	11.77	11.53	-57.88	-13.00	44.88	H
7001.25	-53.09	10.37	10.37	-53.09	-13.00	40.09	H
8751.56	-52.96	14.22	11.30	-55.88	-13.00	42.88	H
10501.41	-46.38	15.54	12.13	-49.79	-13.00	36.79	H
12320.00	-53.86	16.34	13.37	-56.83	-13.00	43.83	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	3.85	2500.640	2569.340		
50				-0.17	0.0001
40				1.62	0.0006
30				4.96	0.0020
10				-0.76	0.0003
0				3.16	0.0012
-10				2.03	0.0008
-20				-0.59	0.0002
-30				1.69	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.640	2569.340	0.40	0.0002
4.4				0.87	0.0003

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	3.85	699.490	715.510		
50				0.22	0.0003
40				-0.83	0.0012
30				-2.50	0.0035
10				-2.55	0.0036
0				-2.79	0.0039
-10				-2.99	0.0042
-20				-0.70	0.0010
-30				-2.40	0.0034

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.490	715.510	-1.73	0.0024
4.4				-2.16	0.0031

LTE band 13, 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	3.85	777.480	786.520		
50				0.49	0.0006
40				-0.26	0.0003
30				0.22	0.0003
10				-0.52	0.0007
0				-0.72	0.0009
-10				-0.73	0.0009
-20				-0.29	0.0004
-30				-1.50	0.0019

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	777.480	786.520	-0.53	0.0007
4.4				-1.16	0.0015

LTE band 14, 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	3.85	788.480	797.510		
50				-1.85	0.0023
40				-0.34	0.0004
30				-0.53	0.0007
10				-1.06	0.0013
0				0.29	0.0004
-10				0.26	0.0003
-20				0.30	0.0004
-30				-0.56	0.0007

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	788.480	797.510	-0.03	0.0000
4.4				0.96	0.0012

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	3.85	1850.870	1914.130		
50				2.53	0.0013
40				-0.01	0.0000
30				2.70	0.0014
10				-1.77	0.0009
0				-1.00	0.0005
-10				0.22	0.0001
-20				-0.07	0.0000
-30				2.02	0.0011

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.870	1914.130	2.43	0.0013
4.4				3.15	0.0017

LTE band 26_Part22, 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	3.85	824.590	848.390		
50				-0.23	0.0003
40				-0.63	0.0008
30				-0.11	0.0001
10				-0.07	0.0001
0				0.39	0.0005
-10				-0.73	0.0009
-20				0.33	0.0004
-30				-1.12	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.590	848.390	-0.94	0.0011
4.4				-1.47	0.0018

LTE band 26_Part90, 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	3.85	814.440	823.570		
50				-0.44	0.0005
40				-0.19	0.0002
30				0.80	0.0010
10				1.26	0.0015
0				-0.42	0.0005
-10				0.83	0.0010
-20				0.64	0.0008
-30				-1.10	0.0013

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.440	823.570	-0.77	0.0009
4.4				0.29	0.0003

LTE band 30, 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	3.85	2305.430	2314.570		
50				0.20	0.0001
40				-1.97	0.0009
30				-2.05	0.0009
10				-1.52	0.0007
0				-3.26	0.0014
-10				-3.78	0.0016
-20				-3.36	0.0015
-30				-3.32	0.0014

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2305.430	2314.570	0.70	0.0003
4.4				-1.63	0.0007

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	3.85	2496.580	2689.340		
50				2.73	0.0011
40				-21.77	0.0084
30				-6.37	0.0025
10				-14.72	0.0057
0				-20.87	0.0080
-10				-7.73	0.0030
-20				-11.87	0.0046
-30				-6.19	0.0024

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.580	2689.340	-12.92	0.0050
4.4				-20.40	0.0079

LTE band 48, 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	3.85	3550.976	3699.024		
50				-0.84	0.0002
40				-0.54	0.0001
30				-0.47	0.0001
10				-1.23	0.0003
0				-0.74	0.0002
-10				-0.97	0.0003
-20				-0.62	0.0002
-30				-0.73	0.0002

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.976	3699.024	1.10	0.0003
4.4				-0.74	0.0002

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	3.85	1710.860	1779.130		
50				0.92	0.0005
40				1.13	0.0006
30				1.10	0.0006
10				1.30	0.0007
0				1.07	0.0006
-10				1.52	0.0009
-20				0.83	0.0005
-30				-2.46	0.0014

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.860	1779.130	-1.53	0.0009
4.4				1.42	0.0008

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	3.85	663.870	697.140		
50				-1.52	0.0022
40				0.57	0.0008
30				0.90	0.0013
10				0.17	0.0003
0				0.82	0.0012
-10				0.30	0.0004
-20				1.33	0.0020
-30				0.21	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.870	697.140	-0.14	0.0002
4.4				-0.66	0.0010

LTE CA band 7C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	2500.640	2569.320		
50				0.36	0.0001
40				-1.25	0.0005
30				-0.94	0.0004
10				-1.46	0.0006
0				-0.37	0.0001
-10				-2.00	0.0008
-20				-0.73	0.0003
-30				0.01	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.640	2569.320	-2.43	0.0010
4.4				-3.81	0.0015

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	3550.660	3699.360		
50				3.19	0.0009
40				0.32	0.0001
30				-19.20	0.0053
10				6.39	0.0018
0				5.81	0.0016
-10				6.42	0.0018
-20				7.91	0.0022
-30				7.07	0.0019

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.660	3699.360	4.76	0.0013
4.4				5.94	0.0016

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.380	1779.640		
50				-1.30	0.0007
40				-2.35	0.0013
30				-0.99	0.0006
10				-0.73	0.0004
0				-0.86	0.0005
-10				-1.73	0.0010
-20				-1.93	0.0011
-30				-1.55	0.0009

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.380	1779.640	-1.80	0.0010
4.4				-1.72	0.0010

LTE CA band 66C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.85	1710.680	1779.300		
50				1.27	0.0007
40				0.70	0.0004
30				-0.34	0.0002
10				-1.07	0.0006
0				-0.31	0.0002
-10				2.20	0.0013
-20				3.65	0.0021
-30				5.39	0.0031

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.680	1779.300	3.83	0.0022
4.4				4.96	0.0028

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.

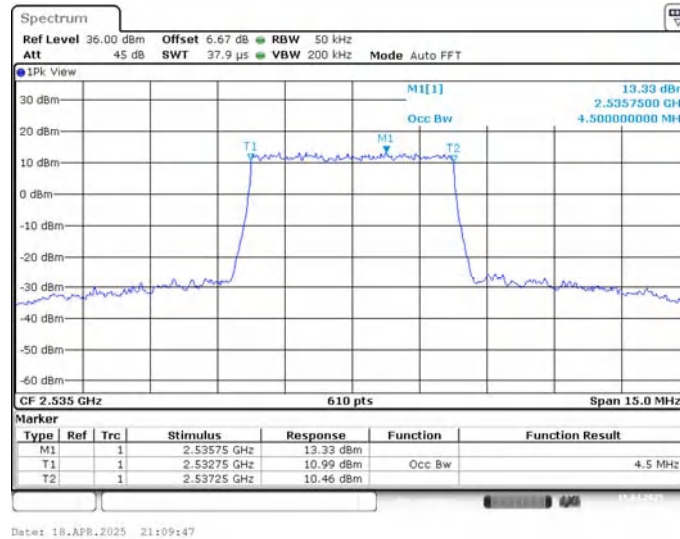
The measurement method is from ANSI C63.26:

- 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 $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

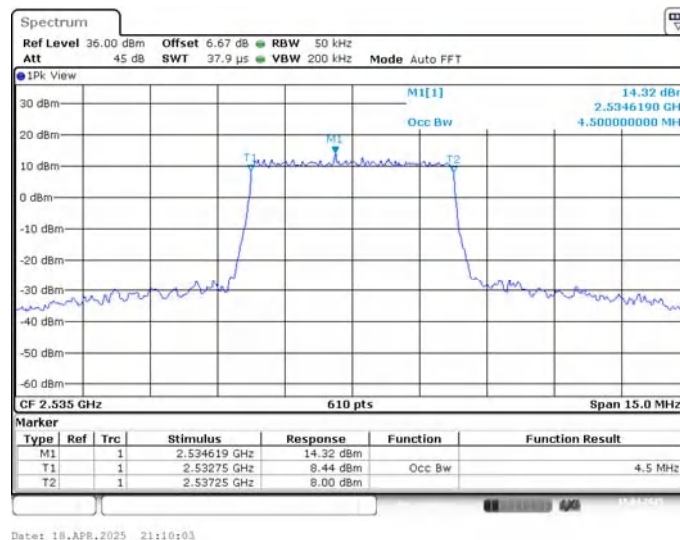
LTE band 7,5MHz(99%)

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

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



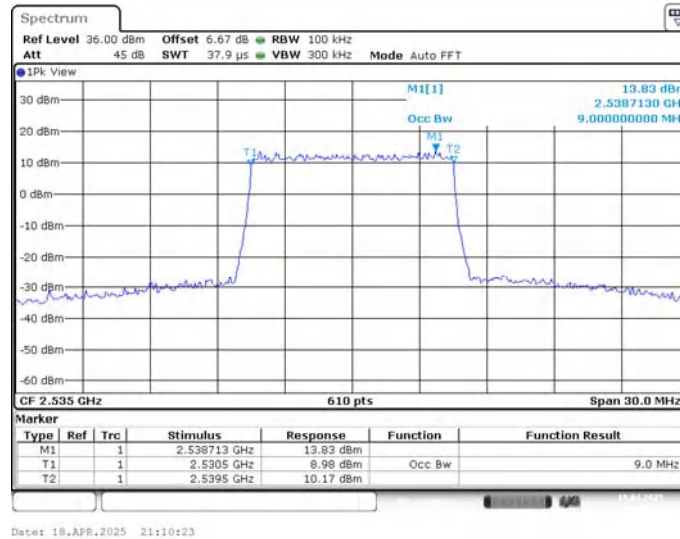
LTE band 7 , 5MHz Bandwidth,MID,16QAM (99% BW)



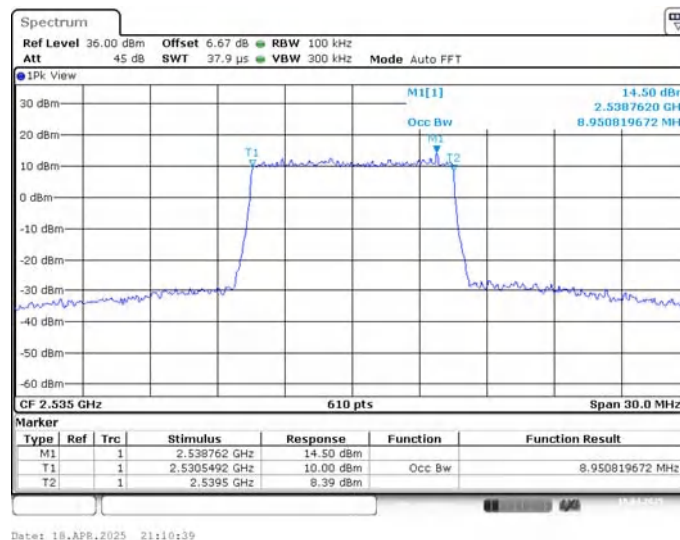
LTE band 7,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	9.000	8.951

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



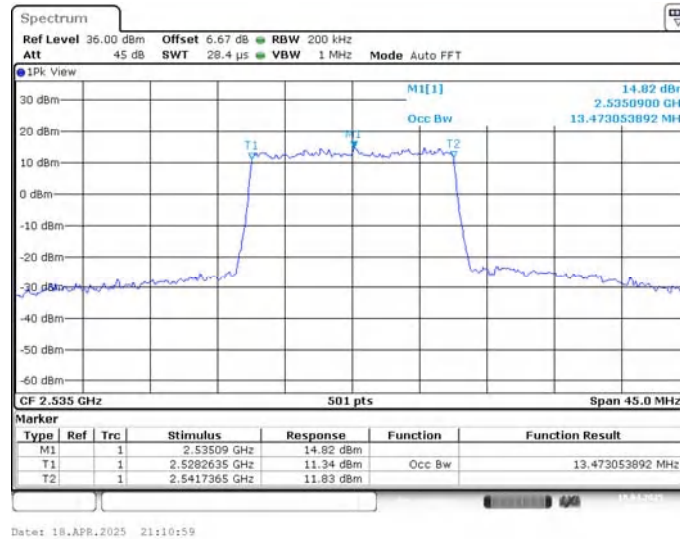
LTE band 7 , 10MHz Bandwidth,MID,16QAM (99% BW)



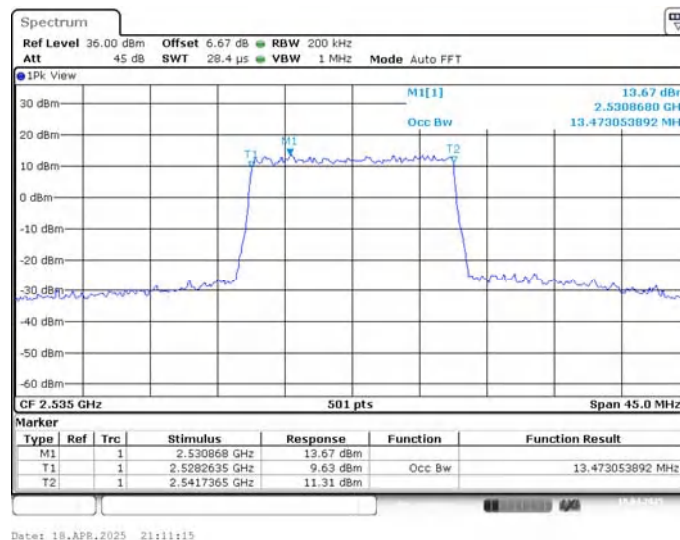
LTE band 7,15MHz(99%)

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

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



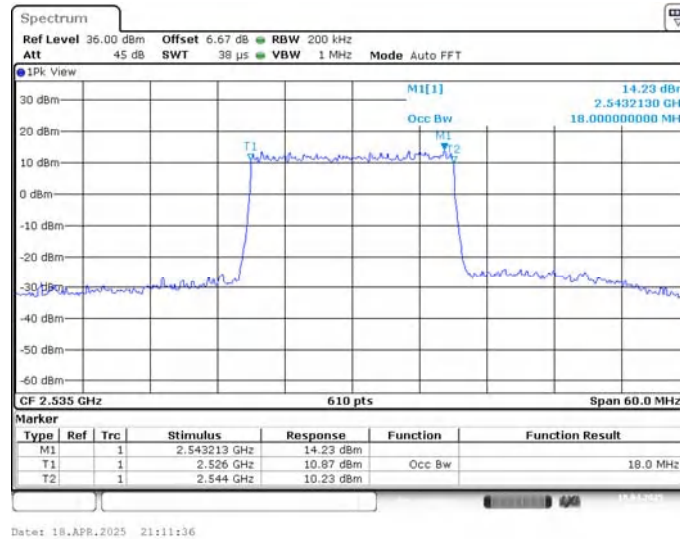
LTE band 7 , 15MHz Bandwidth,MID,16QAM (99% BW)



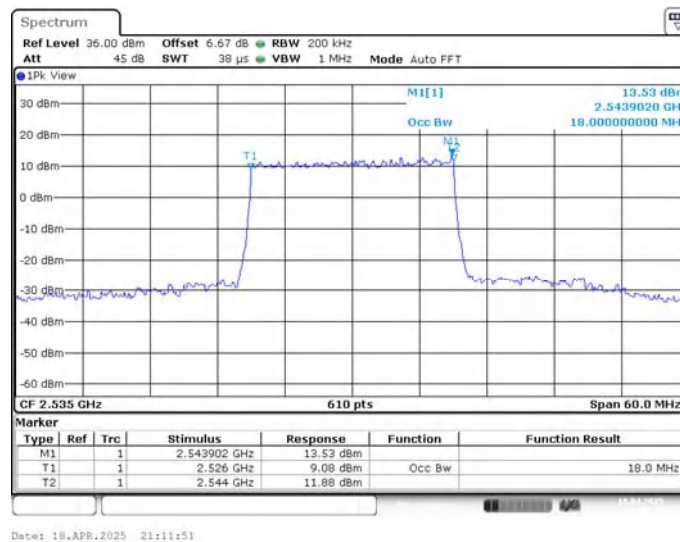
LTE band 7,20MHz(99%)

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

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



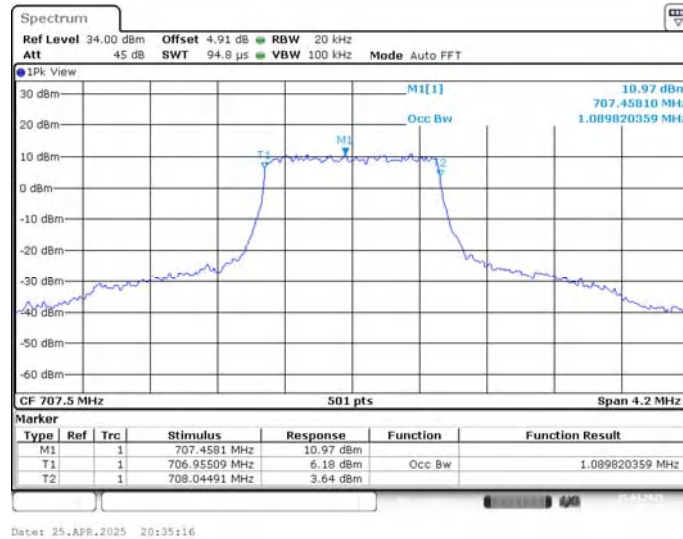
LTE band 7 , 20MHz Bandwidth,MID,16QAM (99% BW)



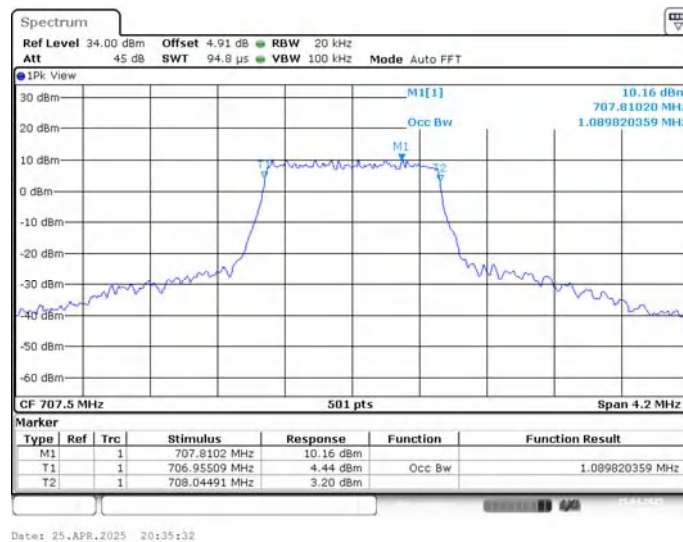
LTE band 12,1.4MHz(99%)

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

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



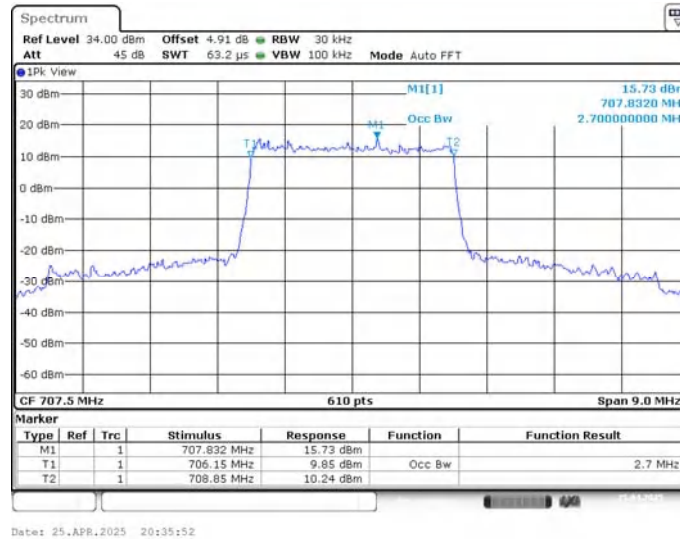
LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



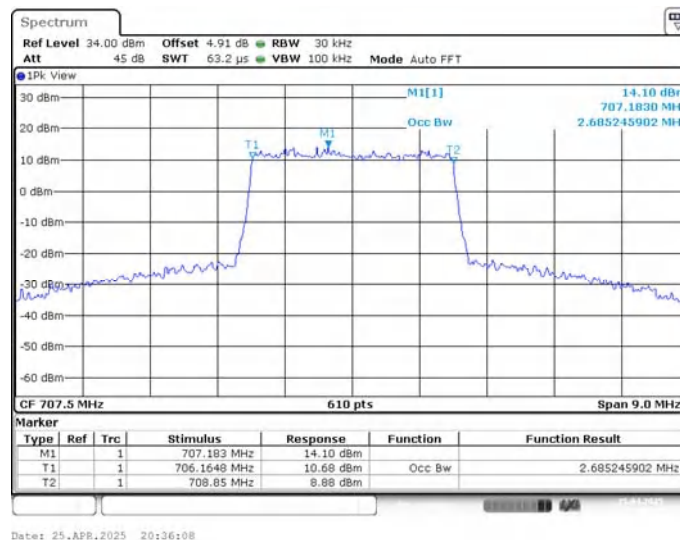
LTE band 12,3MHz(99%)

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

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



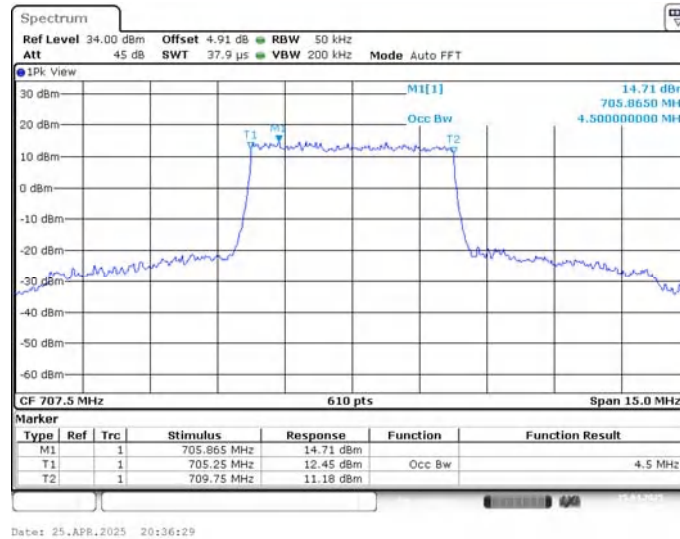
LTE band 12 , 3MHz Bandwidth,MID,16QAM (99% BW)



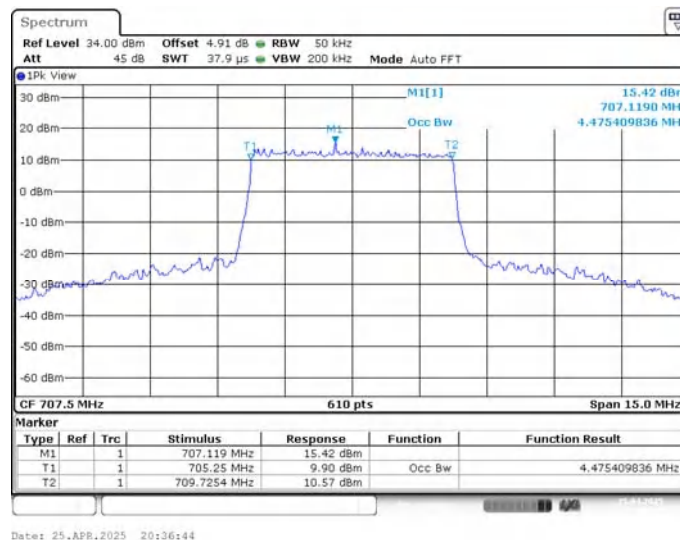
LTE band 12,5MHz(99%)

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

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



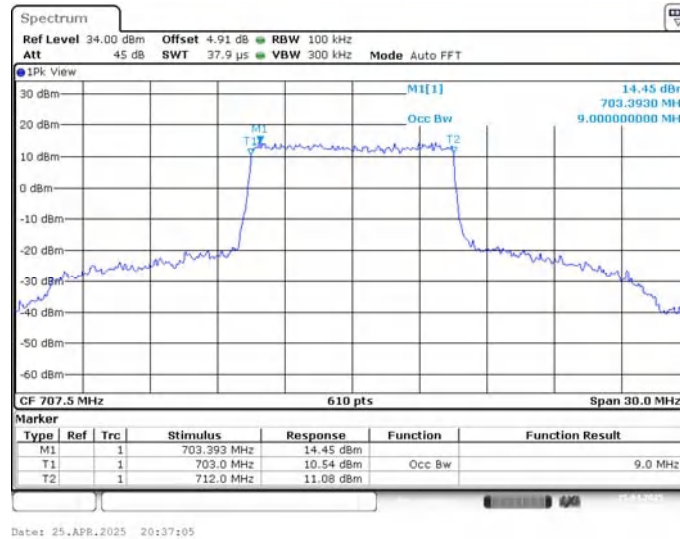
LTE band 12 , 5MHz Bandwidth,MID,16QAM (99% BW)



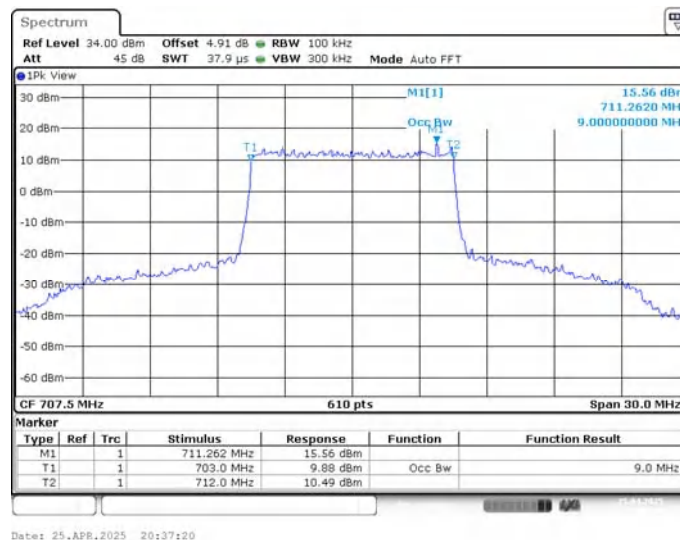
LTE band 12,10MHz(99%)

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

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



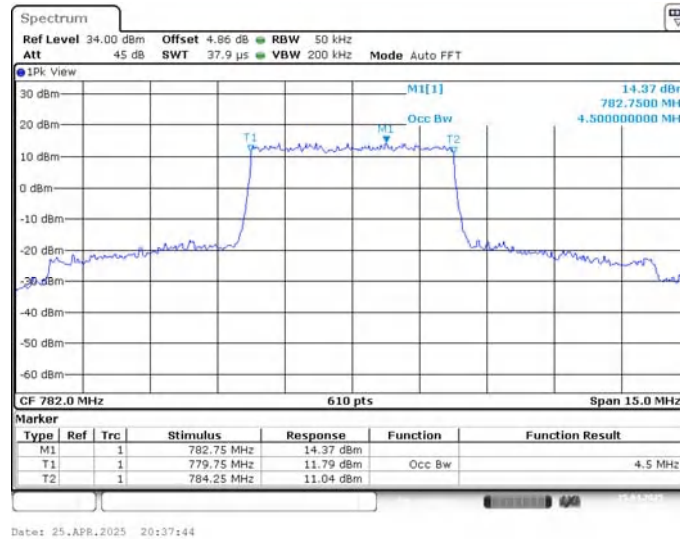
LTE band 12 , 10MHz Bandwidth,MID,16QAM (99% BW)



