



LTE TEST REPORT

No.25T04Z100361-024

for

Luxshare Precision Limited

5G Mobile Phone

Model Name: TMRV085G

FCC ID: 2BNRMTMRV085G

with

Hardware Version: V1.0

Software Version: TMRV085G_0.02.01

Issued Date: 2025-05-20

Note:

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

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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No.25T04Z100361-024

REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100361-024	Rev.0	1 st edition	2025-05-20

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

CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT	4
1.4. PROJECT DATA	4
1.5. SIGNATURE	4
2. CLIENT INFORMATION	5
2.1. APPLICANT INFORMATION	5
2.2. MANUFACTURER INFORMATION	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	6
4. REFERENCE DOCUMENTS	7
4.1. DOCUMENTS SUPPLIED BY APPLICANT	7
4.2. REFERENCE DOCUMENTS FOR TESTING	7
5. SUMMARY OF TEST RESULT	8
6. TEST EQUIPMENT UTILIZED	12
7. MEASUREMENT UNCERTAINTY	13
ANNEX A: MEASUREMENT RESULTS	14
A.1 OUTPUT POWER	14
A.2 EMISSION LIMIT	89
A.3 FREQUENCY STABILITY	109
A.4 OCCUPIED BANDWIDTH	115
A.5 EMISSION BANDWIDTH	167
A.6 BAND EDGE COMPLIANCE	219
A.7 CONDUCTED SPURIOUS EMISSION	295
A.8 PEAK-TO-AVERAGE POWER RATIO	306
ANNEX B: ACCREDITATION CERTIFICATE	308

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℃

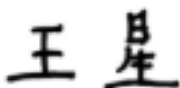
Relative Humidity: 20-75%

1.4. Project Data

Testing Start Date: 2025-02-27

Testing End Date: 2025-05-19

1.5. Signature



Wang Xing

(Prepared this test report)



Zhou Yu

(Reviewed this test report)



Zhao Hui Lin

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: Luxshare Precision Limited
Address /Post: Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim
Sha Tsui, Kowloon.
Contact: Ri Sa
Email: Rui.Sha@luxshare-ict.com
Telephone: +8613917939276
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2.2. Manufacturer Information

Company Name: Luxshare Precision Limited
Address /Post: Suite 1621, 16/F., Ocean Centre, Harbour City, 5 Canton Road, Tsim
Sha Tsui, Kowloon.
Contact: Ri Sa
Email: Rui.Sha@luxshare-ict.com
Telephone: +8613917939276
Fax: /

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

3.1. About EUT

Description	5G Mobile Phone
Model Name	TMRV085G
FCC ID	2BNRMTMRV085G
Antenna	Embedded
Output power	26.69 dBm maximum EIRP measured for LTE B41
Extreme Voltage	3.6VDC to 4.45VDC (nominal: 3.87VDC)
Extreme Temperature	-10°C to +55°C

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT60a	866690080000715/	V1.0	TMRV085G_0.02.01	2025-02-26
	866690080001903			
UT90a	866690080001010/	V1.0	TMRV085G_0.02.01	2025-02-26
	866690080002208			
UT91a	866690080001028/	V1.0	TMRV085G_0.02.01	2025-02-26
	866690080002216			
UT92a	866690080001036/	V1.0	TMRV085G_0.02.01	2025-02-26
	866690080002224			

UT90a, UT91a, UT92a were used for emission limit test and UT60a was used for other testing cases.

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

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE1	
Model	TM002
Manufacturer	Jiade Energy Technology(Zhuhai) Co.,.Ltd.
Capacitance	4900mAh

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

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters are supplied by the 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

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

LTE Band 25 (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 41

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

LTE Band 41 is tested by power class 2.

Explanation of worst-case configuration

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

For all the bands which support multi antenna emission in conducted test, output powers on each antenna are tested, so that the antenna with the maximum output power values are chosen out. Then other conducted test cases are performed on this antenna for each band.

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
Test Receiver	FSV30	101525	R&S	2026-01-15	1 year
EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2025-05-19	1 year
EMI Antenna	9117	167	Schwarzbeck	2026-10-15	3 years
EMI Antenna	LB-7180-NF	J2030013000005	A-INFO	2025-05-16	1 year
EMI Antenna	3115	00146404	ETS-Lindgren	2025-05-16	1 year
Universal Radio Communication Tester	CMW500	143008	R&S	2026-01-15	1 year
Signal Generator	SMF100A	101295	R&S	2026-02-04	1 year
Test Receiver	FSV40	101047	R&S	2025-07-28	1 year
EMI Antenna	LB-180400-25-C-KF	2110084000006	A-INFO	2025-05-15	1 year
EMI Antenna	3116	2663	ETS-Lindgren	2026-03-03	1 year

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

7. Measurement Uncertainty

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

Test item		Measurement uncertainty
Output Power(dB)		1.90
Emission Limit(dB)		3.44
Frequency Stability	FE(ppm)	1.16
	FLFH(kHz)	173.51
Occupied Bandwidth(%)		0.72
Emission Bandwidth(%)		0.75
Band Edge Compliance(dB)		1.94
Conducted Spurious Emission(dB)		4.77(0-20GHz)
		6.27(20-30GHz)
Peak-to-Average Power Ratio(dB)		2.10

Annex A: Measurement Results

A.1 Output Power

A.1.1 Summary

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

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

A.1.2 Conducted

A.1.2.1 Method of Measurements

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

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

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

A.1.2.2 Measurement Result

LTE band 7

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.89	22.60	21.00	17.82
		2535.0	22.68	22.52	21.03	17.73
		2502.5	22.90	22.63	20.99	17.81
	1 RB low	2567.5	22.72	21.90	21.08	17.80
		2535.0	22.83	21.92	20.92	17.67
		2502.5	22.77	22.00	21.06	17.71
	50% RB mid	2567.5	22.73	22.50	21.04	17.69
		2535.0	22.76	22.30	21.02	17.79
		2502.5	22.72	22.38	21.02	17.73
	100% RB	2567.5	22.09	21.01	20.13	17.64
		2535.0	22.10	20.86	19.91	17.80
		2502.5	22.07	20.94	19.99	17.71
10MHz	1 RB high	2565.0	22.89	22.48	21.08	17.64
		2535.0	22.85	22.31	20.96	17.81
		2505.0	22.80	22.65	20.97	17.64
	1 RB low	2565.0	22.92	22.02	20.99	17.66
		2535.0	22.91	21.97	21.03	17.76
		2505.0	22.68	22.12	21.07	17.65
	50% RB mid	2565.0	21.94	20.95	19.96	17.82
		2535.0	22.06	20.91	20.05	17.76
		2505.0	21.95	21.01	19.94	17.77
		2505.0	21.95	21.01	19.94	17.77

	100% RB	2565.0	21.95	21.05	19.95	17.73
		2535.0	21.96	21.01	20.01	17.81
		2505.0	22.12	20.93	20.12	17.67
15MHz	1 RB high	2562.5	22.87	22.54	20.94	17.63
		2535.0	22.79	22.56	20.98	17.73
		2507.5	22.71	22.00	21.01	17.65
	1 RB low	2562.5	22.74	22.10	21.03	17.72
		2535.0	22.68	22.31	20.99	17.69
		2507.5	22.78	21.93	21.06	17.77
	50% RB mid	2562.5	22.01	20.96	20.03	17.62
		2535.0	22.09	20.91	19.98	17.62
		2507.5	21.91	20.97	20.02	17.75
	100% RB	2562.5	22.01	20.96	19.91	17.78
		2535.0	22.00	21.05	20.07	17.77
		2507.5	22.01	20.92	19.96	17.77
20MHz	1 RB high	2560.0	22.69	22.51	20.99	17.63
		2535.0	22.67	22.63	20.96	17.76
		2510.0	22.92	22.15	20.93	17.73
	1 RB low	2560.0	22.72	22.64	21.03	17.64
		2535.0	22.85	22.37	21.07	17.70
		2510.0	22.86	22.06	20.89	17.68
	50% RB mid	2560.0	21.89	20.86	19.77	17.82
		2535.0	22.03	20.87	19.90	17.71
		2510.0	21.99	21.04	20.04	17.69
	100% RB	2560.0	21.72	20.86	19.84	17.67
		2535.0	22.01	20.86	20.13	17.72
		2510.0	21.95	20.95	19.95	17.74

LTE band 12-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.99	23.52	22.13	19.50
		707.5	23.92	23.34	22.23	19.26
		699.7	23.99	23.79	22.09	19.27
	1 RB low	715.3	23.99	23.46	22.17	19.40
		707.5	23.96	23.25	22.33	19.47
		699.7	24.01	23.73	22.23	19.34
	50% RB mid	715.3	24.01	23.08	22.14	19.30
		707.5	24.09	23.12	22.11	19.52
		699.7	24.15	23.16	22.17	19.43
	100% RB	715.3	23.01	22.11	21.08	19.43
		707.5	23.04	22.02	21.11	19.32
		699.7	23.16	22.17	21.11	19.51
3MHz	1 RB high	714.5	23.92	23.30	21.93	19.33
		707.5	23.95	23.36	22.27	19.48
		700.5	23.95	23.29	22.13	19.45
	1 RB low	714.5	23.97	23.62	22.07	19.30
		707.5	23.94	23.41	22.12	19.35
		700.5	24.00	23.46	22.28	19.47
	50% RB mid	714.5	23.05	22.13	21.00	19.49
		707.5	23.14	22.14	21.11	19.26
		700.5	23.16	22.19	21.21	19.38
	100% RB	714.5	23.01	22.04	21.04	19.23
		707.5	23.04	21.99	21.05	19.26
		700.5	23.09	22.15	21.13	19.35
5MHz	1 RB high	713.5	23.98	23.29	22.14	19.44
		707.5	24.05	23.39	22.12	19.36
		701.5	24.03	23.34	22.07	19.39
	1 RB low	713.5	24.02	23.49	22.13	19.28
		707.5	23.99	23.40	22.19	19.49
		701.5	24.05	23.50	22.06	19.24
	50% RB mid	713.5	23.12	22.10	21.12	19.54
		707.5	23.06	22.11	21.09	19.41
		701.5	23.14	22.15	21.15	19.41
	100% RB	713.5	23.09	22.16	21.09	19.30
		707.5	23.00	22.00	21.02	19.39
		701.5	23.11	22.09	21.04	19.43
10MHz	1 RB high	711.0	23.94	23.52	21.93	19.31
		707.5	24.01	23.28	21.94	19.31
		704.0	23.88	23.36	22.16	19.47
	1 RB low	711.0	24.08	23.60	22.16	19.37

		707.5	24.05	23.36	22.42	19.29
		704.0	24.13	23.25	22.16	19.35
	50% RB mid	711.0	23.04	22.08	21.07	19.30
		707.5	23.10	22.09	21.17	19.31
		704.0	23.18	22.14	21.15	19.30
	100% RB	711.0	23.03	21.96	21.02	19.48
		707.5	23.03	22.05	20.97	19.50
		704.0	23.18	22.12	21.05	19.23

LTE band 12-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.80	23.12	22.16	19.75
		707.5	23.87	23.28	21.94	19.54
		699.7	23.93	23.22	22.11	19.71
	1 RB low	715.3	23.84	23.23	21.97	19.71
		707.5	23.87	23.15	21.95	19.75
		699.7	23.97	23.20	22.00	19.56
	50% RB mid	715.3	23.86	22.99	21.85	19.77
		707.5	23.90	23.06	22.00	19.62
		699.7	23.91	23.06	22.04	19.60
	100% RB	715.3	22.94	21.96	20.84	19.68
		707.5	22.87	21.90	20.87	19.56
		699.7	22.91	22.06	20.94	19.63
3MHz	1 RB high	714.5	23.88	23.14	21.89	19.65
		707.5	23.82	23.19	21.93	19.80
		700.5	23.89	23.17	22.03	19.68
	1 RB low	714.5	23.87	23.28	21.95	19.71
		707.5	23.79	23.15	21.95	19.70
		700.5	23.91	23.09	22.17	19.79
	50% RB mid	714.5	22.95	22.09	20.99	19.77
		707.5	23.02	22.05	21.05	19.61
		700.5	23.03	22.07	21.04	19.67
	100% RB	714.5	22.90	21.91	20.90	19.77
		707.5	23.01	21.89	20.88	19.67
		700.5	23.05	22.07	21.00	19.64
5MHz	1 RB high	713.5	23.86	23.06	21.82	19.59
		707.5	23.85	23.43	21.97	19.55
		701.5	23.80	23.22	21.92	19.80
	1 RB low	713.5	23.87	23.47	22.12	19.69
		707.5	23.87	23.25	22.03	19.77
		701.5	23.94	23.14	21.97	19.61
	50% RB mid	713.5	23.02	21.99	20.99	19.77
		707.5	22.95	21.95	20.98	19.59
		701.5	23.01	22.03	21.07	19.80
	100% RB	713.5	22.90	21.99	20.99	19.56
		707.5	22.93	21.97	20.85	19.68
		701.5	22.99	22.02	21.02	19.62
10MHz	1 RB high	711.0	23.91	23.30	21.85	19.63
		707.5	23.98	23.25	21.92	19.56
		704.0	23.89	23.30	22.09	19.65
	1 RB low	711.0	23.91	23.22	22.26	19.74

		707.5	23.97	23.26	22.01	19.63
		704.0	23.98	23.45	22.16	19.78
	50% RB mid	711.0	22.93	21.98	21.02	19.54
		707.5	23.01	21.94	20.98	19.61
		704.0	23.07	22.08	20.97	19.71
	100% RB	711.0	22.91	21.93	20.90	19.83
		707.5	22.93	21.97	20.90	19.82
		704.0	22.98	21.99	21.01	19.66

LTE band 25-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.92	23.45	22.09	18.89
		1882.5	24.12	23.61	22.19	18.82
		1850.7	24.03	23.42	22.06	18.89
	1 RB low	1914.3	23.96	23.32	22.05	18.81
		1882.5	24.02	23.56	22.21	18.90
		1850.7	24.07	23.32	22.19	18.94
	50% RB mid	1914.3	24.02	23.19	22.11	18.93
		1882.5	24.18	23.29	22.26	18.86
		1850.7	24.22	23.27	22.33	18.83
	100% RB	1914.3	23.07	22.18	21.09	18.83
		1882.5	23.18	22.19	21.24	18.97
		1850.7	23.19	22.20	21.09	18.92
3MHz	1 RB high	1913.5	23.98	23.03	22.14	18.92
		1882.5	23.93	23.09	21.97	18.90
		1851.5	23.96	23.03	22.01	18.86
	1 RB low	1913.5	23.89	23.14	22.05	18.97
		1882.5	23.96	23.30	22.11	18.90
		1851.5	23.97	23.15	22.11	18.95
	50% RB mid	1913.5	22.96	22.04	20.91	18.90
		1882.5	23.06	22.08	21.04	18.95
		1851.5	22.96	21.96	21.10	18.86
	100% RB	1913.5	22.96	22.12	21.09	18.81
		1882.5	23.01	21.97	21.04	18.84
		1851.5	22.97	22.12	21.04	18.92
5MHz	1 RB high	1912.5	23.99	23.05	22.04	18.82
		1882.5	23.90	23.11	22.09	18.84
		1852.5	23.89	22.98	21.96	18.81
	1 RB low	1912.5	23.85	23.26	22.04	18.87
		1882.5	23.89	23.00	21.97	18.93
		1852.5	23.87	23.09	21.99	18.81
	50% RB mid	1912.5	22.96	22.11	21.04	18.84
		1882.5	23.08	22.11	21.07	18.96
		1852.5	23.05	22.00	20.94	18.94
	100% RB	1912.5	23.00	22.11	21.08	18.88
		1882.5	22.97	22.05	21.11	18.86
		1852.5	23.00	21.95	20.99	18.84
10MHz	1 RB high	1910.0	23.90	23.15	22.14	18.81
		1882.5	23.96	23.29	22.06	18.97
		1855.0	23.92	23.27	21.96	18.82
	1 RB low	1910.0	23.89	23.14	22.10	18.87

		1882.5	23.88	23.28	22.15	18.83
		1855.0	23.85	23.14	22.04	18.91
	50% RB mid	1910.0	23.04	22.11	21.10	18.81
		1882.5	23.06	22.08	20.96	18.86
		1855.0	23.07	22.08	21.10	18.88
	100% RB	1910.0	22.96	21.96	20.95	18.97
		1882.5	23.07	22.08	20.95	18.82
		1855.0	23.04	22.08	21.10	18.83
15MHz	1 RB high	1907.5	23.93	23.25	21.94	18.89
		1882.5	23.91	23.25	22.01	18.97
		1857.5	23.96	23.06	22.00	18.94
	1 RB low	1907.5	23.98	23.00	22.06	18.93
		1882.5	23.90	23.18	22.00	18.86
		1857.5	23.94	23.21	22.11	18.86
	50% RB mid	1907.5	22.97	21.96	20.94	18.88
		1882.5	23.03	21.95	21.03	18.94
		1857.5	22.98	22.06	21.10	18.87
	100% RB	1907.5	23.03	21.93	20.90	18.86
		1882.5	23.00	22.10	21.11	18.86
		1857.5	23.03	22.04	20.94	18.81
20MHz	1 RB high	1905.0	23.86	23.18	21.94	18.88
		1882.5	23.90	22.99	21.98	18.96
		1860.0	23.93	23.22	22.23	18.97
	1 RB low	1905.0	23.94	23.35	22.21	18.96
		1882.5	23.91	23.17	22.01	18.84
		1860.0	23.85	23.29	22.15	18.84
	50% RB mid	1905.0	22.99	22.06	21.06	18.91
		1882.5	22.99	22.02	20.97	18.88
		1860.0	23.07	22.11	21.08	18.95
	100% RB	1905.0	22.98	22.00	20.93	18.86
		1882.5	23.01	22.02	21.00	18.82
		1860.0	23.08	22.13	21.11	18.89

LTE band 25-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.86	23.46	22.04	19.63
		1882.5	23.93	23.42	22.05	19.81
		1850.7	24.01	23.18	22.05	19.71
	1 RB low	1914.3	23.86	23.25	22.08	19.65
		1882.5	23.93	23.37	22.01	19.64
		1850.7	23.96	23.40	21.95	19.63
	50% RB mid	1914.3	24.02	22.94	21.90	19.58
		1882.5	24.02	23.19	21.97	19.73
		1850.7	24.00	23.05	22.03	19.58
	100% RB	1914.3	22.97	22.00	21.02	19.58
		1882.5	23.00	22.06	20.97	19.74
		1850.7	22.99	22.02	20.99	19.67
3MHz	1 RB high	1913.5	23.86	23.30	22.02	19.57
		1882.5	23.88	23.35	22.12	19.66
		1851.5	23.83	23.39	21.99	19.65
	1 RB low	1913.5	23.84	23.13	22.04	19.65
		1882.5	23.90	23.16	22.10	19.61
		1851.5	23.89	23.29	22.05	19.61
	50% RB mid	1913.5	22.97	22.13	21.06	19.79
		1882.5	23.03	22.10	21.14	19.80
		1851.5	23.02	22.16	21.09	19.82
	100% RB	1913.5	23.05	22.02	21.06	19.76
		1882.5	23.01	22.08	21.04	19.73
		1851.5	23.13	22.07	21.09	19.58
5MHz	1 RB high	1912.5	23.96	23.31	22.05	19.56
		1882.5	24.01	23.37	22.04	19.83
		1852.5	23.95	23.39	21.99	19.59
	1 RB low	1912.5	23.86	23.37	21.96	19.71
		1882.5	23.94	23.21	22.12	19.57
		1852.5	23.89	23.23	22.15	19.80
	50% RB mid	1912.5	23.04	22.03	21.05	19.83
		1882.5	23.09	22.14	21.11	19.78
		1852.5	23.14	22.11	21.09	19.80
	100% RB	1912.5	23.01	22.06	21.00	19.78
		1882.5	22.97	22.04	20.99	19.75
		1852.5	23.02	22.07	21.05	19.58
10MHz	1 RB high	1910.0	24.02	23.33	22.14	19.59
		1882.5	23.94	23.31	22.23	19.69
		1855.0	23.92	23.27	22.12	19.74
	1 RB low	1910.0	23.90	23.29	21.98	19.63

		1882.5	24.07	23.13	22.21	19.59
		1855.0	23.93	23.36	22.02	19.58
	50% RB mid	1910.0	23.15	22.03	21.07	19.83
		1882.5	23.09	22.03	21.06	19.55
		1855.0	23.02	22.06	21.06	19.70
	100% RB	1910.0	23.04	22.07	20.99	19.60
		1882.5	22.94	21.97	20.96	19.77
		1855.0	23.06	22.07	21.03	19.64
15MHz	1 RB high	1907.5	23.69	23.03	21.86	19.60
		1882.5	23.91	22.95	21.87	19.65
		1857.5	23.82	23.01	22.23	19.56
	1 RB low	1907.5	23.94	23.18	22.23	19.83
		1882.5	23.77	23.01	21.95	19.54
		1857.5	23.76	22.87	21.84	19.68
	50% RB mid	1907.5	22.94	21.89	20.93	19.55
		1882.5	22.93	21.88	20.99	19.70
		1857.5	22.88	21.93	20.97	19.80
	100% RB	1907.5	22.89	21.93	20.97	19.70
		1882.5	22.87	21.78	20.90	19.54
		1857.5	22.92	21.97	20.88	19.75
20MHz	1 RB high	1905.0	23.74	23.08	21.83	19.72
		1882.5	23.89	23.16	22.04	19.65
		1860.0	23.78	23.42	22.10	19.55
	1 RB low	1905.0	23.82	23.11	21.91	19.68
		1882.5	23.86	23.53	21.87	19.55
		1860.0	23.76	23.01	21.99	19.77
	50% RB mid	1905.0	22.98	22.01	20.93	19.59
		1882.5	22.85	21.92	20.88	19.59
		1860.0	22.92	22.00	20.98	19.76
	100% RB	1905.0	22.96	21.82	20.93	19.62
		1882.5	22.91	21.87	20.85	19.56
		1860.0	22.90	21.97	20.97	19.73

LTE band 26_Part90-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.96	23.04	22.27	19.24
		819.0	23.91	22.98	22.24	19.16
		814.7	24.03	23.07	22.22	19.25
	1 RB low	823.3	23.91	22.94	22.19	19.13
		819.0	23.92	23.07	22.13	19.10
		814.7	24.03	23.12	22.21	19.27
	50% RB mid	823.3	23.94	23.07	22.07	19.14
		819.0	23.90	23.06	22.07	19.09
		814.7	23.98	23.06	22.14	19.26
	100% RB	823.3	22.96	21.99	21.02	19.07
		819.0	22.96	21.99	21.12	18.98
		814.7	23.04	22.04	21.07	19.08
3MHz	1 RB high	822.5	23.83	22.95	22.26	19.20
		819.0	23.91	23.00	22.21	19.18
		815.5	23.98	23.05	22.20	19.12
	1 RB low	822.5	23.83	23.02	22.10	19.06
		819.0	23.93	23.03	22.07	19.10
		815.5	24.04	23.10	22.02	19.20
	50% RB mid	822.5	22.93	22.02	21.14	19.14
		819.0	22.94	22.01	21.09	19.13
		815.5	22.96	22.04	21.15	19.17
	100% RB	822.5	22.97	21.95	21.08	19.11
		819.0	22.93	21.91	21.07	19.04
		815.5	22.94	21.95	21.09	19.16
5MHz	1 RB high	821.5	23.94	23.12	22.11	19.21
		819.0	23.96	23.05	22.11	19.26
		816.5	23.93	23.13	22.23	19.24
	1 RB low	821.5	23.91	23.07	22.37	19.15
		819.0	23.95	23.10	22.19	19.32
		816.5	24.04	23.08	22.34	19.34
	50% RB mid	821.5	22.98	22.04	21.13	19.16
		819.0	22.97	22.06	21.12	19.18
		816.5	22.99	22.02	21.19	19.19
	100% RB	821.5	22.96	21.98	21.14	19.16
		819.0	22.96	21.99	21.11	19.17
		816.5	22.98	22.00	21.12	19.17
10MHz	1 RB high	819.0	23.96	23.06	22.33	19.33
	1 RB low	819.0	24.09	23.11	22.19	19.30
	50% RB mid	819.0	23.01	22.04	21.15	19.18
	100% RB	819.0	23.02	22.02	21.20	19.22

LTE band 26_Part90-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	823.3	23.68	22.80	21.90	18.79
		819.0	23.65	22.78	21.80	18.79
		814.7	23.74	22.76	21.77	18.85
	1 RB low	823.3	23.61	22.73	21.74	18.79
		819.0	23.63	22.83	21.67	18.70
		814.7	23.74	22.82	21.77	18.80
	50% RB mid	823.3	23.65	22.83	21.68	18.68
		819.0	23.65	22.80	21.79	18.74
		814.7	23.68	22.79	21.74	18.82
	100% RB	823.3	22.68	21.77	20.67	18.70
		819.0	22.66	21.71	20.78	18.71
		814.7	22.78	21.78	20.76	18.69
3MHz	1 RB high	822.5	23.66	22.78	21.81	18.83
		819.0	23.63	22.74	21.82	18.73
		815.5	23.72	22.75	21.84	18.78
	1 RB low	822.5	23.63	22.69	21.58	18.69
		819.0	23.65	22.77	21.71	18.77
		815.5	23.76	22.79	21.78	18.84
	50% RB mid	822.5	22.72	21.78	20.72	18.74
		819.0	22.67	21.72	20.69	18.68
		815.5	22.74	21.78	20.79	18.76
	100% RB	822.5	22.70	21.74	20.73	18.70
		819.0	22.68	21.65	20.65	18.68
		815.5	22.69	21.69	20.71	18.70
5MHz	1 RB high	821.5	23.70	22.88	21.72	18.93
		819.0	23.68	22.88	21.77	18.85
		816.5	23.65	22.77	21.68	18.92
	1 RB low	821.5	23.68	22.91	21.84	18.76
		819.0	23.74	22.86	21.81	18.82
		816.5	23.82	22.84	21.88	18.92
	50% RB mid	821.5	22.72	21.77	20.73	18.76
		819.0	22.70	21.75	20.72	18.77
		816.5	22.70	21.75	20.71	18.78
	100% RB	821.5	22.72	21.71	20.74	18.75
		819.0	22.70	21.70	20.73	18.76
		816.5	22.71	21.69	20.71	18.75
10MHz	1 RB high	819.0	23.72	22.83	22.02	18.96
	1 RB low	819.0	23.75	22.83	21.79	18.87
	50% RB mid	819.0	22.70	21.76	20.82	18.83
	100% RB	819.0	22.74	21.73	20.74	18.82

LTE band 26_Part22-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.83	23.00	21.97	19.01
		836.5	23.90	23.00	22.18	19.10
		824.7	23.96	22.98	22.07	19.13
	1 RB low	848.3	23.84	22.96	21.98	19.06
		836.5	23.92	23.07	22.10	19.17
		824.7	23.86	22.99	22.16	19.12
	50% RB mid	848.3	23.83	22.97	21.96	19.03
		836.5	23.91	23.09	22.07	19.20
		824.7	23.93	23.08	22.11	19.18
	100% RB	848.3	22.83	21.85	20.94	18.93
		836.5	22.94	22.02	21.03	18.97
		824.7	22.95	22.02	21.06	19.04
3MHz	1 RB high	847.5	23.87	22.91	22.20	19.10
		836.5	23.90	23.00	22.17	19.10
		825.5	23.97	22.97	22.26	19.21
	1 RB low	847.5	23.89	23.00	22.05	19.11
		836.5	23.94	23.07	22.00	19.04
		825.5	23.92	23.05	22.18	19.13
	50% RB mid	847.5	22.90	21.92	20.99	19.08
		836.5	22.97	22.00	21.09	19.13
		825.5	22.96	21.98	21.14	19.09
	100% RB	847.5	22.87	21.90	20.96	19.00
		836.5	22.94	21.98	21.08	19.11
		825.5	22.97	21.93	21.09	19.09
5MHz	1 RB high	846.5	23.94	23.07	22.12	19.17
		836.5	23.97	23.16	22.18	19.26
		826.5	24.03	23.19	22.15	19.20
	1 RB low	846.5	23.97	23.05	22.11	19.13
		836.5	23.98	23.16	22.29	19.25
		826.5	23.98	23.11	22.18	19.07
	50% RB mid	846.5	22.90	21.96	21.05	19.07
		836.5	22.99	22.04	21.11	19.19
		826.5	22.99	22.06	21.15	19.15
	100% RB	846.5	22.90	21.91	21.01	19.03
		836.5	23.00	22.00	21.12	19.14
		826.5	23.00	21.99	21.13	19.14
10MHz	1 RB high	844.0	23.91	23.02	22.20	19.22
		836.5	23.92	22.99	22.31	19.31
		829.0	23.96	23.12	22.28	19.34
	1 RB low	844.0	23.97	23.11	22.14	19.24

		836.5	23.99	23.17	22.17	19.22
		829.0	23.94	23.09	22.07	19.13
	50% RB mid	844.0	22.94	21.89	21.10	19.16
		836.5	23.01	22.06	21.17	19.21
		829.0	23.05	22.05	21.20	19.26
	100% RB	844.0	22.90	21.88	21.05	19.10
		836.5	23.03	22.01	21.15	19.18
		829.0	23.04	22.06	21.15	19.23
15MHz	1 RB high	841.5	23.62	22.81	21.94	18.93
		836.5	23.65	22.84	21.95	19.06
		831.5	23.62	22.81	22.03	19.10
	1 RB low	841.5	23.73	22.96	21.99	19.00
		836.5	23.73	22.99	22.04	19.01
		831.5	23.69	22.81	21.97	18.89
	50% RB mid	841.5	22.92	21.81	21.00	18.92
		836.5	22.94	21.95	21.02	19.03
		831.5	22.97	21.87	21.04	19.02
	100% RB	841.5	22.86	21.86	20.95	18.98
		836.5	22.97	21.94	21.05	19.04
		831.5	22.92	21.93	20.98	19.01