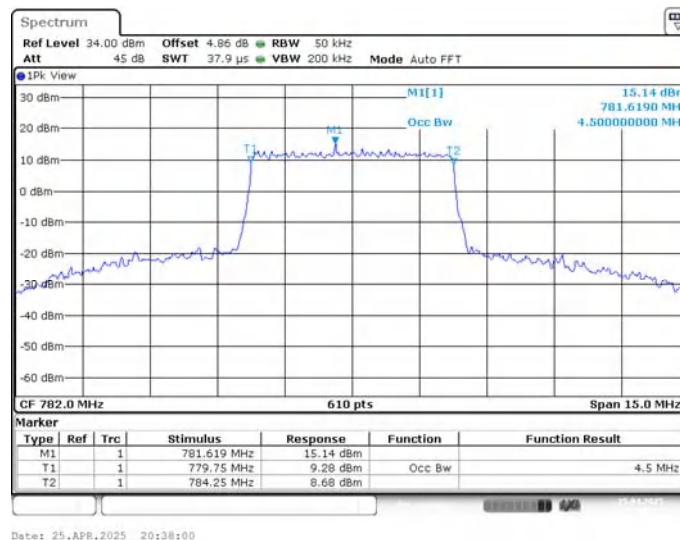
LTE band 13,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
782	4.500	4.500

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



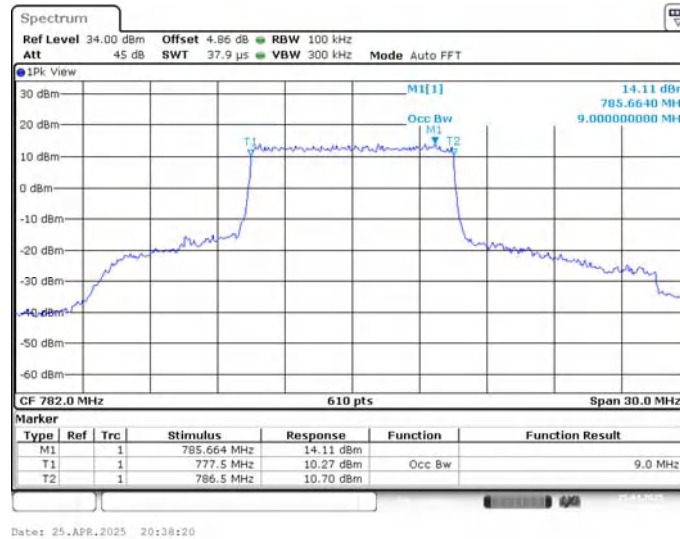
LTE band 13 , 5MHz Bandwidth,MID,16QAM (99% BW)



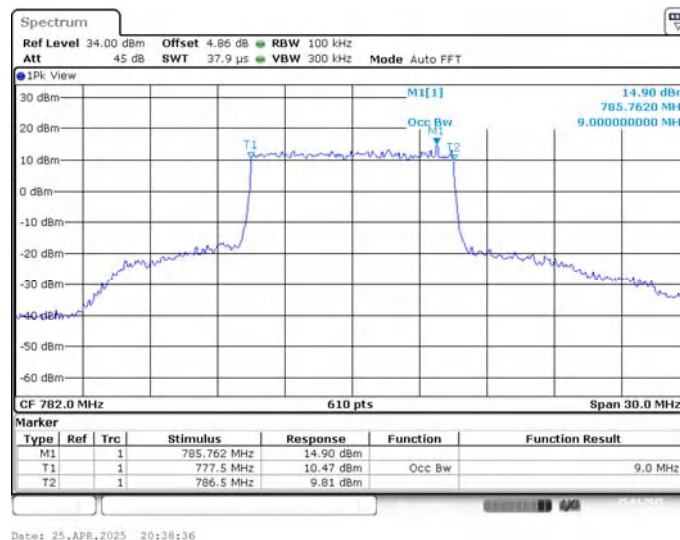
LTE band 13,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
782	9.000	9.000

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



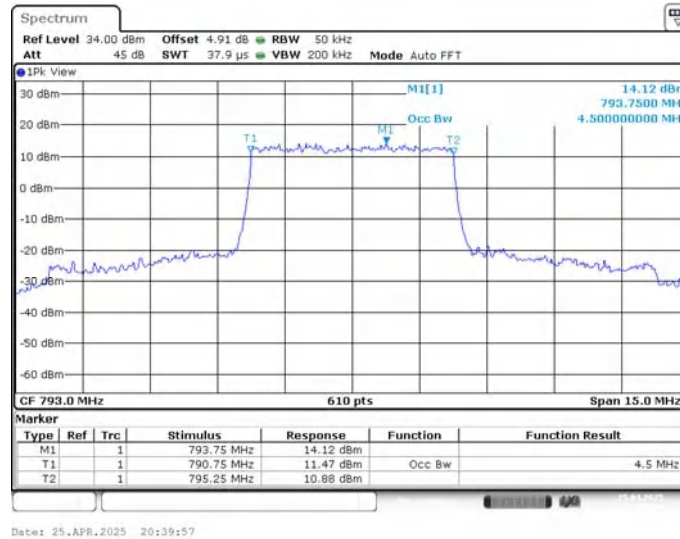
LTE band 13 , 10MHz Bandwidth,MID,16QAM (99% BW)



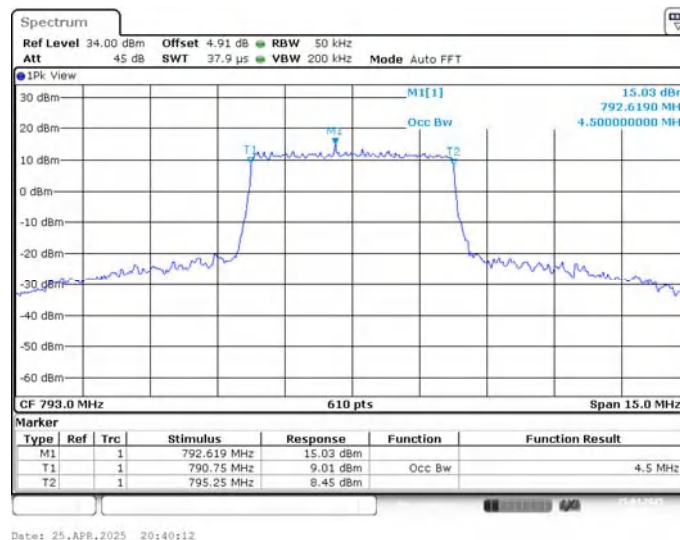
LTE band 14,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
793	4.500	4.500

LTE band 14 , 5MHz Bandwidth,MID,QPSK (99% BW)



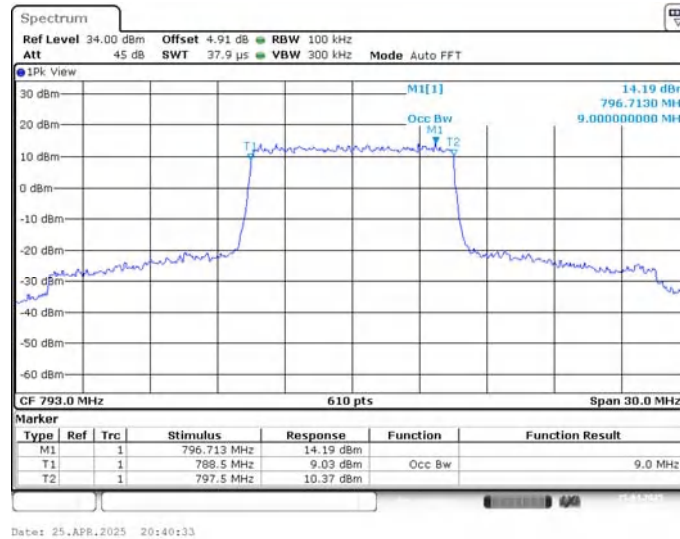
LTE band 14 , 5MHz Bandwidth,MID,16QAM (99% BW)



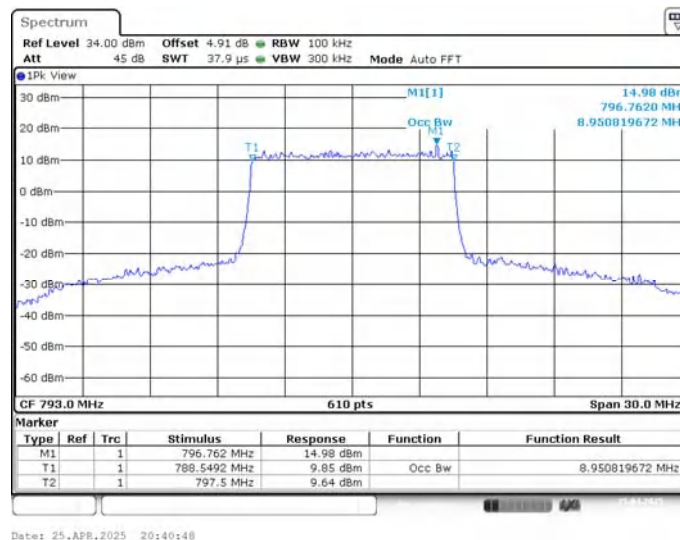
LTE band 14,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
793	9.000	8.951

LTE band 14 , 10MHz Bandwidth,MID,QPSK (99% BW)



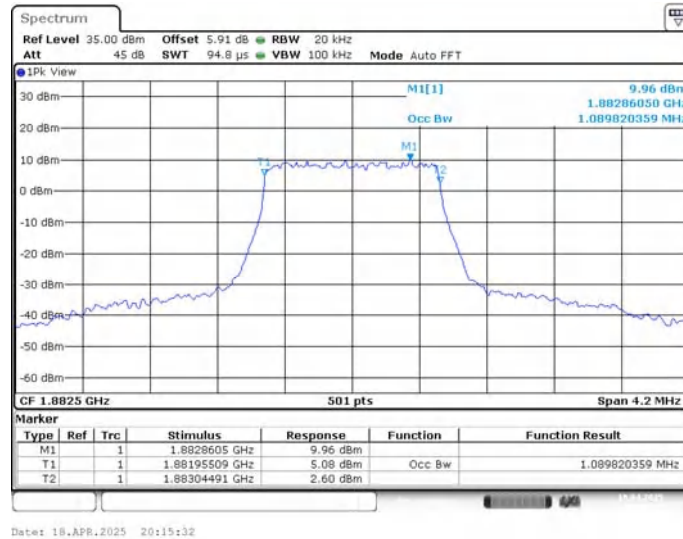
LTE band 14 , 10MHz Bandwidth,MID,16QAM (99% BW)



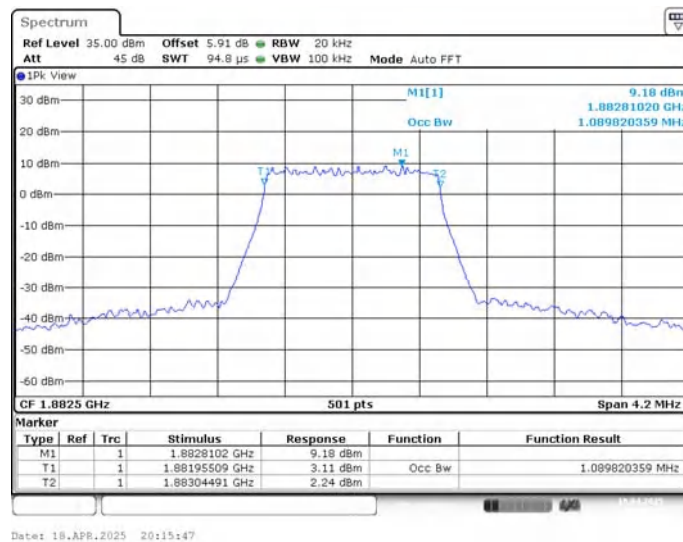
LTE band 25,1.4MHz(99%)

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

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



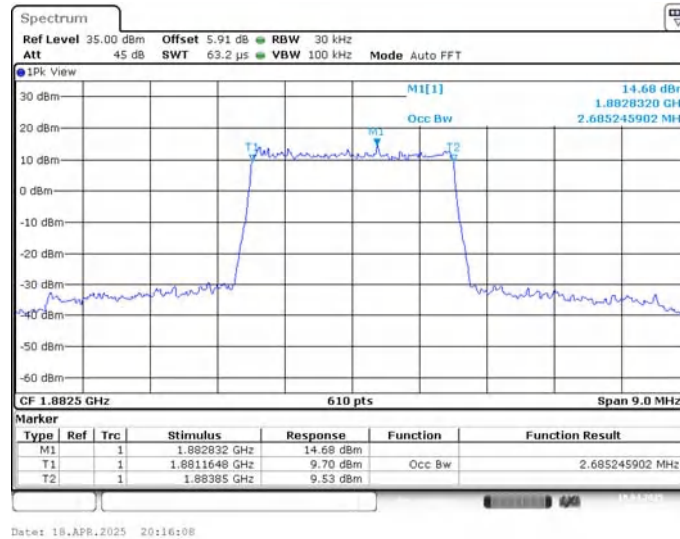
LTE band 25 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



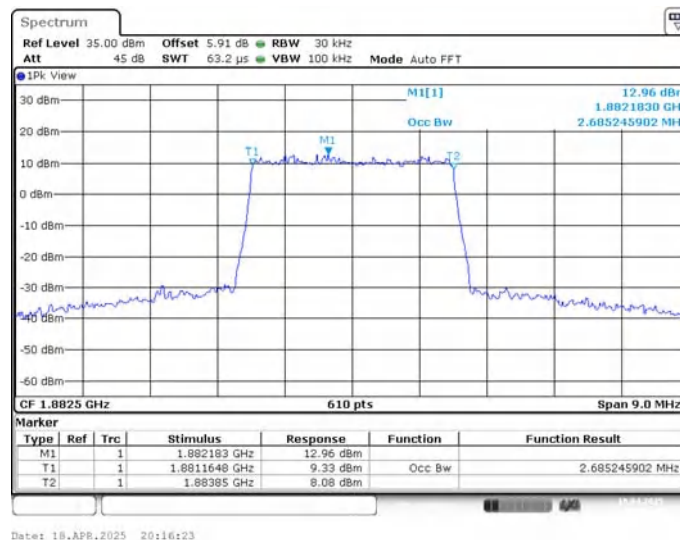
LTE band 25,3MHz(99%)

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

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



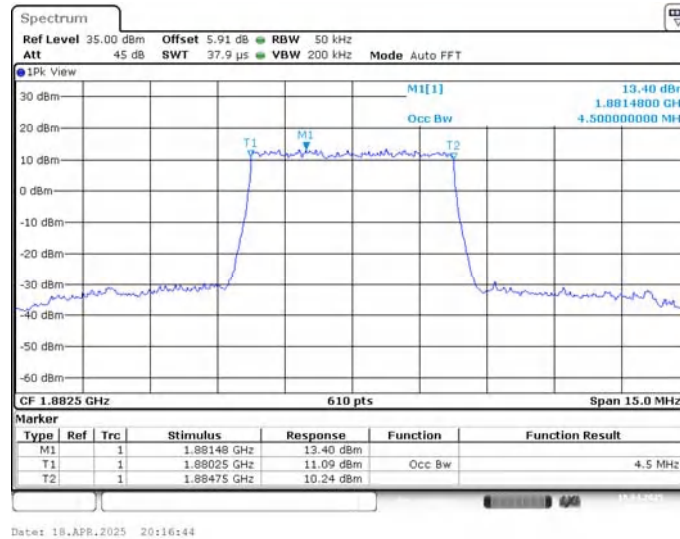
LTE band 25 , 3MHz Bandwidth,MID,16QAM (99% BW)



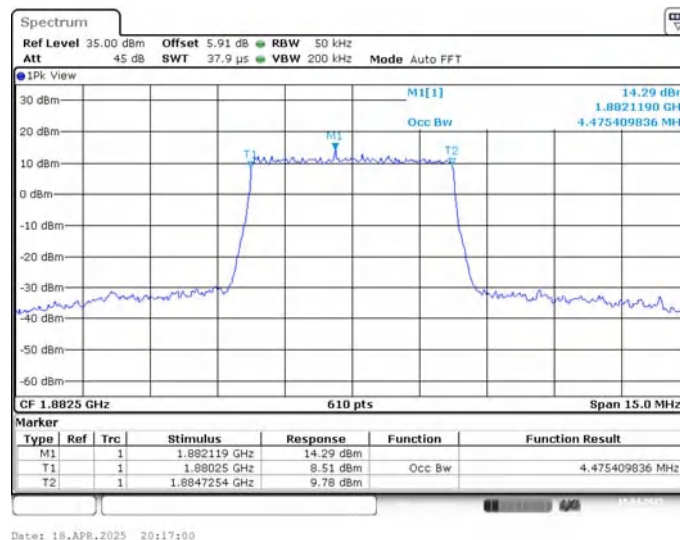
LTE band 25,5MHz(99%)

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

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



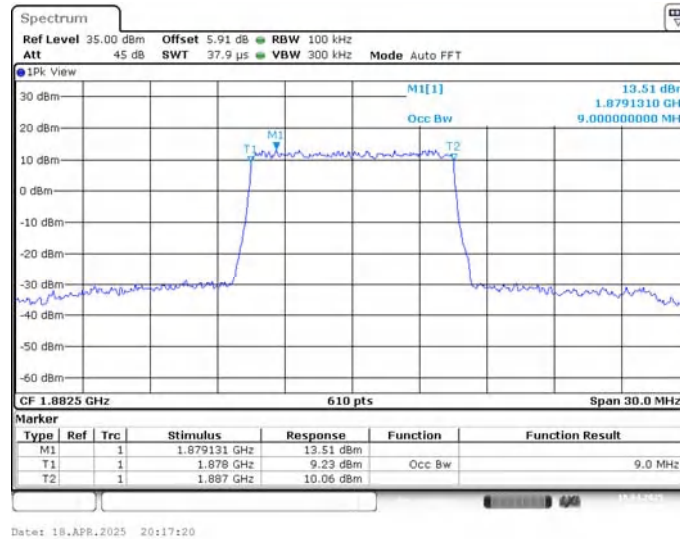
LTE band 25 , 5MHz Bandwidth,MID,16QAM (99% BW)



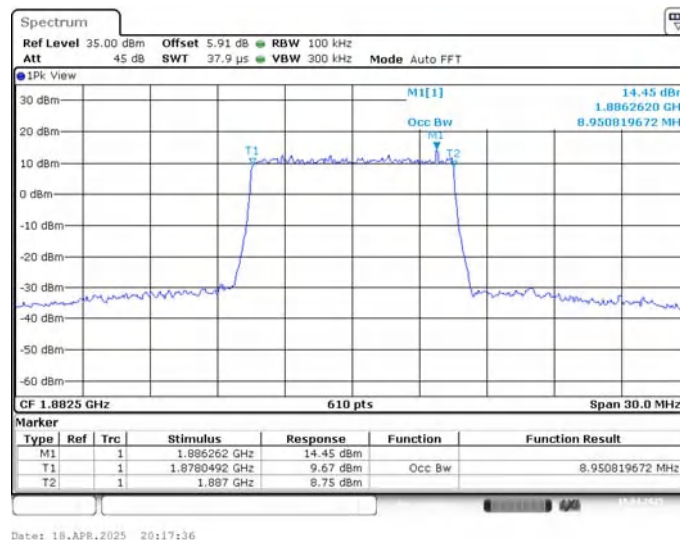
LTE band 25,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	9.000	8.951

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



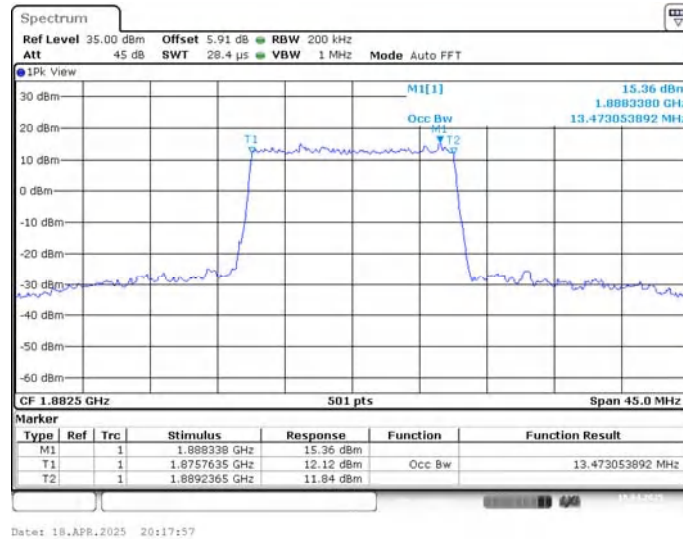
LTE band 25 , 10MHz Bandwidth,MID,16QAM (99% BW)



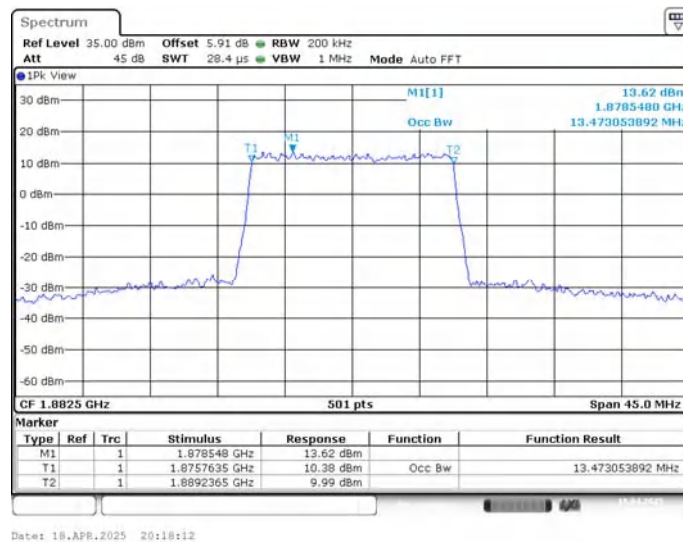
LTE band 25,15MHz(99%)

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

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



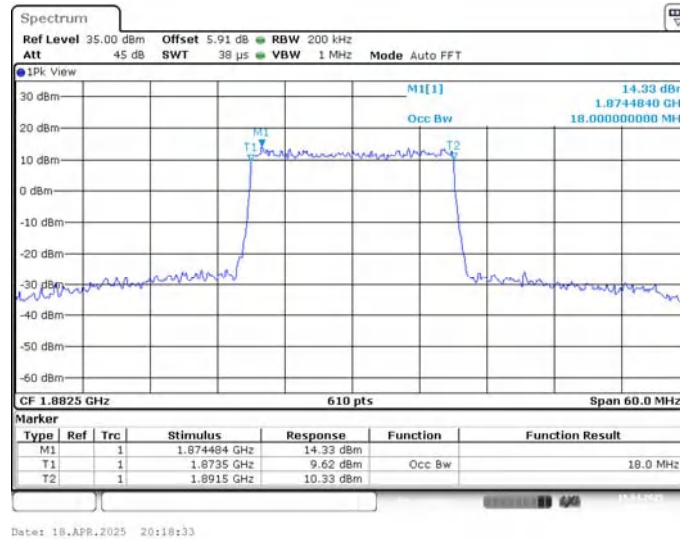
LTE band 25 , 15MHz Bandwidth,MID,16QAM (99% BW)



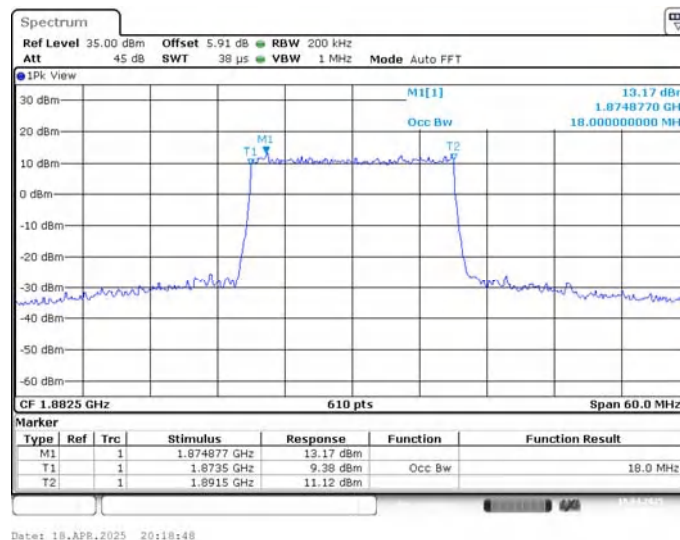
LTE band 25,20MHz(99%)

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

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



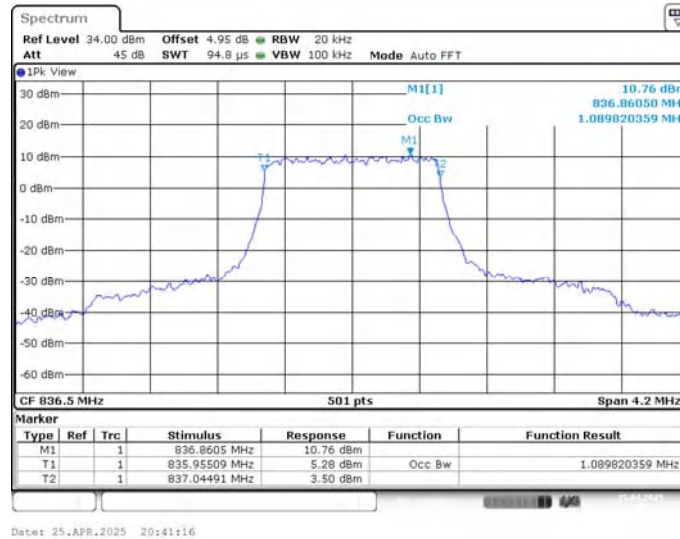
LTE band 25 , 20MHz Bandwidth,MID,16QAM (99% BW)



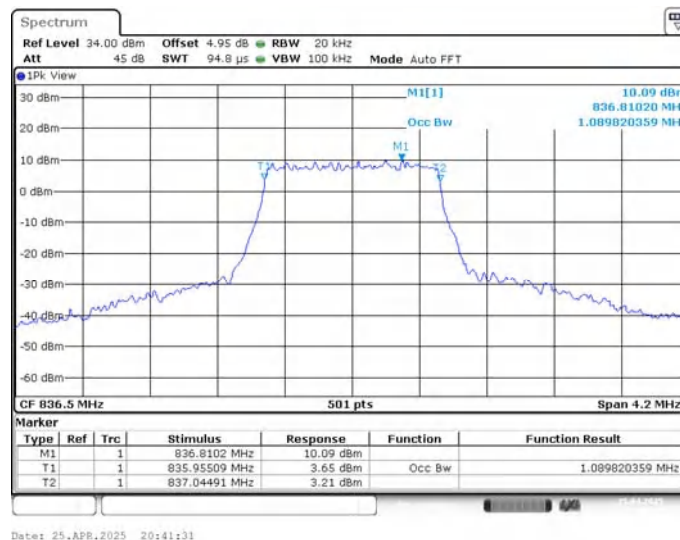
LTE band 26_Part22,1.4MHz(99%)

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

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



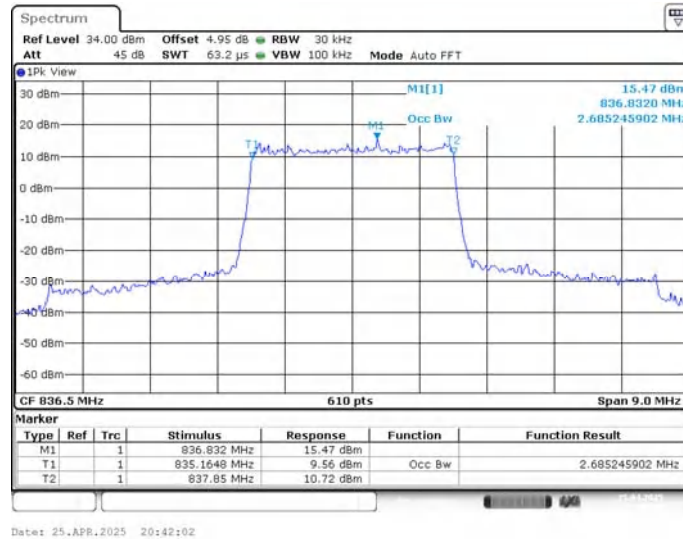
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