LTE band 26_Part22-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.65	22.71	21.78	18.70
		836.5	23.71	22.83	21.87	18.90
		824.7	23.66	22.73	21.78	18.76
	1 RB low	848.3	23.67	22.78	21.80	18.79
		836.5	23.69	22.83	21.58	18.86
		824.7	23.63	22.80	21.79	18.63
	50% RB mid	848.3	23.61	22.75	21.67	18.81
		836.5	23.69	22.85	21.77	18.87
		824.7	23.68	22.85	21.77	18.79
	100% RB	848.3	22.68	21.68	20.67	18.75
		836.5	22.72	21.79	20.78	18.74
		824.7	22.70	21.79	20.79	18.76
3MHz	1 RB high	847.5	23.63	22.73	21.70	18.80
		836.5	23.69	22.86	21.99	18.87
		825.5	23.68	22.75	21.88	18.87
	1 RB low	847.5	23.67	22.73	21.63	18.75
		836.5	23.71	22.77	21.80	18.76
		825.5	23.67	22.75	21.89	18.80
	50% RB mid	847.5	22.68	21.69	20.65	18.71
		836.5	22.76	21.78	20.74	18.76
		825.5	22.71	21.77	20.70	18.79
	100% RB	847.5	22.65	21.67	20.63	18.67
		836.5	22.74	21.73	20.75	18.77
		825.5	22.70	21.75	20.74	18.78
5MHz	1 RB high	846.5	23.72	22.85	21.66	18.77
		836.5	23.76	22.84	21.81	18.88
		826.5	23.74	22.84	21.72	18.84
	1 RB low	846.5	23.70	22.84	21.82	18.75
		836.5	23.77	22.89	21.88	18.91
		826.5	23.70	22.85	21.88	18.78
	50% RB mid	846.5	22.70	21.75	20.73	18.77
		836.5	22.76	21.78	20.79	18.84
		826.5	22.74	21.75	20.74	18.83
	100% RB	846.5	22.71	21.71	20.70	18.73
		836.5	22.75	21.76	20.78	18.81
		826.5	22.71	21.75	20.76	18.78
10MHz	1 RB high	844.0	23.73	22.82	21.90	18.86
		836.5	23.73	22.81	21.97	18.95
		829.0	23.69	22.79	21.92	18.97
	1 RB low	844.0	23.80	22.94	21.80	18.89

		836.5	23.76	22.81	21.83	18.88
		829.0	23.65	22.80	21.74	18.79
	50% RB mid	844.0	22.75	21.75	20.77	18.83
		836.5	22.76	21.87	20.84	18.84
		829.0	22.85	21.80	20.81	18.87
	100% RB	844.0	22.69	21.67	20.71	18.81
		836.5	22.79	21.81	20.80	18.84
		829.0	22.81	21.79	20.83	18.86
15MHz	1 RB high	841.5	23.42	22.60	21.68	18.67
		836.5	23.46	22.65	21.72	18.72
		831.5	23.47	22.67	21.63	18.70
	1 RB low	841.5	23.53	22.68	21.61	18.56
		836.5	23.49	22.59	21.61	18.65
		831.5	23.46	22.55	21.74	18.52
	50% RB mid	841.5	22.70	21.61	20.68	18.64
		836.5	22.72	21.73	20.69	18.68
		831.5	22.75	21.65	20.66	18.66
	100% RB	841.5	22.65	21.64	20.63	18.65
		836.5	22.73	21.72	20.68	18.72
		831.5	22.67	21.64	20.68	18.69

LTE band 41-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.40	25.63	24.77	21.71
		2593.0	25.44	25.81	24.75	21.65
		2498.5	25.35	25.89	24.82	21.71
	1 RB low	2687.5	25.39	25.81	24.76	21.57
		2593.0	25.40	25.89	24.77	21.58
		2498.5	25.46	25.93	24.87	21.60
	50% RB mid	2687.5	25.50	24.53	23.57	21.69
		2593.0	25.60	24.53	23.52	21.66
		2498.5	25.57	24.51	23.62	21.58
	100% RB	2687.5	25.50	24.55	23.46	21.71
		2593.0	25.53	24.64	23.59	21.70
		2498.5	25.57	24.55	23.45	21.71
10MHz	1 RB high	2685.0	25.40	25.84	24.80	21.72
		2593.0	25.35	25.72	24.84	21.61
		2501.0	25.50	25.97	24.83	21.59
	1 RB low	2685.0	25.44	25.79	24.86	21.59
		2593.0	25.50	25.84	24.82	21.66
		2501.0	25.48	25.84	24.80	21.64
	50% RB mid	2685.0	25.54	24.58	23.52	21.63
		2593.0	25.58	24.54	23.51	21.64
		2501.0	25.48	24.58	23.52	21.68
	100% RB	2685.0	25.57	24.57	23.50	21.62
		2593.0	25.48	24.61	23.60	21.58
		2501.0	25.52	24.63	23.59	21.63
15MHz	1 RB high	2682.5	25.38	25.64	24.80	21.60
		2593.0	25.45	25.76	24.82	21.63
		2503.5	25.34	25.61	24.84	21.62
	1 RB low	2682.5	25.36	25.86	24.76	21.58
		2593.0	25.48	25.67	24.76	21.58
		2503.5	25.39	25.92	24.84	21.64
	50% RB mid	2682.5	25.48	24.57	23.58	21.67
		2593.0	25.51	24.59	23.47	21.72
		2503.5	25.59	24.64	23.61	21.57
	100% RB	2682.5	25.51	24.59	23.47	21.64
		2593.0	25.58	24.64	23.55	21.57
		2503.5	25.54	24.59	23.56	21.59
20MHz	1 RB high	2680.0	25.34	25.61	24.79	21.58
		2593.0	25.46	25.70	24.78	21.59
		2506.0	25.29	25.75	24.79	21.72
	1 RB low	2680.0	25.44	25.74	24.72	21.64

		2593.0	25.46	25.84	24.86	21.65
		2506.0	25.42	25.77	24.71	21.68
	50% RB mid	2680.0	25.45	24.52	23.50	21.70
		2593.0	25.66	24.62	23.62	21.64
		2506.0	25.57	24.52	23.58	21.72
	100% RB	2680.0	25.48	24.44	23.45	21.72
		2593.0	25.62	24.62	23.58	21.57
		2506.0	25.55	24.54	23.53	21.66

LTE band 41-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.32	25.96	24.82	21.44
		2593.0	25.36	25.79	24.69	21.40
		2498.5	25.32	25.66	24.35	21.52
	1 RB low	2687.5	25.54	25.87	24.56	21.43
		2593.0	25.32	25.65	24.77	21.40
		2498.5	25.14	25.42	24.27	21.42
	50% RB mid	2687.5	25.43	24.48	23.50	21.38
		2593.0	25.54	24.51	23.50	21.47
		2498.5	25.45	24.43	23.44	21.41
	100% RB	2687.5	25.50	24.48	23.45	21.41
		2593.0	25.50	24.49	23.49	21.43
		2498.5	25.41	24.45	23.39	21.39
10MHz	1 RB high	2685.0	25.52	25.94	24.78	21.51
		2593.0	25.48	25.73	24.73	21.40
		2501.0	25.53	25.78	24.79	21.47
	1 RB low	2685.0	25.49	25.64	24.70	21.48
		2593.0	25.43	25.93	24.66	21.46
		2501.0	25.42	25.90	24.70	21.51
	50% RB mid	2685.0	25.40	24.50	23.40	21.38
		2593.0	25.43	24.55	23.30	21.50
		2501.0	25.47	24.56	23.38	21.49
	100% RB	2685.0	25.38	24.61	23.35	21.40
		2593.0	25.45	24.59	23.31	21.50
		2501.0	25.32	24.51	23.34	21.42
15MHz	1 RB high	2682.5	25.52	25.75	24.74	21.48
		2593.0	25.35	25.85	24.65	21.50
		2503.5	25.32	25.89	24.58	21.38
	1 RB low	2682.5	25.33	25.61	24.59	21.45
		2593.0	25.44	25.93	24.68	21.47
		2503.5	25.37	25.95	24.59	21.47
	50% RB mid	2682.5	25.34	24.55	23.48	21.38
		2593.0	25.52	24.51	23.34	21.45
		2503.5	25.45	24.56	23.35	21.43
	100% RB	2682.5	25.35	24.51	23.31	21.39
		2593.0	25.44	24.57	23.53	21.44
		2503.5	25.50	24.54	23.54	21.51
20MHz	1 RB high	2680.0	25.32	25.96	24.82	21.47
		2593.0	25.36	25.79	24.69	21.39
		2506.0	25.32	25.66	24.35	21.47
	1 RB low	2680.0	25.54	25.87	24.56	21.51

		2593.0	25.32	25.65	24.77	21.50
		2506.0	25.34	25.42	24.27	21.45
	50% RB mid	2680.0	25.43	24.48	23.50	21.40
		2593.0	25.64	24.51	23.50	21.47
		2506.0	25.45	24.43	23.44	21.42
	100% RB	2680.0	25.50	24.48	23.45	21.41
		2593.0	25.50	24.49	23.49	21.47
		2506.0	25.41	24.45	23.39	21.38

LTE band 48-ANT4

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.99	23.16	22.11	19.07
		3625.0	24.11	23.21	21.99	19.01
		3552.5	23.96	23.05	21.98	19.10
	1 RB low	3697.5	24.13	22.91	21.99	19.17
		3625.0	24.11	23.19	22.04	19.10
		3552.5	24.01	22.99	21.88	18.87
	50% RB mid	3697.5	23.07	22.15	21.31	19.26
		3625.0	23.12	22.25	21.17	19.17
		3552.5	23.12	22.24	20.95	18.86
	100% RB	3697.5	23.25	22.21	21.30	18.99
		3625.0	23.14	22.08	21.26	19.08
		3552.5	23.21	22.07	21.00	19.06
10MHz	1 RB high	3695.0	24.18	23.14	22.18	19.09
		3625.0	24.17	23.11	22.04	19.15
		3555.0	23.90	22.99	21.86	19.21
	1 RB low	3695.0	24.03	23.09	21.99	19.15
		3625.0	24.05	23.24	22.07	19.05
		3555.0	23.91	22.98	21.94	19.04
	50% RB mid	3695.0	23.12	22.17	21.21	19.13
		3625.0	23.17	22.15	21.06	19.00
		3555.0	23.17	22.19	21.01	19.03
	100% RB	3695.0	23.26	22.12	21.23	18.88
		3625.0	23.20	22.17	21.09	19.03
		3555.0	23.12	22.01	21.06	19.16
15MHz	1 RB high	3692.5	24.00	23.11	22.17	19.14
		3625.0	24.18	23.11	22.03	19.09
		3557.5	23.92	23.15	21.97	19.05
	1 RB low	3692.5	24.08	23.01	21.99	19.12
		3625.0	24.12	23.22	22.00	19.06
		3557.5	23.95	22.91	21.82	18.92
	50% RB mid	3692.5	23.17	22.17	21.24	19.16
		3625.0	23.17	22.18	21.20	19.10
		3557.5	23.11	22.20	21.05	18.92
	100% RB	3692.5	23.21	22.12	21.27	18.97
		3625.0	23.08	22.13	21.19	19.03
		3557.5	23.12	22.05	21.08	19.14
20MHz	1 RB high	3690.0	24.09	23.14	22.08	19.11
		3625.0	24.19	23.21	22.04	19.09

	1 RB low	3560.0	23.94	23.05	21.91	19.13
		3690.0	24.11	23.10	22.01	19.13
		3625.0	24.04	23.19	22.09	19.00
		3560.0	23.96	23.00	21.86	18.97
	50% RB mid	3690.0	23.20	22.21	21.25	19.08
		3625.0	23.25	22.15	21.13	19.06
		3560.0	23.11	22.10	21.07	18.94
	100% RB	3690.0	23.20	22.20	21.21	18.90
		3625.0	23.10	22.13	21.11	19.01
		3560.0	23.07	22.06	21.09	19.20

LTE band 48-ANT2

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.76	22.77	21.76	17.80
		3625.0	23.72	22.78	21.57	17.87
		3552.5	23.55	22.64	21.59	17.89
	1 RB low	3697.5	23.81	22.76	21.66	17.86
		3625.0	23.65	22.70	21.45	17.80
		3552.5	23.51	22.50	21.48	17.91
	50% RB mid	3697.5	22.88	21.87	20.92	17.84
		3625.0	22.78	21.78	20.76	17.93
		3552.5	22.67	21.64	20.68	17.87
	100% RB	3697.5	22.84	21.86	20.84	17.93
		3625.0	22.67	21.65	20.71	17.84
		3552.5	22.63	21.64	20.63	17.82
10MHz	1 RB high	3695.0	23.85	22.84	21.84	17.93
		3625.0	23.67	22.76	21.67	17.77
		3555.0	23.58	22.62	21.49	17.90
	1 RB low	3695.0	23.80	22.82	21.79	17.90
		3625.0	23.67	22.77	21.69	17.93
		3555.0	23.61	22.65	21.55	17.92
	50% RB mid	3695.0	22.90	21.92	20.91	17.86
		3625.0	22.70	21.74	20.71	17.91
		3555.0	22.66	21.66	20.67	17.88
	100% RB	3695.0	22.92	21.85	20.87	17.85
		3625.0	22.70	21.70	20.69	17.83
		3555.0	22.68	21.65	20.67	17.91
15MHz	1 RB high	3692.5	23.68	22.56	21.70	17.78
		3625.0	23.48	22.53	21.42	17.86
		3557.5	23.36	22.34	21.33	17.87
	1 RB low	3692.5	23.72	22.75	21.63	17.85
		3625.0	23.50	22.54	21.39	17.81
		3557.5	23.40	22.41	21.26	17.81
	50% RB mid	3692.5	22.67	21.63	20.68	17.87
		3625.0	22.52	21.56	20.55	17.86
		3557.5	22.50	21.50	20.52	17.89
	100% RB	3692.5	22.66	21.69	20.66	17.93
		3625.0	22.56	21.53	20.53	17.79
		3557.5	22.51	21.50	20.53	17.83
20MHz	1 RB high	3690.0	23.76	22.60	21.71	17.87
		3625.0	23.64	22.37	21.47	17.79

		3560.0	23.40	22.45	21.33	17.91
	1 RB low	3690.0	23.66	22.63	21.63	17.89
		3625.0	23.49	22.59	21.38	17.92
		3560.0	23.36	22.34	21.32	17.89
	50% RB mid	3690.0	22.70	21.69	20.66	17.81
		3625.0	22.81	21.57	20.51	17.87
		3560.0	22.58	21.55	20.54	17.93
	100% RB	3690.0	22.66	21.64	20.68	17.79
		3625.0	22.54	21.56	20.55	17.87
		3560.0	22.50	21.54	20.51	17.77

LTE band 66-ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.92	23.14	22.16	18.76
		1745.0	24.05	23.46	22.05	18.77
		1710.7	23.96	23.58	21.93	18.89
	1 RB low	1779.3	23.93	23.51	22.28	18.75
		1745.0	24.05	23.60	22.34	18.77
		1710.7	24.00	23.39	22.03	18.95
	50% RB mid	1779.3	24.05	23.09	22.06	18.91
		1745.0	24.07	23.03	22.09	18.83
		1710.7	24.02	23.12	22.17	18.74
	100% RB	1779.3	23.01	22.18	21.06	19.04
		1745.0	23.09	22.17	21.16	18.86
		1710.7	23.03	22.16	21.03	18.71
3MHz	1 RB high	1778.5	23.68	23.23	21.94	18.63
		1745.0	23.89	23.33	22.10	18.78
		1711.5	24.10	23.24	21.96	18.96
	1 RB low	1778.5	23.88	23.20	21.88	18.81
		1745.0	23.91	23.08	21.80	18.85
		1711.5	23.76	23.04	22.21	18.81
	50% RB mid	1778.5	23.11	21.93	20.97	18.83
		1745.0	22.99	21.83	20.96	18.81
		1711.5	23.02	21.90	21.01	18.68
	100% RB	1778.5	22.96	22.04	20.97	18.95
		1745.0	22.81	22.08	20.89	18.89
		1711.5	22.92	21.95	20.87	18.81
5MHz	1 RB high	1777.5	23.79	23.16	21.92	18.73
		1745.0	23.88	23.27	22.08	18.83
		1712.5	23.98	23.16	22.03	18.98
	1 RB low	1777.5	23.97	23.17	22.04	18.80
		1745.0	23.94	23.06	21.90	18.87
		1712.5	23.73	23.07	22.12	18.80
	50% RB mid	1777.5	22.97	21.89	20.98	18.84
		1745.0	23.05	21.83	20.98	18.79
		1712.5	23.06	21.98	20.88	18.65
	100% RB	1777.5	22.91	22.10	21.09	18.88
		1745.0	22.88	21.94	20.81	18.69
		1712.5	22.86	22.08	20.92	18.80
10MHz	1 RB high	1775.0	23.79	23.07	21.96	18.69
		1745.0	23.82	23.14	22.15	18.78
		1715.0	23.89	23.18	21.92	18.77
	1 RB low	1775.0	23.96	23.09	22.01	18.83

		1745.0	24.06	23.16	21.98	18.92
		1715.0	23.80	23.23	22.16	18.87
	50% RB mid	1775.0	23.00	21.97	20.93	18.85
		1745.0	23.05	21.86	20.98	18.89
		1715.0	23.03	21.93	21.08	18.83
	100% RB	1775.0	22.86	21.95	20.97	18.94
		1745.0	22.89	22.04	20.96	18.84
		1715.0	22.95	21.95	20.92	18.75
15MHz	1 RB high	1772.5	23.77	23.16	22.02	18.71
		1745.0	23.97	23.30	22.14	18.77
		1717.5	24.02	23.26	21.94	18.93
	1 RB low	1772.5	23.98	23.15	21.96	18.78
		1745.0	23.94	23.15	21.89	18.86
		1717.5	23.78	23.08	22.15	18.88
	50% RB mid	1772.5	23.02	21.83	20.94	18.85
		1745.0	23.07	21.89	20.96	18.78
		1717.5	23.01	21.92	20.93	18.74
	100% RB	1772.5	22.89	22.01	21.01	18.95
		1745.0	22.78	22.04	20.90	18.79
		1717.5	22.85	22.01	20.94	18.73
20MHz	1 RB high	1770.0	23.85	23.06	22.04	18.78
		1745.0	23.92	23.23	22.06	18.81
		1720.0	23.93	23.27	21.93	18.85
	1 RB low	1770.0	23.99	23.12	21.95	18.81
		1745.0	24.00	23.10	21.94	18.91
		1720.0	23.82	23.16	22.07	18.81
	50% RB mid	1770.0	22.97	21.93	21.00	18.91
		1745.0	23.01	21.91	21.00	18.88
		1720.0	22.99	21.97	21.00	18.80
	100% RB	1770.0	22.92	21.91	20.94	18.86
		1745.0	22.82	21.95	20.89	18.89
		1720.0	22.88	21.95	20.99	18.79

LTE band 66-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.89	23.23	21.99	19.53
		1745.0	23.88	23.53	22.15	19.56
		1710.7	23.97	23.47	22.00	19.49
	1 RB low	1779.3	23.85	23.37	22.21	19.57
		1745.0	23.90	23.24	21.99	19.58
		1710.7	23.96	23.46	22.09	19.51
	50% RB mid	1779.3	23.97	23.08	22.01	19.46
		1745.0	23.94	22.99	21.97	19.57
		1710.7	23.92	23.14	21.99	19.60
	100% RB	1779.3	23.02	22.05	20.98	19.53
		1745.0	22.94	22.07	21.07	19.49
		1710.7	23.01	22.05	21.13	19.58
3MHz	1 RB high	1778.5	23.88	23.23	22.01	19.50
		1745.0	23.87	23.29	21.93	19.48
		1711.5	23.96	23.33	22.13	19.44
	1 RB low	1778.5	23.89	23.20	22.03	19.51
		1745.0	23.93	23.22	22.07	19.49
		1711.5	23.95	23.20	22.10	19.53
	50% RB mid	1778.5	23.07	22.08	21.06	19.53
		1745.0	23.02	22.18	21.04	19.60
		1711.5	23.02	22.12	21.13	19.55
	100% RB	1778.5	23.03	22.06	20.99	19.51
		1745.0	23.12	22.03	21.02	19.57
		1711.5	23.12	22.04	21.08	19.58
5MHz	1 RB high	1777.5	23.86	23.23	22.00	19.47
		1745.0	23.95	23.22	22.03	19.54
		1712.5	23.92	23.45	22.10	19.55
	1 RB low	1777.5	23.94	23.24	22.17	19.48
		1745.0	23.90	23.20	21.99	19.51
		1712.5	23.94	23.27	22.04	19.52
	50% RB mid	1777.5	23.03	22.05	21.11	19.46
		1745.0	23.07	22.17	21.05	19.56
		1712.5	23.11	22.10	21.10	19.59
	100% RB	1777.5	22.97	22.02	21.01	19.60
		1745.0	22.92	22.00	20.96	19.45
		1712.5	23.09	22.05	21.09	19.53
10MHz	1 RB high	1775.0	23.91	23.18	21.99	19.44
		1745.0	23.88	23.16	22.05	19.59
		1715.0	23.93	23.42	22.26	19.51
	1 RB low	1775.0	23.96	23.40	21.86	19.52

		1745.0	23.98	23.21	22.01	19.51
		1715.0	23.90	23.29	22.03	19.51
	50% RB mid	1775.0	22.97	22.02	21.03	19.48
		1745.0	22.97	22.00	20.95	19.59
		1715.0	23.08	22.06	21.15	19.49
	100% RB	1775.0	22.87	21.95	20.88	19.49
		1745.0	22.97	21.95	21.05	19.51
		1715.0	23.00	22.05	21.09	19.57
15MHz	1 RB high	1772.5	23.69	23.05	21.76	19.50
		1745.0	23.92	23.09	21.90	19.56
		1717.5	23.86	23.38	21.88	19.58
	1 RB low	1772.5	23.73	23.32	21.80	19.47
		1745.0	23.81	22.98	21.90	19.57
		1717.5	23.80	23.07	21.95	19.56
	50% RB mid	1772.5	22.88	21.99	20.94	19.54
		1745.0	22.81	21.78	20.71	19.60
		1717.5	22.86	21.92	20.87	19.54
	100% RB	1772.5	22.90	21.89	20.97	19.55
		1745.0	22.79	21.84	20.74	19.55
		1717.5	22.87	21.88	20.93	19.45
20MHz	1 RB high	1770.0	23.67	23.02	21.76	19.59
		1745.0	23.88	23.11	22.02	19.45
		1720.0	23.83	23.09	22.26	19.44
	1 RB low	1770.0	23.78	23.01	21.93	19.56
		1745.0	23.84	23.12	21.79	19.59
		1720.0	23.74	23.13	21.98	19.55
	50% RB mid	1770.0	22.85	21.82	20.82	19.47
		1745.0	22.76	21.76	20.84	19.48
		1720.0	22.87	21.94	20.84	19.49
	100% RB	1770.0	22.83	21.87	20.87	19.59
		1745.0	22.75	21.86	20.74	19.52
		1720.0	22.83	21.85	20.82	19.44

LTE band 71-ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.71	23.02	21.70	19.02
		680.5	23.64	23.13	22.16	19.26
		665.5	24.01	23.12	22.24	19.00
	1 RB low	695.5	24.18	23.33	22.67	19.22
		680.5	23.83	23.27	22.36	19.30
		665.5	23.92	23.35	22.41	19.18
	50% RB mid	695.5	22.96	22.12	21.02	19.18
		680.5	23.04	22.16	21.18	19.18
		665.5	23.12	22.27	21.15	19.33
	100% RB	695.5	22.94	22.25	20.77	19.16
		680.5	22.79	22.11	20.83	19.22
		665.5	23.01	22.15	21.04	19.35
10MHz	1 RB high	693.0	23.79	23.05	21.80	19.13
		680.5	23.87	23.19	21.97	19.08
		668.0	23.82	23.30	22.37	19.09
	1 RB low	693.0	24.23	23.30	22.78	19.27
		680.5	24.00	23.31	22.29	19.27
		668.0	23.85	23.14	22.42	19.32
	50% RB mid	693.0	23.07	22.06	21.03	19.27
		680.5	23.03	22.13	21.09	19.21
		668.0	23.00	22.28	20.98	19.31
	100% RB	693.0	22.90	22.03	20.75	19.20
		680.5	22.97	22.04	20.88	19.20
		668.0	22.98	22.31	21.14	19.39
15MHz	1 RB high	690.5	23.66	22.92	21.67	19.12
		680.5	23.73	23.21	22.07	19.19
		670.5	23.93	23.17	22.21	19.10
	1 RB low	690.5	24.18	23.31	22.71	19.21
		680.5	23.84	23.23	22.27	19.28
		670.5	23.95	23.25	22.38	19.21
	50% RB mid	690.5	22.97	22.11	21.09	19.23
		680.5	22.99	22.10	21.18	19.18
		670.5	23.10	22.22	21.09	19.30
	100% RB	690.5	22.89	22.19	20.84	19.09
		680.5	22.89	22.07	20.89	19.17
		670.5	22.99	22.23	21.14	19.26
20MHz	1 RB high	688.0	23.73	22.96	21.73	19.20
		680.5	23.80	23.16	22.02	19.14
		673.0	23.91	23.22	22.27	19.15
	1 RB low	688.0	24.13	23.36	22.68	19.31

		680.5	23.92	23.27	22.29	19.24
		673.0	23.88	23.16	22.33	19.30
	50% RB mid	688.0	23.06	22.14	21.10	19.27
		680.5	23.08	22.07	21.10	19.17
		673.0	23.02	22.20	21.01	19.28
	100% RB	688.0	22.83	22.11	20.82	19.15
		680.5	22.95	22.03	20.92	19.15
		673.0	23.07	22.29	21.10	19.30

LTE band 71-ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Power (dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.78	22.90	21.53	19.37
		680.5	23.57	23.19	21.67	19.49
		665.5	23.72	22.99	22.23	19.41
	1 RB low	695.5	23.87	23.23	21.80	19.37
		680.5	23.76	23.21	21.83	19.51
		665.5	23.88	23.18	22.12	19.57
	50% RB mid	695.5	22.95	22.01	21.04	19.54
		680.5	22.88	21.94	20.85	19.37
		665.5	22.95	21.92	21.06	19.60
	100% RB	695.5	22.77	21.70	20.82	19.78
		680.5	22.88	21.86	20.99	19.82
		665.5	22.96	22.00	21.22	19.47
10MHz	1 RB high	693.0	23.51	22.90	21.62	19.51
		680.5	23.75	23.38	21.64	19.52
		668.0	23.84	23.06	22.24	19.42
	1 RB low	693.0	23.81	23.17	21.98	19.43
		680.5	23.88	23.01	21.80	19.61
		668.0	23.86	23.09	22.03	19.64
	50% RB mid	693.0	23.04	21.96	20.92	19.53
		680.5	22.90	21.94	20.92	19.53
		668.0	22.94	22.10	20.98	19.55
	100% RB	693.0	22.90	21.83	20.65	19.73
		680.5	22.84	21.91	20.95	19.66
		668.0	23.05	21.91	21.14	19.47
15MHz	1 RB high	690.5	23.69	22.81	21.63	19.42
		680.5	23.65	23.23	21.75	19.50
		670.5	23.82	23.02	22.14	19.38
	1 RB low	690.5	23.83	23.20	21.84	19.34
		680.5	23.86	23.21	21.77	19.59
		670.5	23.82	23.08	22.08	19.60
	50% RB mid	690.5	22.91	22.01	20.97	19.59
		680.5	22.83	21.85	20.85	19.42
		670.5	22.97	21.96	21.05	19.55
	100% RB	690.5	22.75	21.79	20.84	19.73
		680.5	22.81	21.84	20.97	19.73
		670.5	22.93	21.90	21.24	19.56
20MHz	1 RB high	688.0	23.60	22.89	21.70	19.49
		680.5	23.73	23.29	21.74	19.51
		673.0	23.75	23.06	22.15	19.48
	1 RB low	688.0	23.85	23.23	21.93	19.44

		680.5	23.78	23.11	21.86	19.60
		673.0	23.85	23.14	22.10	19.57
	50% RB mid	688.0	22.96	21.98	20.93	19.59
		680.5	23.09	21.87	20.87	19.48
		673.0	23.00	22.04	20.98	19.59
	100% RB	688.0	22.85	21.84	20.74	19.63
		680.5	22.85	21.88	20.92	19.65
		673.0	22.96	21.91	21.14	19.54