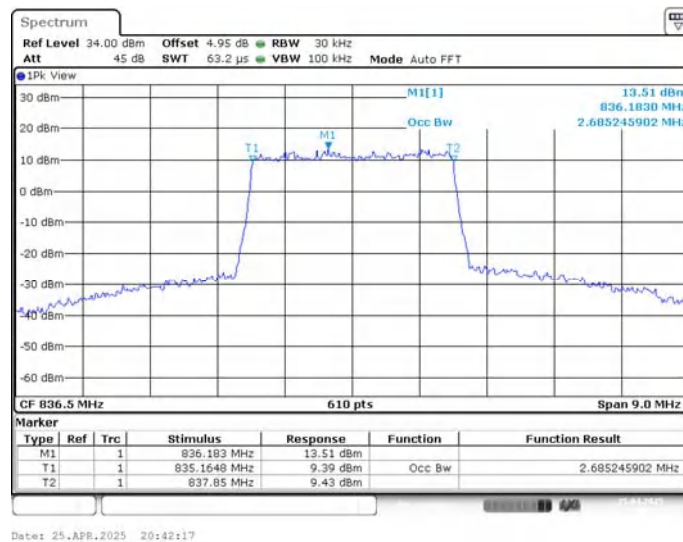
LTE band 26_Part22,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	2.685	2.685

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



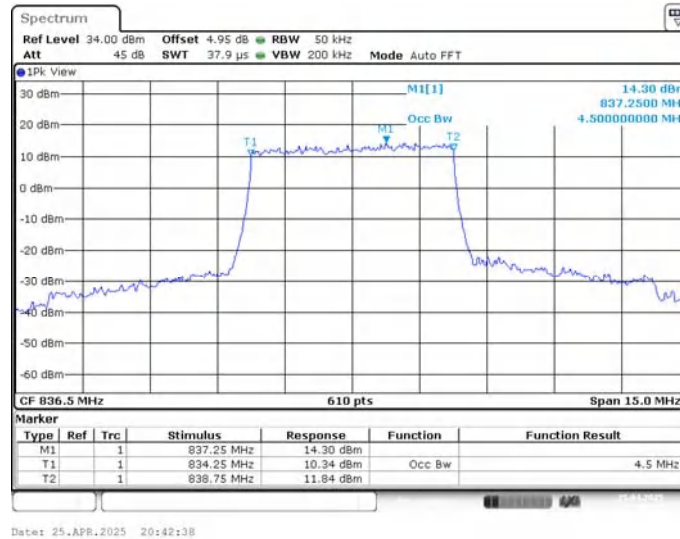
LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)



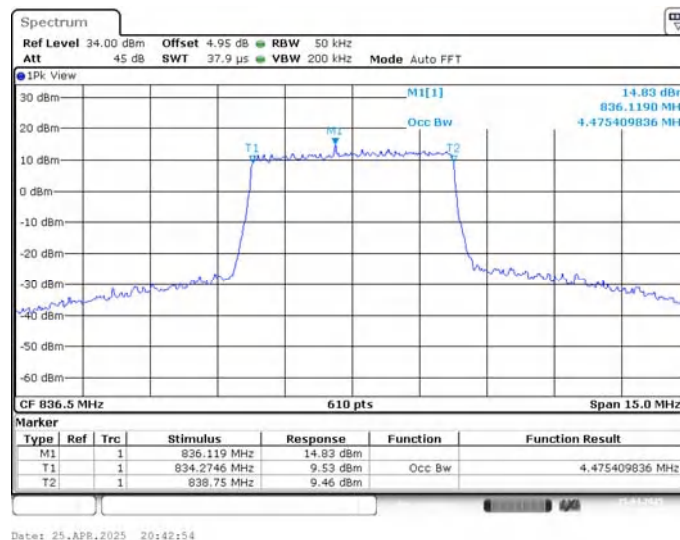
LTE band 26_Part22,5MHz(99%)

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

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



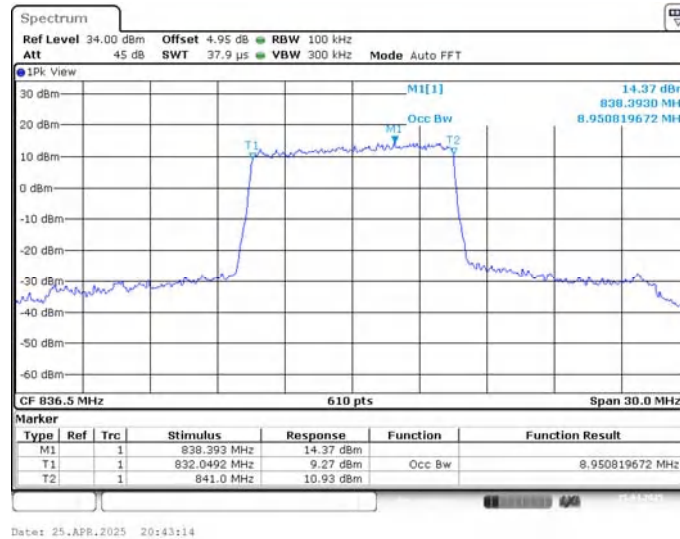
LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)



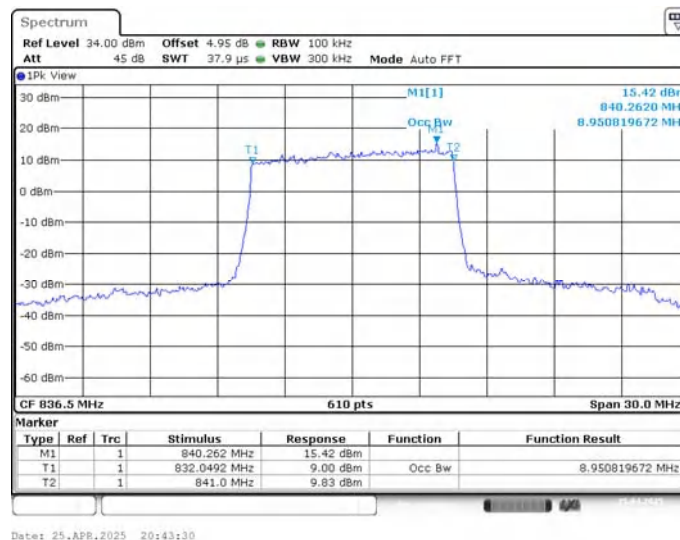
LTE band 26_Part22,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	8.951	8.951

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



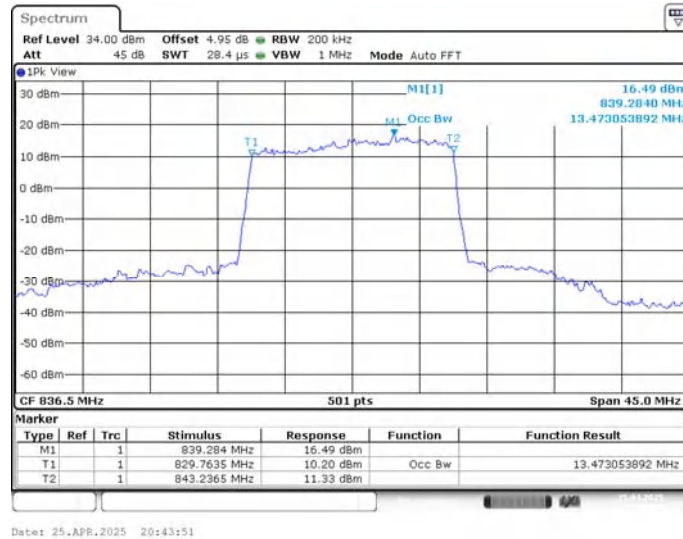
LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)



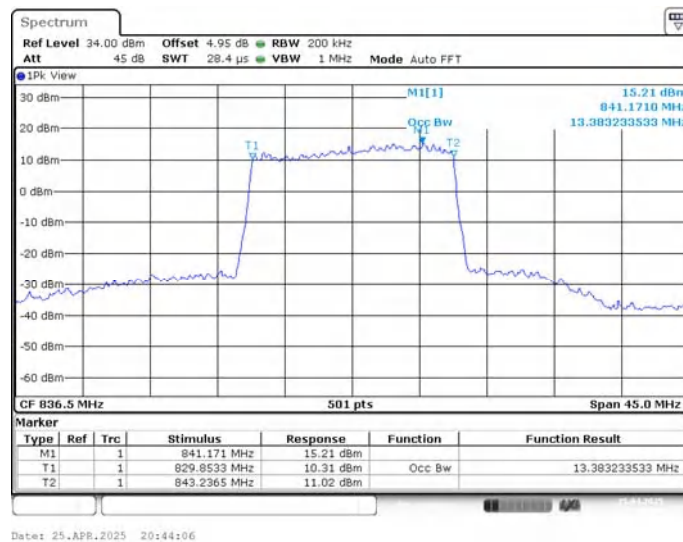
LTE band 26_Part22,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	13.473	13.383

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



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



LTE band 26_Part90,1.4MHz(99%)

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

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



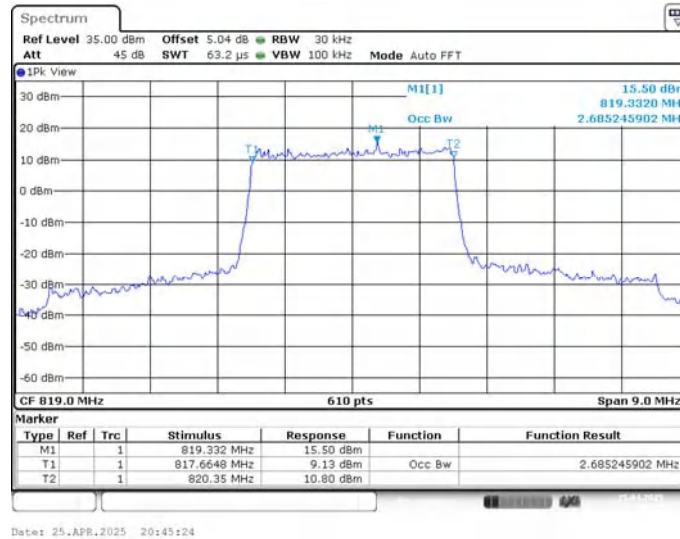
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



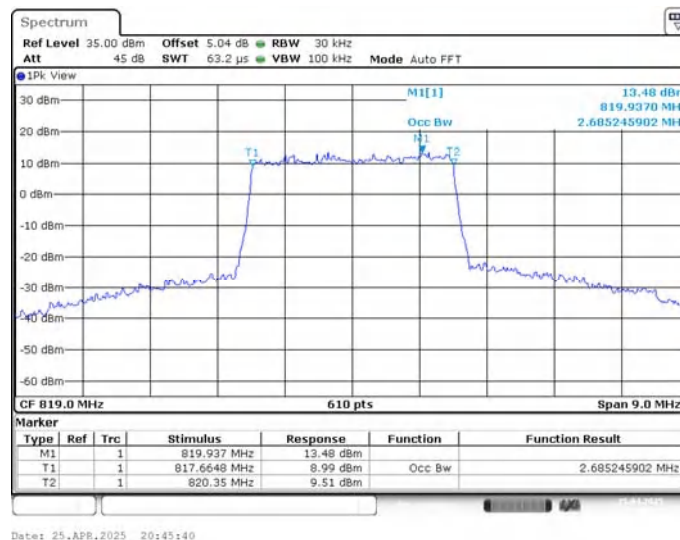
LTE band 26_Part90,3MHz(99%)

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

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



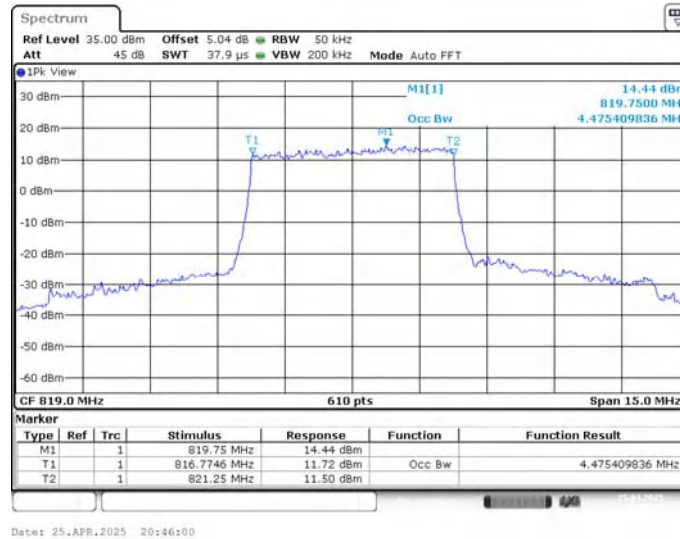
LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)



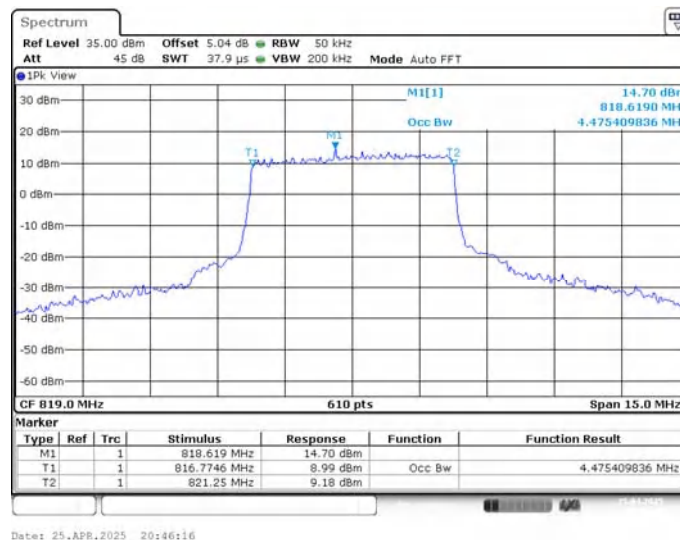
LTE band 26_Part90,5MHz(99%)

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

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



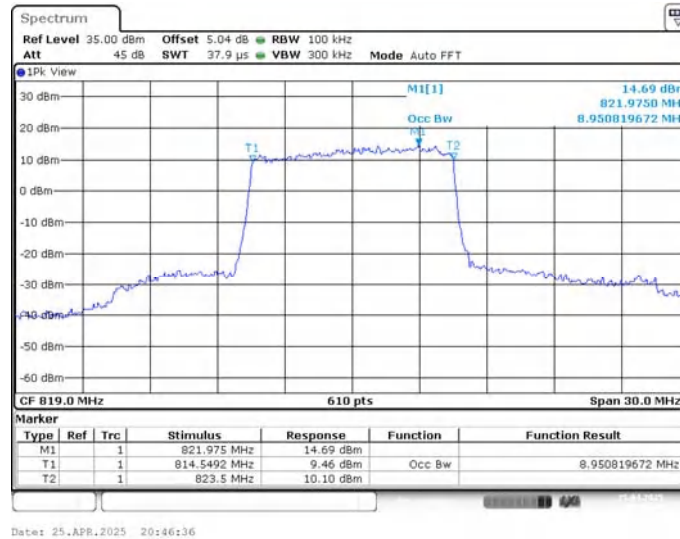
LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)



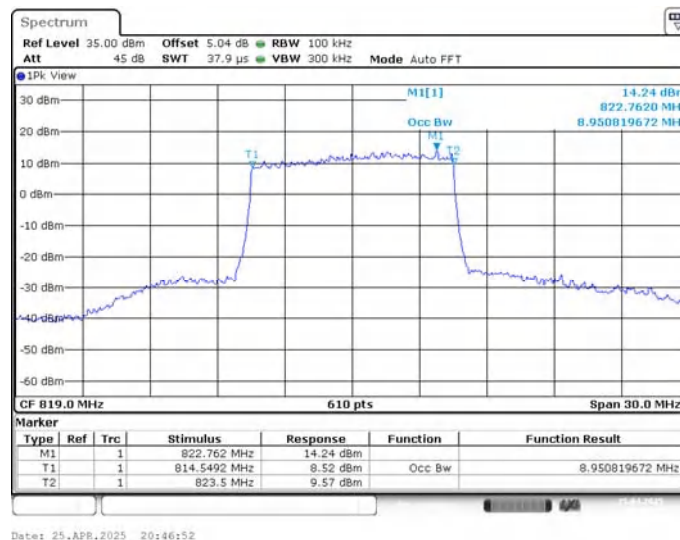
LTE band 26_Part90,10MHz(99%)

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

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



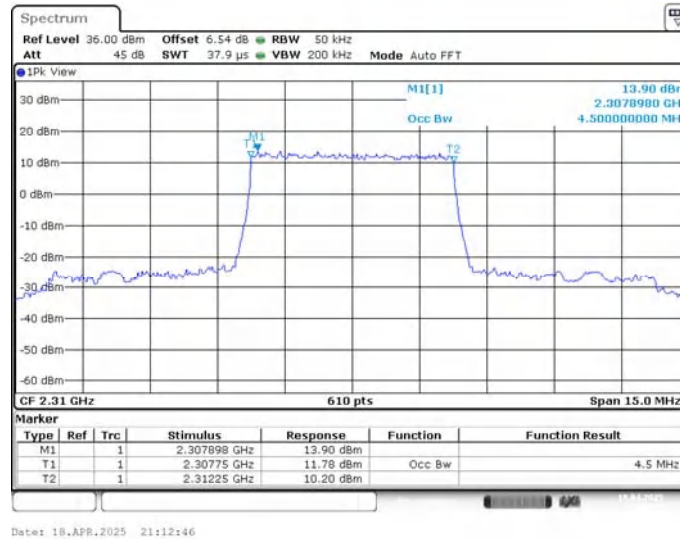
LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)



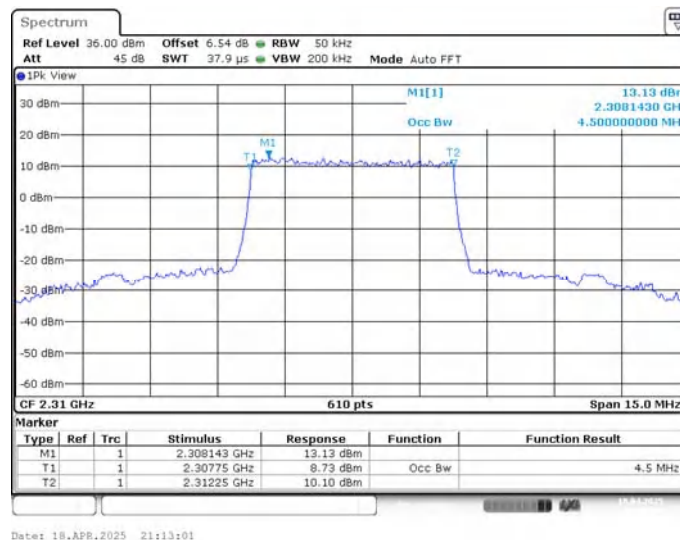
LTE band 30,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2310	4.500	4.500

LTE band 30 , 5MHz Bandwidth,MID,QPSK (99% BW)



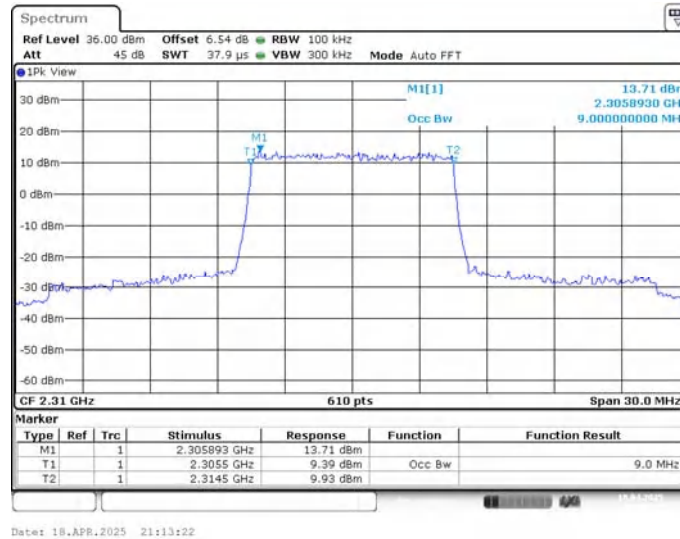
LTE band 30 , 5MHz Bandwidth,MID,16QAM (99% BW)



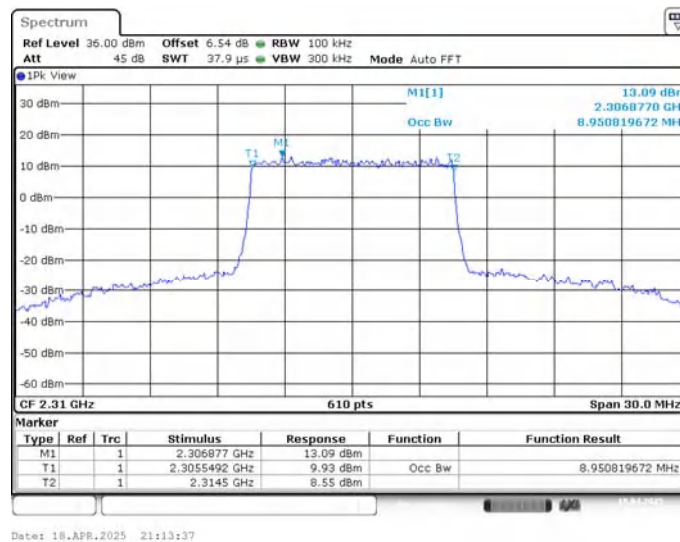
LTE band 30,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2310	9.000	8.951

LTE band 30 , 10MHz Bandwidth,MID,QPSK (99% BW)



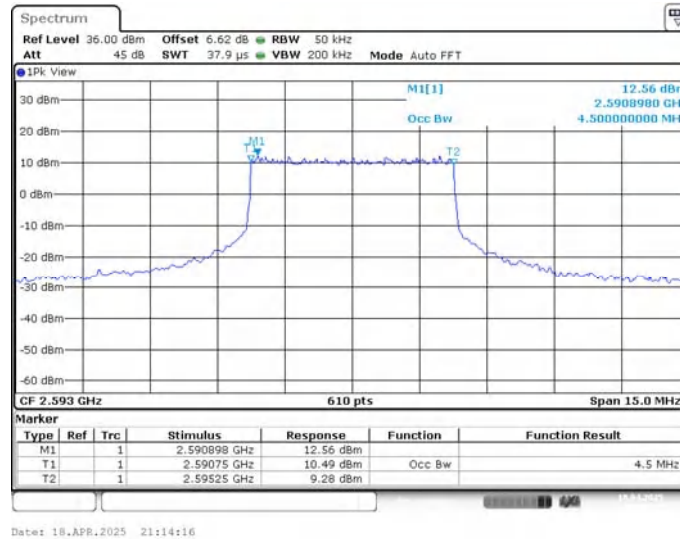
LTE band 30 , 10MHz Bandwidth,MID,16QAM (99% BW)



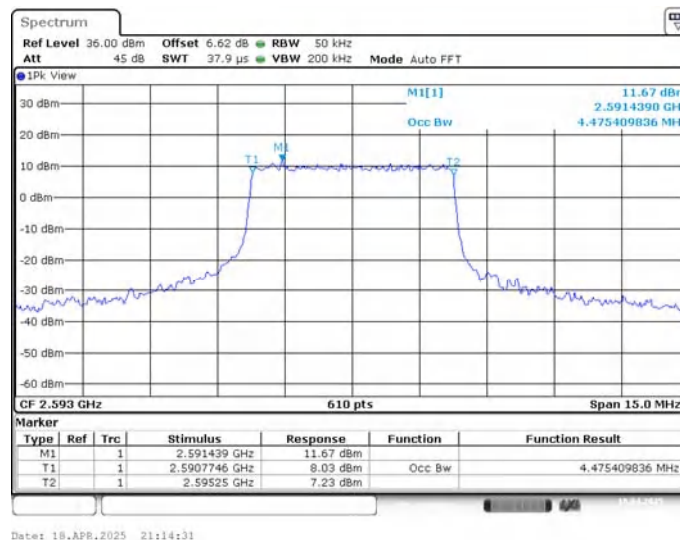
LTE band 41,5MHz(99%)

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

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



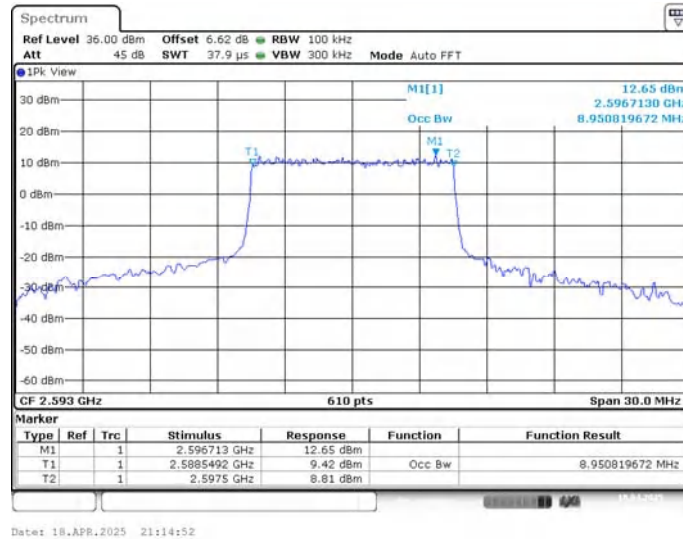
LTE band 41 , 5MHz Bandwidth,MID,16QAM (99% BW)



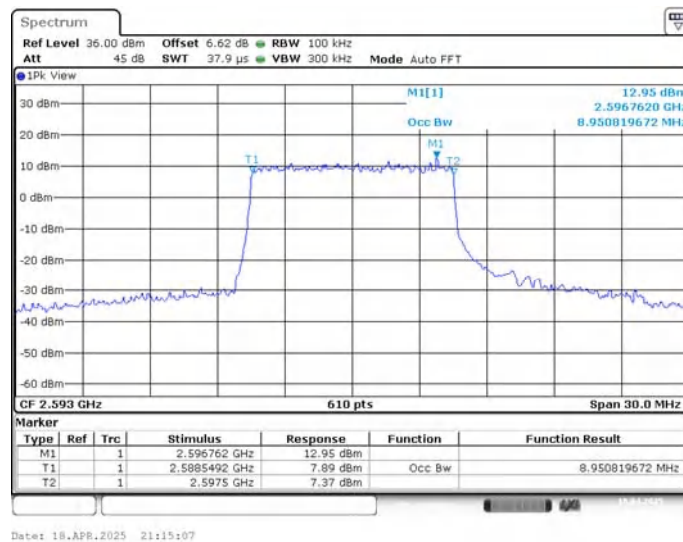
LTE band 41,10MHz(99%)

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

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



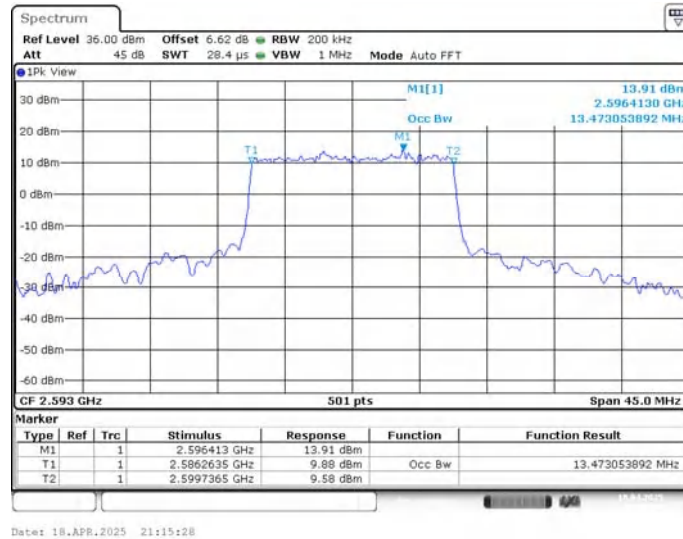
LTE band 41 , 10MHz Bandwidth,MID,16QAM (99% BW)