LTE CA band 41C-ANT3

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.27
			QPSK	25	0	100	0	25.40
			16QAM	1	24	1	0	25.77
			16QAM	25	0	100	0	24.37
			64QAM	1	24	1	0	25.19
			64QAM	25	0	100	0	24.33
			256QAM	1	24	1	0	22.27
			256QAM	25	0	100	0	22.36
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.32
			QPSK	50	0	75	0	25.43
			16QAM	1	49	1	0	25.67
			16QAM	50	0	75	0	24.40
			64QAM	1	49	1	0	25.14
			64QAM	50	0	75	0	24.39
			256QAM	1	49	1	0	22.21
			256QAM	50	0	75	0	22.34
10MHz/20MHz	2583.6	2598.0	QPSK	1	49	1	0	26.23
			QPSK	50	0	100	0	25.41
			16QAM	1	49	1	0	25.76
			16QAM	50	0	100	0	24.42
			64QAM	1	49	1	0	25.16
			64QAM	50	0	100	0	24.41
			256QAM	1	49	1	0	22.20
			256QAM	50	0	100	0	22.35
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.15
			QPSK	75	0	50	0	25.31
			16QAM	1	74	1	0	25.63
			16QAM	75	0	50	0	24.42
			64QAM	1	74	1	0	25.08
			64QAM	75	0	50	0	24.32
			256QAM	1	74	1	0	22.22
			256QAM	75	0	50	0	22.33
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.21
			QPSK	75	0	75	0	25.37
			16QAM	1	74	1	0	25.60
			16QAM	75	0	75	0	24.36
			64QAM	1	74	1	0	25.12
			64QAM	75	0	75	0	24.34
			256QAM	1	74	1	0	22.14
			256QAM	75	0	75	0	22.37

15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.19
			QPSK	75	0	100	0	25.45
			16QAM	1	74	1	0	25.59
			16QAM	75	0	100	0	24.42
			64QAM	1	74	1	0	25.10
			64QAM	75	0	100	0	24.34
			256QAM	1	74	1	0	22.19
			256QAM	75	0	100	0	22.40
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.26
			QPSK	100	0	25	0	25.40
			16QAM	1	99	1	0	25.77
			16QAM	100	0	25	0	24.39
			64QAM	1	99	1	0	25.09
			64QAM	100	0	25	0	24.37
			256QAM	1	99	1	0	22.31
			256QAM	100	0	25	0	22.38
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.28
			QPSK	100	0	50	0	25.42
			16QAM	1	99	1	0	25.71
			16QAM	100	0	50	0	24.40
			64QAM	1	99	1	0	25.03
			64QAM	100	0	50	0	24.39
			256QAM	1	99	1	0	22.31
			256QAM	100	0	50	0	22.37
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.28
			QPSK	100	0	75	0	25.42
			16QAM	1	99	1	0	25.76
			16QAM	100	0	75	0	24.43
			64QAM	1	99	1	0	25.05
			64QAM	100	0	75	0	24.37
			256QAM	1	99	1	0	22.27
			256QAM	100	0	75	0	22.38
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.24
			QPSK	100	0	100	0	25.43
			16QAM	1	99	1	0	25.69
			16QAM	100	0	100	0	24.41
			64QAM	1	99	1	0	25.12
			64QAM	100	0	100	0	24.47
			256QAM	1	99	1	0	22.39
			256QAM	100	0	100	0	22.41

LTE CA band 41C-ANT1

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.51
			QPSK	25	0	100	0	25.70
			16QAM	1	24	1	0	26.05
			16QAM	25	0	100	0	24.67
			64QAM	1	24	1	0	25.30
			64QAM	25	0	100	0	24.63
			256QAM	1	24	1	0	22.58
			256QAM	25	0	100	0	22.61
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.53
			QPSK	50	0	75	0	25.61
			16QAM	1	49	1	0	25.97
			16QAM	50	0	75	0	24.70
			64QAM	1	49	1	0	25.32
			64QAM	50	0	75	0	24.71
			256QAM	1	49	1	0	22.49
			256QAM	50	0	75	0	22.63
10MHz/20MHz	2583.6	2598.0	QPSK	1	49	1	0	26.69
			QPSK	50	0	100	0	25.73
			16QAM	1	49	1	0	25.95
			16QAM	50	0	100	0	24.75
			64QAM	1	49	1	0	25.36
			64QAM	50	0	100	0	24.66
			256QAM	1	49	1	0	22.63
			256QAM	50	0	100	0	22.66
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.59
			QPSK	75	0	50	0	25.68
			16QAM	1	74	1	0	25.90
			16QAM	75	0	50	0	24.70
			64QAM	1	74	1	0	25.45
			64QAM	75	0	50	0	24.67
			256QAM	1	74	1	0	22.57
			256QAM	75	0	50	0	22.65
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.59
			QPSK	75	0	75	0	25.68
			16QAM	1	74	1	0	25.98
			16QAM	75	0	75	0	24.70
			64QAM	1	74	1	0	25.44
			64QAM	75	0	75	0	24.71
			256QAM	1	74	1	0	22.50
			256QAM	75	0	75	0	22.67

15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.53
			QPSK	75	0	100	0	25.66
			16QAM	1	74	1	0	25.96
			16QAM	75	0	100	0	24.72
			64QAM	1	74	1	0	25.46
			64QAM	75	0	100	0	24.67
			256QAM	1	74	1	0	22.62
			256QAM	75	0	100	0	22.71
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.50
			QPSK	100	0	25	0	25.69
			16QAM	1	99	1	0	26.06
			16QAM	100	0	25	0	24.73
			64QAM	1	99	1	0	25.37
			64QAM	100	0	25	0	24.75
			256QAM	1	99	1	0	22.59
			256QAM	100	0	25	0	22.70
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.55
			QPSK	100	0	50	0	25.70
			16QAM	1	99	1	0	26.08
			16QAM	100	0	50	0	24.77
			64QAM	1	99	1	0	25.34
			64QAM	100	0	50	0	24.64
			256QAM	1	99	1	0	22.56
			256QAM	100	0	50	0	22.73
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.60
			QPSK	100	0	75	0	25.79
			16QAM	1	99	1	0	26.16
			16QAM	100	0	75	0	24.77
			64QAM	1	99	1	0	25.39
			64QAM	100	0	75	0	24.71
			256QAM	1	99	1	0	22.49
			256QAM	100	0	75	0	22.67
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.49
			QPSK	100	0	100	0	25.68
			16QAM	1	99	1	0	26.01
			16QAM	100	0	100	0	24.75
			64QAM	1	99	1	0	25.35
			64QAM	100	0	100	0	24.74
			256QAM	1	99	1	0	22.56
			256QAM	100	0	100	0	22.64

A.1.3 Radiated

A.1.3.1 Description

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

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

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

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

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

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

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

A.1.3.2 Method of Measurement

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

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

where;

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

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

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

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

A.1.3.3 Limits and Measurement Results

LTE Band 7-EIRP

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-0.56)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2567.5	22.89	22.60	21.00	17.82	22.33	22.04	20.44	17.26
		2535	22.68	22.52	21.03	17.73	22.12	21.96	20.47	17.17
		2502.5	22.90	22.63	20.99	17.81	22.34	22.07	20.43	17.25
	1 RB low	2567.5	22.72	21.90	21.08	17.80	22.16	21.34	20.52	17.24
		2535	22.83	21.92	20.92	17.67	22.27	21.36	20.36	17.11
		2502.5	22.77	22.00	21.06	17.71	22.21	21.44	20.50	17.15
	50% RB mid	2567.5	22.73	22.50	21.04	17.69	22.17	21.94	20.48	17.13
		2535	22.76	22.30	21.02	17.79	22.20	21.74	20.46	17.23
		2502.5	22.72	22.38	21.02	17.73	22.16	21.82	20.46	17.17
	100% RB	2567.5	22.09	21.01	20.13	17.64	21.53	20.45	19.57	17.08
		2535	22.10	20.86	19.91	17.80	21.54	20.30	19.35	17.24
		2502.5	22.07	20.94	19.99	17.71	21.51	20.38	19.43	17.15
10MHz	1 RB high	2565	22.89	22.48	21.08	17.64	22.33	21.92	20.52	17.08
		2535	22.85	22.31	20.96	17.81	22.29	21.75	20.40	17.25
		2505	22.80	22.65	20.97	17.64	22.24	22.09	20.41	17.08
	1 RB low	2565	22.92	22.02	20.99	17.66	22.36	21.46	20.43	17.10
		2535	22.91	21.97	21.03	17.76	22.35	21.41	20.47	17.20
		2505	22.68	22.12	21.07	17.65	22.12	21.56	20.51	17.09
	50% RB mid	2565	21.94	20.95	19.96	17.82	21.38	20.39	19.40	17.26
		2535	22.06	20.91	20.05	17.76	21.50	20.35	19.49	17.20
		2505	21.95	21.01	19.94	17.77	21.39	20.45	19.38	17.21
	100% RB	2565	21.95	21.05	19.95	17.73	21.39	20.49	19.39	17.17
		2535	21.96	21.01	20.01	17.81	21.40	20.45	19.45	17.25
		2505	22.12	20.93	20.12	17.67	21.56	20.37	19.56	17.11
15MHz	1 RB high	2562.5	22.87	22.54	20.94	17.63	22.31	21.98	20.38	17.07
		2535	22.79	22.56	20.98	17.73	22.23	22.00	20.42	17.17
		2507.5	22.71	22.00	21.01	17.65	22.15	21.44	20.45	17.09
	1 RB low	2562.5	22.74	22.10	21.03	17.72	22.18	21.54	20.47	17.16
		2535	22.68	22.31	20.99	17.69	22.12	21.75	20.43	17.13
		2507.5	22.78	21.93	21.06	17.77	22.22	21.37	20.50	17.21
	50% RB mid	2562.5	22.01	20.96	20.03	17.62	21.45	20.40	19.47	17.06
		2535	22.09	20.91	19.98	17.62	21.53	20.35	19.42	17.06
		2507.5	21.91	20.97	20.02	17.75	21.35	20.41	19.46	17.19
	100% RB	2562.5	22.01	20.96	19.91	17.78	21.45	20.40	19.35	17.22
		2535	22.00	21.05	20.07	17.77	21.44	20.49	19.51	17.21
		2507.5	22.01	20.92	19.96	17.77	21.45	20.36	19.40	17.21
20MHz	1 RB high	2560	22.69	22.51	20.99	17.63	22.13	21.95	20.43	17.07

		2535	22.67	22.63	20.96	17.76	22.11	22.07	20.40	17.20
		2510	22.92	22.15	20.93	17.73	22.36	21.59	20.37	17.17
	1 RB low	2560	22.72	22.64	21.03	17.64	22.16	22.08	20.47	17.08
		2535	22.85	22.37	21.07	17.70	22.29	21.81	20.51	17.14
		2510	22.86	22.06	20.89	17.68	22.30	21.50	20.33	17.12
	50% RB mid	2560	21.89	20.86	19.77	17.82	21.33	20.30	19.21	17.26
		2535	22.03	20.87	19.90	17.71	21.47	20.31	19.34	17.15
		2510	21.99	21.04	20.04	17.69	21.43	20.48	19.48	17.13
	100% RB	2560	21.72	20.86	19.84	17.67	21.16	20.30	19.28	17.11
		2535	22.01	20.86	20.13	17.72	21.45	20.30	19.57	17.16
		2510	21.95	20.95	19.95	17.74	21.39	20.39	19.39	17.18

LTE Band12 ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-1.1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	715.3	23.99	23.52	22.13	19.50	20.74	20.27	18.88	16.25
		707.5	23.92	23.34	22.23	19.26	20.67	20.09	18.98	16.01
		699.7	23.99	23.79	22.09	19.27	20.74	20.54	18.84	16.02
	1 RB low	715.3	23.99	23.46	22.17	19.40	20.74	20.21	18.92	16.15
		707.5	23.96	23.25	22.33	19.47	20.71	20.00	19.08	16.22
		699.7	24.01	23.73	22.23	19.34	20.76	20.48	18.98	16.09
	50% RB mid	715.3	24.01	23.08	22.14	19.30	20.76	19.83	18.89	16.05
		707.5	24.09	23.12	22.11	19.52	20.84	19.87	18.86	16.27
		699.7	24.15	23.16	22.17	19.43	20.90	19.91	18.92	16.18
	100% RB	715.3	23.01	22.11	21.08	19.43	19.76	18.86	17.83	16.18
		707.5	23.04	22.02	21.11	19.32	19.79	18.77	17.86	16.07
		699.7	23.16	22.17	21.11	19.51	19.91	18.92	17.86	16.26
3MHz	1 RB high	714.5	23.92	23.30	21.93	19.33	20.67	20.05	18.68	16.08
		707.5	23.95	23.36	22.27	19.48	20.70	20.11	19.02	16.23
		700.5	23.95	23.29	22.13	19.45	20.70	20.04	18.88	16.20
	1 RB low	714.5	23.97	23.62	22.07	19.30	20.72	20.37	18.82	16.05
		707.5	23.94	23.41	22.12	19.35	20.69	20.16	18.87	16.10
		700.5	24.00	23.46	22.28	19.47	20.75	20.21	19.03	16.22
	50% RB mid	714.5	23.05	22.13	21.00	19.49	19.80	18.88	17.75	16.24
		707.5	23.14	22.14	21.11	19.26	19.89	18.89	17.86	16.01
		700.5	23.16	22.19	21.21	19.38	19.91	18.94	17.96	16.13
	100% RB	714.5	23.01	22.04	21.04	19.23	19.76	18.79	17.79	15.98
		707.5	23.04	21.99	21.05	19.26	19.79	18.74	17.80	16.01
		700.5	23.09	22.15	21.13	19.35	19.84	18.90	17.88	16.10
5MHz	1 RB high	713.5	23.98	23.29	22.14	19.44	20.73	20.04	18.89	16.19
		707.5	24.05	23.39	22.12	19.36	20.80	20.14	18.87	16.11
		701.5	24.03	23.34	22.07	19.39	20.78	20.09	18.82	16.14
	1 RB low	713.5	24.02	23.49	22.13	19.28	20.77	20.24	18.88	16.03
		707.5	23.99	23.40	22.19	19.49	20.74	20.15	18.94	16.24
		701.5	24.05	23.50	22.06	19.24	20.80	20.25	18.81	15.99
	50% RB mid	713.5	23.12	22.10	21.12	19.54	19.87	18.85	17.87	16.29
		707.5	23.06	22.11	21.09	19.41	19.81	18.86	17.84	16.16
		701.5	23.14	22.15	21.15	19.41	19.89	18.90	17.90	16.16
	100% RB	713.5	23.09	22.16	21.09	19.30	19.84	18.91	17.84	16.05
		707.5	23.00	22.00	21.02	19.39	19.75	18.75	17.77	16.14
		701.5	23.11	22.09	21.04	19.43	19.86	18.84	17.79	16.18
10MHz	1 RB high	711	23.94	23.52	21.93	19.31	20.69	20.27	18.68	16.06
		707.5	24.01	23.28	21.94	19.31	20.76	20.03	18.69	16.06
		704	23.88	23.36	22.16	19.47	20.63	20.11	18.91	16.22
	1 RB low	711	24.08	23.60	22.16	19.37	20.83	20.35	18.91	16.12

		707.5	24.05	23.36	22.42	19.29	20.80	20.11	19.17	16.04
		704	24.13	23.25	22.16	19.35	20.88	20.00	18.91	16.10
	50% RB mid	711	23.04	22.08	21.07	19.30	19.79	18.83	17.82	16.05
		707.5	23.10	22.09	21.17	19.31	19.85	18.84	17.92	16.06
		704	23.18	22.14	21.15	19.30	19.93	18.89	17.90	16.05
	100% RB	711	23.03	21.96	21.02	19.48	19.78	18.71	17.77	16.23
		707.5	23.03	22.05	20.97	19.50	19.78	18.80	17.72	16.25
		704	23.18	22.12	21.05	19.23	19.93	18.87	17.80	15.98

LTE Band25 ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-1)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.92	23.45	22.09	18.89	22.92	22.45	21.09	17.89
		1882.5	24.12	23.61	22.19	18.82	23.12	22.61	21.19	17.82
		1850.7	24.03	23.42	22.06	18.89	23.03	22.42	21.06	17.89
	1 RB low	1914.3	23.96	23.32	22.05	18.81	22.96	22.32	21.05	17.81
		1882.5	24.02	23.56	22.21	18.90	23.02	22.56	21.21	17.90
		1850.7	24.07	23.32	22.19	18.94	23.07	22.32	21.19	17.94
	50% RB mid	1914.3	24.02	23.19	22.11	18.93	23.02	22.19	21.11	17.93
		1882.5	24.18	23.29	22.26	18.86	23.18	22.29	21.26	17.86
		1850.7	24.22	23.27	22.33	18.83	23.22	22.27	21.33	17.83
	100% RB	1914.3	23.07	22.18	21.09	18.83	22.07	21.18	20.09	17.83
		1882.5	23.18	22.19	21.24	18.97	22.18	21.19	20.24	17.97
		1850.7	23.19	22.20	21.09	18.92	22.19	21.20	20.09	17.92
3MHz	1 RB high	1913.5	23.98	23.03	22.14	18.92	22.98	22.03	21.14	17.92
		1882.5	23.93	23.09	21.97	18.90	22.93	22.09	20.97	17.90
		1851.5	23.96	23.03	22.01	18.86	22.96	22.03	21.01	17.86
	1 RB low	1913.5	23.89	23.14	22.05	18.97	22.89	22.14	21.05	17.97
		1882.5	23.96	23.30	22.11	18.90	22.96	22.30	21.11	17.90
		1851.5	23.97	23.15	22.11	18.95	22.97	22.15	21.11	17.95
	50% RB mid	1913.5	22.96	22.04	20.91	18.90	21.96	21.04	19.91	17.90
		1882.5	23.06	22.08	21.04	18.95	22.06	21.08	20.04	17.95
		1851.5	22.96	21.96	21.10	18.86	21.96	20.96	20.10	17.86
	100% RB	1913.5	22.96	22.12	21.09	18.81	21.96	21.12	20.09	17.81
		1882.5	23.01	21.97	21.04	18.84	22.01	20.97	20.04	17.84
		1851.5	22.97	22.12	21.04	18.92	21.97	21.12	20.04	17.92
5MHz	1 RB high	1912.5	23.99	23.05	22.04	18.82	22.99	22.05	21.04	17.82
		1882.5	23.90	23.11	22.09	18.84	22.90	22.11	21.09	17.84
		1852.5	23.89	22.98	21.96	18.81	22.89	21.98	20.96	17.81
	1 RB low	1912.5	23.85	23.26	22.04	18.87	22.85	22.26	21.04	17.87
		1882.5	23.89	23.00	21.97	18.93	22.89	22.00	20.97	17.93
		1852.5	23.87	23.09	21.99	18.81	22.87	22.09	20.99	17.81
	50% RB mid	1912.5	22.96	22.11	21.04	18.84	21.96	21.11	20.04	17.84
		1882.5	23.08	22.11	21.07	18.96	22.08	21.11	20.07	17.96
		1852.5	23.05	22.00	20.94	18.94	22.05	21.00	19.94	17.94
	100% RB	1912.5	23.00	22.11	21.08	18.88	22.00	21.11	20.08	17.88
		1882.5	22.97	22.05	21.11	18.86	21.97	21.05	20.11	17.86
		1852.5	23.00	21.95	20.99	18.84	22.00	20.95	19.99	17.84
10MHz	1 RB high	1910	23.90	23.15	22.14	18.81	22.90	22.15	21.14	17.81
		1882.5	23.96	23.29	22.06	18.97	22.96	22.29	21.06	17.97
		1855	23.92	23.27	21.96	18.82	22.92	22.27	20.96	17.82
	1 RB low	1910	23.89	23.14	22.10	18.87	22.89	22.14	21.10	17.87

		1882.5	23.88	23.28	22.15	18.83	22.88	22.28	21.15	17.83
		1855	23.85	23.14	22.04	18.91	22.85	22.14	21.04	17.91
		1910	23.04	22.11	21.10	18.81	22.04	21.11	20.10	17.81
	50% RB mid	1882.5	23.06	22.08	20.96	18.86	22.06	21.08	19.96	17.86
		1855	23.07	22.08	21.10	18.88	22.07	21.08	20.10	17.88
	100% RB	1910	22.96	21.96	20.95	18.97	21.96	20.96	19.95	17.97
		1882.5	23.07	22.08	20.95	18.82	22.07	21.08	19.95	17.82
		1855	23.04	22.08	21.10	18.83	22.04	21.08	20.10	17.83
		1882.5	23.06	22.08	20.96	18.86	22.06	21.08	19.96	17.86
15MHz	1 RB high	1907.5	23.93	23.25	21.94	18.89	22.93	22.25	20.94	17.89
		1882.5	23.91	23.25	22.01	18.97	22.91	22.25	21.01	17.97
		1857.5	23.96	23.06	22.00	18.94	22.96	22.06	21.00	17.94
	1 RB low	1907.5	23.98	23.00	22.06	18.93	22.98	22.00	21.06	17.93
		1882.5	23.90	23.18	22.00	18.86	22.90	22.18	21.00	17.86
		1857.5	23.94	23.21	22.11	18.86	22.94	22.21	21.11	17.86
	50% RB mid	1907.5	22.97	21.96	20.94	18.88	21.97	20.96	19.94	17.88
		1882.5	23.03	21.95	21.03	18.94	22.03	20.95	20.03	17.94
		1857.5	22.98	22.06	21.10	18.87	21.98	21.06	20.10	17.87
	100% RB	1907.5	23.03	21.93	20.90	18.86	22.03	20.93	19.90	17.86
		1882.5	23.00	22.10	21.11	18.86	22.00	21.10	20.11	17.86
		1857.5	23.03	22.04	20.94	18.81	22.03	21.04	19.94	17.81
20MHz	1 RB high	1905	23.86	23.18	21.94	18.88	22.86	22.18	20.94	17.88
		1882.5	23.90	22.99	21.98	18.96	22.90	21.99	20.98	17.96
		1860	23.93	23.22	22.23	18.97	22.93	22.22	21.23	17.97
	1 RB low	1905	23.94	23.35	22.21	18.96	22.94	22.35	21.21	17.96
		1882.5	23.91	23.17	22.01	18.84	22.91	22.17	21.01	17.84
		1860	23.85	23.29	22.15	18.84	22.85	22.29	21.15	17.84
	50% RB mid	1905	22.99	22.06	21.06	18.91	21.99	21.06	20.06	17.91
		1882.5	22.99	22.02	20.97	18.88	21.99	21.02	19.97	17.88
		1860	23.07	22.11	21.08	18.95	22.07	21.11	20.08	17.95
	100% RB	1905	22.98	22.00	20.93	18.86	21.98	21.00	19.93	17.86
		1882.5	23.01	22.02	21.00	18.82	22.01	21.02	20.00	17.82
		1860	23.08	22.13	21.11	18.89	22.08	21.13	20.11	17.89

LTE Band25 ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-3.13)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1914.3	23.86	23.46	22.04	19.63	20.73	20.33	18.91	16.50
		1882.5	23.93	23.42	22.05	19.81	20.80	20.29	18.92	16.68
		1850.7	24.01	23.18	22.05	19.71	20.88	20.05	18.92	16.58
	1 RB low	1914.3	23.86	23.25	22.08	19.65	20.73	20.12	18.95	16.52
		1882.5	23.93	23.37	22.01	19.64	20.80	20.24	18.88	16.51
		1850.7	23.96	23.40	21.95	19.63	20.83	20.27	18.82	16.50
	50% RB mid	1914.3	24.02	22.94	21.90	19.58	20.89	19.81	18.77	16.45
		1882.5	24.02	23.19	21.97	19.73	20.89	20.06	18.84	16.60
		1850.7	24.00	23.05	22.03	19.58	20.87	19.92	18.90	16.45
	100% RB	1914.3	22.97	22.00	21.02	19.58	19.84	18.87	17.89	16.45
		1882.5	23.00	22.06	20.97	19.74	19.87	18.93	17.84	16.61
		1850.7	22.99	22.02	20.99	19.67	19.86	18.89	17.86	16.54
3MHz	1 RB high	1913.5	23.86	23.30	22.02	19.57	20.73	20.17	18.89	16.44
		1882.5	23.88	23.35	22.12	19.66	20.75	20.22	18.99	16.53
		1851.5	23.83	23.39	21.99	19.65	20.70	20.26	18.86	16.52
	1 RB low	1913.5	23.84	23.13	22.04	19.65	20.71	20.00	18.91	16.52
		1882.5	23.90	23.16	22.10	19.61	20.77	20.03	18.97	16.48
		1851.5	23.89	23.29	22.05	19.61	20.76	20.16	18.92	16.48
	50% RB mid	1913.5	22.97	22.13	21.06	19.79	19.84	19.00	17.93	16.66
		1882.5	23.03	22.10	21.14	19.80	19.90	18.97	18.01	16.67
		1851.5	23.02	22.16	21.09	19.82	19.89	19.03	17.96	16.69
	100% RB	1913.5	23.05	22.02	21.06	19.76	19.92	18.89	17.93	16.63
		1882.5	23.01	22.08	21.04	19.73	19.88	18.95	17.91	16.60
		1851.5	23.13	22.07	21.09	19.58	20.00	18.94	17.96	16.45
5MHz	1 RB high	1912.5	23.96	23.31	22.05	19.56	20.83	20.18	18.92	16.43
		1882.5	24.01	23.37	22.04	19.83	20.88	20.24	18.91	16.70
		1852.5	23.95	23.39	21.99	19.59	20.82	20.26	18.86	16.46
	1 RB low	1912.5	23.86	23.37	21.96	19.71	20.73	20.24	18.83	16.58
		1882.5	23.94	23.21	22.12	19.57	20.81	20.08	18.99	16.44
		1852.5	23.89	23.23	22.15	19.80	20.76	20.10	19.02	16.67
	50% RB mid	1912.5	23.04	22.03	21.05	19.83	19.91	18.90	17.92	16.70
		1882.5	23.09	22.14	21.11	19.78	19.96	19.01	17.98	16.65
		1852.5	23.14	22.11	21.09	19.80	20.01	18.98	17.96	16.67
	100% RB	1912.5	23.01	22.06	21.00	19.78	19.88	18.93	17.87	16.65
		1882.5	22.97	22.04	20.99	19.75	19.84	18.91	17.86	16.62
		1852.5	23.02	22.07	21.05	19.58	19.89	18.94	17.92	16.45
10MHz	1 RB high	1910	24.02	23.33	22.14	19.59	20.89	20.20	19.01	16.46
		1882.5	23.94	23.31	22.23	19.69	20.81	20.18	19.10	16.56
		1855	23.92	23.27	22.12	19.74	20.79	20.14	18.99	16.61
	1 RB low	1910	23.90	23.29	21.98	19.63	20.77	20.16	18.85	16.50

			1882.5	24.07	23.13	22.21	19.59	20.94	20.00	19.08	16.46
			1855	23.93	23.36	22.02	19.58	20.80	20.23	18.89	16.45
		50% RB mid	1910	23.15	22.03	21.07	19.83	20.02	18.90	17.94	16.70
			1882.5	23.09	22.03	21.06	19.55	19.96	18.90	17.93	16.42
			1855	23.02	22.06	21.06	19.70	19.89	18.93	17.93	16.57
		100% RB	1910	23.04	22.07	20.99	19.60	19.91	18.94	17.86	16.47
			1882.5	22.94	21.97	20.96	19.77	19.81	18.84	17.83	16.64
			1855	23.06	22.07	21.03	19.64	19.93	18.94	17.90	16.51
		15MHz	1 RB high	1907.5	23.69	23.03	21.86	19.60	20.56	19.90	18.73
1882.5	23.91			22.95	21.87	19.65	20.78	19.82	18.74	16.52	
1857.5	23.82			23.01	22.23	19.56	20.69	19.88	19.10	16.43	
1 RB low	1907.5		23.94	23.18	22.23	19.83	20.81	20.05	19.10	16.70	
	1882.5		23.77	23.01	21.95	19.54	20.64	19.88	18.82	16.41	
	1857.5		23.76	22.87	21.84	19.68	20.63	19.74	18.71	16.55	
50% RB mid	1907.5		22.94	21.89	20.93	19.55	19.81	18.76	17.80	16.42	
	1882.5		22.93	21.88	20.99	19.70	19.80	18.75	17.86	16.57	
	1857.5		22.88	21.93	20.97	19.80	19.75	18.80	17.84	16.67	
100% RB	1907.5		22.89	21.93	20.97	19.70	19.76	18.80	17.84	16.57	
	1882.5		22.87	21.78	20.90	19.54	19.74	18.65	17.77	16.41	
	1857.5		22.92	21.97	20.88	19.75	19.79	18.84	17.75	16.62	
20MHz	1 RB high	1905	23.74	23.08	21.83	19.72	20.61	19.95	18.70	16.59	
		1882.5	23.89	23.16	22.04	19.65	20.76	20.03	18.91	16.52	
		1860	23.78	23.42	22.10	19.55	20.65	20.29	18.97	16.42	
	1 RB low	1905	23.82	23.11	21.91	19.68	20.69	19.98	18.78	16.55	
		1882.5	23.86	23.53	21.87	19.55	20.73	20.40	18.74	16.42	
		1860	23.76	23.01	21.99	19.77	20.63	19.88	18.86	16.64	
	50% RB mid	1905	22.98	22.01	20.93	19.59	19.85	18.88	17.80	16.46	
		1882.5	22.85	21.92	20.88	19.59	19.72	18.79	17.75	16.46	
		1860	22.92	22.00	20.98	19.76	19.79	18.87	17.85	16.63	
	100% RB	1905	22.96	21.82	20.93	19.62	19.83	18.69	17.80	16.49	
		1882.5	22.91	21.87	20.85	19.56	19.78	18.74	17.72	16.43	
		1860	22.90	21.97	20.97	19.73	19.77	18.84	17.84	16.60	