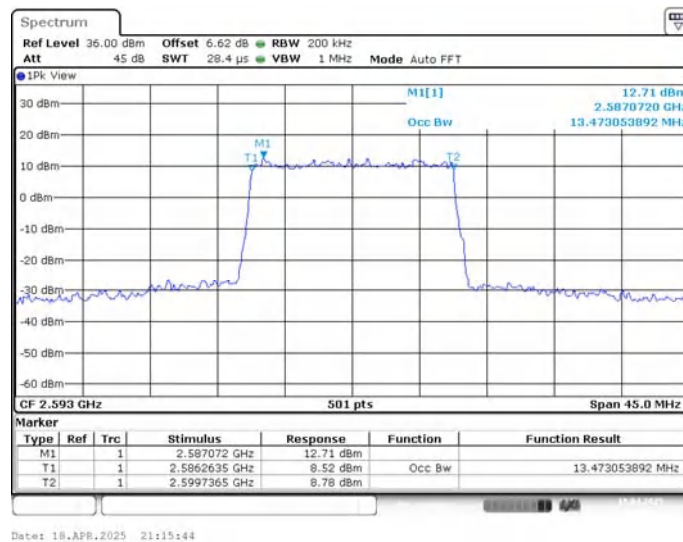
LTE band 41,15MHz(99%)

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

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



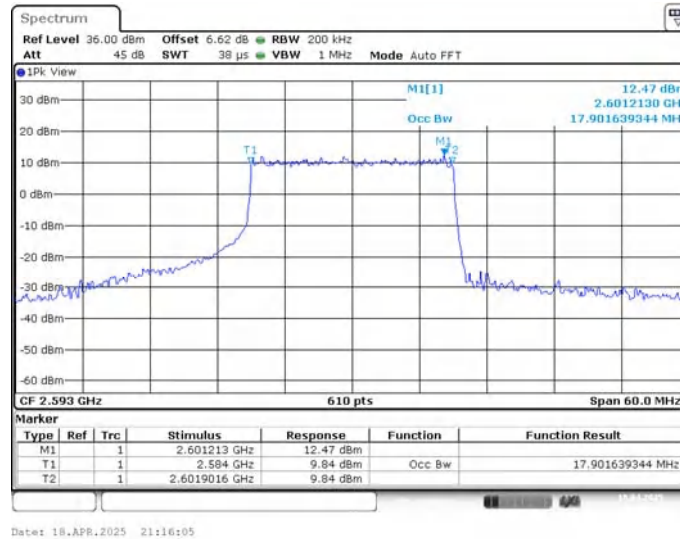
LTE band 41 , 15MHz Bandwidth,MID,16QAM (99% BW)



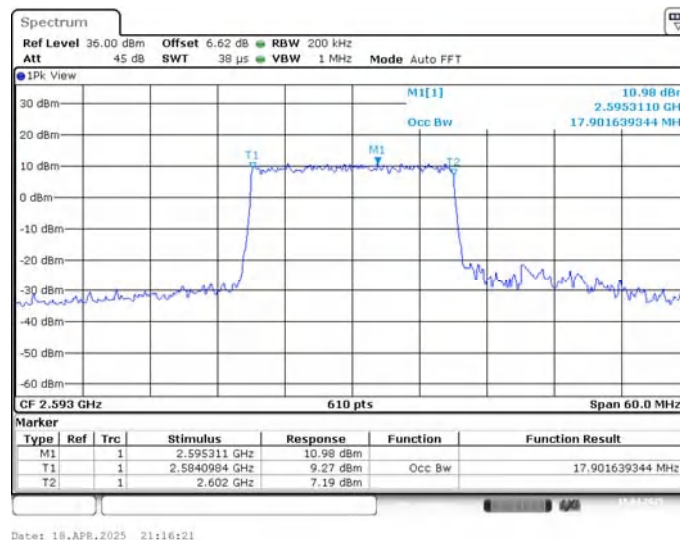
LTE band 41,20MHz(99%)

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

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



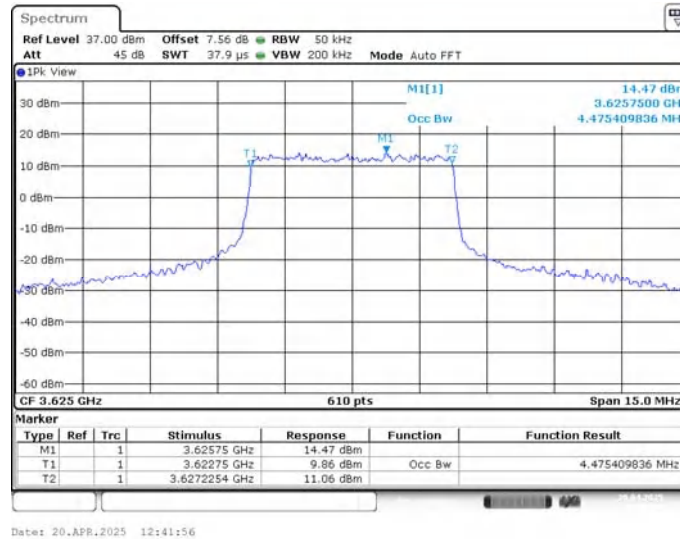
LTE band 41 , 20MHz Bandwidth,MID,16QAM (99% BW)



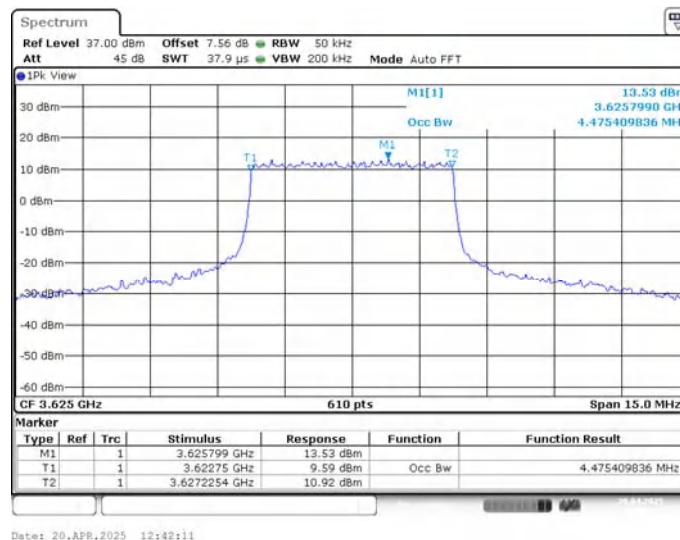
LTE band 48,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	4.475	4.475

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



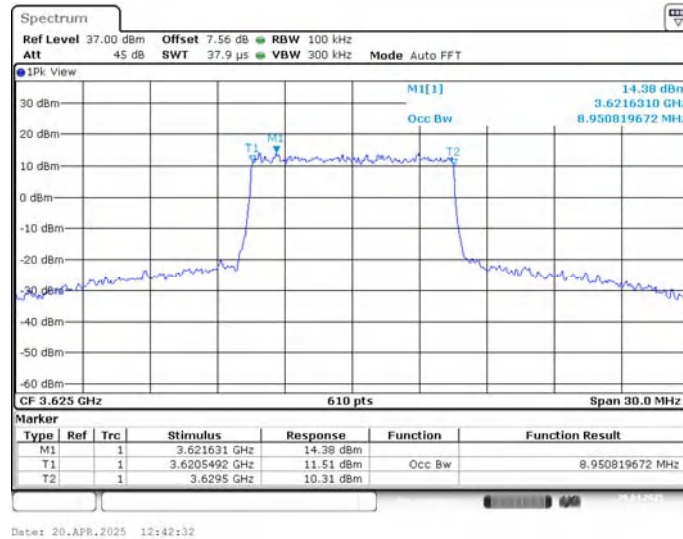
LTE band 48 , 5MHz Bandwidth,MID,16QAM (99% BW)



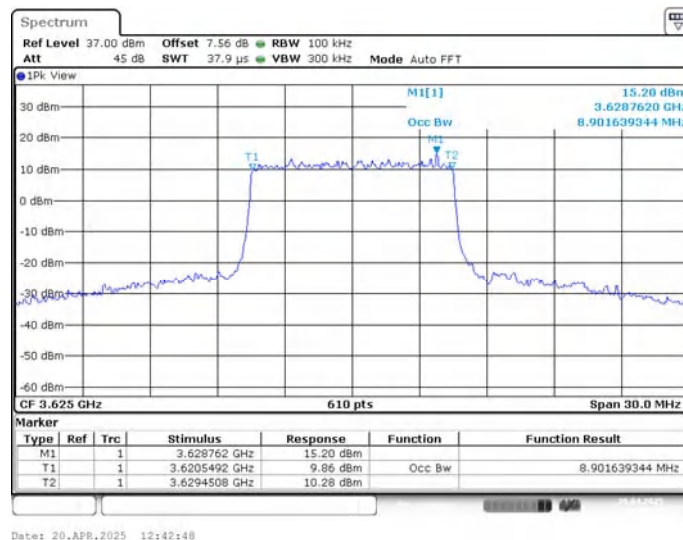
LTE band 48,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	8.951	8.902

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



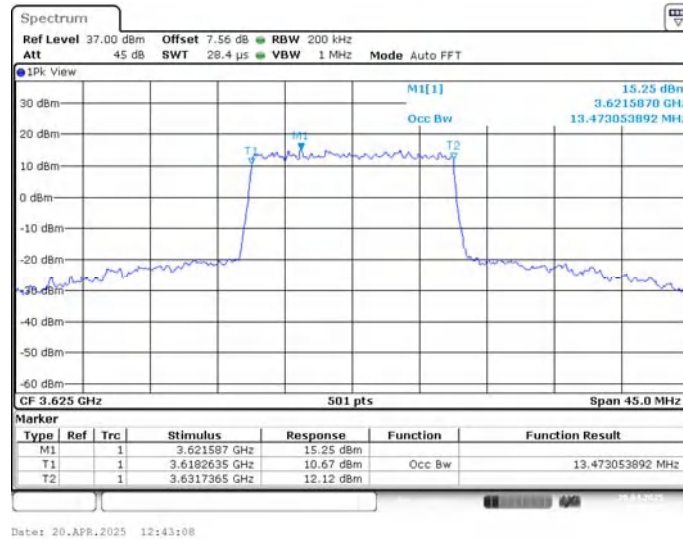
LTE band 48 , 10MHz Bandwidth,MID,16QAM (99% BW)



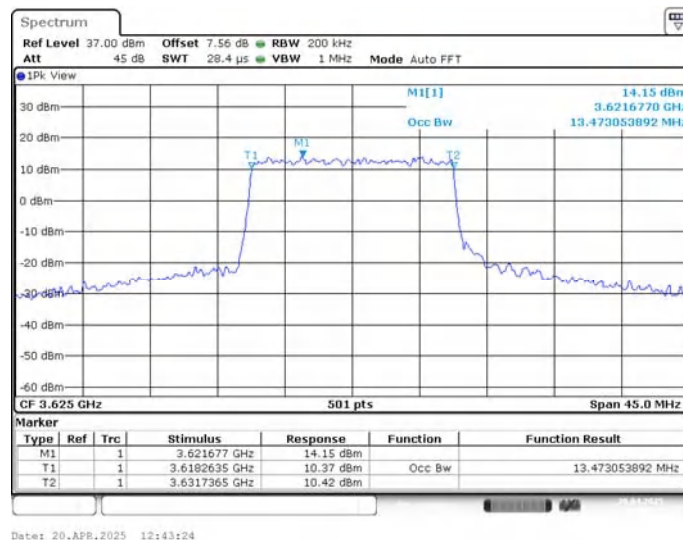
LTE band 48,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	13.473	13.473

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



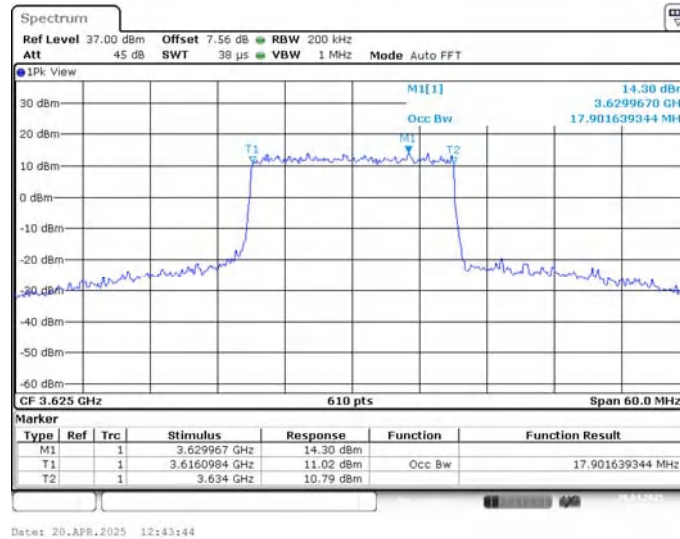
LTE band 48 , 15MHz Bandwidth,MID,16QAM (99% BW)



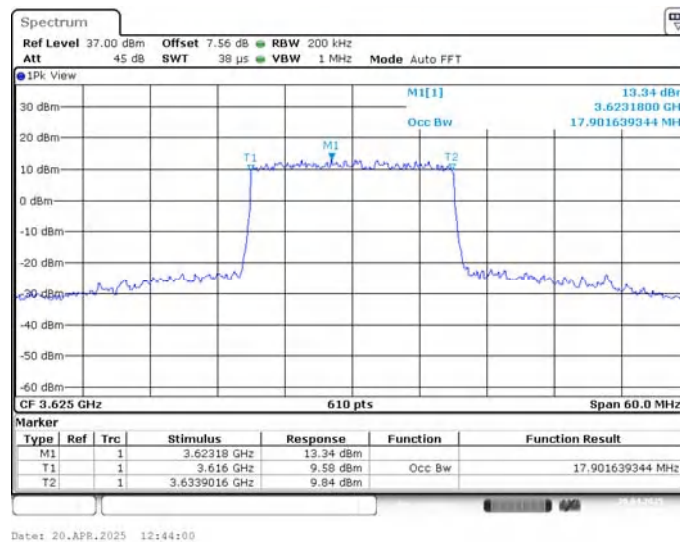
LTE band 48,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	17.902	17.902

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



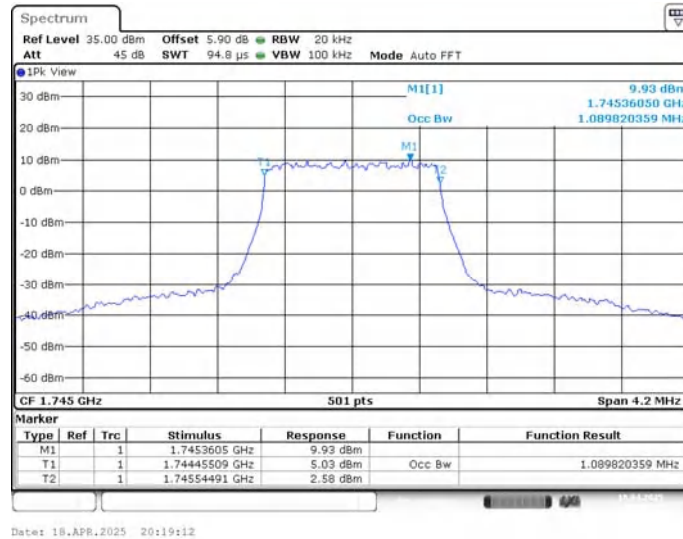
LTE band 48 , 20MHz Bandwidth,MID,16QAM (99% BW)



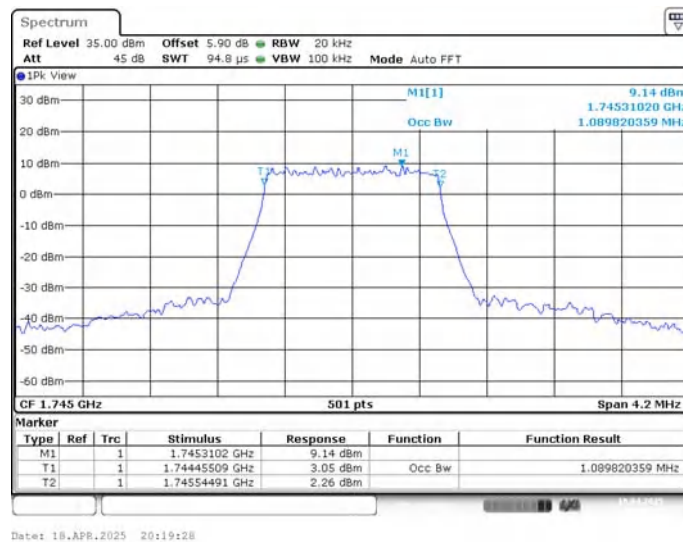
LTE band 66,1.4MHz(99%)

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

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



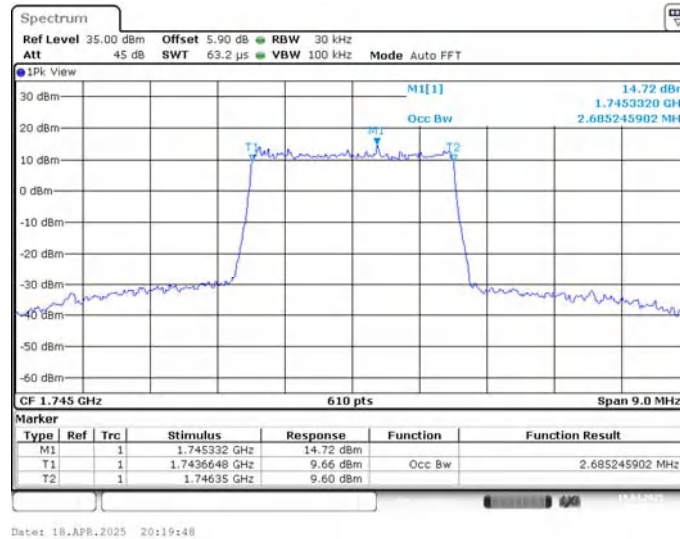
LTE band 66 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



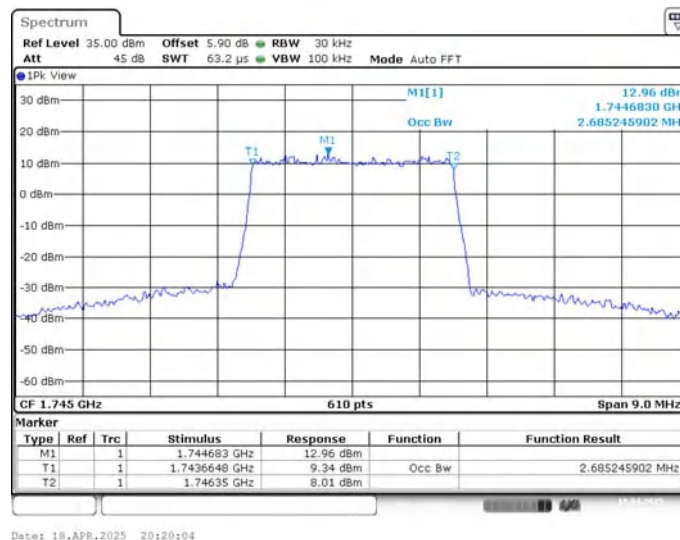
LTE band 66,3MHz(99%)

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

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



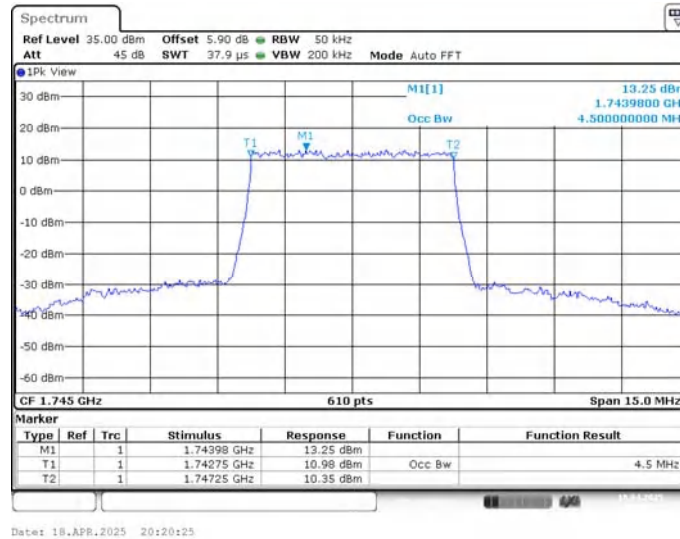
LTE band 66 , 3MHz Bandwidth,MID,16QAM (99% BW)



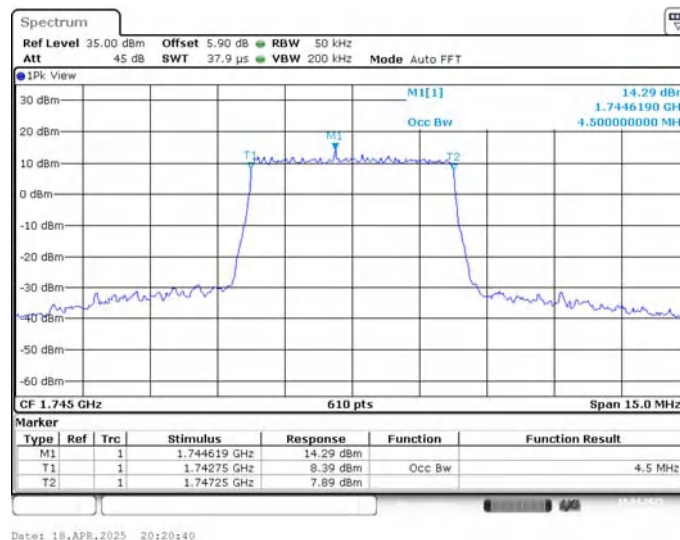
LTE band 66,5MHz(99%)

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

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



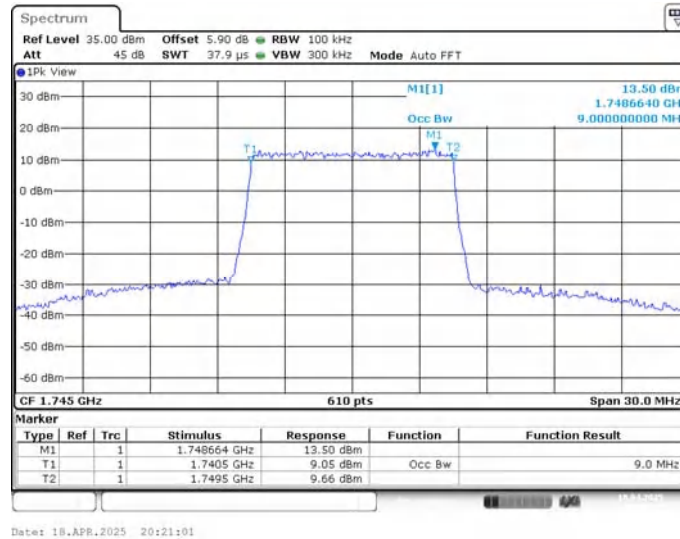
LTE band 66 , 5MHz Bandwidth,MID,16QAM (99% BW)



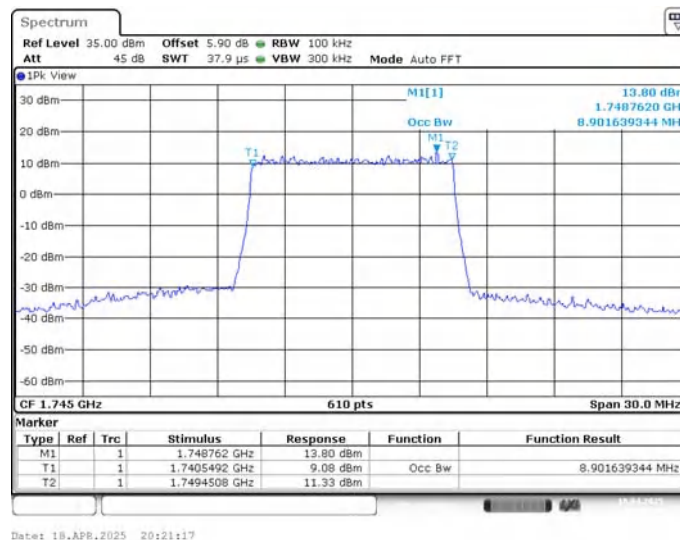
LTE band 66,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	9.000	8.902

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



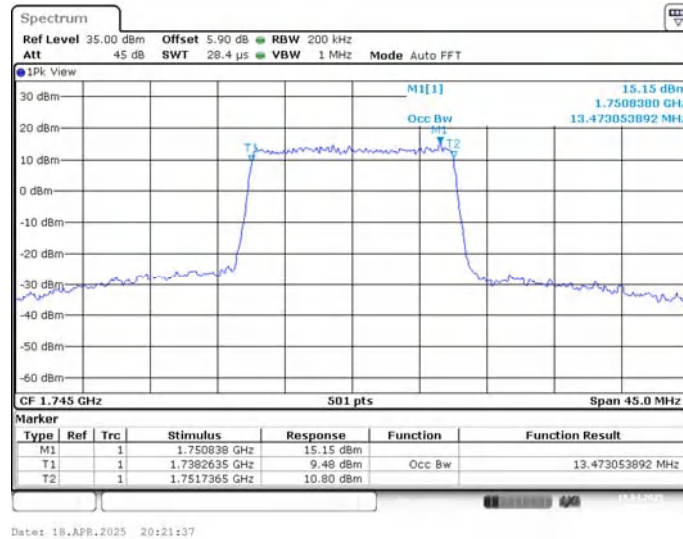
LTE band 66 , 10MHz Bandwidth,MID,16QAM (99% BW)



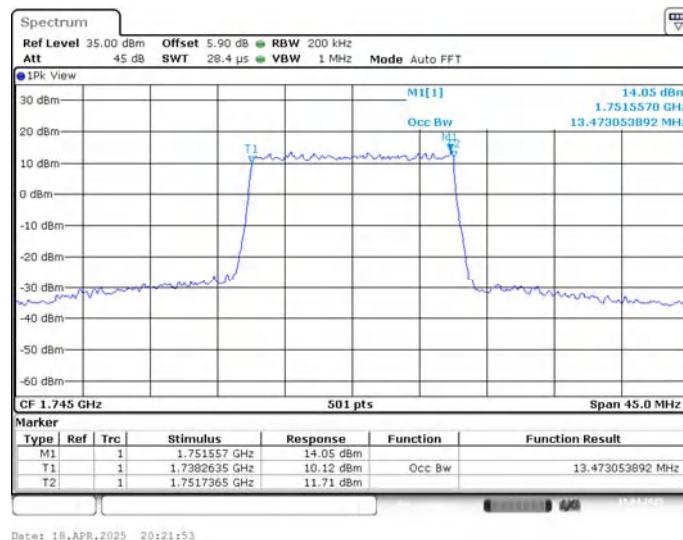
LTE band 66,15MHz(99%)

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

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



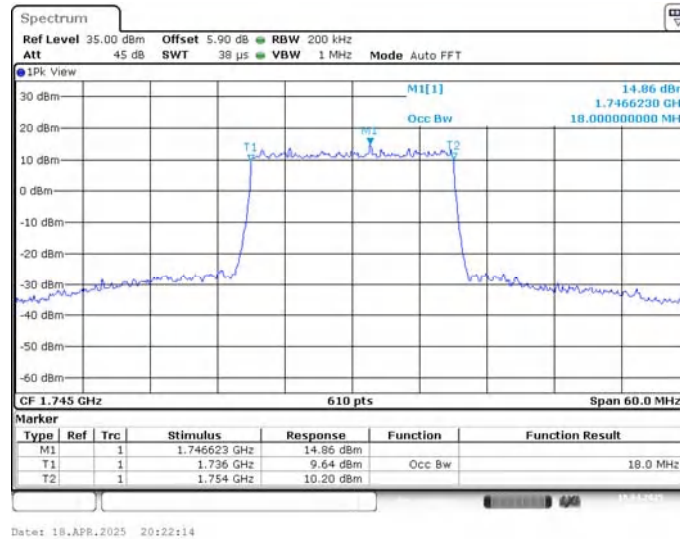
LTE band 66 , 15MHz Bandwidth,MID,16QAM (99% BW)



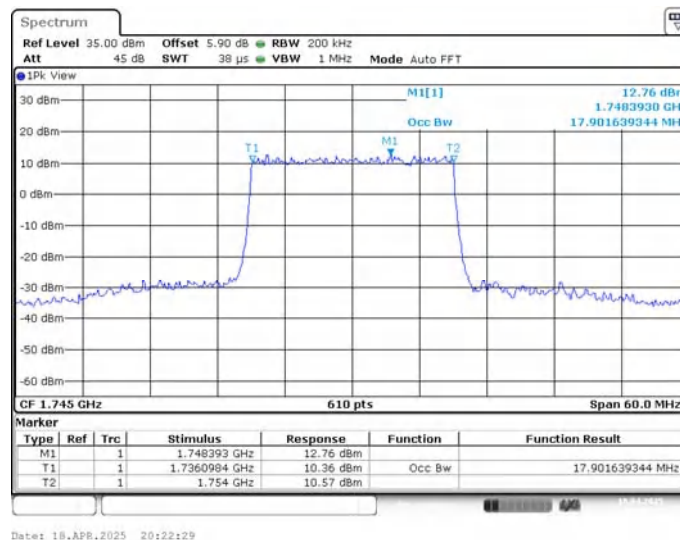
LTE band 66,20MHz(99%)

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

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



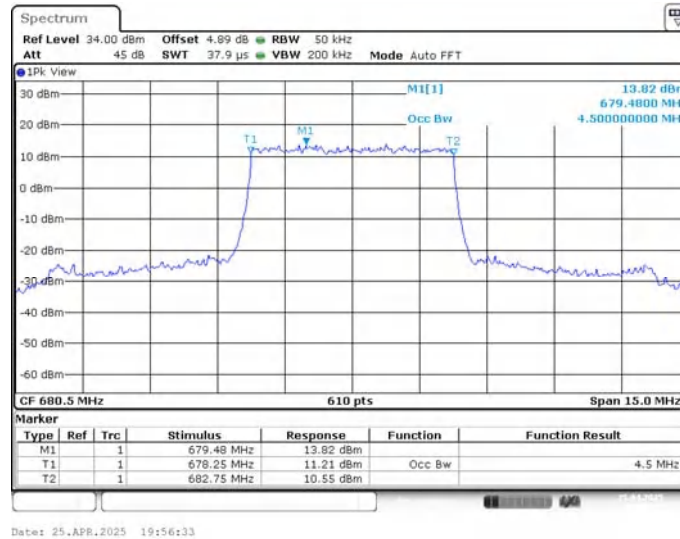
LTE band 66 , 20MHz Bandwidth,MID,16QAM (99% BW)



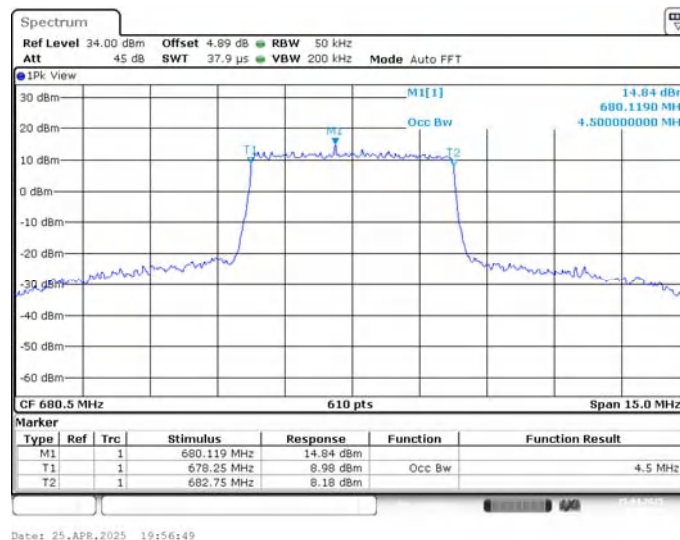
LTE band 71,5MHz(99%)

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

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



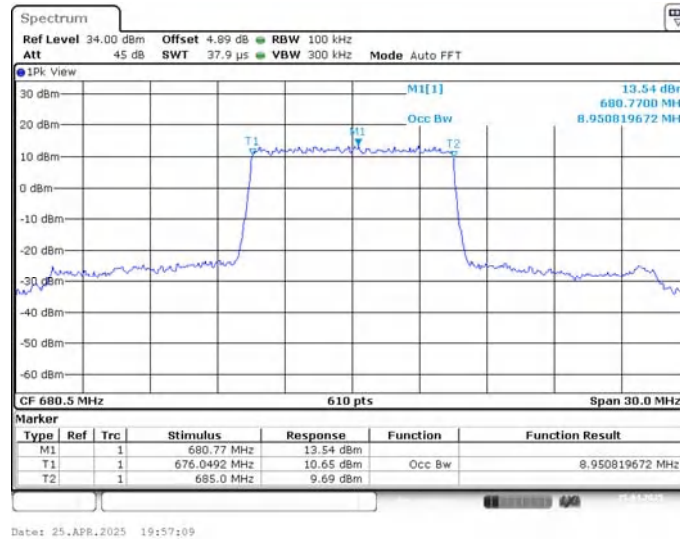
LTE band 71 , 5MHz Bandwidth,MID,16QAM (99% BW)



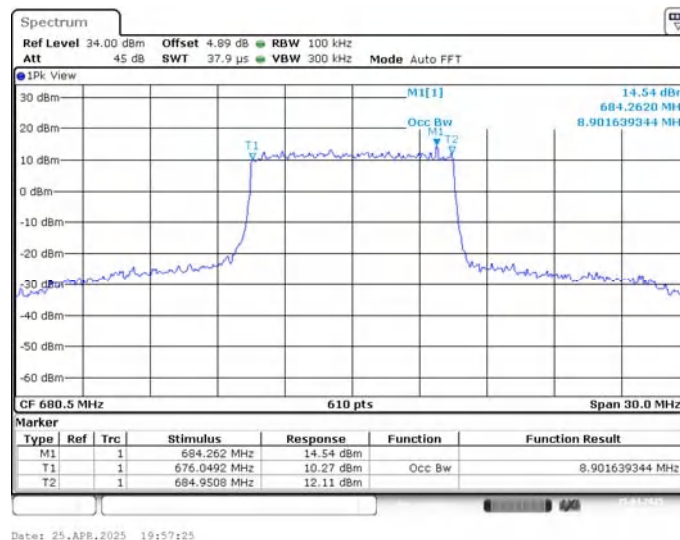
LTE band 71,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
680.5	8.951	8.902

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



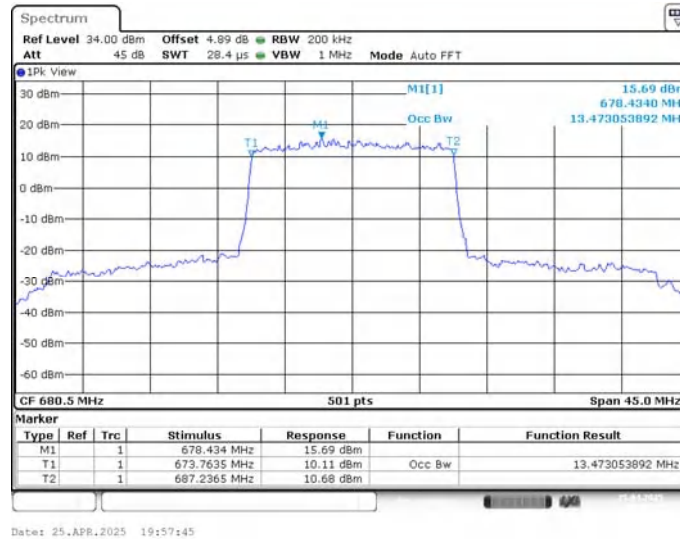
LTE band 71 , 10MHz Bandwidth,MID,16QAM (99% BW)



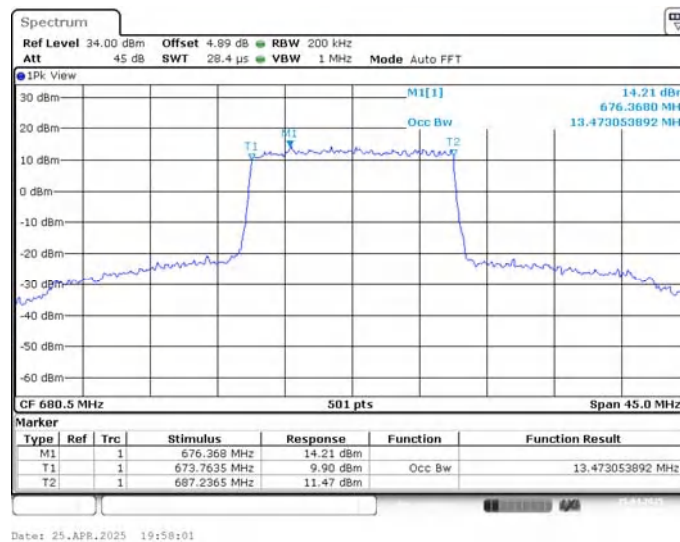
LTE band 71,15MHz(99%)

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

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



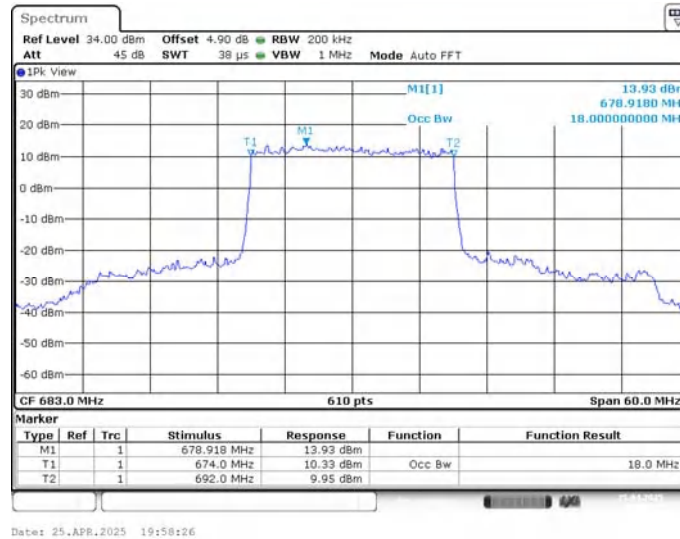
LTE band 71 , 15MHz Bandwidth,MID,16QAM (99% BW)



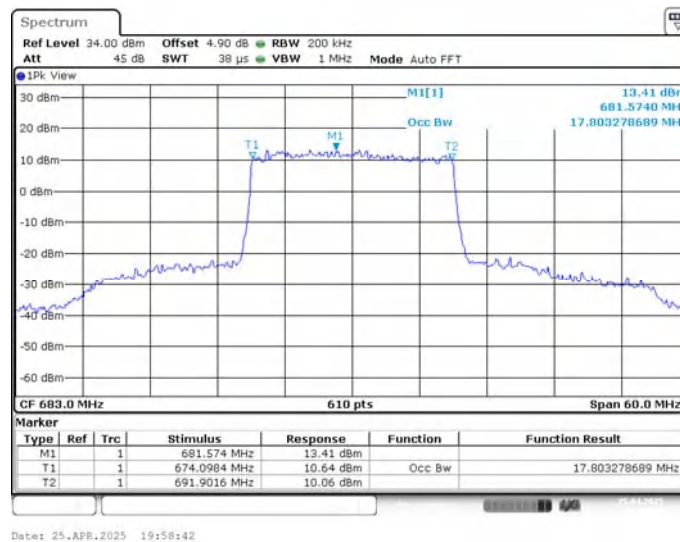
LTE band 71,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
683	18.000	17.803

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



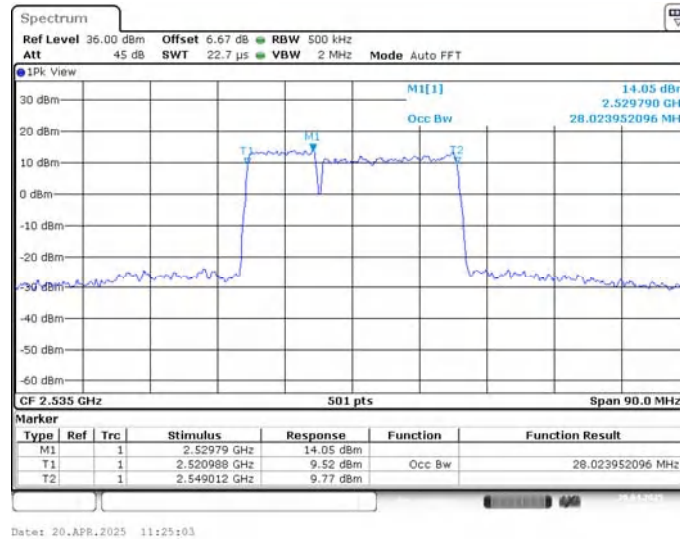
LTE band 71 , 20MHz Bandwidth,MID,16QAM (99% BW)



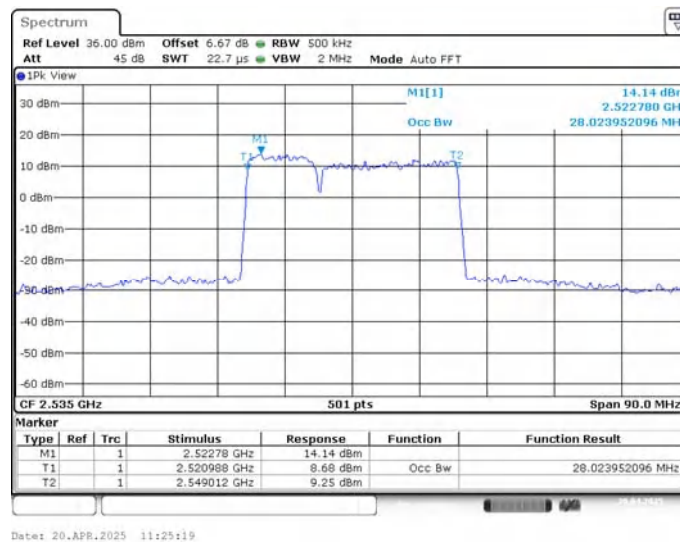
LTE CA band 7C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	28.024	28.024

LTE CA band 7C , 10MHz+20MHz Bandwidth,QPSK (99% BW)



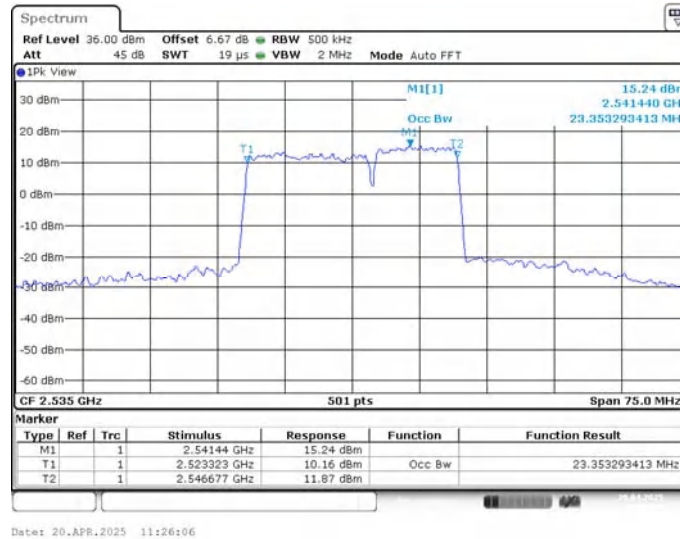
LTE CA band 7C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



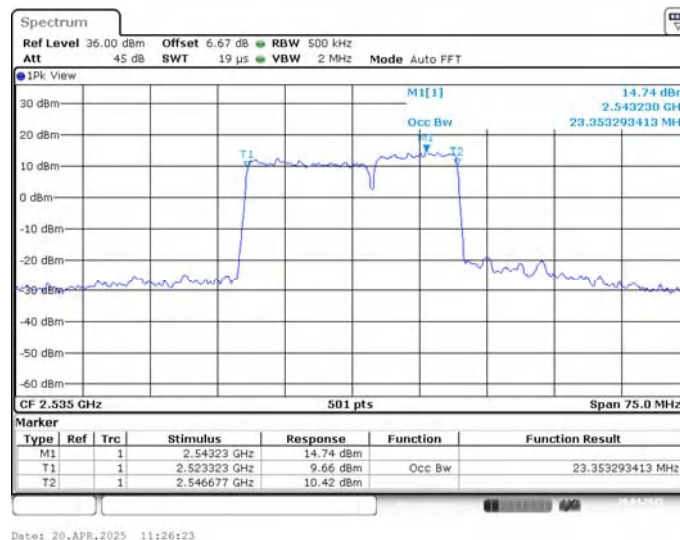
LTE CA band 7C, 15MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	23.353	23.353

LTE CA band 7C , 15MHz+10MHz Bandwidth,QPSK (99% BW)



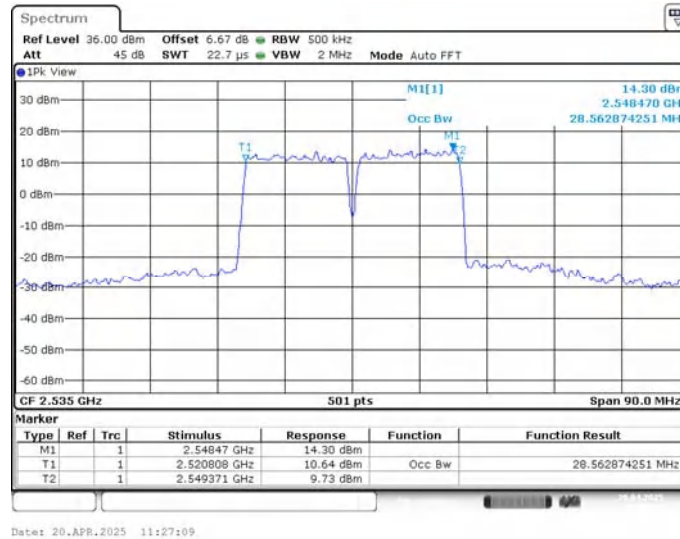
LTE CA band 7C , 15MHz+10MHz Bandwidth,16QAM (99% BW)



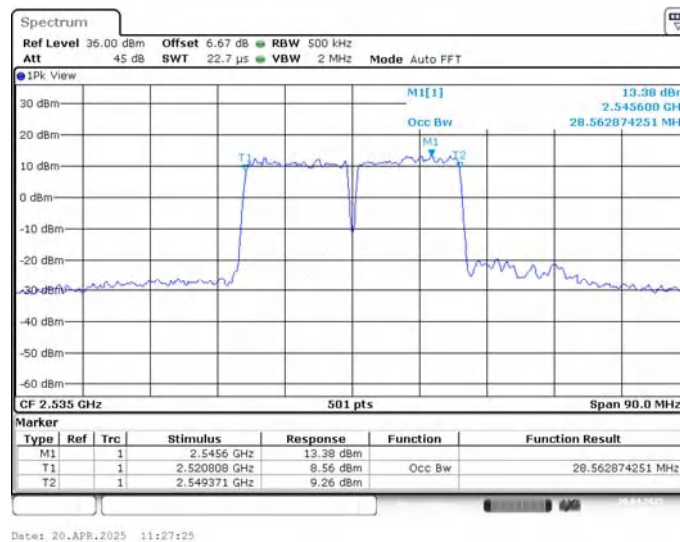
LTE CA band 7C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	28.563	28.563

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



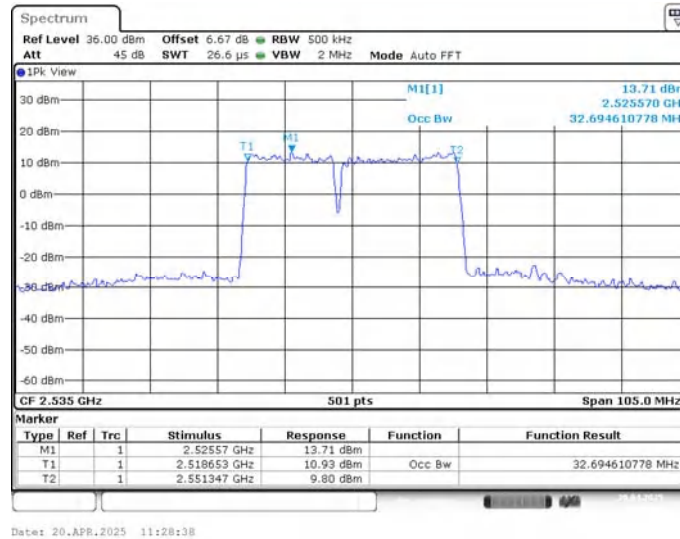
LTE CA band 7C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



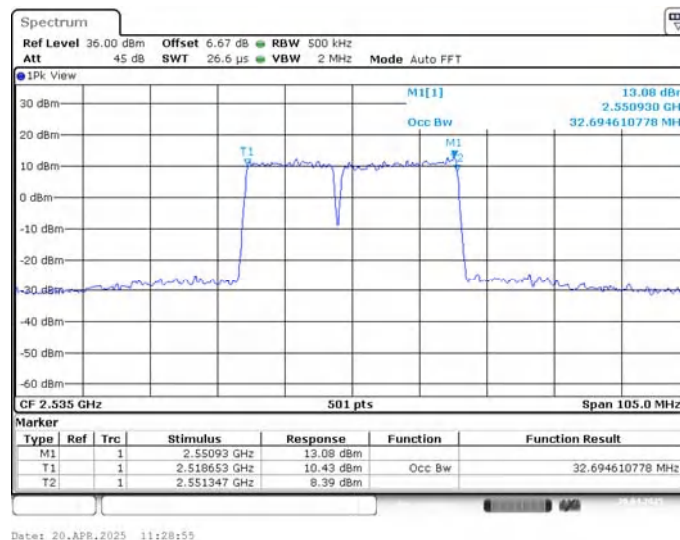
LTE CA band 7C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	32.695	32.695

LTE CA band 7C , 15MHz+20MHz Bandwidth,QPSK (99% BW)



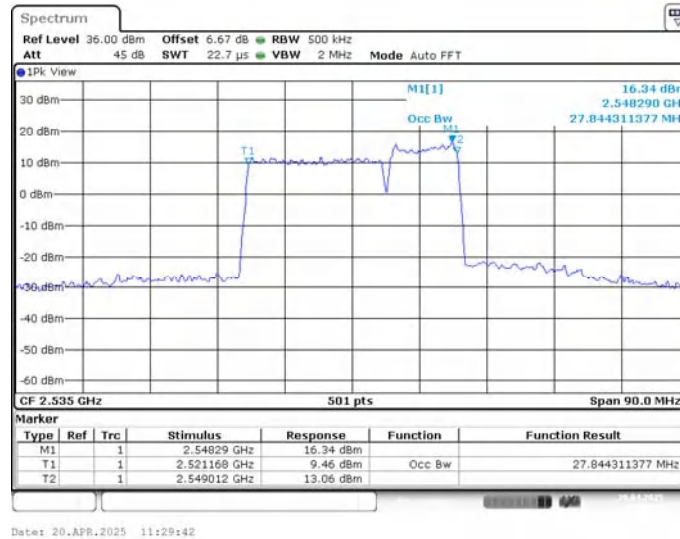
LTE CA band 7C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



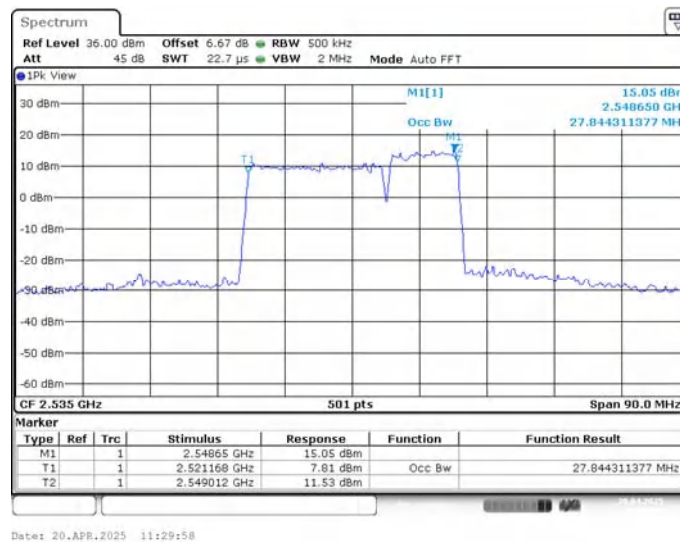
LTE CA band 7C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	27.844	27.844

LTE CA band 7C , 20MHz+10MHz Bandwidth,QPSK (99% BW)



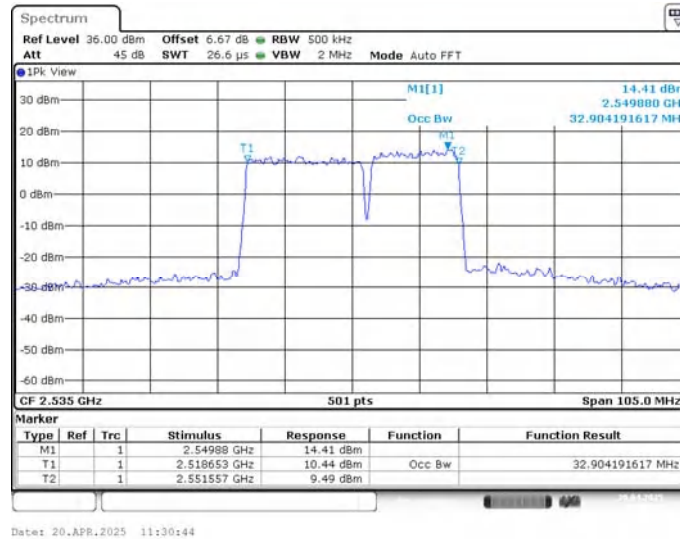
LTE CA band 7C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



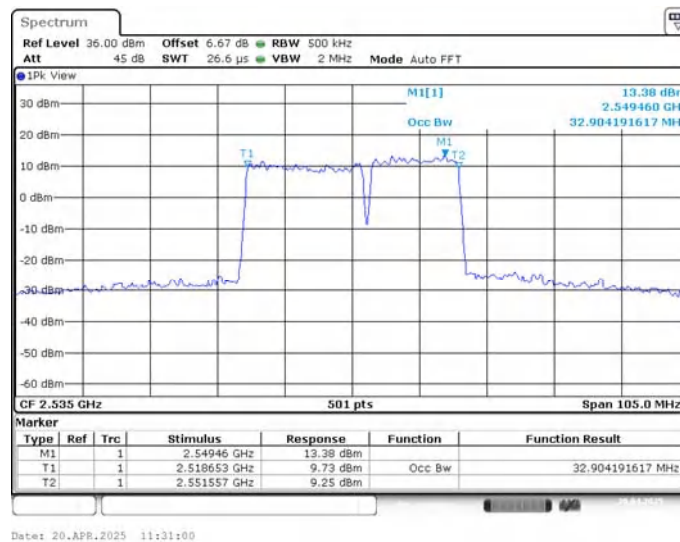
LTE CA band 7C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	32.904	32.904

LTE CA band 7C , 20MHz+15MHz Bandwidth,QPSK (99% BW)



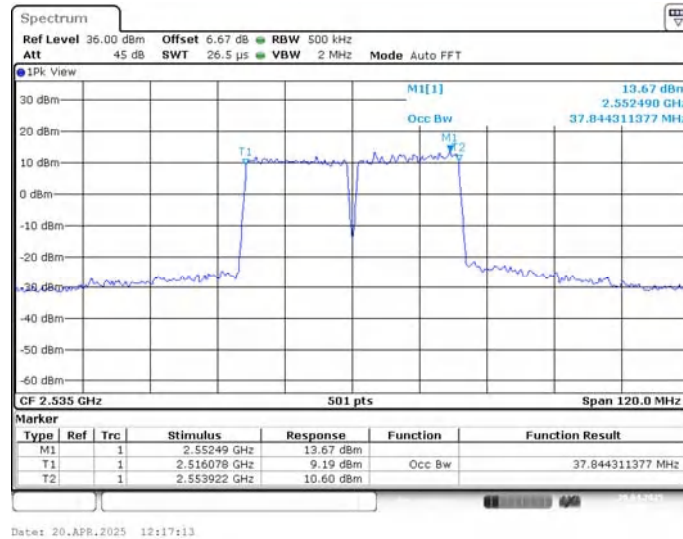
LTE CA band 7C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