LTE Band26_Part22 ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-1.8)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	848.3	23.83	23.00	21.97	19.01	19.88	19.05	18.02	15.06
		836.5	23.90	23.00	22.18	19.10	19.95	19.05	18.23	15.15
		824.7	23.96	22.98	22.07	19.13	20.01	19.03	18.12	15.18
	1 RB low	848.3	23.84	22.96	21.98	19.06	19.89	19.01	18.03	15.11
		836.5	23.92	23.07	22.10	19.17	19.97	19.12	18.15	15.22
		824.7	23.86	22.99	22.16	19.12	19.91	19.04	18.21	15.17
	50% RB mid	848.3	23.83	22.97	21.96	19.03	19.88	19.02	18.01	15.08
		836.5	23.91	23.09	22.07	19.20	19.96	19.14	18.12	15.25
		824.7	23.93	23.08	22.11	19.18	19.98	19.13	18.16	15.23
	100% RB	848.3	22.83	21.85	20.94	18.93	18.88	17.90	16.99	14.98
		836.5	22.94	22.02	21.03	18.97	18.99	18.07	17.08	15.02
		824.7	22.95	22.02	21.06	19.04	19.00	18.07	17.11	15.09
3MHz	1 RB high	847.5	23.87	22.91	22.20	19.10	19.92	18.96	18.25	15.15
		836.5	23.90	23.00	22.17	19.10	19.95	19.05	18.22	15.15
		825.5	23.97	22.97	22.26	19.21	20.02	19.02	18.31	15.26
	1 RB low	847.5	23.89	23.00	22.05	19.11	19.94	19.05	18.10	15.16
		836.5	23.94	23.07	22.00	19.04	19.99	19.12	18.05	15.09
		825.5	23.92	23.05	22.18	19.13	19.97	19.10	18.23	15.18
	50% RB mid	847.5	22.90	21.92	20.99	19.08	18.95	17.97	17.04	15.13
		836.5	22.97	22.00	21.09	19.13	19.02	18.05	17.14	15.18
		825.5	22.96	21.98	21.14	19.09	19.01	18.03	17.19	15.14
	100% RB	847.5	22.87	21.90	20.96	19.00	18.92	17.95	17.01	15.05
		836.5	22.94	21.98	21.08	19.11	18.99	18.03	17.13	15.16
		825.5	22.97	21.93	21.09	19.09	19.02	17.98	17.14	15.14
5MHz	1 RB high	846.5	23.94	23.07	22.12	19.17	19.99	19.12	18.17	15.22
		836.5	23.97	23.16	22.18	19.26	20.02	19.21	18.23	15.31
		826.5	24.03	23.19	22.15	19.20	20.08	19.24	18.20	15.25
	1 RB low	846.5	23.97	23.05	22.11	19.13	20.02	19.10	18.16	15.18
		836.5	23.98	23.16	22.29	19.25	20.03	19.21	18.34	15.30
		826.5	23.98	23.11	22.18	19.07	20.03	19.16	18.23	15.12
	50% RB mid	846.5	22.90	21.96	21.05	19.07	18.95	18.01	17.10	15.12
		836.5	22.99	22.04	21.11	19.19	19.04	18.09	17.16	15.24
		826.5	22.99	22.06	21.15	19.15	19.04	18.11	17.20	15.20
	100% RB	846.5	22.90	21.91	21.01	19.03	18.95	17.96	17.06	15.08
		836.5	23.00	22.00	21.12	19.14	19.05	18.05	17.17	15.19
		826.5	23.00	21.99	21.13	19.14	19.05	18.04	17.18	15.19
10MHz	1 RB high	844	23.91	23.02	22.20	19.22	19.96	19.07	18.25	15.27
		836.5	23.92	22.99	22.31	19.31	19.97	19.04	18.36	15.36
		829	23.96	23.12	22.28	19.34	20.01	19.17	18.33	15.39
	1 RB low	844	23.97	23.11	22.14	19.24	20.02	19.16	18.19	15.29

		836.5	23.99	23.17	22.17	19.22	20.04	19.22	18.22	15.27
		829	23.94	23.09	22.07	19.13	19.99	19.14	18.12	15.18
	50% RB mid	844	22.94	21.89	21.10	19.16	18.99	17.94	17.15	15.21
		836.5	23.01	22.06	21.17	19.21	19.06	18.11	17.22	15.26
		829	23.05	22.05	21.20	19.26	19.10	18.10	17.25	15.31
	100% RB	844	22.90	21.88	21.05	19.10	18.95	17.93	17.10	15.15
		836.5	23.03	22.01	21.15	19.18	19.08	18.06	17.20	15.23
		829	23.04	22.06	21.15	19.23	19.09	18.11	17.20	15.28
	15MHz	1 RB high	841.5	23.62	22.81	21.94	18.93	19.67	18.86	17.99
836.5			23.65	22.84	21.95	19.06	19.70	18.89	18.00	15.11
831.5			23.62	22.81	22.03	19.10	19.67	18.86	18.08	15.15
1 RB low		841.5	23.73	22.96	21.99	19.00	19.78	19.01	18.04	15.05
		836.5	23.73	22.99	22.04	19.01	19.78	19.04	18.09	15.06
		831.5	23.69	22.81	21.97	18.89	19.74	18.86	18.02	14.94
50% RB mid		841.5	22.92	21.81	21.00	18.92	18.97	17.86	17.05	14.97
		836.5	22.94	21.95	21.02	19.03	18.99	18.00	17.07	15.08
		831.5	22.97	21.87	21.04	19.02	19.02	17.92	17.09	15.07
100% RB		841.5	22.86	21.86	20.95	18.98	18.91	17.91	17.00	15.03
		836.5	22.97	21.94	21.05	19.04	19.02	17.99	17.10	15.09
		831.5	22.92	21.93	20.98	19.01	18.97	17.98	17.03	15.06

LTE Band41 ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-0.56)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.40	25.63	24.77	21.71	24.84	25.07	24.21	21.15
		2593	25.44	25.81	24.75	21.65	24.88	25.25	24.19	21.09
		2498.5	25.35	25.89	24.82	21.71	24.79	25.33	24.26	21.15
	1 RB low	2687.5	25.39	25.81	24.76	21.57	24.83	25.25	24.20	21.01
		2593	25.40	25.89	24.77	21.58	24.84	25.33	24.21	21.02
		2498.5	25.46	25.93	24.87	21.60	24.90	25.37	24.31	21.04
	50% RB mid	2687.5	25.50	24.53	23.57	21.69	24.94	23.97	23.01	21.13
		2593	25.60	24.53	23.52	21.66	25.04	23.97	22.96	21.10
		2498.5	25.57	24.51	23.62	21.58	25.01	23.95	23.06	21.02
	100% RB	2687.5	25.50	24.55	23.46	21.71	24.94	23.99	22.90	21.15
		2593	25.53	24.64	23.59	21.70	24.97	24.08	23.03	21.14
		2498.5	25.57	24.55	23.45	21.71	25.01	23.99	22.89	21.15
10MHz	1 RB high	2685	25.40	25.84	24.80	21.72	24.84	25.28	24.24	21.16
		2593	25.35	25.72	24.84	21.61	24.79	25.16	24.28	21.05
		2501	25.50	25.97	24.83	21.59	24.94	25.41	24.27	21.03
	1 RB low	2685	25.44	25.79	24.86	21.59	24.88	25.23	24.30	21.03
		2593	25.50	25.84	24.82	21.66	24.94	25.28	24.26	21.10
		2501	25.48	25.84	24.80	21.64	24.92	25.28	24.24	21.08
	50% RB mid	2685	25.54	24.58	23.52	21.63	24.98	24.02	22.96	21.07
		2593	25.58	24.54	23.51	21.64	25.02	23.98	22.95	21.08
		2501	25.48	24.58	23.52	21.68	24.92	24.02	22.96	21.12
	100% RB	2685	25.57	24.57	23.50	21.62	25.01	24.01	22.94	21.06
		2593	25.48	24.61	23.60	21.58	24.92	24.05	23.04	21.02
		2501	25.52	24.63	23.59	21.63	24.96	24.07	23.03	21.07
15MHz	1 RB high	2682.5	25.38	25.64	24.80	21.60	24.82	25.08	24.24	21.04
		2593	25.45	25.76	24.82	21.63	24.89	25.20	24.26	21.07
		2503.5	25.34	25.61	24.84	21.62	24.78	25.05	24.28	21.06
	1 RB low	2682.5	25.36	25.86	24.76	21.58	24.80	25.30	24.20	21.02
		2593	25.48	25.67	24.76	21.58	24.92	25.11	24.20	21.02
		2503.5	25.39	25.92	24.84	21.64	24.83	25.36	24.28	21.08
	50% RB mid	2682.5	25.48	24.57	23.58	21.67	24.92	24.01	23.02	21.11
		2593	25.51	24.59	23.47	21.72	24.95	24.03	22.91	21.16
		2503.5	25.59	24.64	23.61	21.57	25.03	24.08	23.05	21.01
	100% RB	2682.5	25.51	24.59	23.47	21.64	24.95	24.03	22.91	21.08
		2593	25.58	24.64	23.55	21.57	25.02	24.08	22.99	21.01
		2503.5	25.54	24.59	23.56	21.59	24.98	24.03	23.00	21.03
20MHz	1 RB high	2680	25.34	25.61	24.79	21.58	24.78	25.05	24.23	21.02
		2593	25.46	25.70	24.78	21.59	24.90	25.14	24.22	21.03
		2506	25.29	25.75	24.79	21.72	24.73	25.19	24.23	21.16
	1 RB low	2680	25.44	25.74	24.72	21.64	24.88	25.18	24.16	21.08

		2593	25.46	25.84	24.86	21.65	24.90	25.28	24.30	21.09
		2506	25.42	25.77	24.71	21.68	24.86	25.21	24.15	21.12
	50% RB mid	2680	25.45	24.52	23.50	21.70	24.89	23.96	22.94	21.14
		2593	25.66	24.62	23.62	21.64	25.10	24.06	23.06	21.08
		2506	25.57	24.52	23.58	21.72	25.01	23.96	23.02	21.16
	100% RB	2680	25.48	24.44	23.45	21.72	24.92	23.88	22.89	21.16
		2593	25.62	24.62	23.58	21.57	25.06	24.06	23.02	21.01
		2506	25.55	24.54	23.53	21.66	24.99	23.98	22.97	21.10

LTE Band41 ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-0.9)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	25.32	25.96	24.82	21.44	24.42	25.06	23.92	20.54
		2593	25.36	25.79	24.69	21.40	24.46	24.89	23.79	20.50
		2498.5	25.32	25.66	24.35	21.52	24.42	24.76	23.45	20.62
	1 RB low	2687.5	25.54	25.87	24.56	21.43	24.64	24.97	23.66	20.53
		2593	25.32	25.65	24.77	21.40	24.42	24.75	23.87	20.50
		2498.5	25.14	25.42	24.27	21.42	24.24	24.52	23.37	20.52
	50% RB mid	2687.5	25.43	24.48	23.50	21.38	24.53	23.58	22.60	20.48
		2593	25.54	24.51	23.50	21.47	24.64	23.61	22.60	20.57
		2498.5	25.45	24.43	23.44	21.41	24.55	23.53	22.54	20.51
	100% RB	2687.5	25.50	24.48	23.45	21.41	24.60	23.58	22.55	20.51
		2593	25.50	24.49	23.49	21.43	24.60	23.59	22.59	20.53
		2498.5	25.41	24.45	23.39	21.39	24.51	23.55	22.49	20.49
10MHz	1 RB high	2685	25.52	25.94	24.78	21.51	24.62	25.04	23.88	20.61
		2593	25.48	25.73	24.73	21.40	24.58	24.83	23.83	20.50
		2501	25.53	25.78	24.79	21.47	24.63	24.88	23.89	20.57
	1 RB low	2685	25.49	25.64	24.70	21.48	24.59	24.74	23.80	20.58
		2593	25.43	25.93	24.66	21.46	24.53	25.03	23.76	20.56
		2501	25.42	25.90	24.70	21.51	24.52	25.00	23.80	20.61
	50% RB mid	2685	25.40	24.50	23.40	21.38	24.50	23.60	22.50	20.48
		2593	25.43	24.55	23.30	21.50	24.53	23.65	22.40	20.60
		2501	25.47	24.56	23.38	21.49	24.57	23.66	22.48	20.59
	100% RB	2685	25.38	24.61	23.35	21.40	24.48	23.71	22.45	20.50
		2593	25.45	24.59	23.31	21.50	24.55	23.69	22.41	20.60
		2501	25.32	24.51	23.34	21.42	24.42	23.61	22.44	20.52
15MHz	1 RB high	2682.5	25.52	25.75	24.74	21.48	24.62	24.85	23.84	20.58
		2593	25.35	25.85	24.65	21.50	24.45	24.95	23.75	20.60
		2503.5	25.32	25.89	24.58	21.38	24.42	24.99	23.68	20.48
	1 RB low	2682.5	25.33	25.61	24.59	21.45	24.43	24.71	23.69	20.55
		2593	25.44	25.93	24.68	21.47	24.54	25.03	23.78	20.57
		2503.5	25.37	25.95	24.59	21.47	24.47	25.05	23.69	20.57
	50% RB mid	2682.5	25.34	24.55	23.48	21.38	24.44	23.65	22.58	20.48
		2593	25.52	24.51	23.34	21.45	24.62	23.61	22.44	20.55
		2503.5	25.45	24.56	23.35	21.43	24.55	23.66	22.45	20.53
	100% RB	2682.5	25.35	24.51	23.31	21.39	24.45	23.61	22.41	20.49
		2593	25.44	24.57	23.53	21.44	24.54	23.67	22.63	20.54
		2503.5	25.50	24.54	23.54	21.51	24.60	23.64	22.64	20.61
20MHz	1 RB high	2680	25.32	25.96	24.82	21.47	24.42	25.06	23.92	20.57
		2593	25.36	25.79	24.69	21.39	24.46	24.89	23.79	20.49
		2506	25.32	25.66	24.35	21.47	24.42	24.76	23.45	20.57
	1 RB low	2680	25.54	25.87	24.56	21.51	24.64	24.97	23.66	20.61

		2593	25.32	25.65	24.77	21.50	24.42	24.75	23.87	20.60
		2506	25.34	25.42	24.27	21.45	24.44	24.52	23.37	20.55
	50% RB mid	2680	25.43	24.48	23.50	21.40	24.53	23.58	22.60	20.50
		2593	25.64	24.51	23.50	21.47	24.74	23.61	22.60	20.57
		2506	25.45	24.43	23.44	21.42	24.55	23.53	22.54	20.52
	100% RB	2680	25.50	24.48	23.45	21.41	24.60	23.58	22.55	20.51
		2593	25.50	24.49	23.49	21.47	24.60	23.59	22.59	20.57
		2506	25.41	24.45	23.39	21.38	24.51	23.55	22.49	20.48

LTE Band48 ANT4

Bandwidth	Frequency (MHz)	Modulation	RB Allocation	Conducted Power (dBm/10MHz)	EIRP (dBm/10MHz)(Gt-Lc =-2.84)	Margin
5MHz	3552.5	QPSK	1 RB low	25.15	22.31	0.69
5MHz	3552.5	QPSK	1 RB high	25.14	22.3	0.7
5MHz	3552.5	QPSK	100% RB	24.05	21.21	1.79
5MHz	3552.5	16QAM	1 RB low	24.44	21.6	1.4
5MHz	3552.5	16QAM	1 RB high	24.29	21.45	1.55
5MHz	3552.5	16QAM	100% RB	23.01	20.17	2.83
5MHz	3552.5	64QAM	1 RB low	23.39	20.55	2.45
5MHz	3552.5	64QAM	1 RB high	23.43	20.59	2.41
5MHz	3552.5	64QAM	100% RB	21.97	19.13	3.87
5MHz	3552.5	256QAM	1 RB low	20.22	17.38	5.62
5MHz	3552.5	256QAM	1 RB high	20.39	17.55	5.45
5MHz	3552.5	256QAM	100% RB	19.95	17.11	5.89
5MHz	3625	QPSK	1 RB low	25.18	22.34	0.66
5MHz	3625	QPSK	1 RB high	25.20	22.36	0.64
5MHz	3625	QPSK	100% RB	24.08	21.24	1.76
5MHz	3625	16QAM	1 RB low	24.32	21.48	1.52
5MHz	3625	16QAM	1 RB high	24.26	21.42	1.58
5MHz	3625	16QAM	100% RB	23.07	20.23	2.77
5MHz	3625	64QAM	1 RB low	23.47	20.63	2.37
5MHz	3625	64QAM	1 RB high	23.34	20.5	2.5
5MHz	3625	64QAM	100% RB	22.06	19.22	3.78
5MHz	3625	256QAM	1 RB low	20.46	17.62	5.38
5MHz	3625	256QAM	1 RB high	20.47	17.63	5.37
5MHz	3625	256QAM	100% RB	20.02	17.18	5.82
5MHz	3697.5	QPSK	1 RB low	24.95	22.11	0.89
5MHz	3697.5	QPSK	1 RB high	24.86	22.02	0.98
5MHz	3697.5	QPSK	100% RB	23.74	20.9	2.1
5MHz	3697.5	16QAM	1 RB low	24.17	21.33	1.67
5MHz	3697.5	16QAM	1 RB high	23.95	21.11	1.89
5MHz	3697.5	16QAM	100% RB	22.78	19.94	3.06
5MHz	3697.5	64QAM	1 RB low	23.14	20.3	2.7
5MHz	3697.5	64QAM	1 RB high	23.01	20.17	2.83
5MHz	3697.5	64QAM	100% RB	21.75	18.91	4.09
5MHz	3697.5	256QAM	1 RB low	20.15	17.31	5.69
5MHz	3697.5	256QAM	1 RB high	20.17	17.33	5.67
5MHz	3697.5	256QAM	100% RB	19.76	16.92	6.08
10MHz	3555	QPSK	1 RB low	24.85	22.01	0.99
10MHz	3555	QPSK	1 RB high	24.81	21.97	1.03

10MHz	3555	QPSK	100% RB	23.18	20.34	2.66
10MHz	3555	16QAM	1 RB low	24.08	21.24	1.76
10MHz	3555	16QAM	1 RB high	24.03	21.19	1.81
10MHz	3555	16QAM	100% RB	22.17	19.33	3.67
10MHz	3555	64QAM	1 RB low	23.08	20.24	2.76
10MHz	3555	64QAM	1 RB high	23.05	20.21	2.79
10MHz	3555	64QAM	100% RB	21.16	18.32	4.68
10MHz	3555	256QAM	1 RB low	20.19	17.35	5.65
10MHz	3555	256QAM	1 RB high	20.08	17.24	5.76
10MHz	3555	256QAM	100% RB	19.11	16.27	6.73
10MHz	3625	QPSK	1 RB low	24.92	22.08	0.92
10MHz	3625	QPSK	1 RB high	24.92	22.08	0.92
10MHz	3625	QPSK	100% RB	23.24	20.4	2.6
10MHz	3625	16QAM	1 RB low	24.21	21.37	1.63
10MHz	3625	16QAM	1 RB high	24.17	21.33	1.67
10MHz	3625	16QAM	100% RB	22.24	19.4	3.6
10MHz	3625	64QAM	1 RB low	23.17	20.33	2.67
10MHz	3625	64QAM	1 RB high	23.22	20.38	2.62
10MHz	3625	64QAM	100% RB	21.26	18.42	4.58
10MHz	3625	256QAM	1 RB low	20.18	17.34	5.66
10MHz	3625	256QAM	1 RB high	20.41	17.57	5.43
10MHz	3625	256QAM	100% RB	19.32	16.48	6.52
10MHz	3695	QPSK	1 RB low	24.91	22.07	0.93
10MHz	3695	QPSK	1 RB high	24.71	21.87	1.13
10MHz	3695	QPSK	100% RB	23.13	20.29	2.71
10MHz	3695	16QAM	1 RB low	24.25	21.41	1.59
10MHz	3695	16QAM	1 RB high	23.99	21.15	1.85
10MHz	3695	16QAM	100% RB	22.14	19.3	3.7
10MHz	3695	64QAM	1 RB low	23.12	20.28	2.72
10MHz	3695	64QAM	1 RB high	22.99	20.15	2.85
10MHz	3695	64QAM	100% RB	21.17	18.33	4.67
10MHz	3695	256QAM	1 RB low	20.21	17.37	5.63
10MHz	3695	256QAM	1 RB high	20.07	17.23	5.77
10MHz	3695	256QAM	100% RB	19.18	16.34	6.66
15MHz	3557.5	QPSK	1 RB low	24.57	21.73	1.27
15MHz	3557.5	QPSK	1 RB high	24.70	21.86	1.14
15MHz	3557.5	QPSK	100% RB	22.10	19.26	3.74
15MHz	3557.5	16QAM	1 RB low	23.70	20.86	2.14
15MHz	3557.5	16QAM	1 RB high	23.75	20.91	2.09
15MHz	3557.5	16QAM	100% RB	21.14	18.3	4.7
15MHz	3557.5	64QAM	1 RB low	22.84	20	3
15MHz	3557.5	64QAM	1 RB high	22.91	20.07	2.93
15MHz	3557.5	64QAM	100% RB	20.13	17.29	5.71

15MHz	3557.5	256QAM	1 RB low	19.97	17.13	5.87
15MHz	3557.5	256QAM	1 RB high	19.98	17.14	5.86
15MHz	3557.5	256QAM	100% RB	18.17	15.33	7.67
15MHz	3625	QPSK	1 RB low	24.59	21.75	1.25
15MHz	3625	QPSK	1 RB high	24.63	21.79	1.21
15MHz	3625	QPSK	100% RB	22.26	19.42	3.58
15MHz	3625	16QAM	1 RB low	23.87	21.03	1.97
15MHz	3625	16QAM	1 RB high	23.93	21.09	1.91
15MHz	3625	16QAM	100% RB	21.25	18.41	4.59
15MHz	3625	64QAM	1 RB low	22.92	20.08	2.92
15MHz	3625	64QAM	1 RB high	22.90	20.06	2.94
15MHz	3625	64QAM	100% RB	20.24	17.4	5.6
15MHz	3625	256QAM	1 RB low	19.82	16.98	6.02
15MHz	3625	256QAM	1 RB high	20.07	17.23	5.77
15MHz	3625	256QAM	100% RB	18.35	15.51	7.49
15MHz	3692.5	QPSK	1 RB low	24.58	21.74	1.26
15MHz	3692.5	QPSK	1 RB high	24.48	21.64	1.36
15MHz	3692.5	QPSK	100% RB	22.19	19.35	3.65
15MHz	3692.5	16QAM	1 RB low	23.85	21.01	1.99
15MHz	3692.5	16QAM	1 RB high	23.75	20.91	2.09
15MHz	3692.5	16QAM	100% RB	21.20	18.36	4.64
15MHz	3692.5	64QAM	1 RB low	22.83	19.99	3.01
15MHz	3692.5	64QAM	1 RB high	22.70	19.86	3.14
15MHz	3692.5	64QAM	100% RB	20.22	17.38	5.62
15MHz	3692.5	256QAM	1 RB low	20.00	17.16	5.84
15MHz	3692.5	256QAM	1 RB high	19.82	16.98	6.02
15MHz	3692.5	256QAM	100% RB	18.26	15.42	7.58
20MHz	3560	QPSK	1 RB low	24.59	21.75	1.25
20MHz	3560	QPSK	1 RB high	24.67	21.83	1.17
20MHz	3560	QPSK	100% RB	21.13	18.29	4.71
20MHz	3560	16QAM	1 RB low	23.79	20.95	2.05
20MHz	3560	16QAM	1 RB high	23.78	20.94	2.06
20MHz	3560	16QAM	100% RB	20.16	17.32	5.68
20MHz	3560	64QAM	1 RB low	22.71	19.87	3.13
20MHz	3560	64QAM	1 RB high	22.83	19.99	3.01
20MHz	3560	64QAM	100% RB	19.17	16.33	6.67
20MHz	3560	256QAM	1 RB low	19.76	16.92	6.08
20MHz	3560	256QAM	1 RB high	20.04	17.2	5.8
20MHz	3560	256QAM	100% RB	17.21	14.37	8.63
20MHz	3625	QPSK	1 RB low	24.71	21.87	1.13
20MHz	3625	QPSK	1 RB high	24.68	21.84	1.16
20MHz	3625	QPSK	100% RB	21.28	18.44	4.56
20MHz	3625	16QAM	1 RB low	23.80	20.96	2.04

20MHz	3625	16QAM	1 RB high	24.02	21.18	1.82
20MHz	3625	16QAM	100% RB	20.41	17.57	5.43
20MHz	3625	64QAM	1 RB low	22.89	20.05	2.95
20MHz	3625	64QAM	1 RB high	23.07	20.23	2.77
20MHz	3625	64QAM	100% RB	19.33	16.49	6.51
20MHz	3625	256QAM	1 RB low	19.85	17.01	5.99
20MHz	3625	256QAM	1 RB high	20.08	17.24	5.76
20MHz	3625	256QAM	100% RB	17.39	14.55	8.45
20MHz	3690	QPSK	1 RB low	24.77	21.93	1.07
20MHz	3690	QPSK	1 RB high	24.48	21.64	1.36
20MHz	3690	QPSK	100% RB	21.33	18.49	4.51
20MHz	3690	16QAM	1 RB low	23.75	20.91	2.09
20MHz	3690	16QAM	1 RB high	23.63	20.79	2.21
20MHz	3690	16QAM	100% RB	20.33	17.49	5.51
20MHz	3690	64QAM	1 RB low	22.96	20.12	2.88
20MHz	3690	64QAM	1 RB high	22.64	19.8	3.2
20MHz	3690	64QAM	100% RB	19.36	16.52	6.48
20MHz	3690	256QAM	1 RB low	19.95	17.11	5.89
20MHz	3690	256QAM	1 RB high	20.16	17.32	5.68
20MHz	3690	256QAM	100% RB	17.37	14.53	8.47

LTE Band48 ANT2

Bandwidth	Frequency (MHz)	Modulation	RB Allocation	Conducted Power (dBm/10MHz)	EIRP (dBm/10MHz)(Gt-Lc =-2.46)	Margin
5MHz	3552.5	QPSK	1 RB low	23.97	21.51	1.49
5MHz	3552.5	QPSK	1 RB high	23.90	21.44	1.56
5MHz	3552.5	QPSK	100% RB	22.82	20.36	2.64
5MHz	3552.5	16QAM	1 RB low	23.12	20.66	2.34
5MHz	3552.5	16QAM	1 RB high	23.14	20.68	2.32
5MHz	3552.5	16QAM	100% RB	21.74	19.28	3.72
5MHz	3552.5	64QAM	1 RB low	22.13	19.67	3.33
5MHz	3552.5	64QAM	1 RB high	22.17	19.71	3.29
5MHz	3552.5	64QAM	100% RB	20.77	18.31	4.69
5MHz	3552.5	256QAM	1 RB low	19.20	16.74	6.26
5MHz	3552.5	256QAM	1 RB high	19.09	16.63	6.37
5MHz	3552.5	256QAM	100% RB	18.77	16.31	6.69
5MHz	3625	QPSK	1 RB low	24.13	21.67	1.33
5MHz	3625	QPSK	1 RB high	24.09	21.63	1.37
5MHz	3625	QPSK	100% RB	22.93	20.47	2.53
5MHz	3625	16QAM	1 RB low	23.23	20.77	2.23
5MHz	3625	16QAM	1 RB high	23.25	20.79	2.21
5MHz	3625	16QAM	100% RB	22.06	19.60	3.40
5MHz	3625	64QAM	1 RB low	22.30	19.84	3.16
5MHz	3625	64QAM	1 RB high	22.43	19.97	3.03
5MHz	3625	64QAM	100% RB	20.96	18.50	4.50
5MHz	3625	256QAM	1 RB low	19.42	16.96	6.04
5MHz	3625	256QAM	1 RB high	19.42	16.96	6.04
5MHz	3625	256QAM	100% RB	18.97	16.51	6.49
5MHz	3697.5	QPSK	1 RB low	23.90	21.44	1.56
5MHz	3697.5	QPSK	1 RB high	23.90	21.44	1.56
5MHz	3697.5	QPSK	100% RB	22.76	20.30	2.70
5MHz	3697.5	16QAM	1 RB low	23.03	20.57	2.43
5MHz	3697.5	16QAM	1 RB high	23.02	20.56	2.44
5MHz	3697.5	16QAM	100% RB	21.78	19.32	3.68
5MHz	3697.5	64QAM	1 RB low	22.08	19.62	3.38
5MHz	3697.5	64QAM	1 RB high	22.13	19.67	3.33
5MHz	3697.5	64QAM	100% RB	20.79	18.33	4.67
5MHz	3697.5	256QAM	1 RB low	19.16	16.70	6.30
5MHz	3697.5	256QAM	1 RB high	19.09	16.63	6.37
5MHz	3697.5	256QAM	100% RB	18.76	16.30	6.70
10MHz	3555	QPSK	1 RB low	23.67	21.21	1.79
10MHz	3555	QPSK	1 RB high	23.65	21.19	1.81