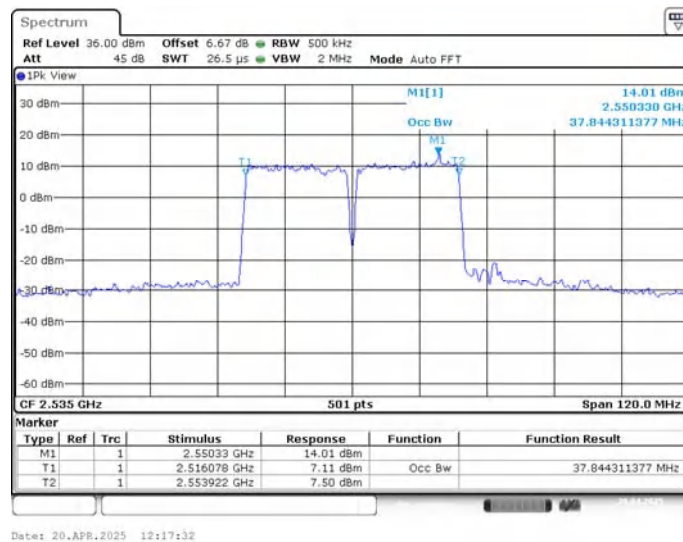
LTE CA band 7C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2535.0	37.844	37.844

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



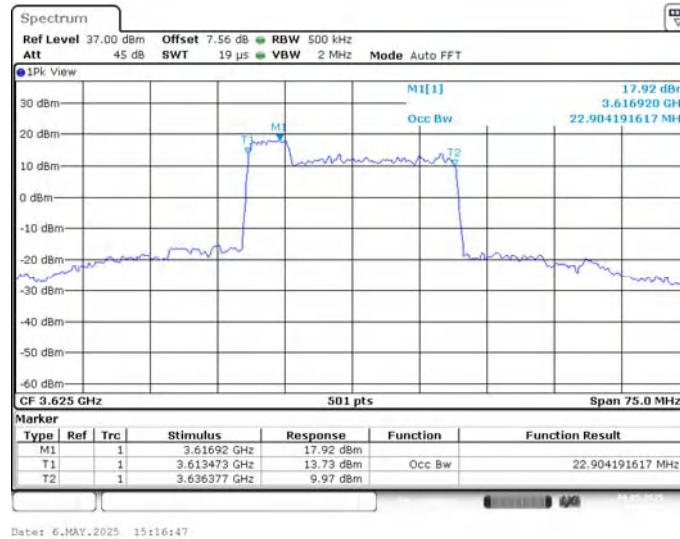
LTE CA band 7C , 20MHz+20MHz Bandwidth,16QAM (99% BW)



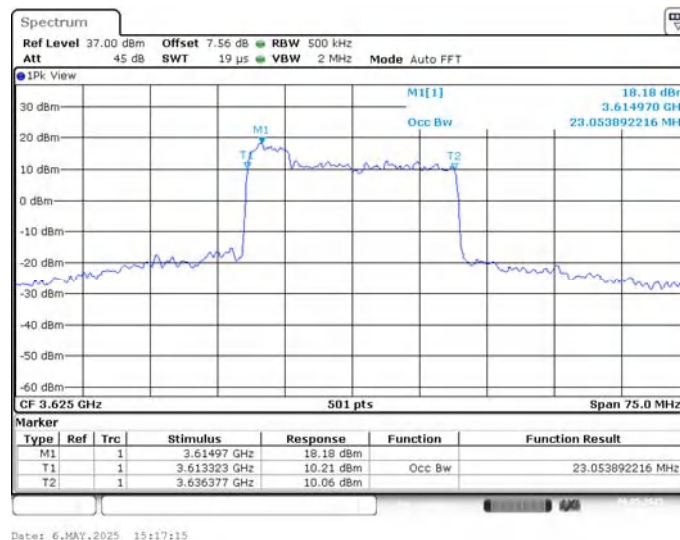
LTE CA band 48C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	22.904	23.054

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



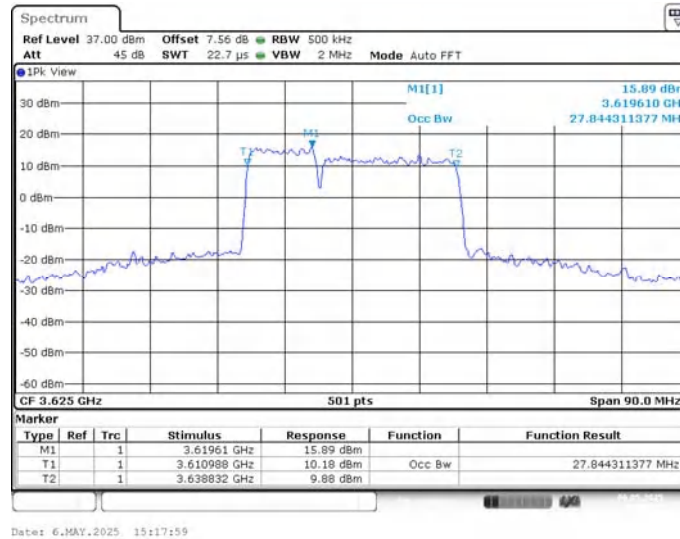
LTE CA band 48C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



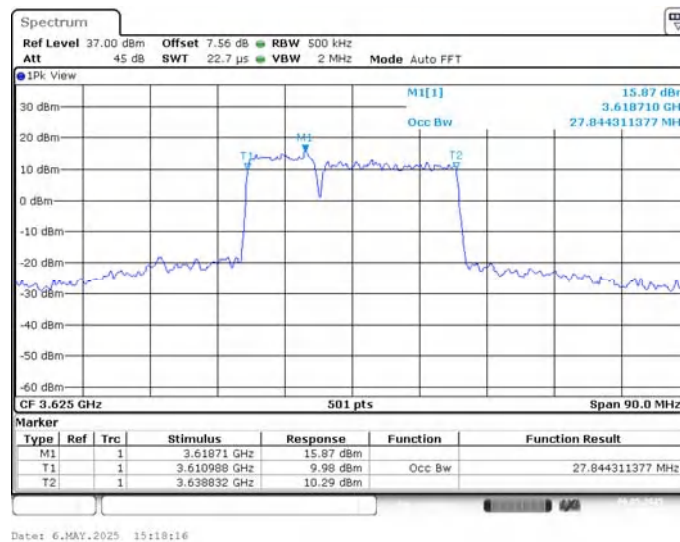
LTE CA band 48C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	27.844	27.844

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



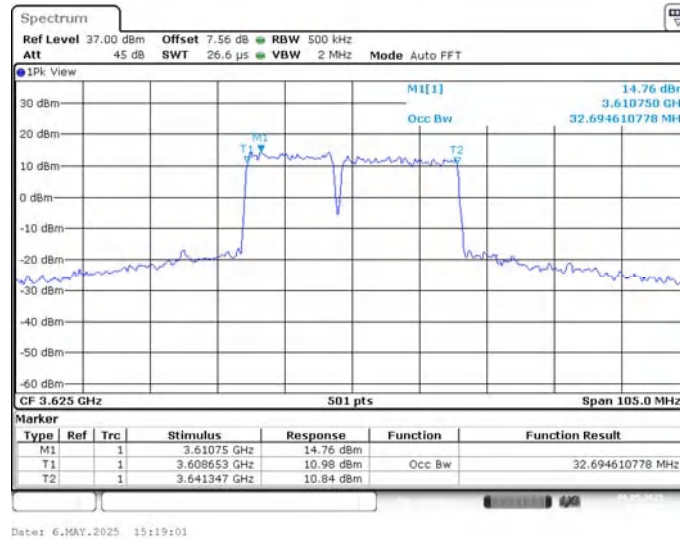
LTE CA band 48C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



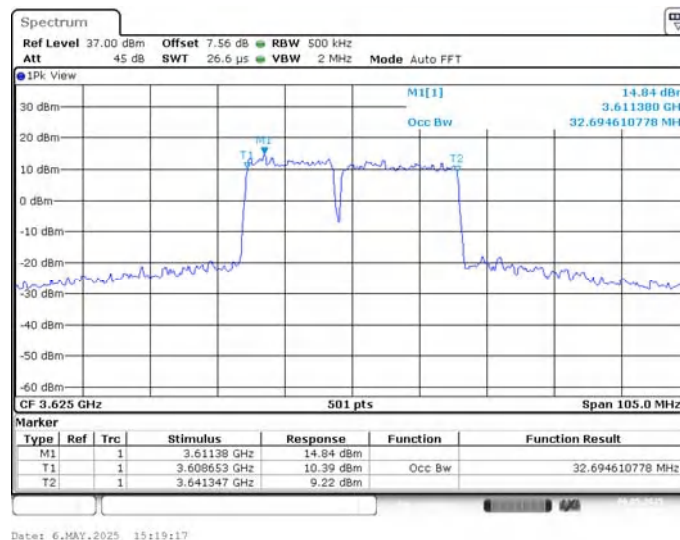
LTE CA band 48C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	32.695	32.695

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



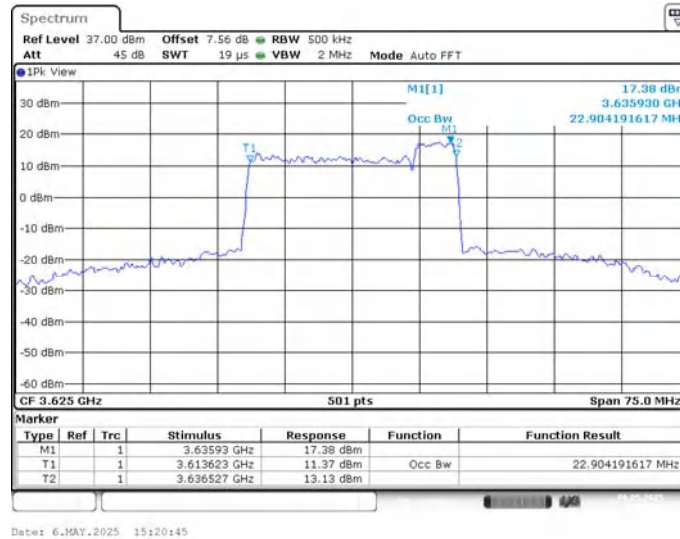
LTE CA band 48C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



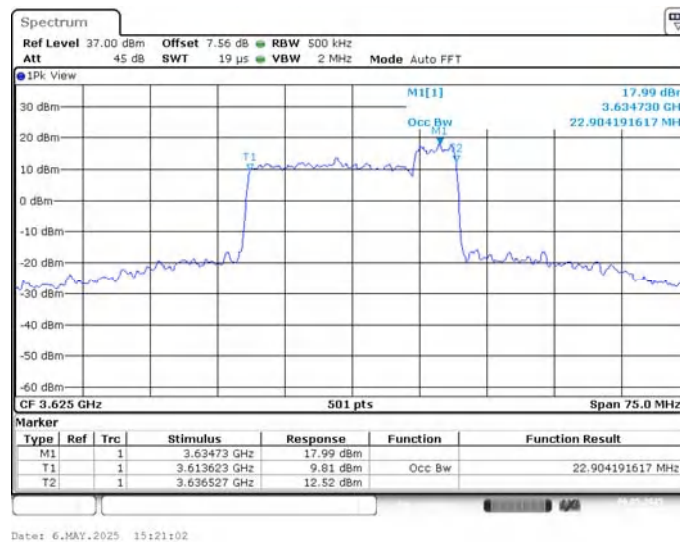
LTE CA band 48C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	22.904	22.904

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



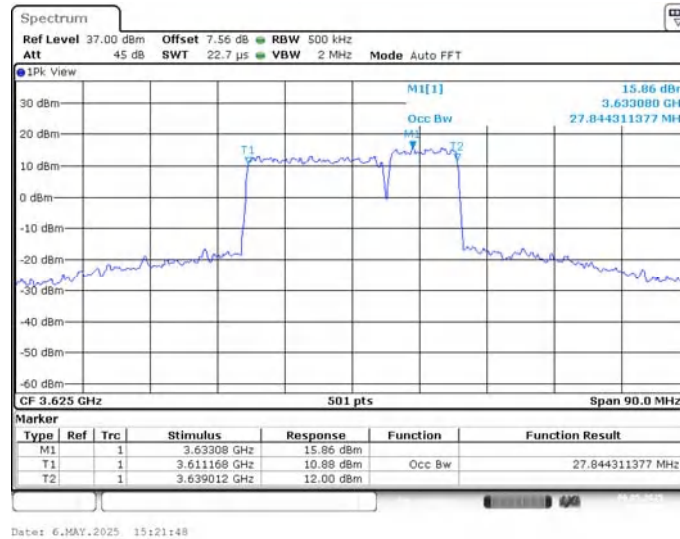
LTE CA band 48C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



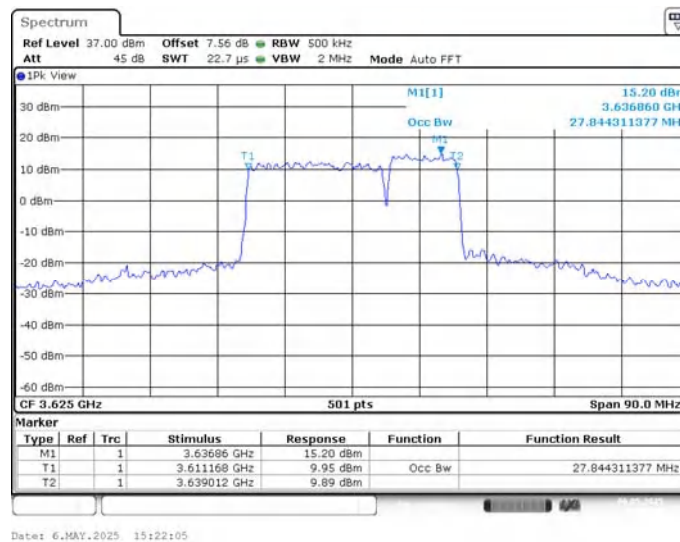
LTE CA band 48C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	27.844	27.844

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



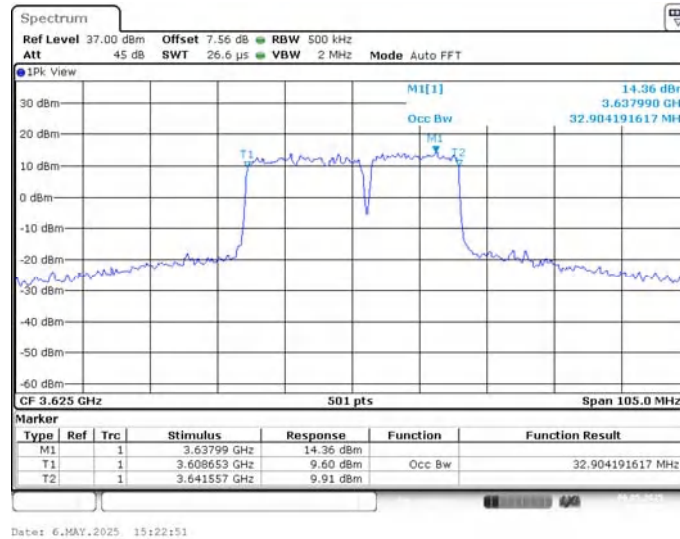
LTE CA band 48C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



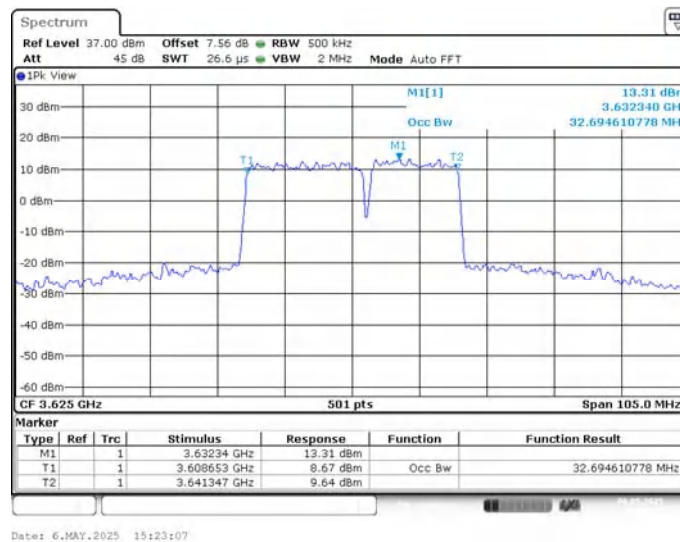
LTE CA band 48C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	32.904	32.695

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



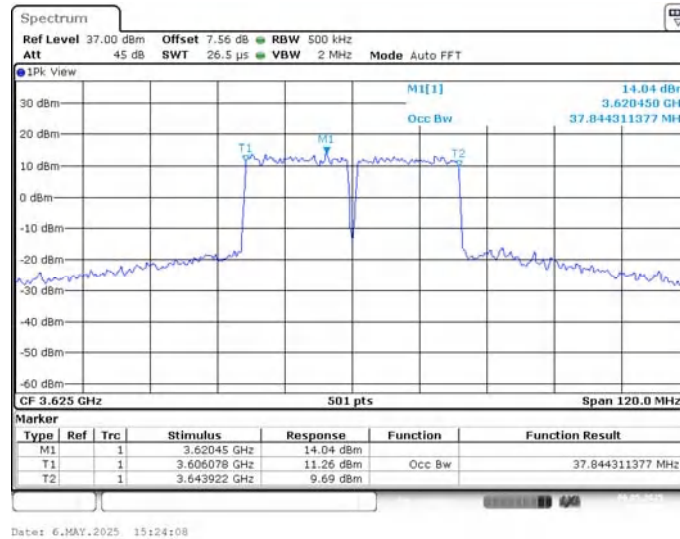
LTE CA band 48C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



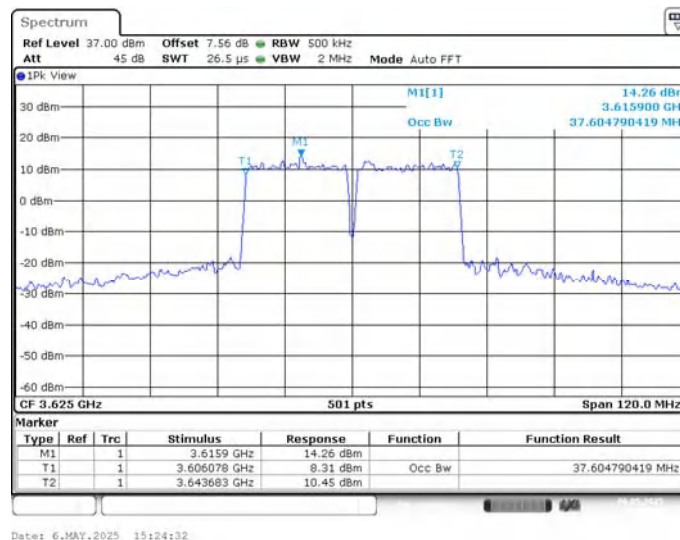
LTE CA band 48C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
3625.0	37.844	37.605

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



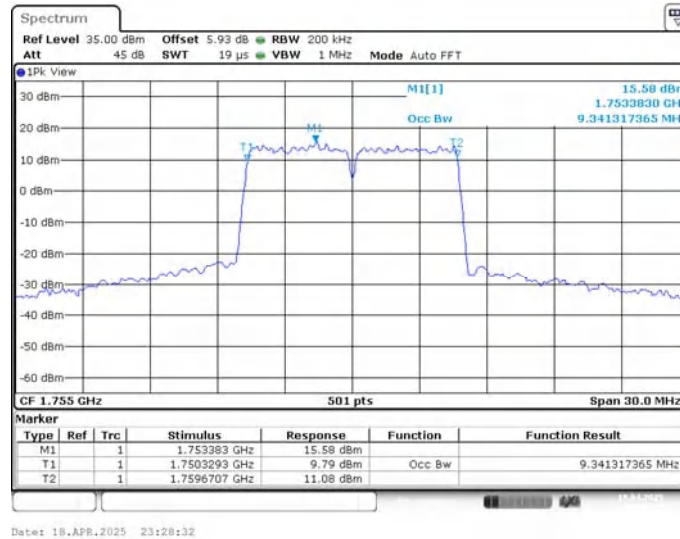
LTE CA band 48C , 20MHz+20MHz Bandwidth,16QAM (99% BW)



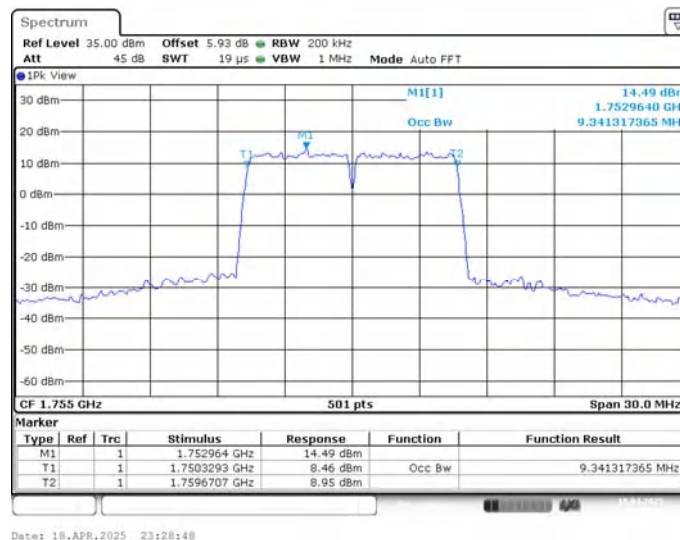
LTE CA band 66B, 5MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	9.341	9.341

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



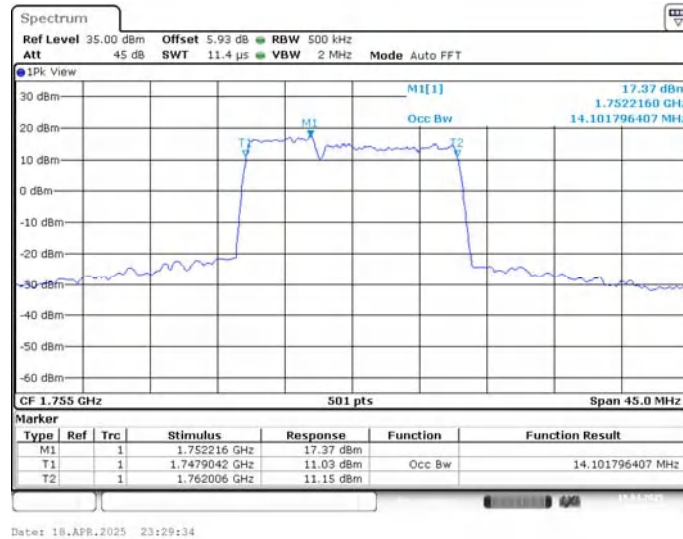
LTE CA band 66B , 5MHz+5MHz Bandwidth,16QAM (99% BW)



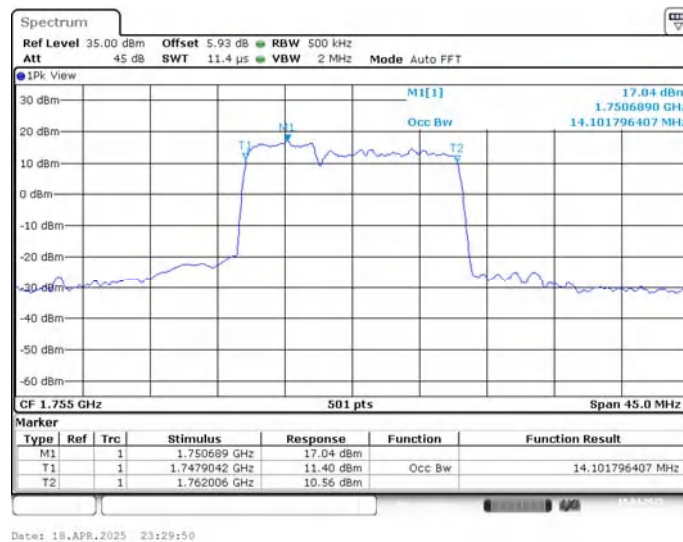
LTE CA band 66B, 5MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.102	14.102

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



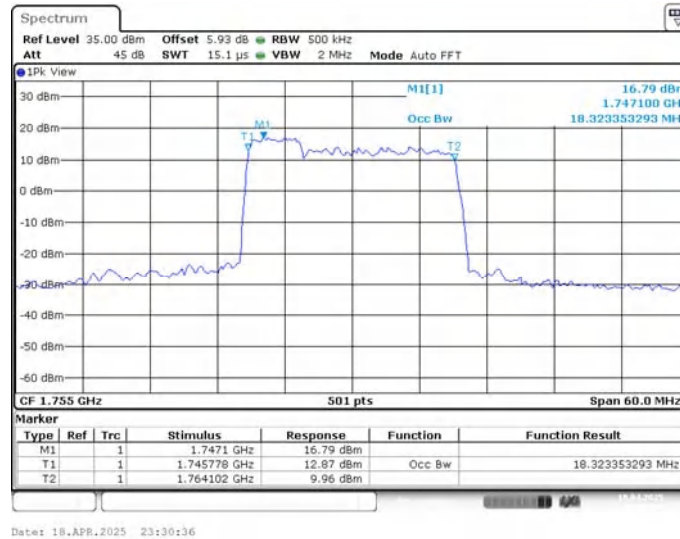
LTE CA band 66B , 5MHz+10MHz Bandwidth,16QAM (99% BW)



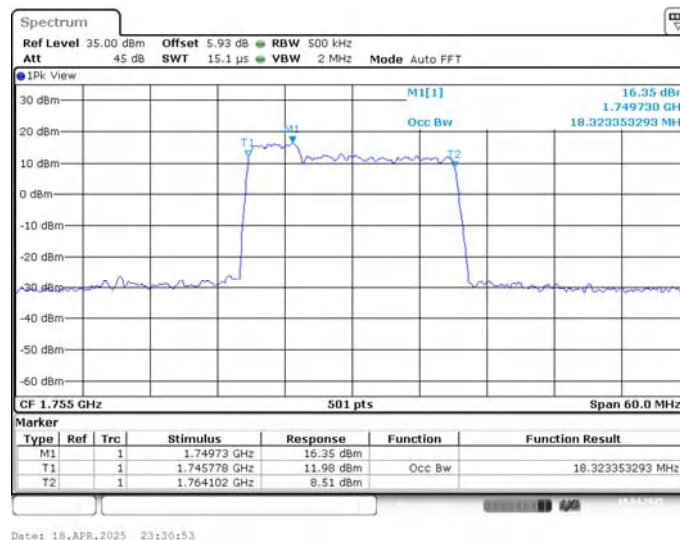
LTE CA band 66B, 5MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.323	18.323

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



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



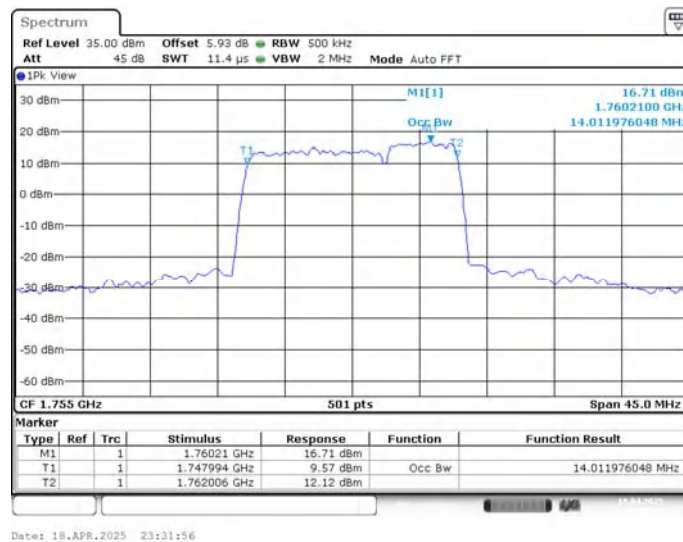
LTE CA band 66B, 10MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	14.102	14.012

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



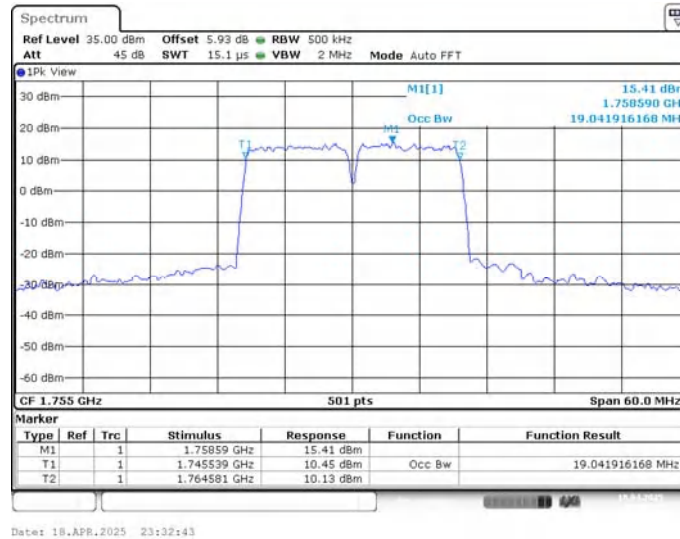
LTE CA band 66B , 10MHz+5MHz Bandwidth,16QAM (99% BW)



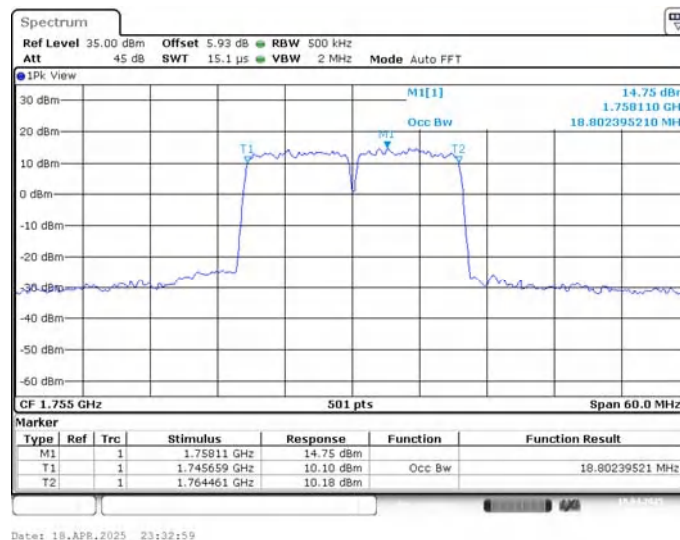
LTE CA band 66B, 10MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	19.042	18.802

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



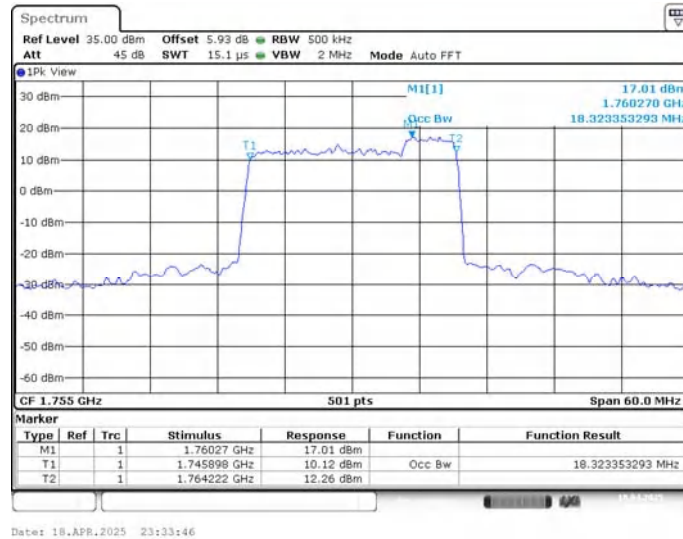
LTE CA band 66B , 10MHz+10MHz Bandwidth,16QAM (99% BW)



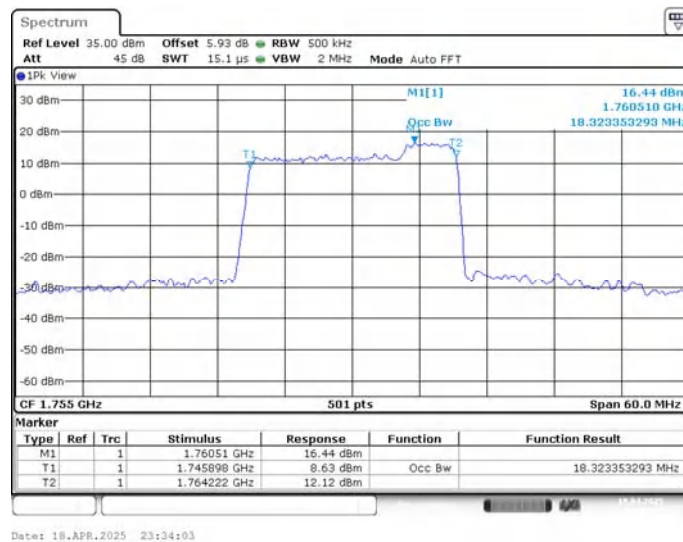
LTE CA band 66B, 15MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	18.323	18.323

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



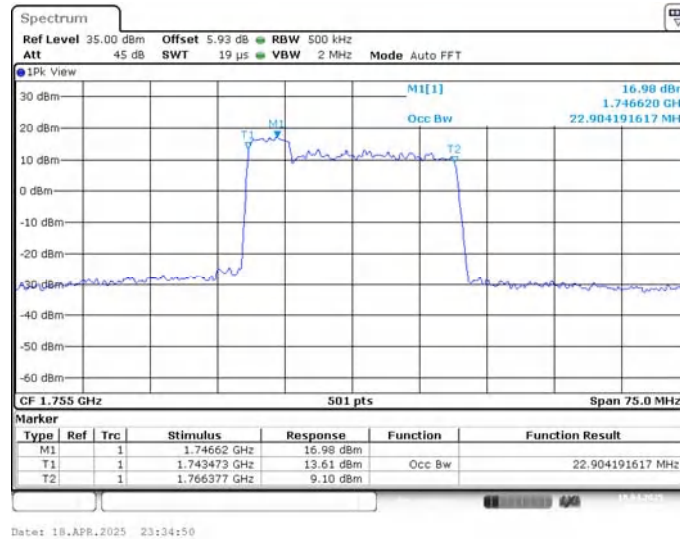
LTE CA band 66B , 15MHz+5MHz Bandwidth,16QAM (99% BW)



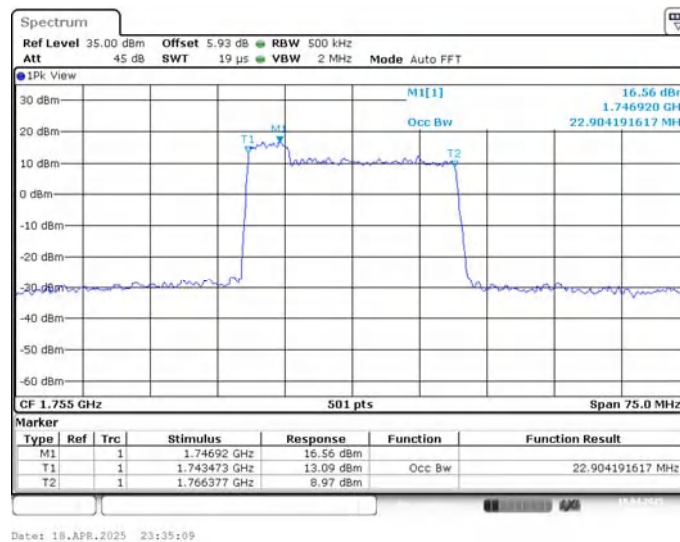
LTE CA band 66C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	22.904	22.904

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



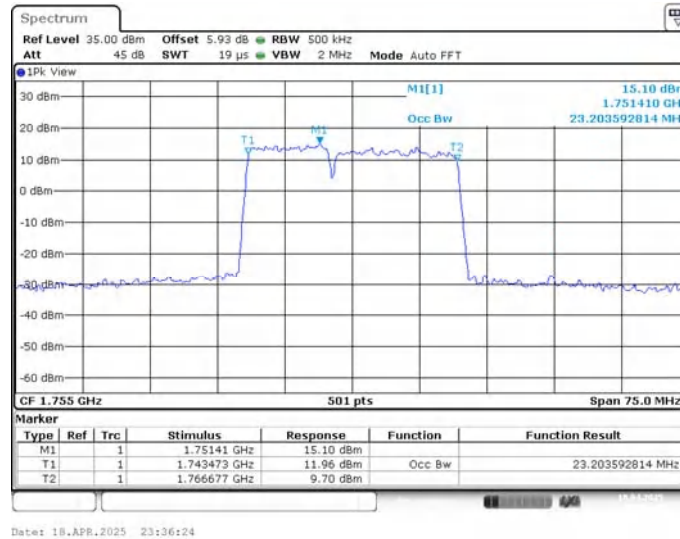
LTE CA band 66C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



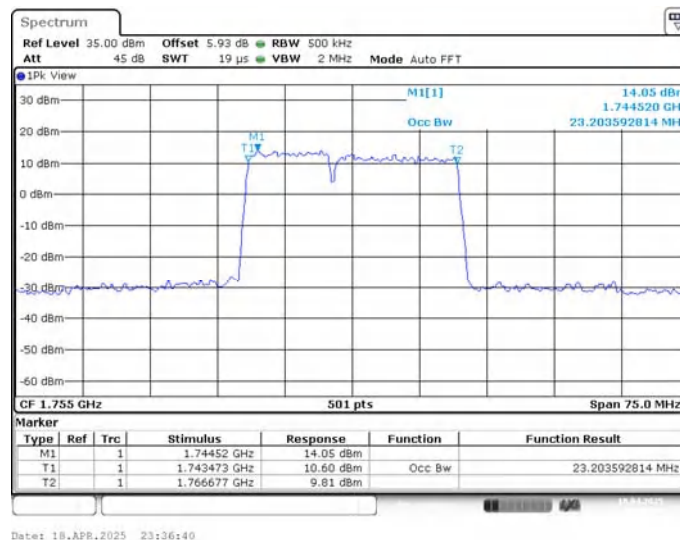
LTE CA band 66C, 10MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.204	23.204

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



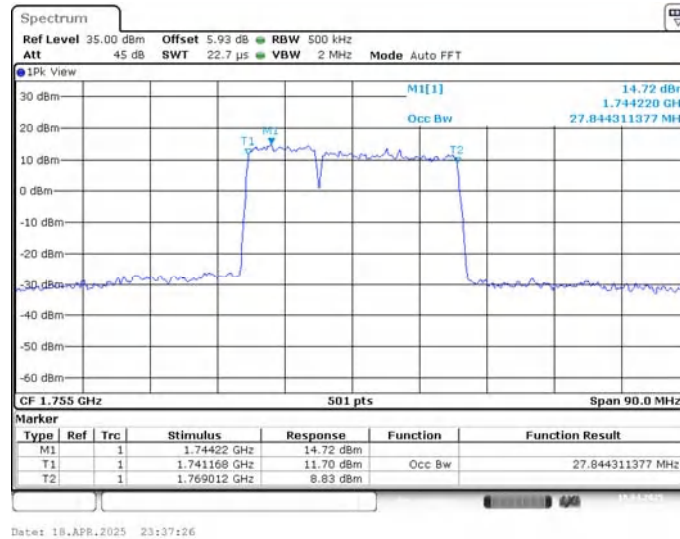
LTE CA band 66C , 10MHz+15MHz Bandwidth,16QAM (99% BW)



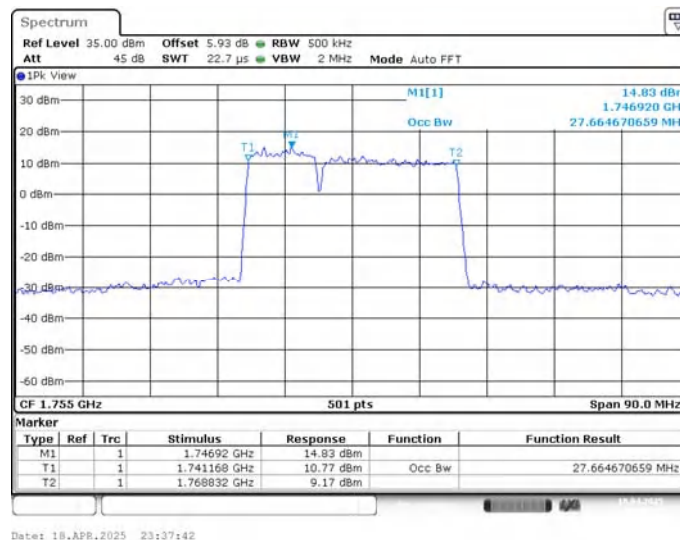
LTE CA band 66C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.844	27.665

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



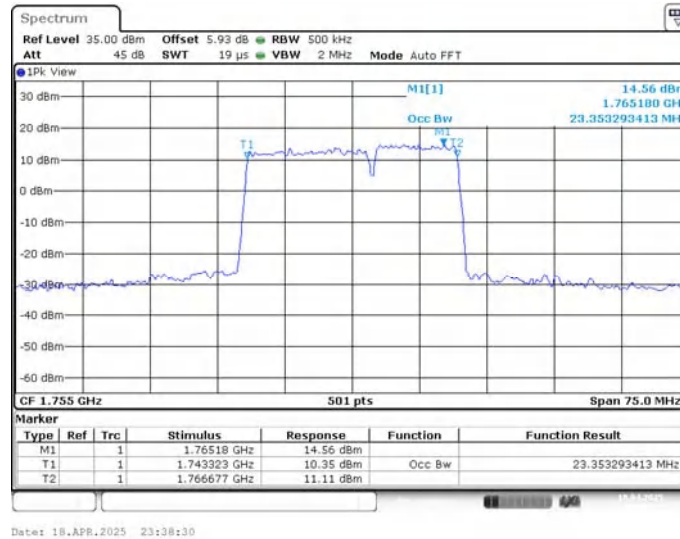
LTE CA band 66C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



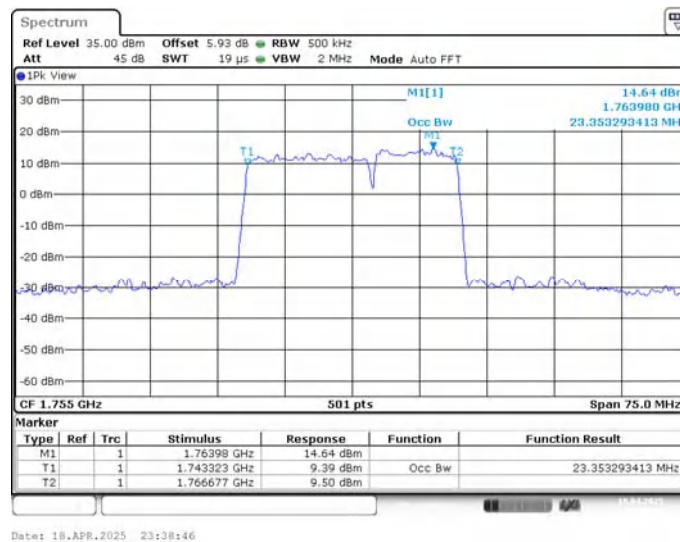
LTE CA band 66C, 15MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.353	23.353

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



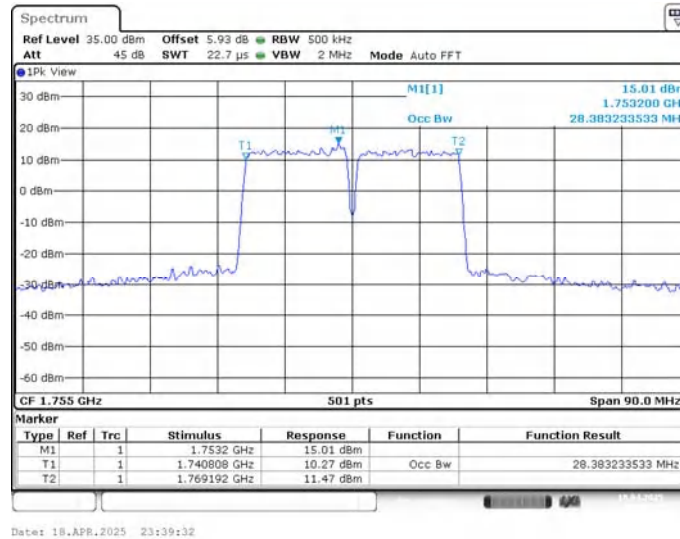
LTE CA band 66C , 15MHz+10MHz Bandwidth,16QAM (99% BW)



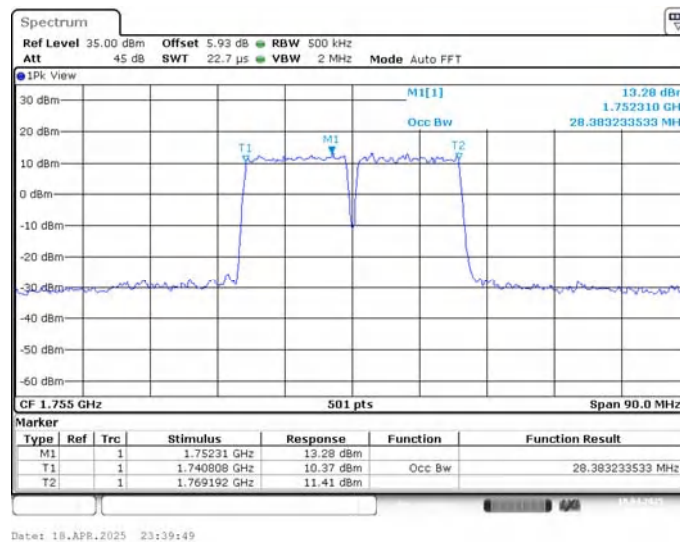
LTE CA band 66C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	28.383	28.383

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



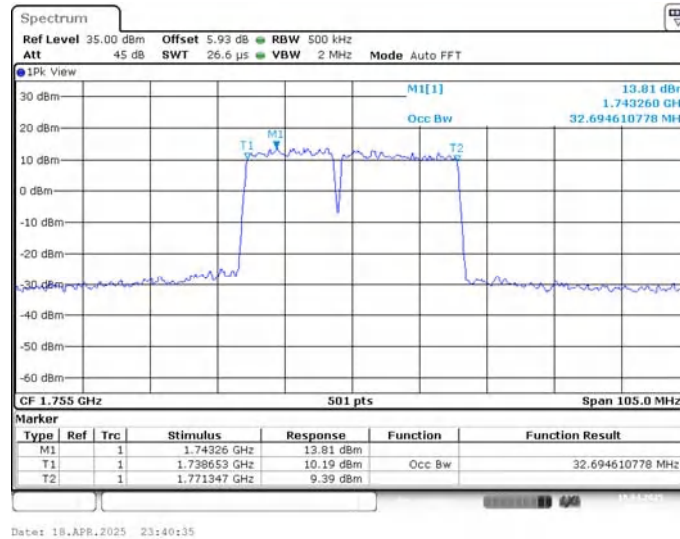
LTE CA band 66C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



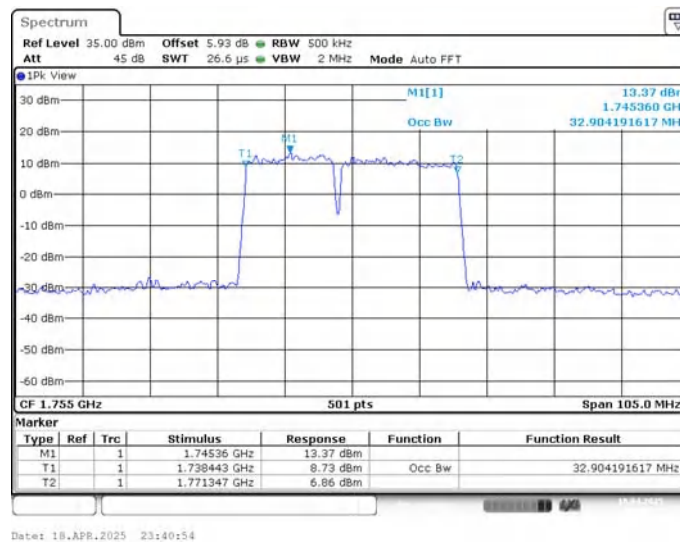
LTE CA band 66C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.695	32.904

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



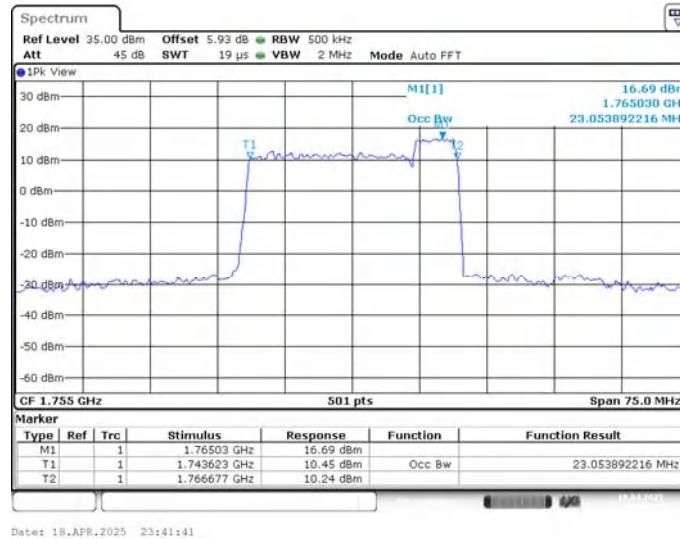
LTE CA band 66C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



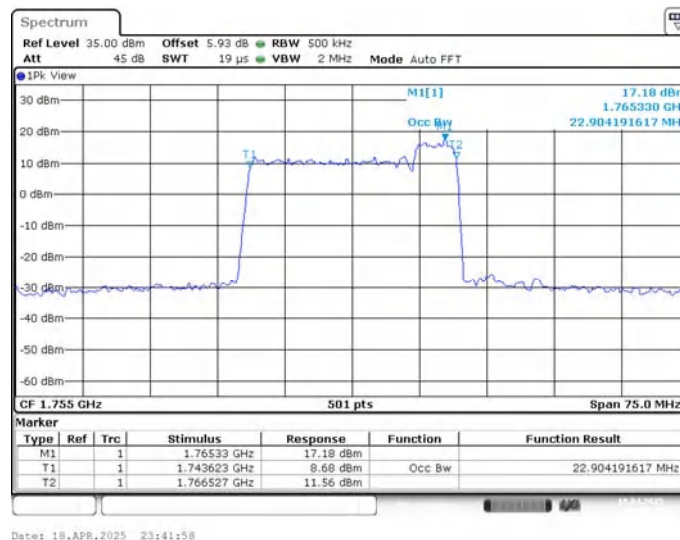
LTE CA band 66C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	23.054	22.904

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



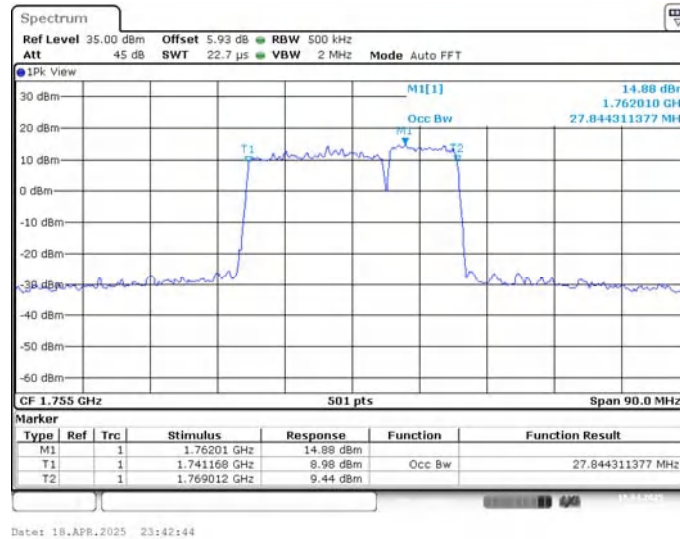
LTE CA band 66C , 20MHz+5MHz Bandwidth,16QAM (99% BW)



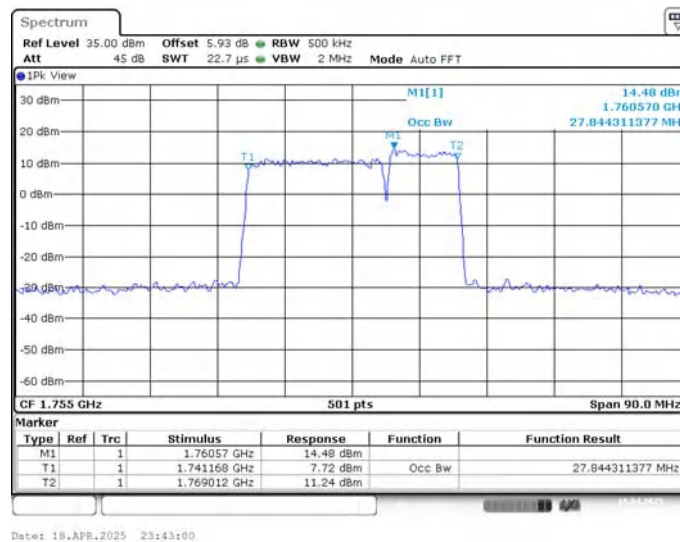
LTE CA band 66C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	27.844	27.844

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



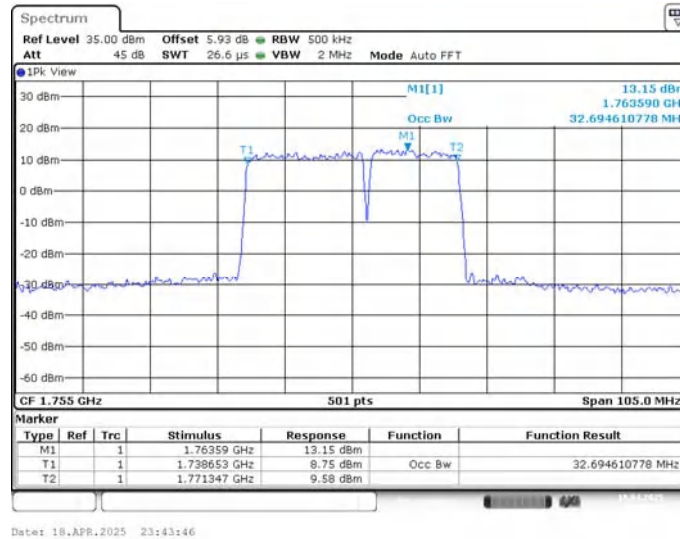
LTE CA band 66C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



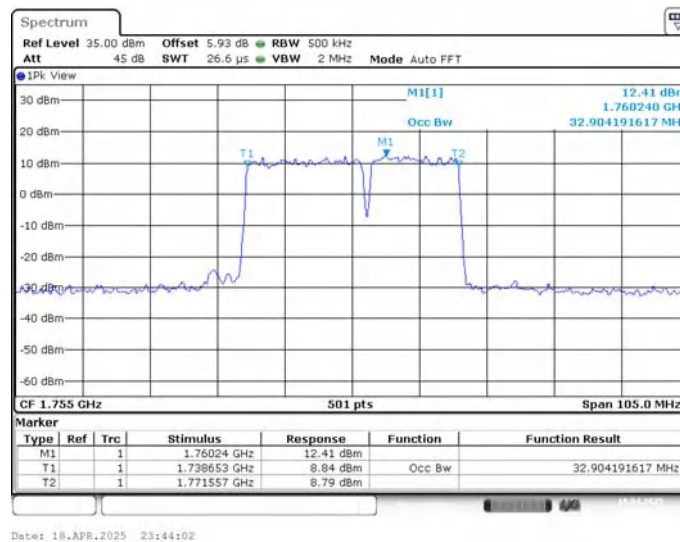
LTE CA band 66C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	32.695	32.904

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



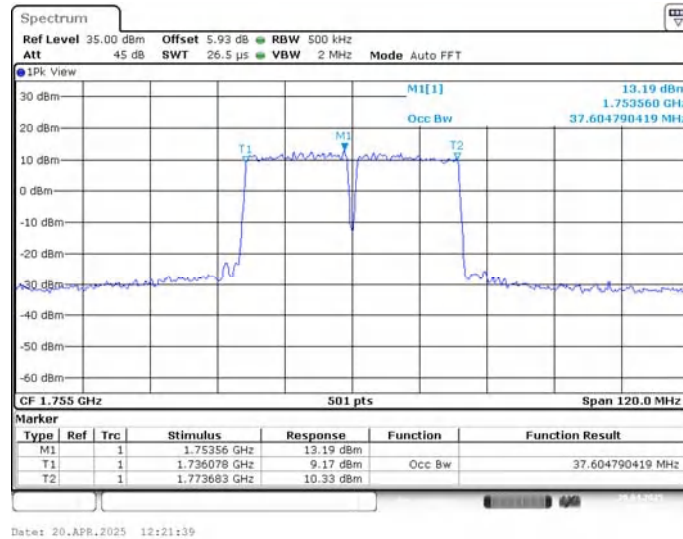
LTE CA band 66C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



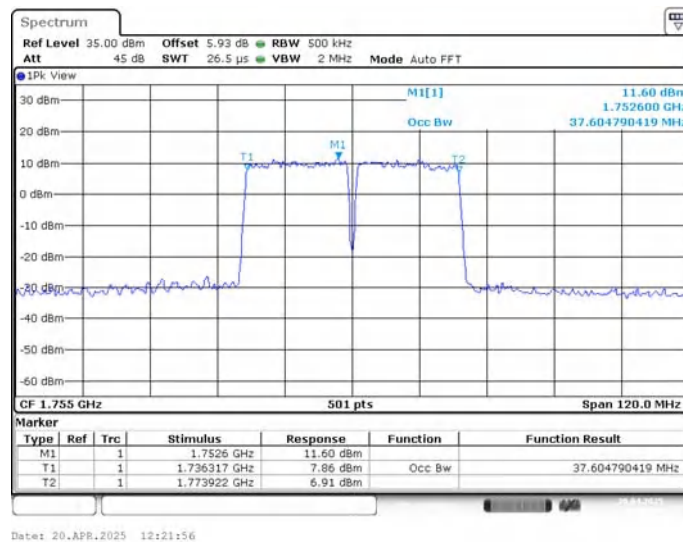
LTE CA band 66C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
1755.0	37.605	37.605

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



LTE CA band 66C , 20MHz+20MHz Bandwidth,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.