10MHz	3555	QPSK	100% RB	22.00	19.54	3.46
10MHz	3555	16QAM	1 RB low	23.09	20.63	2.37
10MHz	3555	16QAM	1 RB high	22.85	20.39	2.61
10MHz	3555	16QAM	100% RB	21.00	18.54	4.46
10MHz	3555	64QAM	1 RB low	22.07	19.61	3.39
10MHz	3555	64QAM	1 RB high	21.98	19.52	3.48
10MHz	3555	64QAM	100% RB	20.00	17.54	5.46
10MHz	3555	256QAM	1 RB low	18.97	16.51	6.49
10MHz	3555	256QAM	1 RB high	18.93	16.47	6.53
10MHz	3555	256QAM	100% RB	18.06	15.60	7.40
10MHz	3625	QPSK	1 RB low	23.82	21.36	1.64
10MHz	3625	QPSK	1 RB high	23.96	21.50	1.50
10MHz	3625	QPSK	100% RB	22.21	19.75	3.25
10MHz	3625	16QAM	1 RB low	23.04	20.58	2.42
10MHz	3625	16QAM	1 RB high	23.26	20.80	2.20
10MHz	3625	16QAM	100% RB	21.22	18.76	4.24
10MHz	3625	64QAM	1 RB low	22.19	19.73	3.27
10MHz	3625	64QAM	1 RB high	22.32	19.86	3.14
10MHz	3625	64QAM	100% RB	20.23	17.77	5.23
10MHz	3625	256QAM	1 RB low	19.06	16.60	6.40
10MHz	3625	256QAM	1 RB high	19.27	16.81	6.19
10MHz	3625	256QAM	100% RB	18.30	15.84	7.16
10MHz	3695	QPSK	1 RB low	23.85	21.39	1.61
10MHz	3695	QPSK	1 RB high	23.82	21.36	1.64
10MHz	3695	QPSK	100% RB	22.16	19.70	3.30
10MHz	3695	16QAM	1 RB low	23.06	20.60	2.40
10MHz	3695	16QAM	1 RB high	23.16	20.70	2.30
10MHz	3695	16QAM	100% RB	21.19	18.73	4.27
10MHz	3695	64QAM	1 RB low	22.10	19.64	3.36
10MHz	3695	64QAM	1 RB high	22.14	19.68	3.32
10MHz	3695	64QAM	100% RB	20.09	17.63	5.37
10MHz	3695	256QAM	1 RB low	19.07	16.61	6.39
10MHz	3695	256QAM	1 RB high	19.16	16.70	6.30
10MHz	3695	256QAM	100% RB	18.15	15.69	7.31
15MHz	3557.5	QPSK	1 RB low	23.51	21.05	1.95
15MHz	3557.5	QPSK	1 RB high	23.57	21.11	1.89
15MHz	3557.5	QPSK	100% RB	20.97	18.51	4.49
15MHz	3557.5	16QAM	1 RB low	22.76	20.30	2.70
15MHz	3557.5	16QAM	1 RB high	22.65	20.19	2.81
15MHz	3557.5	16QAM	100% RB	20.00	17.54	5.46
15MHz	3557.5	64QAM	1 RB low	21.84	19.38	3.62
15MHz	3557.5	64QAM	1 RB high	21.76	19.30	3.70
15MHz	3557.5	64QAM	100% RB	18.93	16.47	6.53

15MHz	3557.5	256QAM	1 RB low	18.76	16.30	6.70
15MHz	3557.5	256QAM	1 RB high	18.83	16.37	6.63
15MHz	3557.5	256QAM	100% RB	17.07	14.61	8.39
15MHz	3625	QPSK	1 RB low	23.64	21.18	1.82
15MHz	3625	QPSK	1 RB high	23.68	21.22	1.78
15MHz	3625	QPSK	100% RB	21.27	18.81	4.19
15MHz	3625	16QAM	1 RB low	22.78	20.32	2.68
15MHz	3625	16QAM	1 RB high	22.87	20.41	2.59
15MHz	3625	16QAM	100% RB	20.24	17.78	5.22
15MHz	3625	64QAM	1 RB low	21.84	19.38	3.62
15MHz	3625	64QAM	1 RB high	21.96	19.50	3.50
15MHz	3625	64QAM	100% RB	19.25	16.79	6.21
15MHz	3625	256QAM	1 RB low	18.79	16.33	6.67
15MHz	3625	256QAM	1 RB high	19.02	16.56	6.44
15MHz	3625	256QAM	100% RB	17.29	14.83	8.17
15MHz	3692.5	QPSK	1 RB low	23.50	21.04	1.96
15MHz	3692.5	QPSK	1 RB high	23.55	21.09	1.91
15MHz	3692.5	QPSK	100% RB	21.18	18.72	4.28
15MHz	3692.5	16QAM	1 RB low	22.91	20.45	2.55
15MHz	3692.5	16QAM	1 RB high	22.85	20.39	2.61
15MHz	3692.5	16QAM	100% RB	20.21	17.75	5.25
15MHz	3692.5	64QAM	1 RB low	21.80	19.34	3.66
15MHz	3692.5	64QAM	1 RB high	21.78	19.32	3.68
15MHz	3692.5	64QAM	100% RB	19.19	16.73	6.27
15MHz	3692.5	256QAM	1 RB low	18.80	16.34	6.66
15MHz	3692.5	256QAM	1 RB high	18.82	16.36	6.64
15MHz	3692.5	256QAM	100% RB	17.25	14.79	8.21
20MHz	3560	QPSK	1 RB low	23.34	20.88	2.12
20MHz	3560	QPSK	1 RB high	23.74	21.28	1.72
20MHz	3560	QPSK	100% RB	20.02	17.56	5.44
20MHz	3560	16QAM	1 RB low	22.69	20.23	2.77
20MHz	3560	16QAM	1 RB high	22.67	20.21	2.79
20MHz	3560	16QAM	100% RB	19.06	16.60	6.40
20MHz	3560	64QAM	1 RB low	21.72	19.26	3.74
20MHz	3560	64QAM	1 RB high	21.83	19.37	3.63
20MHz	3560	64QAM	100% RB	18.05	15.59	7.41
20MHz	3560	256QAM	1 RB low	18.55	16.09	6.91
20MHz	3560	256QAM	1 RB high	18.85	16.39	6.61
20MHz	3560	256QAM	100% RB	16.06	13.60	9.40
20MHz	3625	QPSK	1 RB low	23.56	21.10	1.90
20MHz	3625	QPSK	1 RB high	23.77	21.31	1.69
20MHz	3625	QPSK	100% RB	20.38	17.92	5.08
20MHz	3625	16QAM	1 RB low	22.67	20.21	2.79

20MHz	3625	16QAM	1 RB high	23.11	20.65	2.35
20MHz	3625	16QAM	100% RB	19.30	16.84	6.16
20MHz	3625	64QAM	1 RB low	21.81	19.35	3.65
20MHz	3625	64QAM	1 RB high	22.07	19.61	3.39
20MHz	3625	64QAM	100% RB	18.31	15.85	7.15
20MHz	3625	256QAM	1 RB low	18.85	16.39	6.61
20MHz	3625	256QAM	1 RB high	19.10	16.64	6.36
20MHz	3625	256QAM	100% RB	16.38	13.92	9.08
20MHz	3690	QPSK	1 RB low	23.50	21.04	1.96
20MHz	3690	QPSK	1 RB high	23.46	21.00	2.00
20MHz	3690	QPSK	100% RB	20.27	17.81	5.19
20MHz	3690	16QAM	1 RB low	22.53	20.07	2.93
20MHz	3690	16QAM	1 RB high	22.85	20.39	2.61
20MHz	3690	16QAM	100% RB	19.28	16.82	6.18
20MHz	3690	64QAM	1 RB low	21.68	19.22	3.78
20MHz	3690	64QAM	1 RB high	21.81	19.35	3.65
20MHz	3690	64QAM	100% RB	18.28	15.82	7.18
20MHz	3690	256QAM	1 RB low	18.75	16.29	6.71
20MHz	3690	256QAM	1 RB high	18.88	16.42	6.58
20MHz	3690	256QAM	100% RB	16.35	13.89	9.11

LTE Band48 ANT4

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-2.84)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.99	23.16	22.11	19.07	21.15	20.32	19.27	16.23
		3625	24.11	23.21	21.99	19.01	21.27	20.37	19.15	16.17
		3552.5	23.96	23.05	21.98	19.10	21.12	20.21	19.14	16.26
	1 RB low	3697.5	24.13	22.91	21.99	19.17	21.29	20.07	19.15	16.33
		3625	24.11	23.19	22.04	19.10	21.27	20.35	19.20	16.26
		3552.5	24.01	22.99	21.88	18.87	21.17	20.15	19.04	16.03
	50% RB mid	3697.5	23.07	22.15	21.31	19.26	20.23	19.31	18.47	16.42
		3625	23.12	22.25	21.17	19.17	20.28	19.41	18.33	16.33
		3552.5	23.12	22.24	20.95	18.86	20.28	19.40	18.11	16.02
	100% RB	3697.5	23.25	22.21	21.30	18.99	20.41	19.37	18.46	16.15
		3625	23.14	22.08	21.26	19.08	20.30	19.24	18.42	16.24
		3552.5	23.21	22.07	21.00	19.06	20.37	19.23	18.16	16.22
10MHz	1 RB high	3695	24.18	23.14	22.18	19.09	21.34	20.30	19.34	16.25
		3625	24.17	23.11	22.04	19.15	21.33	20.27	19.20	16.31
		3555	23.90	22.99	21.86	19.21	21.06	20.15	19.02	16.37
	1 RB low	3695	24.03	23.09	21.99	19.15	21.19	20.25	19.15	16.31
		3625	24.05	23.24	22.07	19.05	21.21	20.40	19.23	16.21
		3555	23.91	22.98	21.94	19.04	21.07	20.14	19.10	16.20
	50% RB mid	3695	23.12	22.17	21.21	19.13	20.28	19.33	18.37	16.29
		3625	23.17	22.15	21.06	19.00	20.33	19.31	18.22	16.16
		3555	23.17	22.19	21.01	19.03	20.33	19.35	18.17	16.19
	100% RB	3695	23.26	22.12	21.23	18.88	20.42	19.28	18.39	16.04
		3625	23.20	22.17	21.09	19.03	20.36	19.33	18.25	16.19
		3555	23.12	22.01	21.06	19.16	20.28	19.17	18.22	16.32
15MHz	1 RB high	3692.5	24.00	23.11	22.17	19.14	21.16	20.27	19.33	16.30
		3625	24.18	23.11	22.03	19.09	21.34	20.27	19.19	16.25
		3557.5	23.92	23.15	21.97	19.05	21.08	20.31	19.13	16.21
	1 RB low	3692.5	24.08	23.01	21.99	19.12	21.24	20.17	19.15	16.28
		3625	24.12	23.22	22.00	19.06	21.28	20.38	19.16	16.22
		3557.5	23.95	22.91	21.82	18.92	21.11	20.07	18.98	16.08
	50% RB mid	3692.5	23.17	22.17	21.24	19.16	20.33	19.33	18.40	16.32
		3625	23.17	22.18	21.20	19.10	20.33	19.34	18.36	16.26
		3557.5	23.11	22.20	21.05	18.92	20.27	19.36	18.21	16.08
	100% RB	3692.5	23.21	22.12	21.27	18.97	20.37	19.28	18.43	16.13
		3625	23.08	22.13	21.19	19.03	20.24	19.29	18.35	16.19
		3557.5	23.12	22.05	21.08	19.14	20.28	19.21	18.24	16.30
20MHz	1 RB high	3690	24.09	23.14	22.08	19.11	21.25	20.30	19.24	16.27
		3625	24.19	23.21	22.04	19.09	21.35	20.37	19.20	16.25
		3560	23.94	23.05	21.91	19.13	21.10	20.21	19.07	16.29
	1 RB low	3690	24.11	23.10	22.01	19.13	21.27	20.26	19.17	16.29

		3625	24.04	23.19	22.09	19.00	21.20	20.35	19.25	16.16
		3560	23.96	23.00	21.86	18.97	21.12	20.16	19.02	16.13
	50% RB mid	3690	23.20	22.21	21.25	19.08	20.36	19.37	18.41	16.24
		3625	23.25	22.15	21.13	19.06	20.41	19.31	18.29	16.22
		3560	23.11	22.10	21.07	18.94	20.27	19.26	18.23	16.10
	100% RB	3690	23.20	22.20	21.21	18.90	20.36	19.36	18.37	16.06
		3625	23.10	22.13	21.11	19.01	20.26	19.29	18.27	16.17
		3560	23.07	22.06	21.09	19.20	20.23	19.22	18.25	16.36

LTE Band48 ANT2

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc ==2.46)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	3697.5	23.76	22.77	21.76	17.80	20.38	19.40	18.38	15.47
		3625	23.72	22.78	21.57	17.87	20.21	19.19	18.25	15.38
		3552.5	23.55	22.64	21.59	17.89	20.17	19.18	18.17	15.36
	1 RB low	3697.5	23.81	22.76	21.66	17.86	21.39	20.38	19.38	15.47
		3625	23.65	22.70	21.45	17.80	21.21	20.30	19.21	15.31
		3552.5	23.51	22.50	21.48	17.91	21.12	20.16	19.03	15.44
	50% RB mid	3697.5	22.88	21.87	20.92	17.84	21.34	20.36	19.33	15.44
		3625	22.78	21.78	20.76	17.93	21.21	20.31	19.23	15.47
		3552.5	22.67	21.64	20.68	17.87	21.15	20.19	19.09	15.46
	100% RB	3697.5	22.84	21.86	20.84	17.93	20.44	19.46	18.45	15.40
		3625	22.67	21.65	20.71	17.84	20.24	19.28	18.25	15.45
		3552.5	22.63	21.64	20.63	17.82	20.20	19.20	18.21	15.42
10MHz	1 RB high	3695	23.85	22.84	21.84	17.93	20.46	19.39	18.41	15.39
		3625	23.67	22.76	21.67	17.77	20.24	19.24	18.23	15.37
		3555	23.58	22.62	21.49	17.90	20.22	19.19	18.21	15.45
	1 RB low	3695	23.80	22.82	21.79	17.90	21.22	20.10	19.24	15.32
		3625	23.67	22.77	21.69	17.93	21.02	20.07	18.96	15.40
		3555	23.61	22.65	21.55	17.92	20.90	19.88	18.87	15.41
	50% RB mid	3695	22.90	21.92	20.91	17.86	21.26	20.29	19.17	15.39
		3625	22.70	21.74	20.71	17.91	21.04	20.08	18.93	15.35
		3555	22.66	21.66	20.67	17.88	20.94	19.95	18.80	15.35
	100% RB	3695	22.92	21.85	20.87	17.85	20.21	19.17	18.22	15.41
		3625	22.70	21.70	20.69	17.83	20.06	19.10	18.09	15.40
		3555	22.68	21.65	20.67	17.91	20.04	19.04	18.06	15.43
15MHz	1 RB high	3692.5	23.68	22.56	21.70	17.78	20.20	19.23	18.20	15.47
		3625	23.48	22.53	21.42	17.86	20.10	19.07	18.07	15.33
		3557.5	23.36	22.34	21.33	17.87	20.05	19.04	18.07	15.37
	1 RB low	3692.5	23.72	22.75	21.63	17.85	21.30	20.14	19.25	15.41
		3625	23.50	22.54	21.39	17.81	21.18	19.91	19.01	15.33
		3557.5	23.40	22.41	21.26	17.81	20.94	19.99	18.87	15.45
	50% RB mid	3692.5	22.67	21.63	20.68	17.87	21.20	20.17	19.17	15.43
		3625	22.52	21.56	20.55	17.86	21.03	20.13	18.92	15.46
		3557.5	22.50	21.50	20.52	17.89	20.90	19.88	18.86	15.43
	100% RB	3692.5	22.66	21.69	20.66	17.93	20.24	19.23	18.20	15.35
		3625	22.56	21.53	20.53	17.79	20.35	19.11	18.05	15.41
		3557.5	22.51	21.50	20.53	17.83	20.12	19.09	18.08	15.47
20MHz	1 RB high	3690	23.76	22.60	21.71	17.87	20.20	19.18	18.22	15.33
		3625	23.64	22.37	21.47	17.79	20.08	19.10	18.09	15.41
		3560	23.40	22.45	21.33	17.91	20.04	19.08	18.05	15.31
	1 RB low	3690	23.66	22.63	21.63	17.89	20.38	19.40	18.38	15.47

		3625	23.49	22.59	21.38	17.92	20.21	19.19	18.25	15.38
		3560	23.36	22.34	21.32	17.89	20.17	19.18	18.17	15.36
	50% RB mid	3690	22.70	21.69	20.66	17.81	21.39	20.38	19.38	15.47
		3625	22.81	21.57	20.51	17.87	21.21	20.30	19.21	15.31
		3560	22.58	21.55	20.54	17.93	21.12	20.16	19.03	15.44
	100% RB	3690	22.66	21.64	20.68	17.79	21.34	20.36	19.33	15.44
		3625	22.54	21.56	20.55	17.87	21.21	20.31	19.23	15.47
		3560	22.50	21.54	20.51	17.77	21.15	20.19	19.09	15.46

LTE Band66 ANT1

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-1.2)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.92	23.14	22.16	18.76	22.72	21.94	20.96	17.56
		1745	24.05	23.46	22.05	18.77	22.85	22.26	20.85	17.57
		1710.7	23.96	23.58	21.93	18.89	22.76	22.38	20.73	17.69
	1 RB low	1779.3	23.93	23.51	22.28	18.75	22.73	22.31	21.08	17.55
		1745	24.05	23.60	22.34	18.77	22.85	22.40	21.14	17.57
		1710.7	24.00	23.39	22.03	18.95	22.80	22.19	20.83	17.75
	50% RB mid	1779.3	24.05	23.09	22.06	18.91	22.85	21.89	20.86	17.71
		1745	24.07	23.03	22.09	18.83	22.87	21.83	20.89	17.63
		1710.7	24.02	23.12	22.17	18.74	22.82	21.92	20.97	17.54
	100% RB	1779.3	23.01	22.18	21.06	19.04	21.81	20.98	19.86	17.84
		1745	23.09	22.17	21.16	18.86	21.89	20.97	19.96	17.66
		1710.7	23.03	22.16	21.03	18.71	21.83	20.96	19.83	17.51
3MHz	1 RB high	1778.5	23.68	23.23	21.94	18.63	22.48	22.03	20.74	17.43
		1745	23.89	23.33	22.10	18.78	22.69	22.13	20.90	17.58
		1711.5	24.10	23.24	21.96	18.96	22.90	22.04	20.76	17.76
	1 RB low	1778.5	23.88	23.20	21.88	18.81	22.68	22.00	20.68	17.61
		1745	23.91	23.08	21.80	18.85	22.71	21.88	20.60	17.65
		1711.5	23.76	23.04	22.21	18.81	22.56	21.84	21.01	17.61
	50% RB mid	1778.5	23.11	21.93	20.97	18.83	21.91	20.73	19.77	17.63
		1745	22.99	21.83	20.96	18.81	21.79	20.63	19.76	17.61
		1711.5	23.02	21.90	21.01	18.68	21.82	20.70	19.81	17.48
	100% RB	1778.5	22.96	22.04	20.97	18.95	21.76	20.84	19.77	17.75
		1745	22.81	22.08	20.89	18.89	21.61	20.88	19.69	17.69
		1711.5	22.92	21.95	20.87	18.81	21.72	20.75	19.67	17.61
5MHz	1 RB high	1777.5	23.79	23.16	21.92	18.73	22.59	21.96	20.72	17.53
		1745	23.88	23.27	22.08	18.83	22.68	22.07	20.88	17.63
		1712.5	23.98	23.16	22.03	18.98	22.78	21.96	20.83	17.78
	1 RB low	1777.5	23.97	23.17	22.04	18.80	22.77	21.97	20.84	17.60
		1745	23.94	23.06	21.90	18.87	22.74	21.86	20.70	17.67
		1712.5	23.73	23.07	22.12	18.80	22.53	21.87	20.92	17.60
	50% RB mid	1777.5	22.97	21.89	20.98	18.84	21.77	20.69	19.78	17.64
		1745	23.05	21.83	20.98	18.79	21.85	20.63	19.78	17.59
		1712.5	23.06	21.98	20.88	18.65	21.86	20.78	19.68	17.45
	100% RB	1777.5	22.91	22.10	21.09	18.88	21.71	20.90	19.89	17.68
		1745	22.88	21.94	20.81	18.69	21.68	20.74	19.61	17.49
		1712.5	22.86	22.08	20.92	18.80	21.66	20.88	19.72	17.60
10MHz	1 RB high	1775	23.79	23.07	21.96	18.69	22.59	21.87	20.76	17.49
		1745	23.82	23.14	22.15	18.78	22.62	21.94	20.95	17.58
		1715	23.89	23.18	21.92	18.77	22.69	21.98	20.72	17.57
	1 RB low	1775	23.96	23.09	22.01	18.83	22.76	21.89	20.81	17.63

			1745	24.06	23.16	21.98	18.92	22.86	21.96	20.78	17.72
			1715	23.80	23.23	22.16	18.87	22.60	22.03	20.96	17.67
		50% RB mid	1775	23.00	21.97	20.93	18.85	21.80	20.77	19.73	17.65
			1745	23.05	21.86	20.98	18.89	21.85	20.66	19.78	17.69
			1715	23.03	21.93	21.08	18.83	21.83	20.73	19.88	17.63
		100% RB	1775	22.86	21.95	20.97	18.94	21.66	20.75	19.77	17.74
			1745	22.89	22.04	20.96	18.84	21.69	20.84	19.76	17.64
			1715	22.95	21.95	20.92	18.75	21.75	20.75	19.72	17.55
		15MHz	1 RB high	1772.5	23.77	23.16	22.02	18.71	22.57	21.96	20.82
1745	23.97			23.30	22.14	18.77	22.77	22.10	20.94	17.57	
1717.5	24.02			23.26	21.94	18.93	22.82	22.06	20.74	17.73	
1 RB low	1772.5		23.98	23.15	21.96	18.78	22.78	21.95	20.76	17.58	
	1745		23.94	23.15	21.89	18.86	22.74	21.95	20.69	17.66	
	1717.5		23.78	23.08	22.15	18.88	22.58	21.88	20.95	17.68	
50% RB mid	1772.5		23.02	21.83	20.94	18.85	21.82	20.63	19.74	17.65	
	1745		23.07	21.89	20.96	18.78	21.87	20.69	19.76	17.58	
	1717.5		23.01	21.92	20.93	18.74	21.81	20.72	19.73	17.54	
100% RB	1772.5		22.89	22.01	21.01	18.95	21.69	20.81	19.81	17.75	
	1745		22.78	22.04	20.90	18.79	21.58	20.84	19.70	17.59	
	1717.5		22.85	22.01	20.94	18.73	21.65	20.81	19.74	17.53	
20MHz	1 RB high	1770	23.85	23.06	22.04	18.78	22.65	21.86	20.84	17.58	
		1745	23.92	23.23	22.06	18.81	22.72	22.03	20.86	17.61	
		1720	23.93	23.27	21.93	18.85	22.73	22.07	20.73	17.65	
	1 RB low	1770	23.99	23.12	21.95	18.81	22.79	21.92	20.75	17.61	
		1745	24.00	23.10	21.94	18.91	22.80	21.90	20.74	17.71	
		1720	23.82	23.16	22.07	18.81	22.62	21.96	20.87	17.61	
	50% RB mid	1770	22.97	21.93	21.00	18.91	21.77	20.73	19.80	17.71	
		1745	23.01	21.91	21.00	18.88	21.81	20.71	19.80	17.68	
		1720	22.99	21.97	21.00	18.80	21.79	20.77	19.80	17.60	
	100% RB	1770	22.92	21.91	20.94	18.86	21.72	20.71	19.74	17.66	
		1745	22.82	21.95	20.89	18.89	21.62	20.75	19.69	17.69	
		1720	22.88	21.95	20.99	18.79	21.68	20.75	19.79	17.59	

LTE Band66 ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				EIRP(dBm)(Gt-Lc =-5.27)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	23.89	23.23	21.99	19.53	18.62	17.96	16.72	14.26
		1745	23.88	23.53	22.15	19.56	18.61	18.26	16.88	14.29
		1710.7	23.97	23.47	22.00	19.49	18.70	18.20	16.73	14.22
	1 RB low	1779.3	23.85	23.37	22.21	19.57	18.58	18.10	16.94	14.30
		1745	23.90	23.24	21.99	19.58	18.63	17.97	16.72	14.31
		1710.7	23.96	23.46	22.09	19.51	18.69	18.19	16.82	14.24
	50% RB mid	1779.3	23.97	23.08	22.01	19.46	18.70	17.81	16.74	14.19
		1745	23.94	22.99	21.97	19.57	18.67	17.72	16.70	14.30
		1710.7	23.92	23.14	21.99	19.60	18.65	17.87	16.72	14.33
	100% RB	1779.3	23.02	22.05	20.98	19.53	17.75	16.78	15.71	14.26
		1745	22.94	22.07	21.07	19.49	17.67	16.80	15.80	14.22
		1710.7	23.01	22.05	21.13	19.58	17.74	16.78	15.86	14.31
3MHz	1 RB high	1778.5	23.88	23.23	22.01	19.50	18.61	17.96	16.74	14.23
		1745	23.87	23.29	21.93	19.48	18.60	18.02	16.66	14.21
		1711.5	23.96	23.33	22.13	19.44	18.69	18.06	16.86	14.17
	1 RB low	1778.5	23.89	23.20	22.03	19.51	18.62	17.93	16.76	14.24
		1745	23.93	23.22	22.07	19.49	18.66	17.95	16.80	14.22
		1711.5	23.95	23.20	22.10	19.53	18.68	17.93	16.83	14.26
	50% RB mid	1778.5	23.07	22.08	21.06	19.53	17.80	16.81	15.79	14.26
		1745	23.02	22.18	21.04	19.60	17.75	16.91	15.77	14.33
		1711.5	23.02	22.12	21.13	19.55	17.75	16.85	15.86	14.28
	100% RB	1778.5	23.03	22.06	20.99	19.51	17.76	16.79	15.72	14.24
		1745	23.12	22.03	21.02	19.57	17.85	16.76	15.75	14.30
		1711.5	23.12	22.04	21.08	19.58	17.85	16.77	15.81	14.31
5MHz	1 RB high	1777.5	23.86	23.23	22.00	19.47	18.59	17.96	16.73	14.20
		1745	23.95	23.22	22.03	19.54	18.68	17.95	16.76	14.27
		1712.5	23.92	23.45	22.10	19.55	18.65	18.18	16.83	14.28
	1 RB low	1777.5	23.94	23.24	22.17	19.48	18.67	17.97	16.90	14.21
		1745	23.90	23.20	21.99	19.51	18.63	17.93	16.72	14.24
		1712.5	23.94	23.27	22.04	19.52	18.67	18.00	16.77	14.25
	50% RB mid	1777.5	23.03	22.05	21.11	19.46	17.76	16.78	15.84	14.19
		1745	23.07	22.17	21.05	19.56	17.80	16.90	15.78	14.29
		1712.5	23.11	22.10	21.10	19.59	17.84	16.83	15.83	14.32
	100% RB	1777.5	22.97	22.02	21.01	19.60	17.70	16.75	15.74	14.33
		1745	22.92	22.00	20.96	19.45	17.65	16.73	15.69	14.18
		1712.5	23.09	22.05	21.09	19.53	17.82	16.78	15.82	14.26
10MHz	1 RB high	1775	23.91	23.18	21.99	19.44	18.64	17.91	16.72	14.17
		1745	23.88	23.16	22.05	19.59	18.61	17.89	16.78	14.32
		1715	23.93	23.42	22.26	19.51	18.66	18.15	16.99	14.24
	1 RB low	1775	23.96	23.40	21.86	19.52	18.69	18.13	16.59	14.25

		1745	23.98	23.21	22.01	19.51	18.71	17.94	16.74	14.24
		1715	23.90	23.29	22.03	19.51	18.63	18.02	16.76	14.24
	50% RB mid	1775	22.97	22.02	21.03	19.48	17.70	16.75	15.76	14.21
		1745	22.97	22.00	20.95	19.59	17.70	16.73	15.68	14.32
		1715	23.08	22.06	21.15	19.49	17.81	16.79	15.88	14.22
	100% RB	1775	22.87	21.95	20.88	19.49	17.60	16.68	15.61	14.22
		1745	22.97	21.95	21.05	19.51	17.70	16.68	15.78	14.24
		1715	23.00	22.05	21.09	19.57	17.73	16.78	15.82	14.30
15MHz	1 RB high	1772.5	23.69	23.05	21.76	19.50	18.42	17.78	16.49	14.23
		1745	23.92	23.09	21.90	19.56	18.65	17.82	16.63	14.29
		1717.5	23.86	23.38	21.88	19.58	18.59	18.11	16.61	14.31
	1 RB low	1772.5	23.73	23.32	21.80	19.47	18.46	18.05	16.53	14.20
		1745	23.81	22.98	21.90	19.57	18.54	17.71	16.63	14.30
		1717.5	23.80	23.07	21.95	19.56	18.53	17.80	16.68	14.29
	50% RB mid	1772.5	22.88	21.99	20.94	19.54	17.61	16.72	15.67	14.27
		1745	22.81	21.78	20.71	19.60	17.54	16.51	15.44	14.33
		1717.5	22.86	21.92	20.87	19.54	17.59	16.65	15.60	14.27
	100% RB	1772.5	22.90	21.89	20.97	19.55	17.63	16.62	15.70	14.28
		1745	22.79	21.84	20.74	19.55	17.52	16.57	15.47	14.28
		1717.5	22.87	21.88	20.93	19.45	17.60	16.61	15.66	14.18
20MHz	1 RB high	1770	23.67	23.02	21.76	19.59	18.40	17.75	16.49	14.32
		1745	23.88	23.11	22.02	19.45	18.61	17.84	16.75	14.18
		1720	23.83	23.09	22.26	19.44	18.56	17.82	16.99	14.17
	1 RB low	1770	23.78	23.01	21.93	19.56	18.51	17.74	16.66	14.29
		1745	23.84	23.12	21.79	19.59	18.57	17.85	16.52	14.32
		1720	23.74	23.13	21.98	19.55	18.47	17.86	16.71	14.28
	50% RB mid	1770	22.85	21.82	20.82	19.47	17.58	16.55	15.55	14.20
		1745	22.76	21.76	20.84	19.48	17.49	16.49	15.57	14.21
		1720	22.87	21.94	20.84	19.49	17.60	16.67	15.57	14.22
	100% RB	1770	22.83	21.87	20.87	19.59	17.56	16.60	15.60	14.32
		1745	22.75	21.86	20.74	19.52	17.48	16.59	15.47	14.25
		1720	22.83	21.85	20.82	19.44	17.56	16.58	15.55	14.17

LTE Band71 ANT0

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-2.5)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.71	23.02	21.70	19.02	19.06	18.37	17.05	14.37
		680.5	23.64	23.13	22.16	19.26	18.99	18.48	17.51	14.61
		665.5	24.01	23.12	22.24	19.00	19.36	18.47	17.59	14.35
	1 RB low	695.5	24.18	23.33	22.67	19.22	19.53	18.68	18.02	14.57
		680.5	23.83	23.27	22.36	19.30	19.18	18.62	17.71	14.65
		665.5	23.92	23.35	22.41	19.18	19.27	18.70	17.76	14.53
	50% RB mid	695.5	22.96	22.12	21.02	19.18	18.31	17.47	16.37	14.53
		680.5	23.04	22.16	21.18	19.18	18.39	17.51	16.53	14.53
		665.5	23.12	22.27	21.15	19.33	18.47	17.62	16.50	14.68
	100% RB	695.5	22.94	22.25	20.77	19.16	18.29	17.60	16.12	14.51
		680.5	22.79	22.11	20.83	19.22	18.14	17.46	16.18	14.57
		665.5	23.01	22.15	21.04	19.35	18.36	17.50	16.39	14.70
10MHz	1 RB high	693	23.79	23.05	21.80	19.13	19.14	18.40	17.15	14.48
		680.5	23.87	23.19	21.97	19.08	19.22	18.54	17.32	14.43
		668	23.82	23.30	22.37	19.09	19.17	18.65	17.72	14.44
	1 RB low	693	24.23	23.30	22.78	19.27	19.58	18.65	18.13	14.62
		680.5	24.00	23.31	22.29	19.27	19.35	18.66	17.64	14.62
		668	23.85	23.14	22.42	19.32	19.20	18.49	17.77	14.67
	50% RB mid	693	23.07	22.06	21.03	19.27	18.42	17.41	16.38	14.62
		680.5	23.03	22.13	21.09	19.21	18.38	17.48	16.44	14.56
		668	23.00	22.28	20.98	19.31	18.35	17.63	16.33	14.66
	100% RB	693	22.90	22.03	20.75	19.20	18.25	17.38	16.10	14.55
		680.5	22.97	22.04	20.88	19.20	18.32	17.39	16.23	14.55
		668	22.98	22.31	21.14	19.39	18.33	17.66	16.49	14.74
15MHz	1 RB high	690.5	23.66	22.92	21.67	19.12	19.01	18.27	17.02	14.47
		680.5	23.73	23.21	22.07	19.19	19.08	18.56	17.42	14.54
		670.5	23.93	23.17	22.21	19.10	19.28	18.52	17.56	14.45
	1 RB low	690.5	24.18	23.31	22.71	19.21	19.53	18.66	18.06	14.56
		680.5	23.84	23.23	22.27	19.28	19.19	18.58	17.62	14.63
		670.5	23.95	23.25	22.38	19.21	19.30	18.60	17.73	14.56
	50% RB mid	690.5	22.97	22.11	21.09	19.23	18.32	17.46	16.44	14.58
		680.5	22.99	22.10	21.18	19.18	18.34	17.45	16.53	14.53
		670.5	23.10	22.22	21.09	19.30	18.45	17.57	16.44	14.65
	100% RB	690.5	22.89	22.19	20.84	19.09	18.24	17.54	16.19	14.44
		680.5	22.89	22.07	20.89	19.17	18.24	17.42	16.24	14.52
		670.5	22.99	22.23	21.14	19.26	18.34	17.58	16.49	14.61
20MHz	1 RB high	688	23.73	22.96	21.73	19.20	19.08	18.31	17.08	14.55
		680.5	23.80	23.16	22.02	19.14	19.15	18.51	17.37	14.49
		673	23.91	23.22	22.27	19.15	19.26	18.57	17.62	14.50
	1 RB low	688	24.13	23.36	22.68	19.31	19.48	18.71	18.03	14.66

		680.5	23.92	23.27	22.29	19.24	19.27	18.62	17.64	14.59
		673	23.88	23.16	22.33	19.30	19.23	18.51	17.68	14.65
	50% RB mid	688	23.06	22.14	21.10	19.27	18.41	17.49	16.45	14.62
		680.5	23.08	22.07	21.10	19.17	18.43	17.42	16.45	14.52
		673	23.02	22.20	21.01	19.28	18.37	17.55	16.36	14.63
	100% RB	688	22.83	22.11	20.82	19.15	18.18	17.46	16.17	14.50
		680.5	22.95	22.03	20.92	19.15	18.30	17.38	16.27	14.50
		673	23.07	22.29	21.10	19.30	18.42	17.64	16.45	14.65

LTE Band71 ANT3

Bandwidth	RB size/offset	Frequency (MHz)	Conducted Power(dBm)				ERP(dBm)(Gt-Lc =-5.38)			
			QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	695.5	23.78	22.90	21.53	19.37	16.25	15.37	14.00	11.84
		680.5	23.57	23.19	21.67	19.49	16.04	15.66	14.14	11.96
		665.5	23.72	22.99	22.23	19.41	16.19	15.46	14.70	11.88
	1 RB low	695.5	23.87	23.23	21.80	19.37	16.34	15.70	14.27	11.84
		680.5	23.76	23.21	21.83	19.51	16.23	15.68	14.30	11.98
		665.5	23.88	23.18	22.12	19.57	16.35	15.65	14.59	12.04
	50% RB mid	695.5	22.95	22.01	21.04	19.54	15.42	14.48	13.51	12.01
		680.5	22.88	21.94	20.85	19.37	15.35	14.41	13.32	11.84
		665.5	22.95	21.92	21.06	19.60	15.42	14.39	13.53	12.07
	100% RB	695.5	22.77	21.70	20.82	19.78	15.24	14.17	13.29	12.25
		680.5	22.88	21.86	20.99	19.82	15.35	14.33	13.46	12.29
		665.5	22.96	22.00	21.22	19.47	15.43	14.47	13.69	11.94
10MHz	1 RB high	693	23.51	22.90	21.62	19.51	15.98	15.37	14.09	11.98
		680.5	23.75	23.38	21.64	19.52	16.22	15.85	14.11	11.99
		668	23.84	23.06	22.24	19.42	16.31	15.53	14.71	11.89
	1 RB low	693	23.81	23.17	21.98	19.43	16.28	15.64	14.45	11.90
		680.5	23.88	23.01	21.80	19.61	16.35	15.48	14.27	12.08
		668	23.86	23.09	22.03	19.64	16.33	15.56	14.50	12.11
	50% RB mid	693	23.04	21.96	20.92	19.53	15.51	14.43	13.39	12.00
		680.5	22.90	21.94	20.92	19.53	15.37	14.41	13.39	12.00
		668	22.94	22.10	20.98	19.55	15.41	14.57	13.45	12.02
	100% RB	693	22.90	21.83	20.65	19.73	15.37	14.30	13.12	12.20
		680.5	22.84	21.91	20.95	19.66	15.31	14.38	13.42	12.13
		668	23.05	21.91	21.14	19.47	15.52	14.38	13.61	11.94
15MHz	1 RB high	690.5	23.69	22.81	21.63	19.42	16.16	15.28	14.10	11.89
		680.5	23.65	23.23	21.75	19.50	16.12	15.70	14.22	11.97
		670.5	23.82	23.02	22.14	19.38	16.29	15.49	14.61	11.85
	1 RB low	690.5	23.83	23.20	21.84	19.34	16.30	15.67	14.31	11.81
		680.5	23.86	23.21	21.77	19.59	16.33	15.68	14.24	12.06
		670.5	23.82	23.08	22.08	19.60	16.29	15.55	14.55	12.07
	50% RB mid	690.5	22.91	22.01	20.97	19.59	15.38	14.48	13.44	12.06
		680.5	22.83	21.85	20.85	19.42	15.30	14.32	13.32	11.89
		670.5	22.97	21.96	21.05	19.55	15.44	14.43	13.52	12.02
	100% RB	690.5	22.75	21.79	20.84	19.73	15.22	14.26	13.31	12.20
		680.5	22.81	21.84	20.97	19.73	15.28	14.31	13.44	12.20
		670.5	22.93	21.90	21.24	19.56	15.40	14.37	13.71	12.03
20MHz	1 RB high	688	23.60	22.89	21.70	19.49	16.07	15.36	14.17	11.96
		680.5	23.73	23.29	21.74	19.51	16.20	15.76	14.21	11.98
		673	23.75	23.06	22.15	19.48	16.22	15.53	14.62	11.95
	1 RB low	688	23.85	23.23	21.93	19.44	16.32	15.70	14.40	11.91

		680.5	23.78	23.11	21.86	19.60	16.25	15.58	14.33	12.07
		673	23.85	23.14	22.10	19.57	16.32	15.61	14.57	12.04
	50% RB mid	688	22.96	21.98	20.93	19.59	15.43	14.45	13.40	12.06
		680.5	23.09	21.87	20.87	19.48	15.56	14.34	13.34	11.95
		673	23.00	22.04	20.98	19.59	15.47	14.51	13.45	12.06
	100% RB	688	22.85	21.84	20.74	19.63	15.32	14.31	13.21	12.10
		680.5	22.85	21.88	20.92	19.65	15.32	14.35	13.39	12.12
		673	22.96	21.91	21.14	19.54	15.43	14.38	13.61	12.01

LTE CA 41C ANT3

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm) (MAX Gt - Lc = -0.56)
				Size	Offset	Size	Offset		
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.27	25.71
			QPSK	25	0	100	0	25.40	24.84
			16QAM	1	24	1	0	25.77	25.21
			16QAM	25	0	100	0	24.37	23.81
			64QAM	1	24	1	0	25.19	24.63
			64QAM	25	0	100	0	24.33	23.77
			256QAM	1	24	1	0	22.27	21.71
			256QAM	25	0	100	0	22.36	21.80
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.32	25.76
			QPSK	50	0	75	0	25.43	24.87
			16QAM	1	49	1	0	25.67	25.11
			16QAM	50	0	75	0	24.40	23.84
			64QAM	1	49	1	0	25.14	24.58
			64QAM	50	0	75	0	24.39	23.83
			256QAM	1	49	1	0	22.21	21.65
			256QAM	50	0	75	0	22.34	21.78
10MHz/20MHz	2583.6	2598	QPSK	1	49	1	0	26.23	25.67
			QPSK	50	0	100	0	25.41	24.85
			16QAM	1	49	1	0	25.76	25.20
			16QAM	50	0	100	0	24.42	23.86
			64QAM	1	49	1	0	25.16	24.60
			64QAM	50	0	100	0	24.41	23.85
			256QAM	1	49	1	0	22.20	21.64
			256QAM	50	0	100	0	22.35	21.79
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.15	25.59
			QPSK	75	0	50	0	25.31	24.75
			16QAM	1	74	1	0	25.63	25.07
			16QAM	75	0	50	0	24.42	23.86
			64QAM	1	74	1	0	25.08	24.52
			64QAM	75	0	50	0	24.32	23.76
			256QAM	1	74	1	0	22.22	21.66
			256QAM	75	0	50	0	22.33	21.77
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.21	25.65
			QPSK	75	0	75	0	25.37	24.81
			16QAM	1	74	1	0	25.60	25.04
			16QAM	75	0	75	0	24.36	23.80
			64QAM	1	74	1	0	25.12	24.56
			64QAM	75	0	75	0	24.34	23.78
			256QAM	1	74	1	0	22.14	21.58

			256QAM	75	0	75	0	22.37	21.81
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.19	25.63
			QPSK	75	0	100	0	25.45	24.89
			16QAM	1	74	1	0	25.59	25.03
			16QAM	75	0	100	0	24.42	23.86
			64QAM	1	74	1	0	25.10	24.54
			64QAM	75	0	100	0	24.34	23.78
			256QAM	1	74	1	0	22.19	21.63
			256QAM	75	0	100	0	22.40	21.84
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.26	25.70
			QPSK	100	0	25	0	25.40	24.84
			16QAM	1	99	1	0	25.77	25.21
			16QAM	100	0	25	0	24.39	23.83
			64QAM	1	99	1	0	25.09	24.53
			64QAM	100	0	25	0	24.37	23.81
			256QAM	1	99	1	0	22.31	21.75
			256QAM	100	0	25	0	22.38	21.82
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.28	25.72
			QPSK	100	0	50	0	25.42	24.86
			16QAM	1	99	1	0	25.71	25.15
			16QAM	100	0	50	0	24.40	23.84
			64QAM	1	99	1	0	25.03	24.47
			64QAM	100	0	50	0	24.39	23.83
			256QAM	1	99	1	0	22.31	21.75
			256QAM	100	0	50	0	22.37	21.81
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.28	25.72
			QPSK	100	0	75	0	25.42	24.86
			16QAM	1	99	1	0	25.76	25.20
			16QAM	100	0	75	0	24.43	23.87
			64QAM	1	99	1	0	25.05	24.49
			64QAM	100	0	75	0	24.37	23.81
			256QAM	1	99	1	0	22.27	21.71
			256QAM	100	0	75	0	22.38	21.82
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.24	25.68
			QPSK	100	0	100	0	25.43	24.87
			16QAM	1	99	1	0	25.69	25.13
			16QAM	100	0	100	0	24.41	23.85
			64QAM	1	99	1	0	25.12	24.56
			64QAM	100	0	100	0	24.47	23.91
			256QAM	1	99	1	0	22.39	21.83
			256QAM	100	0	100	0	22.41	21.85

LTE CA41C ANT1

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)	EIRP(dBm) (MAX Gt - Lc = -0.56)
				Size	Offset	Size	Offset		
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	26.27	26.51
			QPSK	25	0	100	0	25.40	25.7
			16QAM	1	24	1	0	25.77	26.05
			16QAM	25	0	100	0	24.37	24.67
			64QAM	1	24	1	0	25.19	25.3
			64QAM	25	0	100	0	24.33	24.63
			256QAM	1	24	1	0	22.27	22.58
			256QAM	25	0	100	0	22.36	22.61
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	26.32	26.53
			QPSK	50	0	75	0	25.43	25.61
			16QAM	1	49	1	0	25.67	25.97
			16QAM	50	0	75	0	24.40	24.7
			64QAM	1	49	1	0	25.14	25.32
			64QAM	50	0	75	0	24.39	24.71
			256QAM	1	49	1	0	22.21	22.49
			256QAM	50	0	75	0	22.34	22.63
10MHz/20MHz	2583.6	2598	QPSK	1	49	1	0	26.23	26.69
			QPSK	50	0	100	0	25.41	25.73
			16QAM	1	49	1	0	25.76	25.95
			16QAM	50	0	100	0	24.42	24.75
			64QAM	1	49	1	0	25.16	25.36
			64QAM	50	0	100	0	24.41	24.66
			256QAM	1	49	1	0	22.20	22.63
			256QAM	50	0	100	0	22.35	22.66
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	26.15	26.59
			QPSK	75	0	50	0	25.31	25.68
			16QAM	1	74	1	0	25.63	25.9
			16QAM	75	0	50	0	24.42	24.7
			64QAM	1	74	1	0	25.08	25.45
			64QAM	75	0	50	0	24.32	24.67
			256QAM	1	74	1	0	22.22	22.57
			256QAM	75	0	50	0	22.33	22.65
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	26.21	26.59
			QPSK	75	0	75	0	25.37	25.68
			16QAM	1	74	1	0	25.60	25.98
			16QAM	75	0	75	0	24.36	24.7
			64QAM	1	74	1	0	25.12	25.44
			64QAM	75	0	75	0	24.34	24.71
			256QAM	1	74	1	0	22.14	22.5

			256QAM	75	0	75	0	22.37	22.67
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	26.19	26.53
			QPSK	75	0	100	0	25.45	25.66
			16QAM	1	74	1	0	25.59	25.96
			16QAM	75	0	100	0	24.42	24.72
			64QAM	1	74	1	0	25.10	25.46
			64QAM	75	0	100	0	24.34	24.67
			256QAM	1	74	1	0	22.19	22.62
			256QAM	75	0	100	0	22.40	22.71
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	26.26	26.5
			QPSK	100	0	25	0	25.40	25.69
			16QAM	1	99	1	0	25.77	26.06
			16QAM	100	0	25	0	24.39	24.73
			64QAM	1	99	1	0	25.09	25.37
			64QAM	100	0	25	0	24.37	24.75
			256QAM	1	99	1	0	22.31	22.59
			256QAM	100	0	25	0	22.38	22.7
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	26.28	26.55
			QPSK	100	0	50	0	25.42	25.7
			16QAM	1	99	1	0	25.71	26.08
			16QAM	100	0	50	0	24.40	24.77
			64QAM	1	99	1	0	25.03	25.34
			64QAM	100	0	50	0	24.39	24.64
			256QAM	1	99	1	0	22.31	22.56
			256QAM	100	0	50	0	22.37	22.73
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	26.28	26.6
			QPSK	100	0	75	0	25.42	25.79
			16QAM	1	99	1	0	25.76	26.16
			16QAM	100	0	75	0	24.43	24.77
			64QAM	1	99	1	0	25.05	25.39
			64QAM	100	0	75	0	24.37	24.71
			256QAM	1	99	1	0	22.27	22.49
			256QAM	100	0	75	0	22.38	22.67
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	26.24	26.49
			QPSK	100	0	100	0	25.43	25.68
			16QAM	1	99	1	0	25.69	26.01
			16QAM	100	0	100	0	24.41	24.75
			64QAM	1	99	1	0	25.12	25.35
			64QAM	100	0	100	0	24.47	24.74
			256QAM	1	99	1	0	22.39	22.56
			256QAM	100	0	100	0	22.41	22.64

A.2 Emission Limit

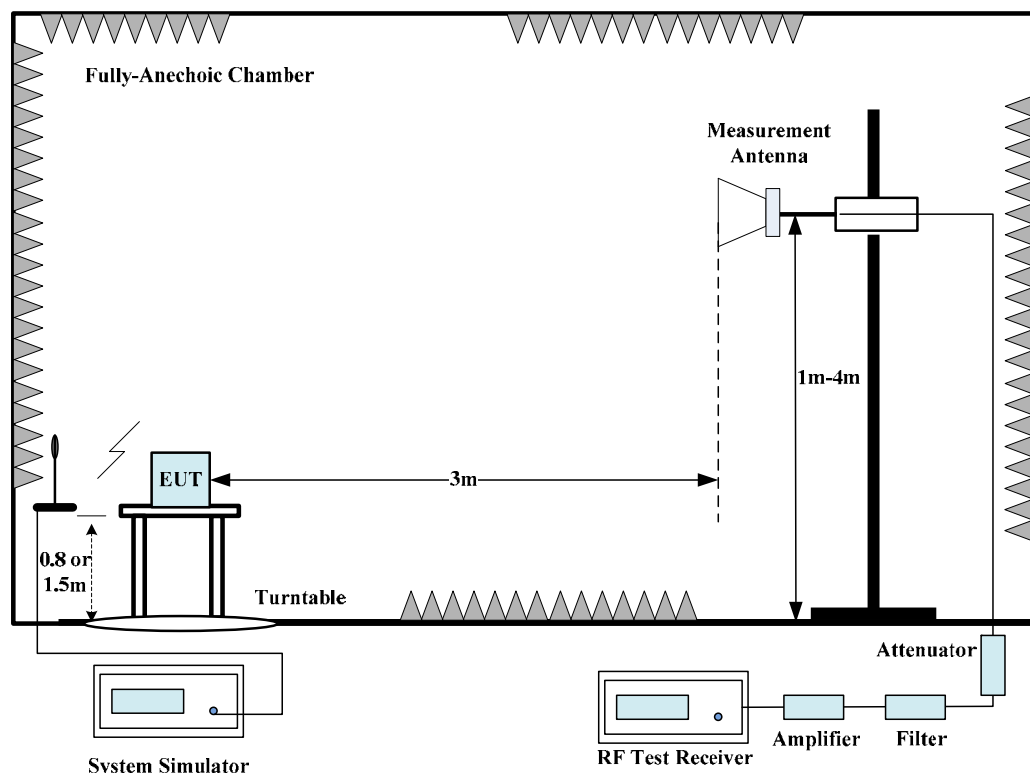
A.2.1 Measurement Method

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

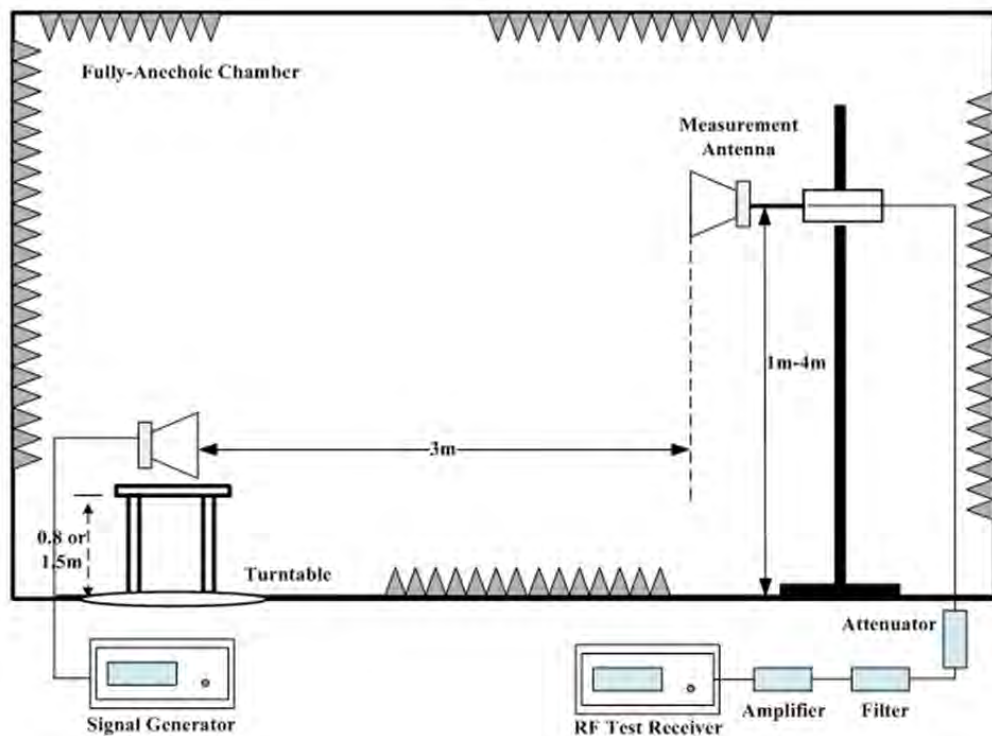
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and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

The procedure of radiated spurious emissions is as follows:

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



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



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

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

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

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

A.2.2 Measurement Limit

FDD Band 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 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.

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

FDD Band 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 7/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.

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

A.2.6 Measurement Result

LTE Band 7, 5MHz,CH20775,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5007.50	-60.91	5.14	11.34	-54.71	-25.00	29.71	V
7514.50	-53.52	7.71	10.23	-51.00	-25.00	26.00	H
10014.50	-50.05	9.35	11.79	-47.61	-25.00	22.61	H
12516.50	-45.78	12.38	13.55	-44.61	-25.00	19.61	V
15024.00	-45.41	14.73	14.67	-45.47	-25.00	20.47	H
17508.50	-33.73	19.71	13.11	-40.33	-25.00	15.33	H

LTE Band 7, 5MHz,CH21100,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070.50	-60.47	5.30	11.60	-54.17	-25.00	29.17	H
7619.50	-53.94	6.65	10.34	-50.25	-25.00	25.25	H
10141.00	-48.11	9.74	11.78	-46.07	-25.00	21.07	H
12661.50	-45.67	11.63	13.18	-44.12	-25.00	19.12	V
15214.00	-45.23	15.70	15.03	-45.90	-25.00	20.90	V
17757.50	-34.18	19.56	13.46	-40.28	-25.00	15.28	H

LTE Band 7, 5MHz,CH21425,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135.00	-60.22	5.55	11.60	-54.17	-25.00	29.17	H
7706.00	-54.42	6.73	10.61	-50.54	-25.00	25.54	H
10271.00	-48.43	10.75	11.90	-47.28	-25.00	22.28	H
12832.50	-44.24	13.09	12.94	-44.39	-25.00	19.39	H
15405.00	-47.02	14.90	15.41	-46.51	-25.00	21.51	H
17974.50	-34.00	19.99	13.45	-40.54	-25.00	15.54	H

LTE Band 12, 1.4MHz,CH23017,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2099.50	-52.84	3.52	7.80	2.15	-50.71	-13.00	37.71	V
2806.00	-51.55	5.23	10.41	2.15	-48.52	-13.00	35.52	V
4193.00	-60.45	4.13	10.09	2.15	-56.64	-13.00	43.64	H
5598.50	-60.00	5.66	11.30	2.15	-56.51	-13.00	43.51	V
6297.50	-58.29	6.07	10.80	2.15	-55.71	-13.00	42.71	V
6998.00	-53.89	7.82	10.40	2.15	-53.46	-13.00	40.46	V

LTE Band 12, 1.4MHz,CH23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2123.50	-53.27	3.72	8.18	2.15	-50.96	-13.00	37.96	V
2843.50	-51.46	5.05	10.49	2.15	-48.17	-13.00	35.17	V
4947.50	-61.28	4.91	11.19	2.15	-57.15	-13.00	44.15	V
5666.50	-59.60	5.72	11.40	2.15	-56.07	-13.00	43.07	H
6356.50	-58.34	5.94	10.91	2.15	-55.52	-13.00	42.52	V
7088.50	-53.98	6.97	10.35	2.15	-52.75	-13.00	39.75	V

LTE Band 12, 1.4MHz,CH23173,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2146.50	-52.54	3.71	8.54	2.15	-49.86	-13.00	36.86	V
2864.50	-50.42	5.49	10.59	2.15	-47.47	-13.00	34.47	H
5008.00	-60.86	5.14	11.35	2.15	-56.80	-13.00	43.80	V
5736.00	-59.43	5.87	11.33	2.15	-56.12	-13.00	43.12	V
6449.00	-57.48	6.78	10.80	2.15	-55.61	-13.00	42.61	V
7146.50	-53.60	6.67	10.21	2.15	-52.21	-13.00	39.21	V

LTE Band 25, 1.4MHz,CH26047,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3701.00	-58.55	3.47	10.40	-51.62	-13.00	38.62	H
5552.00	-52.42	5.32	11.20	-46.54	-13.00	33.54	H
7393.00	-51.93	8.14	10.07	-50.00	-13.00	37.00	V
9253.50	-50.90	8.85	11.70	-48.05	-13.00	35.05	V
11111.50	-49.16	9.81	12.61	-46.36	-13.00	33.36	H
12946.50	-44.98	12.48	12.75	-44.71	-13.00	31.71	V

LTE Band 25, 1.4MHz,CH26365,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3765.00	-58.28	3.79	10.14	-51.93	-13.00	38.93	H
5647.50	-52.16	5.60	11.40	-46.36	-13.00	33.36	V
7519.00	-52.87	7.71	10.24	-50.34	-13.00	37.34	H
9420.00	-51.36	9.04	11.58	-48.82	-13.00	35.82	V
11286.00	-47.80	10.63	12.61	-45.82	-13.00	32.82	V
13191.00	-44.92	13.11	12.51	-45.52	-13.00	32.52	V

LTE Band 25, 1.4MHz,CH26683,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3829.00	-52.72	3.92	9.94	-46.70	-13.00	33.70	H
5742.50	-53.13	5.86	11.32	-47.67	-13.00	34.67	H
7663.50	-52.97	6.94	10.45	-49.46	-13.00	36.46	V
9575.50	-51.15	8.65	11.90	-47.90	-13.00	34.90	H
11476.50	-46.42	12.31	12.52	-46.21	-13.00	33.21	V
13387.50	-42.80	12.43	12.41	-42.82	-13.00	29.82	V

LTE Band 26_Part90, 1.4MHz,CH26797,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2474.50	-53.51	4.33	10.35	2.15	-49.64	-13.00	36.64	H
4948.50	-60.87	4.91	11.19	2.15	-56.74	-13.00	43.74	V
5773.50	-58.51	5.68	11.16	2.15	-55.18	-13.00	42.18	V
6598.50	-55.24	7.10	10.31	2.15	-54.18	-13.00	41.18	H
7419.50	-53.45	7.98	10.10	2.15	-53.48	-13.00	40.48	H
8238.00	-53.14	7.59	11.20	2.15	-51.68	-13.00	38.68	V

LTE Band 26_Part90, 1.4MHz,CH26915,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2497.00	-54.53	4.46	10.31	2.15	-50.83	-13.00	37.83	V
5019.00	-60.62	5.10	11.41	2.15	-56.46	-13.00	43.46	V
5856.50	-59.01	5.61	10.97	2.15	-55.80	-13.00	42.80	V
6693.00	-53.97	6.20	10.49	2.15	-51.83	-13.00	38.83	H
7514.00	-53.23	7.71	10.23	2.15	-52.86	-13.00	39.86	V
8350.50	-53.21	8.29	11.30	2.15	-52.35	-13.00	39.35	H