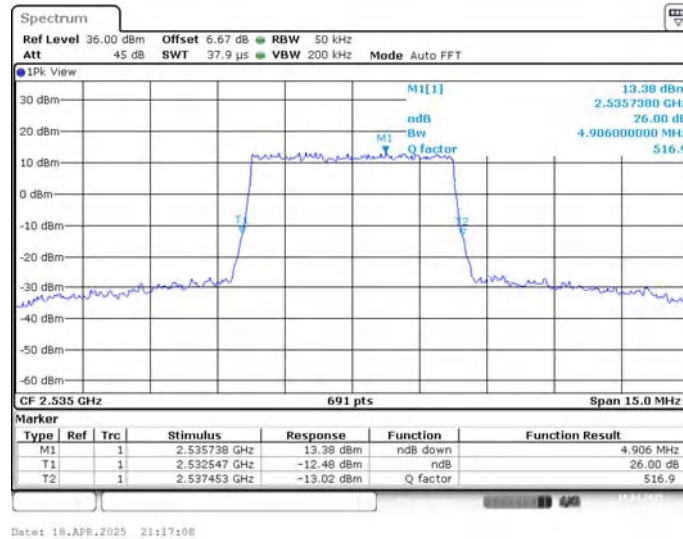
The measurement method is from ANSI C63.26:

- 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 $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

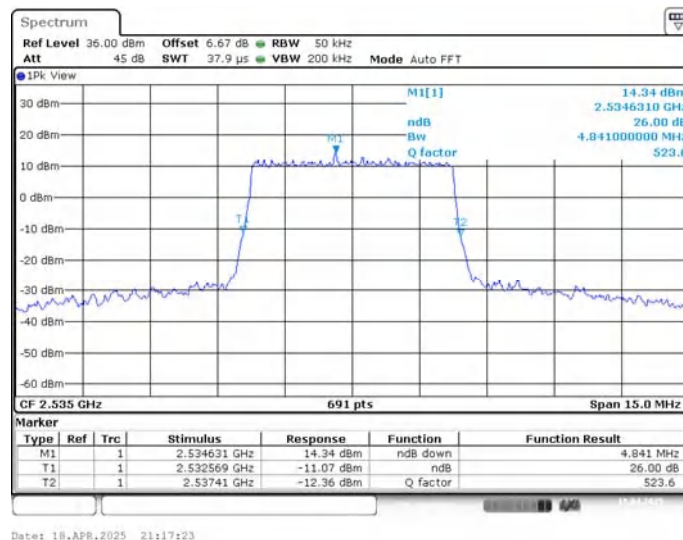
LTE band 7,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	4.906	4.841

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



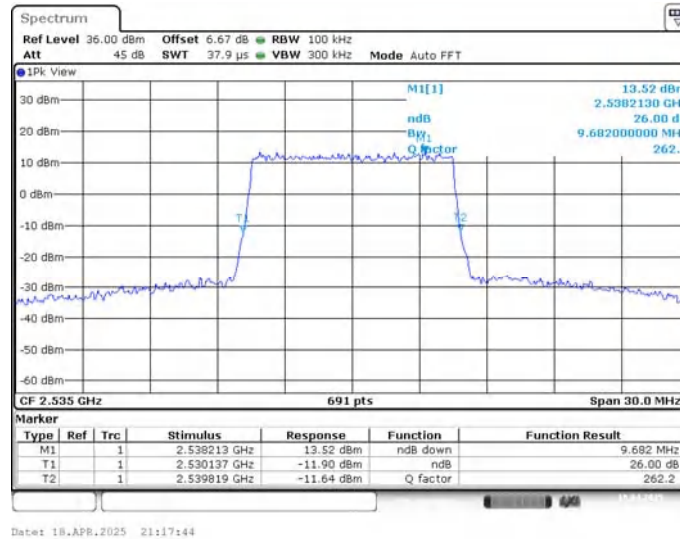
LTE band 7 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



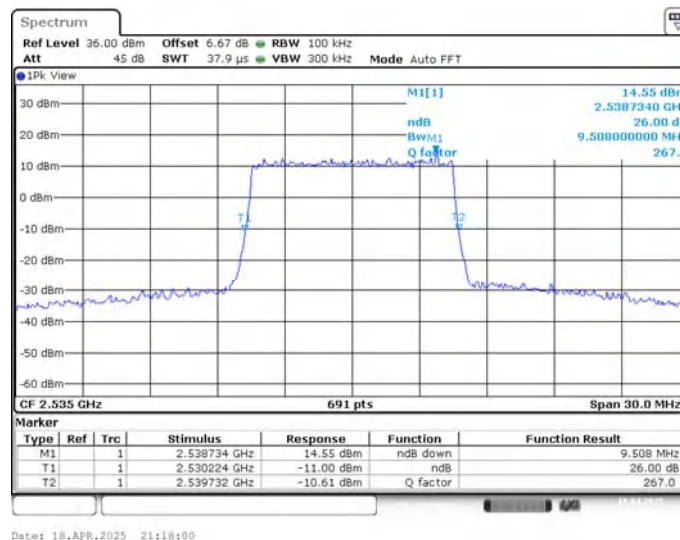
LTE band 7,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	9.682	9.508

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



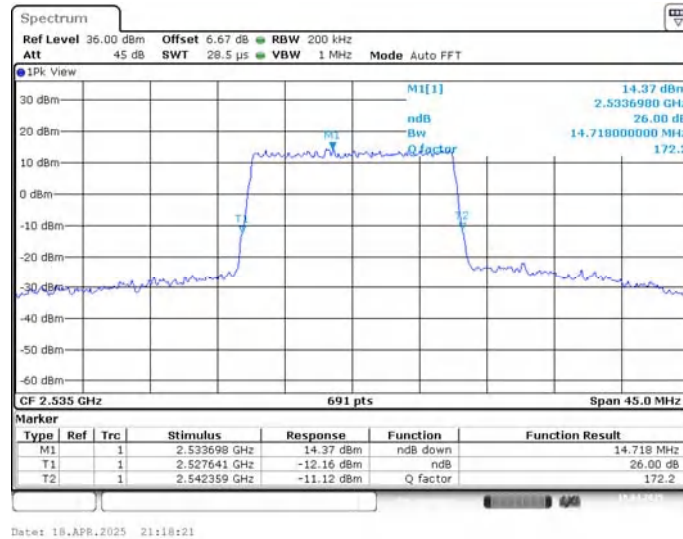
LTE band 7 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



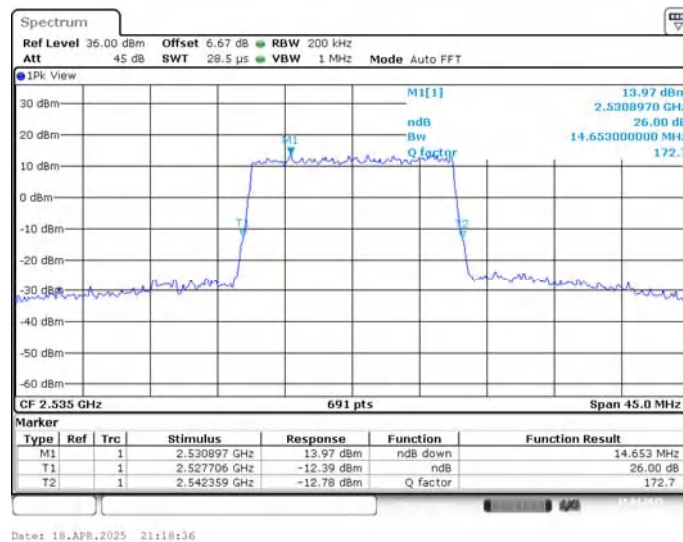
LTE band 7,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	14.718	14.653

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



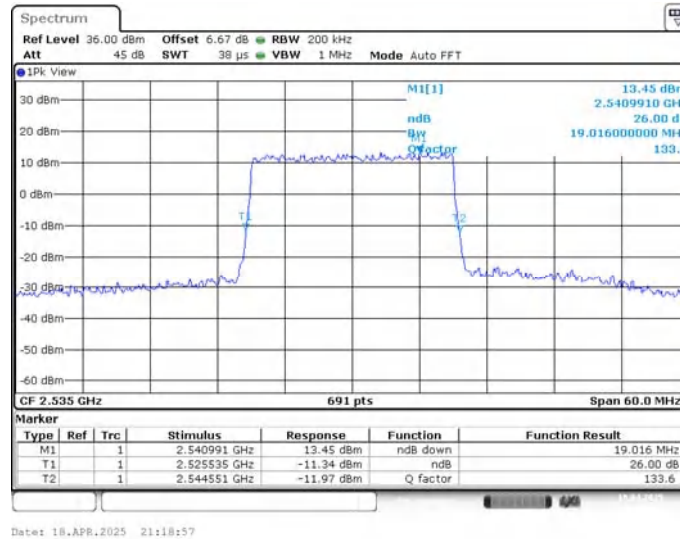
LTE band 7 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



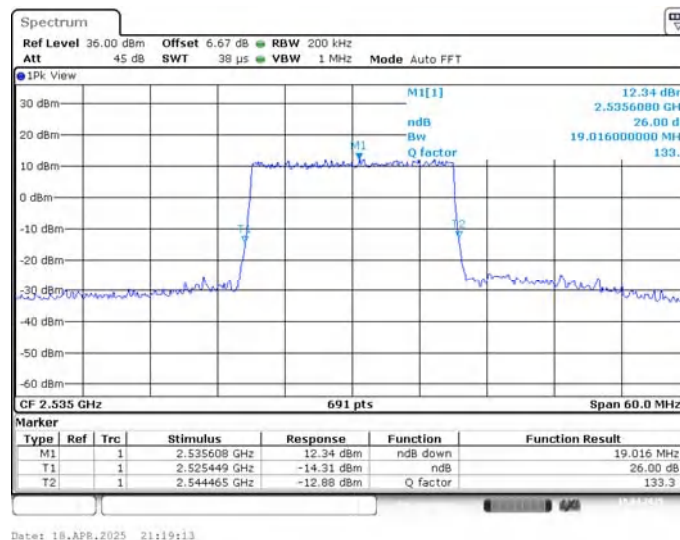
LTE band 7,20MHz(-26dBc)

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

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



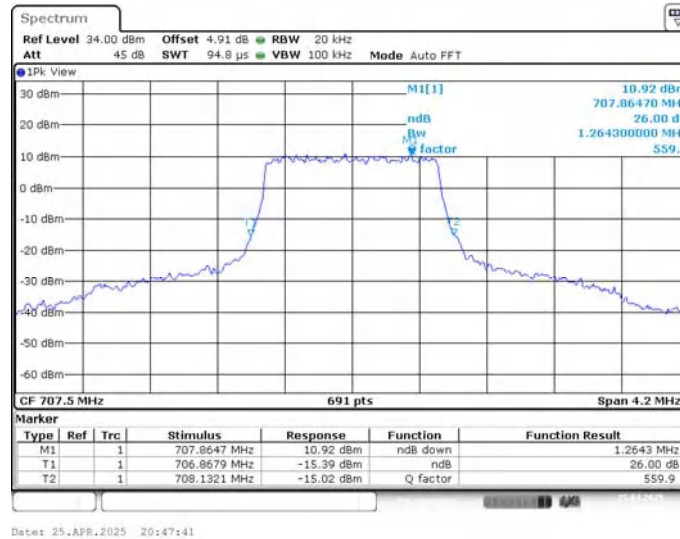
LTE band 7 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



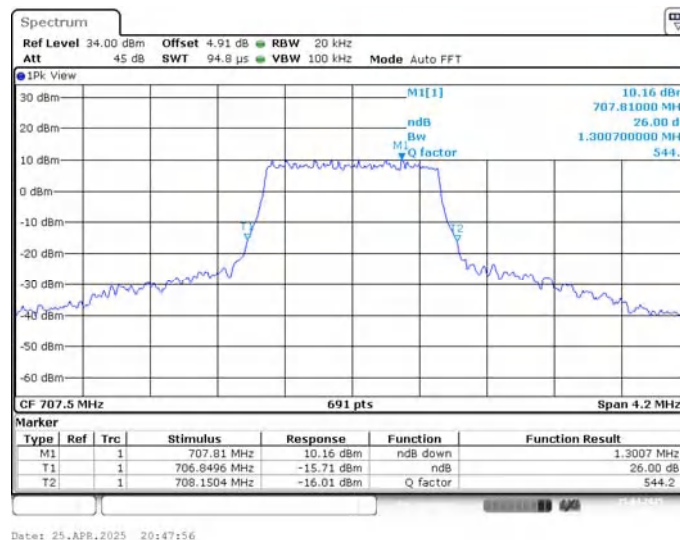
LTE band 12,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	1.264	1.301

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



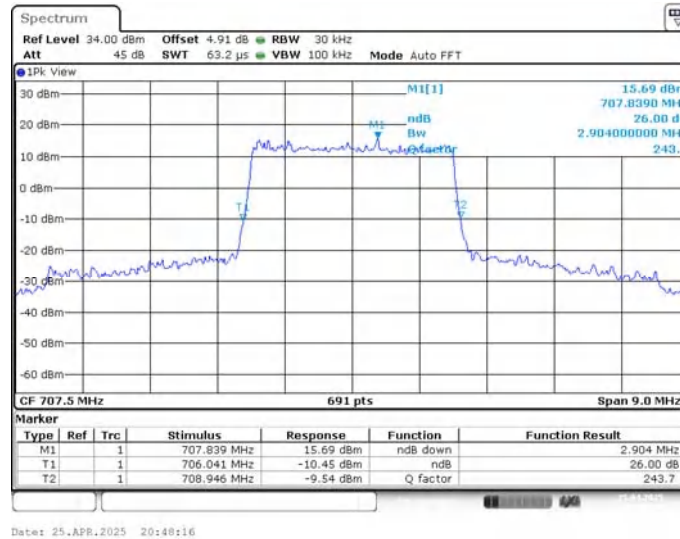
LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



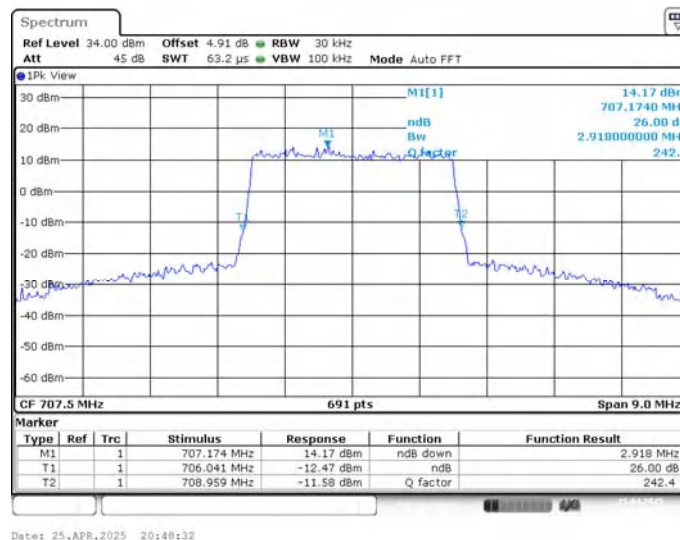
LTE band 12,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	2.904	2.918

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



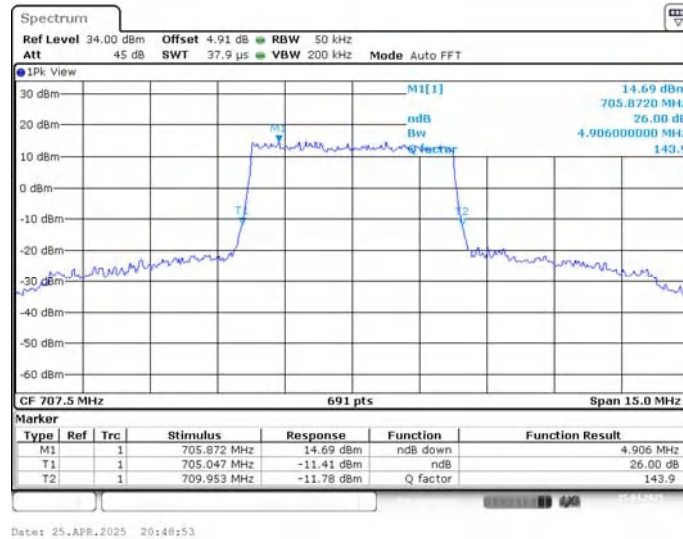
LTE band 12 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



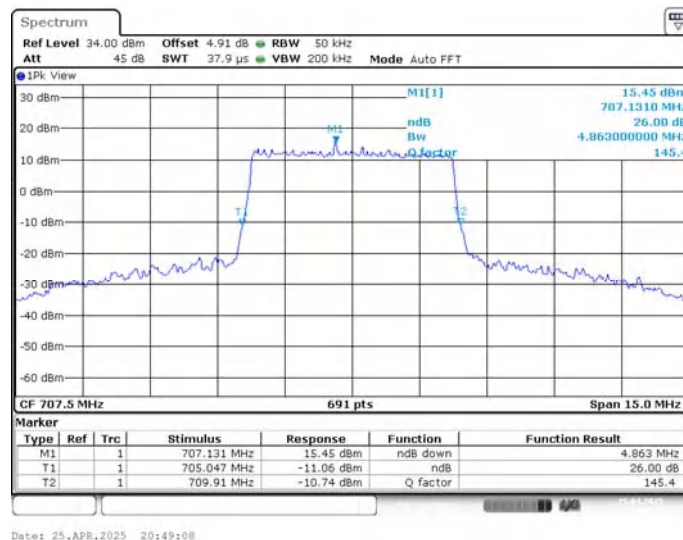
LTE band 12,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	4.906	4.863

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



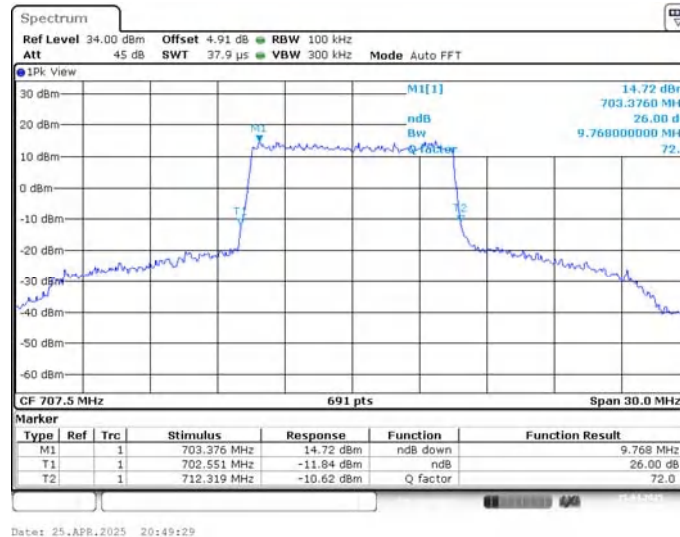
LTE band 12 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



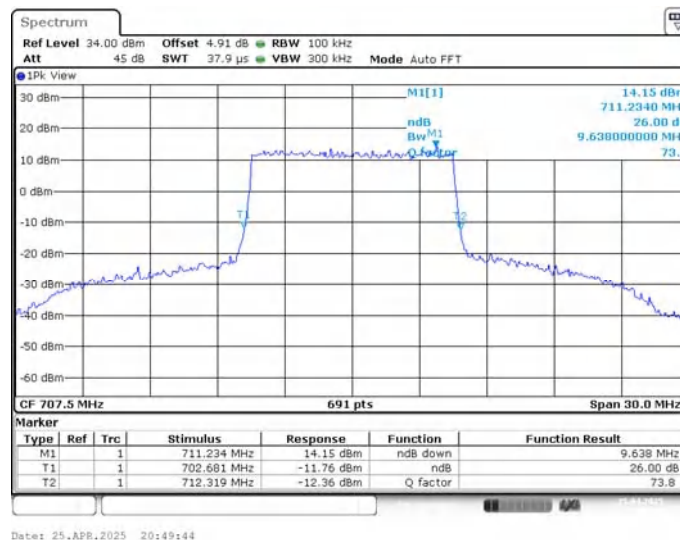
LTE band 12,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	9.768	9.638

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



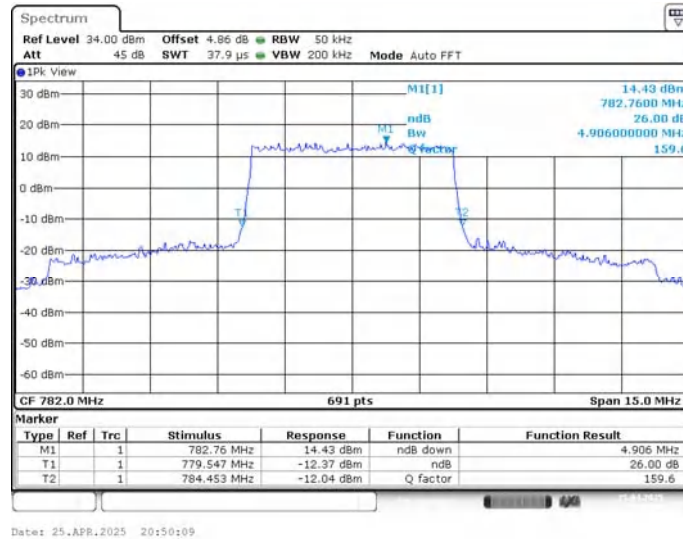
LTE band 12 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



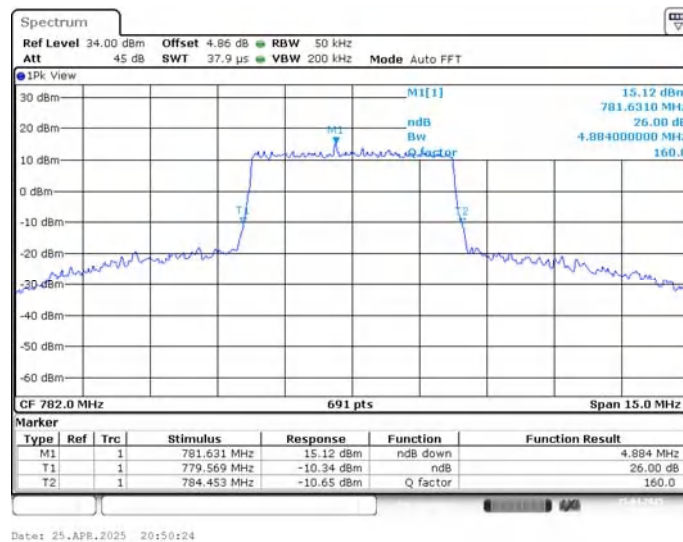
LTE band 13,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
782	4.906	4.884

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



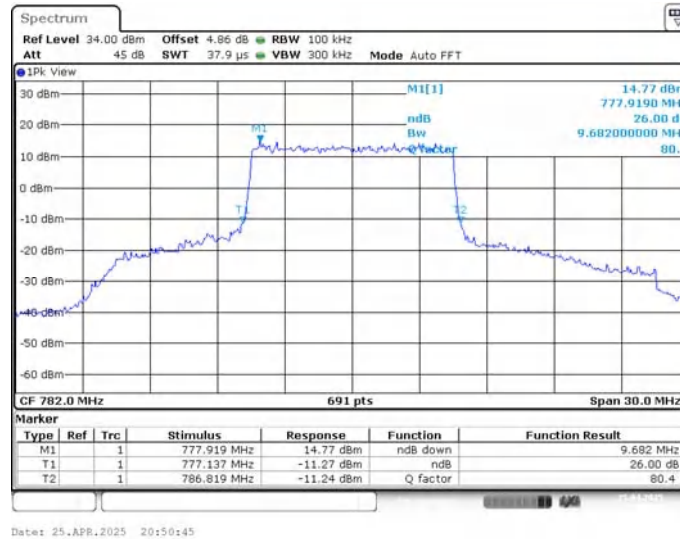
LTE band 13 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



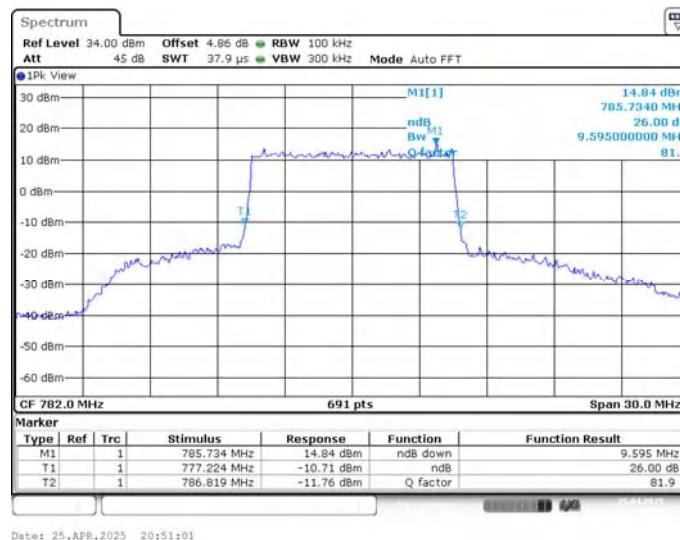
LTE band 13,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
782	9.682	9.595

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



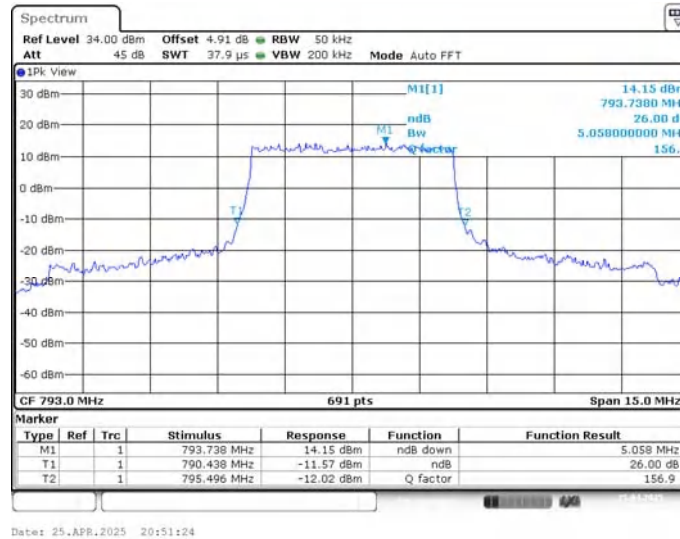
LTE band 13 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 14,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
793	5.058	4.863

LTE band 14 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)



LTE band 14 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)