LTE Band 26_Part90, 1.4MHz,CH27033,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2544.50	-54.40	4.62	10.30	2.15	-50.87	-13.00	37.87	H
4242.00	-59.89	4.43	10.27	2.15	-56.20	-13.00	43.20	V
5939.00	-56.29	6.00	10.72	2.15	-53.72	-13.00	40.72	V
6787.00	-53.22	6.39	10.37	2.15	-51.39	-13.00	38.39	H
7647.00	-54.26	6.83	10.39	2.15	-52.85	-13.00	39.85	H
8483.00	-52.76	8.89	11.30	2.15	-52.50	-13.00	39.50	V

LTE Band 26_Part22, 1.4MHz,CH26697,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1631.50	-62.19	2.39	9.35	2.15	-57.38	-13.00	44.38	H
2444.50	-51.77	4.55	10.38	2.15	-48.09	-13.00	35.09	V
5703.00	-60.20	5.67	11.39	2.15	-56.63	-13.00	43.63	V
6506.00	-57.61	6.25	10.60	2.15	-55.41	-13.00	42.41	V
7319.50	-53.28	7.81	9.90	2.15	-53.34	-13.00	40.34	H
8151.50	-52.51	8.18	11.10	2.15	-51.74	-13.00	38.74	V

LTE Band 26_Part22, 1.4MHz,CH26740,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2457.50	-52.48	4.42	10.38	2.15	-48.67	-13.00	35.67	H
4905.50	-61.01	4.90	11.02	2.15	-57.04	-13.00	44.04	V
5733.50	-58.93	5.88	11.33	2.15	-55.63	-13.00	42.63	V
6552.00	-56.71	6.31	10.59	2.15	-54.58	-13.00	41.58	H
7374.00	-54.01	7.41	10.00	2.15	-53.57	-13.00	40.57	V
8186.50	-53.24	7.29	11.17	2.15	-51.51	-13.00	38.51	V

LTE Band 26_Part22, 1.4MHz,CH26783,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2470.50	-53.13	4.32	10.36	2.15	-49.24	-13.00	36.24	V
4940.00	-60.70	4.90	11.16	2.15	-56.59	-13.00	43.59	V
5764.00	-58.07	5.80	11.22	2.15	-54.80	-13.00	41.80	V
6594.00	-55.79	7.14	10.34	2.15	-54.74	-13.00	41.74	V
7412.50	-52.97	8.03	10.10	2.15	-53.05	-13.00	40.05	V
8229.00	-52.96	7.58	11.20	2.15	-51.49	-13.00	38.49	V

LTE Band 41, 5MHz,CH39675,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5004.50	-61.95	5.15	11.33	-55.77	-25.00	30.77	H
7502.50	-53.63	7.70	10.20	-51.13	-25.00	26.13	H
10002.50	-50.31	9.36	11.80	-47.87	-25.00	22.87	H
12480.50	-45.63	12.32	13.56	-44.39	-25.00	19.39	H
14977.50	-44.67	14.78	14.51	-44.94	-25.00	19.94	H
17501.50	-33.10	19.72	13.10	-39.72	-25.00	14.72	H

LTE Band 41, 5MHz,CH40620,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5196.00	-61.56	5.71	11.69	-55.58	-25.00	30.58	H
7772.00	-53.26	7.39	10.74	-49.91	-25.00	24.91	H
10366.00	-49.65	10.75	11.97	-48.43	-25.00	23.43	H
12965.50	-45.55	12.53	12.73	-45.35	-25.00	20.35	V
15561.50	-44.75	16.69	15.60	-45.84	-25.00	20.84	H
17996.50	-34.05	19.94	13.41	-40.58	-25.00	15.58	H

LTE Band 41, 5MHz,CH41565,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5375.00	-61.36	5.75	11.65	-55.46	-25.00	30.46	H
8069.00	-53.43	7.89	11.14	-50.18	-25.00	25.18	V
10748.00	-48.31	9.84	12.15	-46.00	-25.00	21.00	V
13443.50	-44.52	12.57	12.36	-44.73	-25.00	19.73	V
16110.50	-43.60	17.10	15.10	-45.60	-25.00	20.60	H
17993.50	-34.02	19.95	13.41	-40.56	-25.00	15.56	H

LTE Band 48, CH55265,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7105.13	-55.87	8.16	11.73	-52.30	-40.00	12.30	H
8855.63	-62.56	8.76	13.07	-58.25	-40.00	18.25	V
10658.25	-59.70	9.29	13.13	-55.86	-40.00	15.86	H
12457.50	-58.33	10.29	13.18	-55.44	-40.00	15.44	H
14229.75	-59.15	10.90	14.45	-55.60	-40.00	15.60	V
15986.63	-57.30	11.79	13.70	-55.39	-40.00	15.39	V

LTE Band 48, CH55990,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7250.25	-58.53	8.15	11.90	-54.78	-40.00	14.78	V
9032.63	-62.23	9.11	13.12	-58.22	-40.00	18.22	H
10875.38	-60.83	9.61	13.18	-57.26	-40.00	17.26	V
12662.63	-59.37	10.36	13.30	-56.43	-40.00	16.43	H
14473.50	-59.13	10.96	14.41	-55.68	-40.00	15.68	H
16333.13	-56.05	11.82	13.63	-54.24	-40.00	14.24	H

LTE Band 48, CH56715,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
7395.38	-61.77	8.12	12.07	-57.82	-40.00	17.82	H
9271.88	-62.12	9.09	13.26	-57.95	-40.00	17.95	V
11089.50	-59.83	9.86	13.18	-56.51	-40.00	16.51	V
12911.63	-58.13	10.50	13.45	-55.18	-40.00	15.18	V
14758.88	-57.87	11.16	14.19	-54.84	-40.00	14.84	V
16650.75	-55.96	11.87	13.66	-54.17	-40.00	14.17	H

LTE Band 66, 1.4MHz,CH131979,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5132.00	-65.29	5.56	11.60	-59.25	-13.00	46.25	V
10256.00	-59.33	10.87	11.90	-58.30	-13.00	45.30	V
11980.00	-57.22	12.26	13.06	-56.42	-13.00	43.42	V
13676.00	-54.42	12.97	12.20	-55.19	-13.00	42.19	H
15410.00	-57.06	14.91	15.42	-56.55	-13.00	43.55	H
17119.00	-47.67	18.45	13.48	-52.64	-13.00	39.64	H

LTE Band 66, 1.4MHz,CH132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8710.50	-61.79	8.48	11.10	-59.17	-13.00	46.17	V
10461.00	-59.84	10.35	11.94	-58.25	-13.00	45.25	H
12221.50	-58.39	12.16	13.40	-57.15	-13.00	44.15	H
13953.50	-51.15	14.67	12.15	-53.67	-13.00	40.67	H
15700.00	-55.07	16.66	15.50	-56.23	-13.00	43.23	V
17442.50	-44.29	19.26	13.04	-50.51	-13.00	37.51	H

LTE Band 66, 1.4MHz,CH132665,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
8903.00	-61.98	8.05	11.60	-58.43	-13.00	45.43	H
10675.50	-59.52	10.04	12.08	-57.48	-13.00	44.48	H
12460.50	-56.45	12.86	13.52	-55.79	-13.00	42.79	V
14242.00	-55.06	13.17	12.64	-55.59	-13.00	42.59	H
16010.00	-54.09	17.48	15.37	-56.20	-13.00	43.20	V
17801.50	-44.98	19.55	13.50	-51.03	-13.00	38.03	H

LTE Band 71, 5MHz,CH133147,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1989.00	-57.16	3.43	7.81	2.15	-54.93	-13.00	41.93	H
2668.00	-52.78	4.98	10.20	2.15	-49.71	-13.00	36.71	V
4649.00	-62.00	5.06	10.90	2.15	-58.31	-13.00	45.31	V
5325.00	-63.26	5.08	11.75	2.15	-58.74	-13.00	45.74	H
5997.50	-60.31	5.70	10.70	2.15	-57.46	-13.00	44.46	H
6662.50	-56.71	6.25	10.42	2.15	-54.69	-13.00	41.69	V

LTE Band 71, 5MHz,CH133297,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2054.00	-56.93	3.62	7.71	2.15	-54.99	-13.00	41.99	H
2718.50	-51.76	4.88	10.24	2.15	-48.55	-13.00	35.55	H
4070.00	-61.15	4.35	10.04	2.15	-57.61	-13.00	44.61	H
5445.50	-61.65	5.34	11.33	2.15	-57.81	-13.00	44.81	H
6123.50	-58.23	6.13	10.65	2.15	-55.86	-13.00	42.86	V
6794.00	-55.76	6.39	10.39	2.15	-53.91	-13.00	40.91	V

LTE Band 71, 5MHz,CH133447,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2098.50	-56.53	3.52	7.80	2.15	-54.40	-13.00	41.40	V
2775.00	-52.44	4.89	10.35	2.15	-49.13	-13.00	36.13	H
4882.00	-62.06	4.77	10.96	2.15	-58.02	-13.00	45.02	V
5559.50	-60.66	5.36	11.22	2.15	-56.95	-13.00	43.95	H
6246.50	-58.44	6.16	10.79	2.15	-55.96	-13.00	42.96	V
6942.00	-56.17	6.47	10.38	2.15	-54.41	-13.00	41.41	H

CA 2A_12A, CH18625+23035,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
1403.20	-47.48	6.31	7.92	2.15	-48.02	-13.00	35.02	H
2104.80	-41.27	7.44	8.01	2.15	-42.84	-13.00	29.84	V
2806.40	-34.92	10.34	10.34	2.15	-37.07	-13.00	24.07	H
3508.00	-60.27	9.83	10.50	2.15	-61.75	-13.00	48.75	H
4209.60	-55.44	10.96	10.57	2.15	-57.98	-13.00	44.98	H
4911.20	-57.71	11.29	11.23	2.15	-59.92	-13.00	46.92	H
3705.00	-53.71	9.89	10.55	0.00	-53.05	-40.00	13.05	H
5559.00	-56.50	11.63	11.20	0.00	-56.93	-40.00	16.93	V
7412.00	-48.88	12.76	10.12	0.00	-51.52	-40.00	11.52	H
9265.00	-47.60	14.98	11.80	0.00	-50.78	-40.00	10.78	H
11118.00	-44.69	16.05	12.56	0.00	-48.18	-40.00	8.18	H
12971.00	-42.77	16.92	12.89	0.00	-46.80	-40.00	6.80	H

CA 2A_12A, CH18900+23095,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.20	-47.16	6.36	8.01	2.15	-47.66	-13.00	34.66	H
2122.80	-40.42	7.62	8.32	2.15	-41.87	-13.00	28.87	V
2830.40	-34.74	10.48	10.48	2.15	-36.89	-13.00	23.89	H
3538.00	-59.52	10.13	10.62	2.15	-61.19	-13.00	48.19	H
4245.60	-58.63	10.33	10.72	2.15	-60.40	-13.00	47.40	V
4953.20	-55.87	11.34	11.27	2.15	-58.09	-13.00	45.09	V
3760.00	-52.35	10.10	10.45	0.00	-52.01	-40.00	12.01	H
5640.00	-51.59	11.61	11.20	0.00	-52.00	-40.00	12.00	H
7520.00	-50.33	12.82	10.31	0.00	-52.85	-40.00	12.85	H
9400.00	-46.83	14.74	11.67	0.00	-49.91	-40.00	9.91	V
11280.00	-44.95	16.04	12.64	0.00	-48.35	-40.00	8.35	V
13160.00	-43.00	16.78	12.67	0.00	-47.10	-40.00	7.10	V

CA 2A_12A CH19175+23155,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.40	-46.94	6.43	8.09	2.15	-47.43	-13.00	34.43	V
2141.10	-40.43	7.62	8.63	2.15	-41.57	-13.00	28.57	H
2854.80	-34.64	10.48	10.48	2.15	-36.79	-13.00	23.79	H
3568.50	-59.37	10.30	10.55	2.15	-61.27	-13.00	48.27	V
4282.20	-58.02	10.68	10.93	2.15	-59.92	-13.00	46.92	V
4995.90	-57.55	11.63	11.27	2.15	-60.06	-13.00	47.06	H
3814.69	-49.18	10.33	10.26	0.00	-49.25	-40.00	9.25	V



No.25T04Z100361-024

5724.00	-55.95	11.65	10.99	0.00	-56.60	-40.00	16.60	H
7632.00	-49.74	13.21	10.40	0.00	-52.55	-40.00	12.55	H
9540.00	-47.33	14.92	11.95	0.00	-50.31	-40.00	10.31	V
11448.00	-44.55	16.26	12.66	0.00	-48.16	-40.00	8.16	H
13356.00	-42.55	16.98	12.54	0.00	-46.99	-40.00	6.99	H

CA 2A_66A, CH18625+131997,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
3425.16	-57.09	9.62	10.35	0.00	-56.36	-13.00	43.36	V
5139.00	-57.09	11.67	11.45	0.00	-57.31	-13.00	44.31	H
6852.00	-53.59	10.37	10.37	0.00	-53.59	-13.00	40.59	V
8565.00	-48.88	14.24	11.40	0.00	-51.72	-13.00	38.72	V
10278.00	-47.26	15.42	12.18	0.00	-50.49	-13.00	37.49	V
11991.00	-43.95	16.46	13.08	0.00	-47.32	-13.00	34.32	H
3706.00	-59.89	9.89	10.55	0.00	-59.23	-40.00	19.23	H
5559.00	-56.90	11.63	11.20	0.00	-57.32	-40.00	17.32	H
7412.00	-49.72	12.76	10.12	0.00	-52.36	-40.00	12.36	V
9265.00	-45.99	14.98	11.80	0.00	-49.18	-40.00	9.18	V
11115.94	-40.77	16.05	12.56	0.00	-44.26	-40.00	4.26	H
12971.00	-43.04	16.92	12.89	0.00	-47.08	-40.00	7.08	V

CA 2A_66A, CH18900+132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
3490.00	-58.82	9.80	10.37	0.00	-58.25	-13.00	45.25	V
5235.00	-56.79	11.91	11.50	0.00	-57.20	-13.00	44.20	V
6980.00	-53.84	10.30	10.30	0.00	-53.84	-13.00	40.84	H
8725.00	-46.43	14.19	11.35	0.00	-49.27	-13.00	36.27	H
10470.00	-46.43	15.55	12.10	0.00	-49.89	-13.00	36.89	H
12215.00	-45.08	16.69	13.33	0.00	-48.43	-13.00	35.43	H
3760.00	-59.85	10.10	10.45	0.00	-59.51	-40.00	19.51	V
5640.00	-56.59	11.61	11.20	0.00	-57.00	-40.00	17.00	H
7520.00	-50.78	12.82	10.31	0.00	-53.29	-40.00	13.29	H
9400.00	-48.22	14.74	11.67	0.00	-51.29	-40.00	11.29	H
11280.00	-45.57	16.04	12.64	0.00	-48.98	-40.00	8.98	V
13160.00	-42.54	16.78	12.67	0.00	-46.65	-40.00	6.65	H

CA 2A_66A, CH19175+132647,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction (dB)	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3556.00	-59.66	10.23	10.54	0.00	-59.35	-13.00	46.35	H
5334.00	-57.50	11.89	11.43	0.00	-57.96	-13.00	44.96	V
7112.00	-53.93	10.34	10.34	0.00	-53.93	-13.00	40.93	V
8890.00	-47.68	14.27	11.52	0.00	-50.43	-13.00	37.43	V
10668.00	-44.76	15.66	12.20	0.00	-48.22	-13.00	35.22	H
12446.00	-44.07	16.81	13.39	0.00	-47.49	-13.00	34.49	V
3816.00	-59.71	10.12	10.25	0.00	-59.58	-40.00	19.58	H



No.25T04Z100361-024

5724.00	-56.08	11.65	10.99	0.00	-56.73	-40.00	16.73	H
7632.00	-48.66	13.21	10.40	0.00	-51.46	-40.00	11.46	V
9540.00	-47.66	14.92	11.95	0.00	-50.63	-40.00	10.63	V
11448.00	-44.40	16.26	12.66	0.00	-48.01	-40.00	8.01	H
13356.00	-42.60	16.98	12.54	0.00	-47.05	-40.00	7.05	V

CA 12A_66A, CH23035+131997,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.00	-55.91	3.25	5.06	2.15	-56.25	-13.00	43.25	H
2816.00	-44.75	4.94	6.67	2.15	-45.17	-13.00	32.17	V
3513.75	-68.52	5.54	8.22	2.15	-67.99	-13.00	54.99	H
4198.59	-66.63	6.20	9.10	2.15	-65.88	-13.00	52.88	H
4915.31	-66.34	6.73	9.82	2.15	-65.40	-13.00	52.40	V
5625.00	-66.12	7.26	10.58	2.15	-64.95	-13.00	51.95	H
3425.63	-69.51	5.39	8.02	0.00	-66.88	-13.00	53.88	V
5151.09	-68.85	6.88	10.11	0.00	-65.62	-13.00	52.62	V
6882.66	-65.47	7.78	11.46	0.00	-61.79	-13.00	48.79	V
8606.72	-64.46	8.48	13.02	0.00	-59.92	-13.00	46.92	V
10306.41	-61.29	9.65	13.02	0.00	-57.92	-13.00	44.92	H
11981.72	-58.68	10.14	13.00	0.00	-55.82	-13.00	42.82	V

CA 12A_66A, CH23095+132322,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.00	-55.47	3.28	5.14	2.15	-55.76	-13.00	42.76	H
2829.50	-44.88	4.95	6.69	2.15	-45.29	-13.00	32.29	V
3550.78	-67.64	5.83	8.27	2.15	-67.35	-13.00	54.35	H
4244.06	-66.79	6.25	9.14	2.15	-66.05	-13.00	53.05	H
4953.28	-66.77	6.68	9.85	2.15	-65.75	-13.00	52.75	H
5661.09	-66.28	7.28	10.57	2.15	-65.14	-13.00	52.14	V
3490.31	-69.13	5.50	8.18	0.00	-66.45	-13.00	53.45	H
5287.97	-68.95	6.99	10.30	0.00	-65.64	-13.00	52.64	V
6946.88	-65.44	7.89	11.54	0.00	-61.79	-13.00	48.79	H
8722.50	-63.27	8.43	13.04	0.00	-58.66	-13.00	45.66	H
10453.59	-60.99	9.72	13.08	0.00	-57.63	-13.00	44.63	V
12165.47	-59.81	10.16	13.07	0.00	-56.90	-13.00	43.90	H

CA 12A_66A, CH23155+132647,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Correction	Peak ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1436.50	-55.67	3.29	5.17	2.15	-55.94	-13.00	42.94	V
2869.00	-44.64	4.97	6.76	2.15	-45.00	-13.00	32.00	V
3555.00	-65.32	5.87	8.28	2.15	-65.06	-13.00	52.06	V
4282.50	-67.60	6.21	9.18	2.15	-66.78	-13.00	53.78	H
5006.25	-66.87	6.59	9.91	2.15	-65.70	-13.00	52.70	V
5705.16	-66.00	7.29	10.56	2.15	-64.88	-13.00	51.88	H
3555.00	-67.47	5.87	8.28	0.00	-65.06	-13.00	52.06	H



No.25T04Z100361-024

5332.50	-68.23	6.97	10.37	0.00	-64.83	-13.00	51.83	V
7162.50	-65.24	8.18	11.80	0.00	-61.62	-13.00	48.62	H
8889.38	-62.35	8.83	13.08	0.00	-58.10	-13.00	45.10	H
10695.94	-60.67	9.30	13.14	0.00	-56.83	-13.00	43.83	V
12459.38	-57.56	10.28	13.18	0.00	-54.66	-13.00	41.66	V

CA_41C, CH39750+CH39948,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
5032.00	-56.01	11.66	11.23	-56.44	-25.00	31.44	V
7548.00	-49.48	13.04	10.36	-52.16	-25.00	27.16	V
10064.00	-48.73	11.99	11.99	-48.73	-25.00	23.73	H
12580.00	-42.98	16.89	13.33	-46.55	-25.00	21.55	H
15096.00	-43.71	18.56	14.78	-47.49	-25.00	22.49	V
17612.00	-35.76	19.03	12.72	-42.07	-25.00	17.07	H

CA_41C, CH40620+CH40818,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
5206.00	-56.94	11.91	11.53	-57.32	-25.00	32.32	H
7809.00	-48.29	14.03	10.98	-51.35	-25.00	26.35	V
10412.00	-49.89	12.13	12.13	-49.89	-25.00	24.89	H
13015.00	-43.00	16.90	12.88	-47.02	-25.00	22.02	H
15618.00	-44.01	19.15	15.59	-47.57	-25.00	22.57	V
17672.34	-34.01	18.65	12.84	-39.82	-25.00	14.82	H

CA_41C, CH41292+CH41490,QPSK

Frequency (MHz)	SG (dBm)	CableLoss (dB)	AntennaGain (dBi)	Peak (dBm)	Limit (dBm)	Margin (dB)	Polarization
5320.31	-58.56	6.99	10.35	-55.20	-25.00	30.20	H
7999.69	-52.94	8.32	12.60	-48.66	-25.00	23.66	V
10696.88	-50.54	9.30	13.14	-46.70	-25.00	21.70	V
13324.22	-47.32	10.58	13.95	-43.95	-25.00	18.95	H
15990.94	-47.27	11.80	13.70	-45.37	-25.00	20.37	V
17365.31	-42.13	12.45	14.60	-39.98	-25.00	14.98	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	3.87	2500.620	2569.380		
50				0.63	0.0002
40				0.46	0.0002
30				0.80	0.0003
10				-0.07	0.0000
0				0.20	0.0001
-10				0.59	0.0002
-20				0.66	0.0003
-30				0.06	0.0000

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.620	2569.380	0.69	0.0003
4.45				0.51	0.0002

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	3.87	699.480	715.510		
50				-0.16	0.0002
40				-0.29	0.0004
30				-0.86	0.0012
10				0.02	0.0000
0				-0.56	0.0008
-10				-0.54	0.0008
-20				-0.31	0.0004
-30				-0.24	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	699.480	715.510	-0.79	0.0011
4.45				0.20	0.0003

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

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	1850.860	1914.140		
50				0.39	0.0002
40				-0.74	0.0004
30				0.52	0.0003
10				0.16	0.0001
0				-0.16	0.0001
-10				0.26	0.0001
-20				-0.24	0.0001
-30				0.16	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1850.860	1914.140	0.13	0.0001
4.45				1.19	0.0006

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	3.87	824.580	848.400		
50				-0.11	0.0001
40				0.22	0.0003
30				0.19	0.0002
10				-0.06	0.0001
0				0.39	0.0005
-10				0.22	0.0003
-20				0.12	0.0001
-30				0.39	0.0005

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	824.580	848.400	0.22	0.0003
4.45				0.69	0.0008

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	3.87	814.420	823.580		
50				-0.01	0.0000
40				-0.23	0.0003
30				-0.33	0.0004
10				0.06	0.0001
0				0.00	0.0000
-10				0.90	0.0011
-20				0.56	0.0007
-30				-0.29	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	814.420	823.580	0.09	0.0001
4.45				0.27	0.0003

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	3.87	2496.500	2689.440		
50				-0.24	0.0001
40				0.42	0.0002
30				-0.36	0.0001
10				0.33	0.0001
0				-0.24	0.0001
-10				0.14	0.0001
-20				0.04	0.0000
-30				0.30	0.0001

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.500	2689.440	-0.17	0.0001
4.45				0.00	0.0000

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	3.87	3550.976	3699.024		
50				-0.87	0.0002
40				0.13	0.0000
30				-0.86	0.0002
10				-0.47	0.0001
0				-0.95	0.0003
-10				-0.97	0.0003
-20				-0.50	0.0001
-30				-1.22	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	3550.976	3699.024	-1.89	0.0005
4.45				-1.45	0.0004

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	3.87	1710.850	1779.150		
50				-0.76	0.0004
40				0.37	0.0002
30				0.47	0.0003
10				0.43	0.0002
0				-0.21	0.0001
-10				-0.09	0.0000
-20				0.42	0.0002
-30				0.47	0.0003

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	1710.850	1779.150	0.20	0.0001
4.45				0.60	0.0003

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	3.87	663.840	697.150	0.13	0.0002
50					
40					
30					
10					
0					
-10					
-20					
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	663.840	697.150	0.23	0.0003
4.45				-0.07	0.0001

LTE CA band 41C, 20MHz+20MHz bandwidth QPSK(worst case of all bandwidths)
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.880	2689.100	0.31	0.0001
50					
40					
30					
10					
0					
-10					
-20					
-30					

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.880	2689.100	-0.54	0.0002
4.45				0.20	0.0001

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.

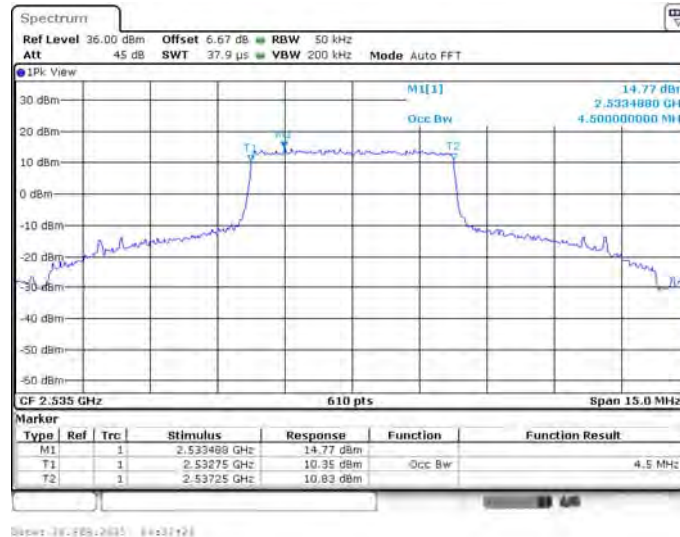
The measurement method is from ANSI C63.26:

- 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)



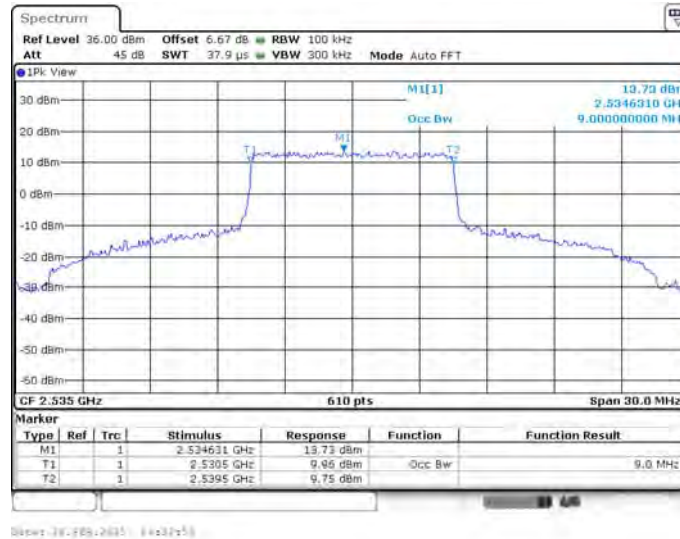
LTE band 7 , 5MHz Bandwidth,MID,16QAM (99% BW)



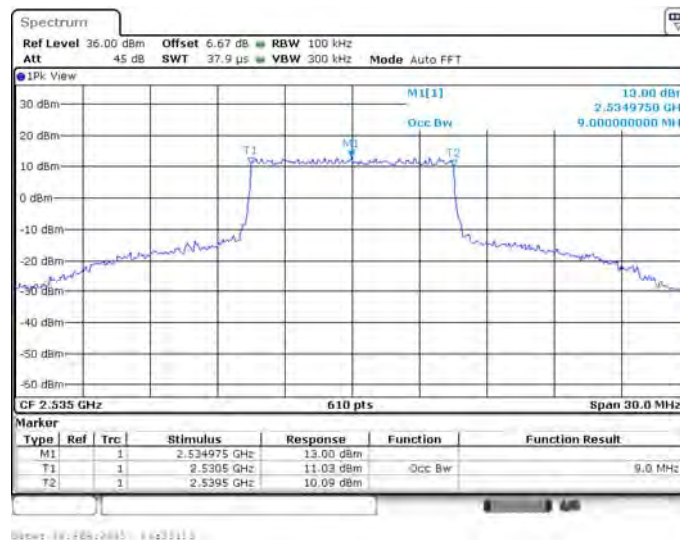
LTE band 7,10MHz(99%)

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

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



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



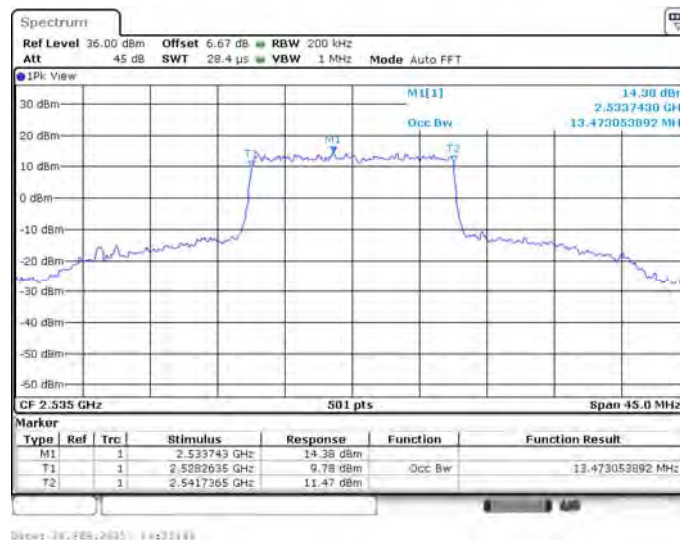
LTE band 7,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
2535	13.563	13.473

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



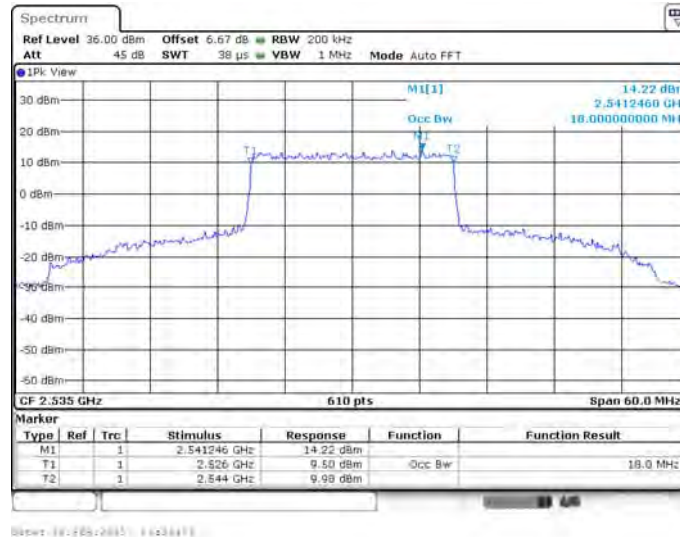
LTE band 7 , 15MHz Bandwidth,MID,16QAM (99% BW)



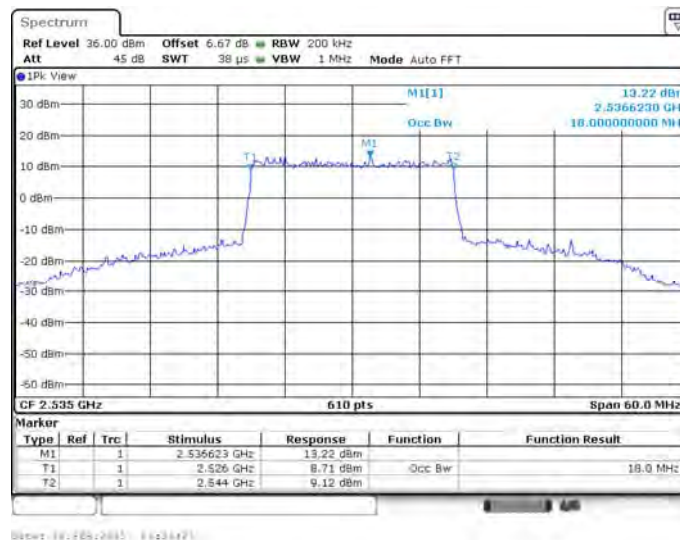
LTE band 7,20MHz(99%)

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

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



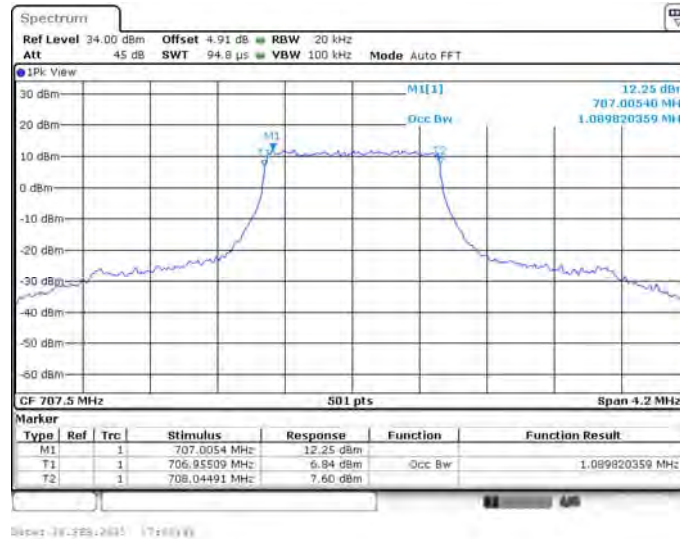
LTE band 7 , 20MHz Bandwidth,MID,16QAM (99% BW)



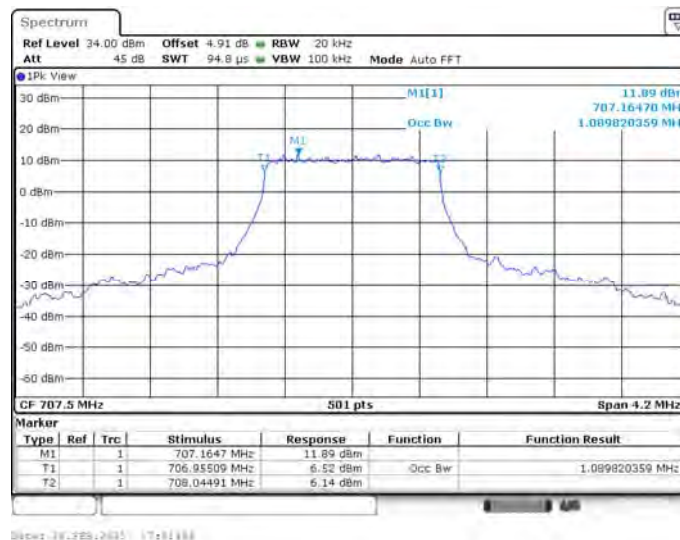
LTE band 12,1.4MHz(99%)

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)



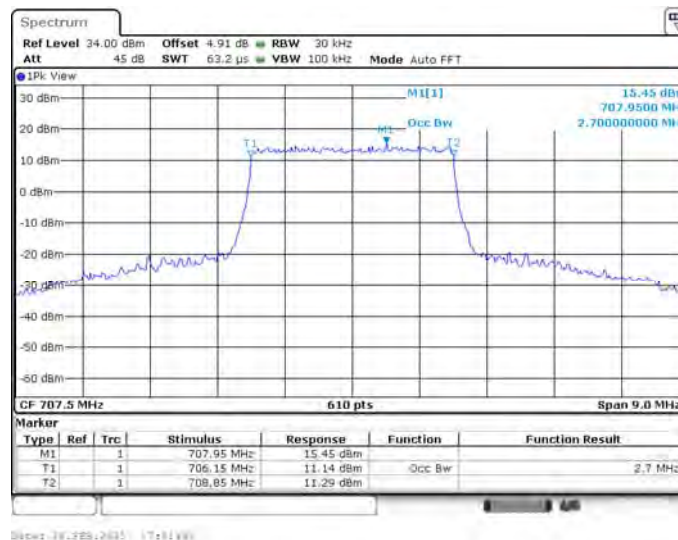
LTE band 12,3MHz(99%)

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

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



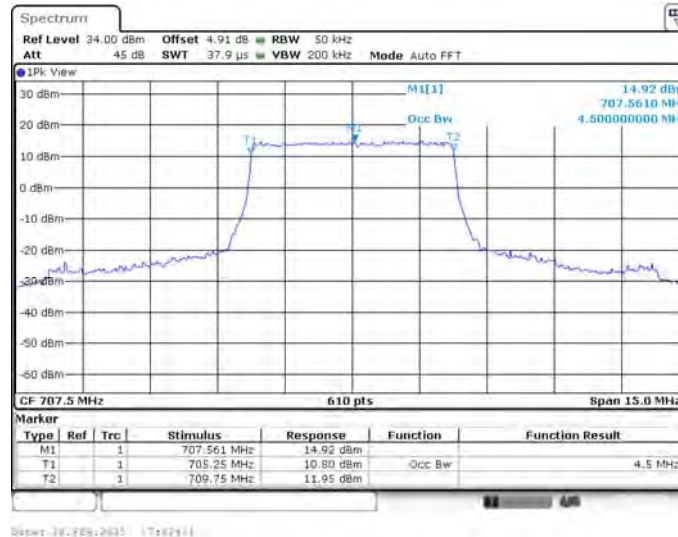
LTE band 12 , 3MHz Bandwidth,MID,16QAM (99% BW)



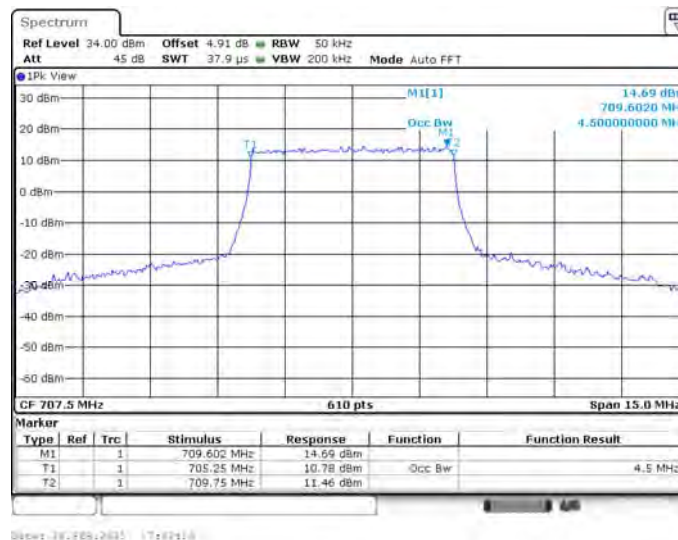
LTE band 12,5MHz(99%)

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

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



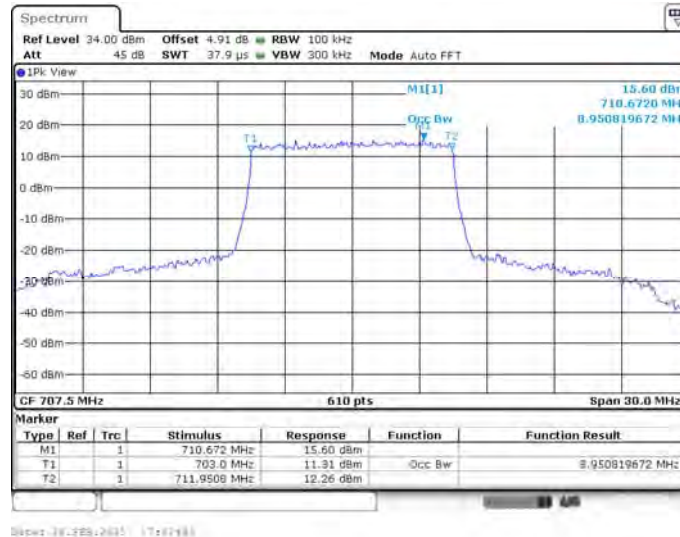
LTE band 12 , 5MHz Bandwidth,MID,16QAM (99% BW)



LTE band 12,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
707.5	8.951	9.000

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



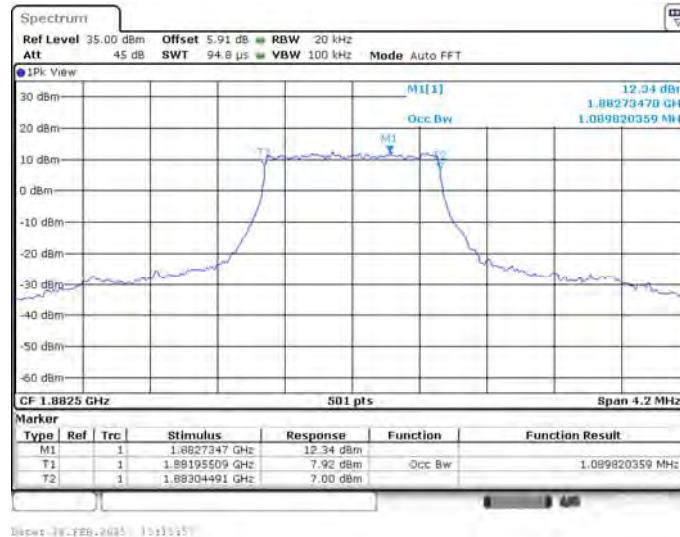
LTE band 12 , 10MHz Bandwidth,MID,16QAM (99% BW)



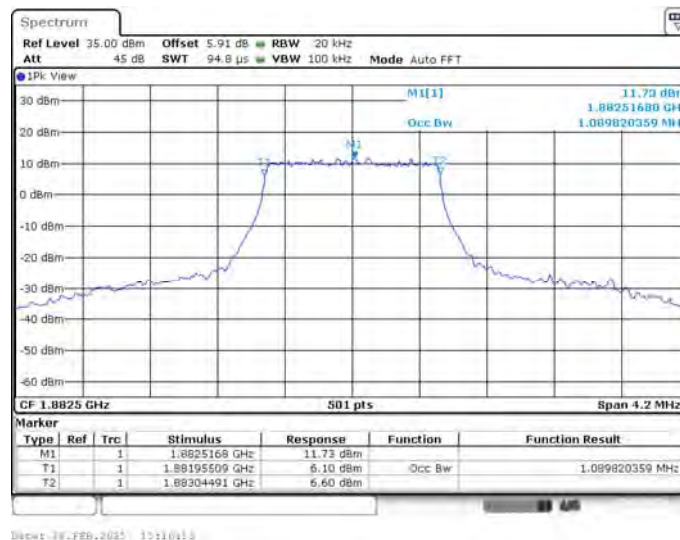
LTE band 25,1.4MHz(99%)

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

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



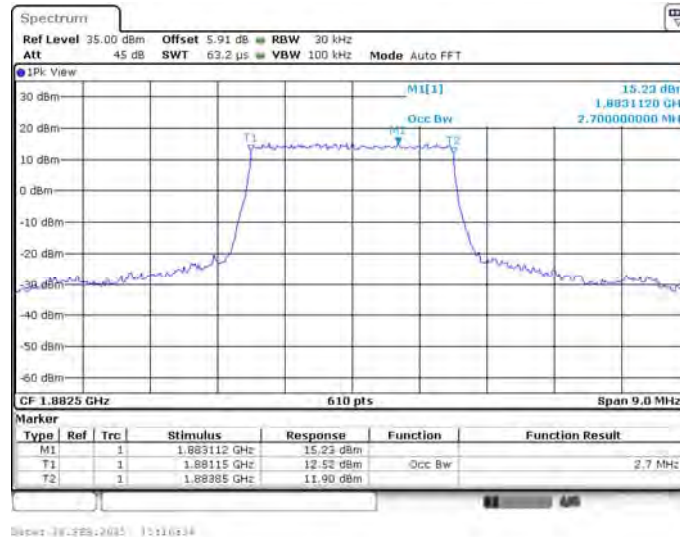
LTE band 25 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



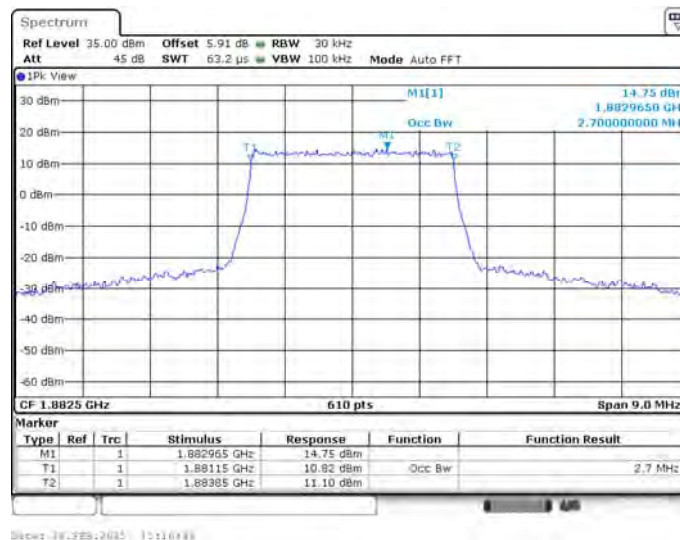
LTE band 25,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1882.5	2.700	2.700

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



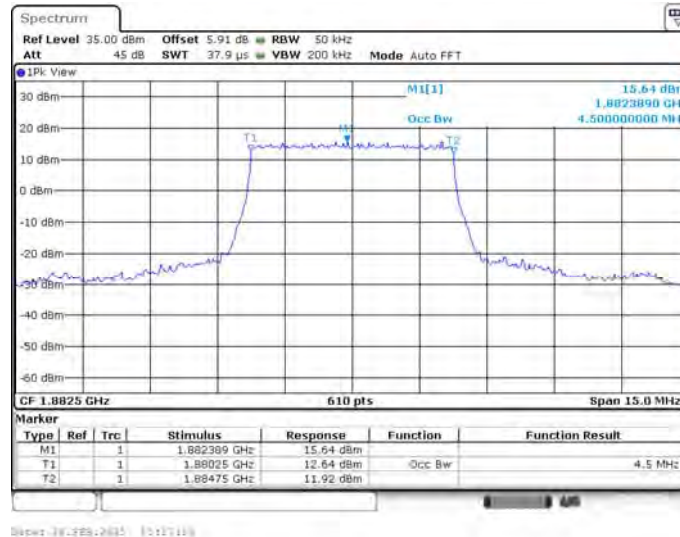
LTE band 25 , 3MHz Bandwidth,MID,16QAM (99% BW)



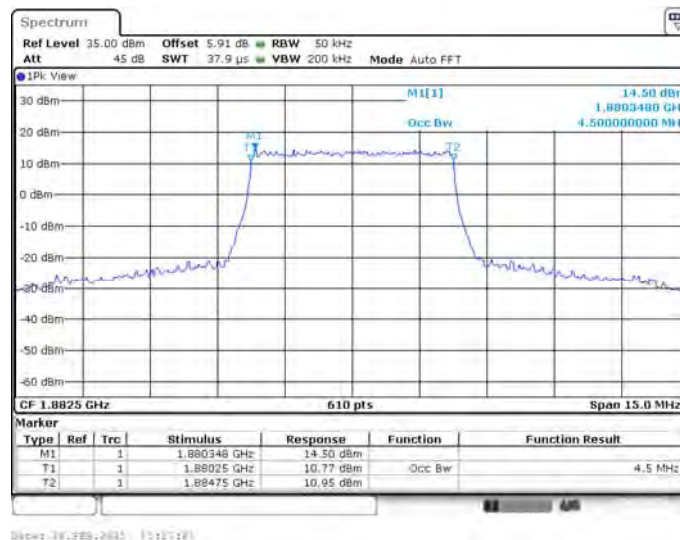
LTE band 25,5MHz(99%)

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

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



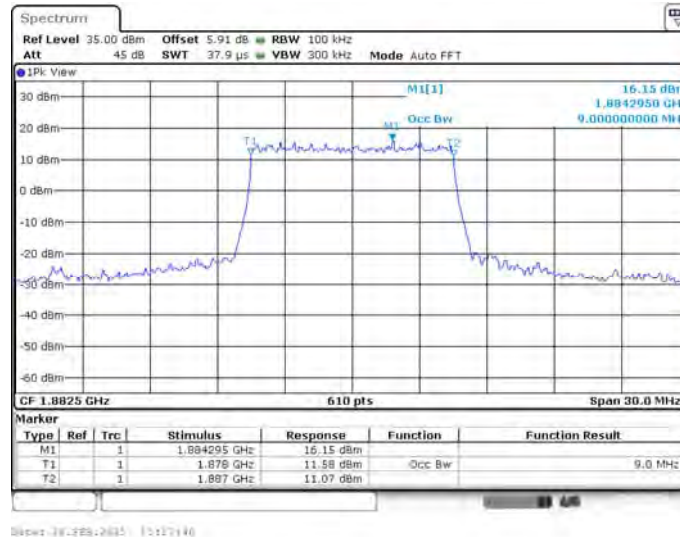
LTE band 25 , 5MHz Bandwidth,MID,16QAM (99% BW)



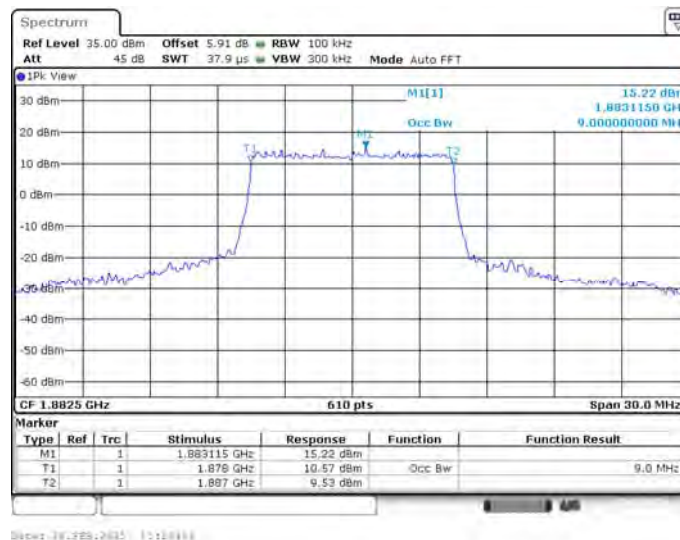
LTE band 25,10MHz(99%)

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

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



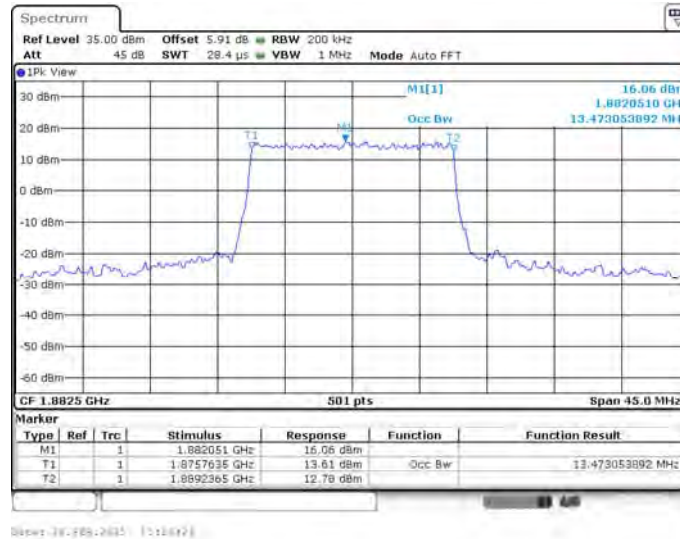
LTE band 25 , 10MHz Bandwidth,MID,16QAM (99% BW)



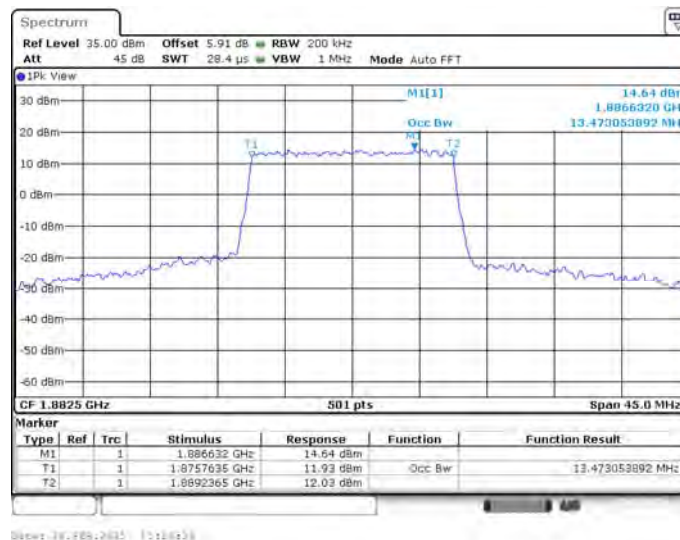
LTE band 25,15MHz(99%)

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

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



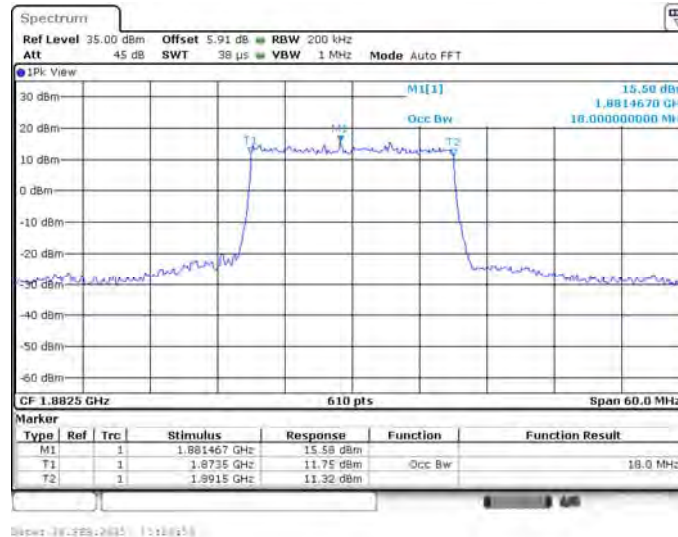
LTE band 25 , 15MHz Bandwidth,MID,16QAM (99% BW)



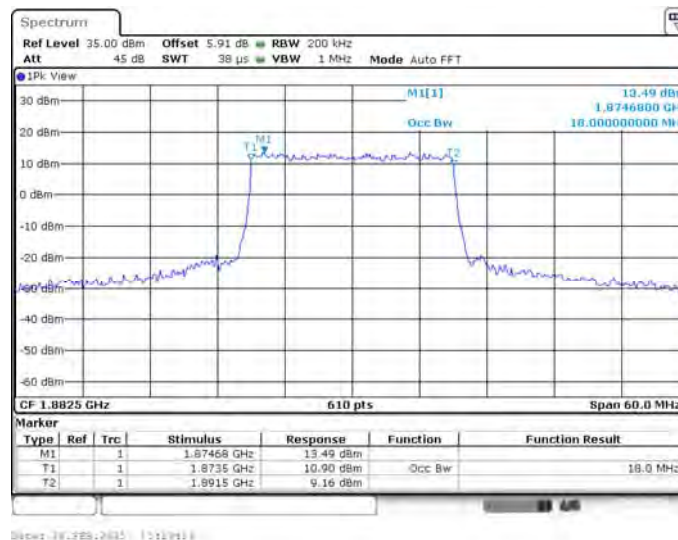
LTE band 25,20MHz(99%)

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

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



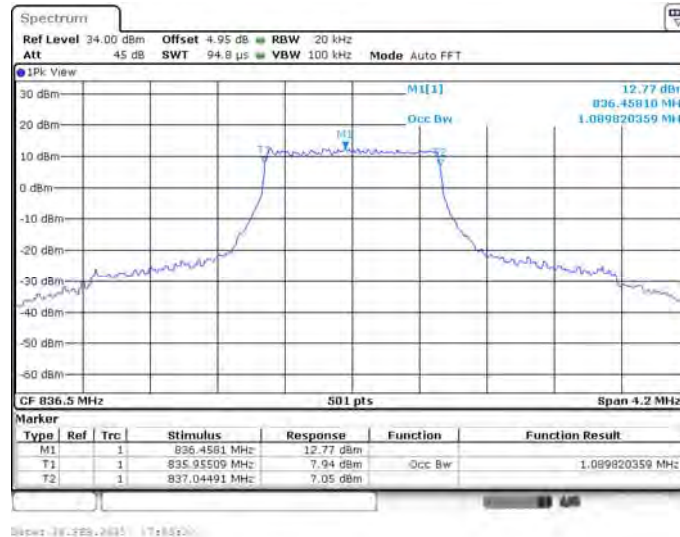
LTE band 25 , 20MHz Bandwidth,MID,16QAM (99% BW)



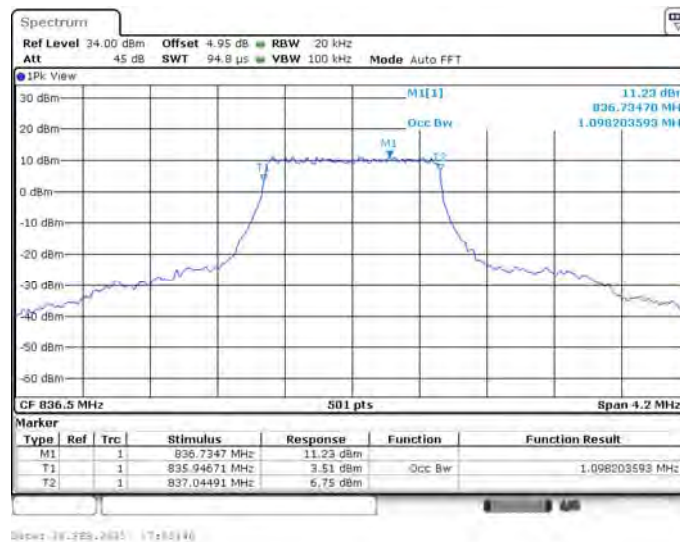
LTE band 26_Part22,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
836.5	1.090	1.098

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



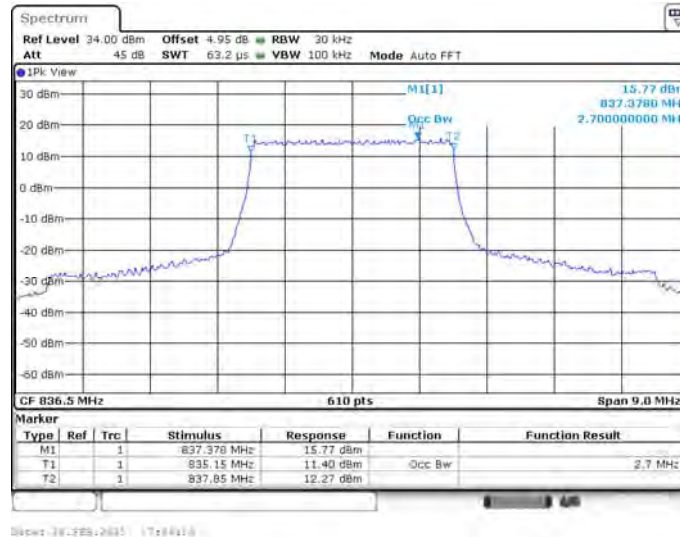
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



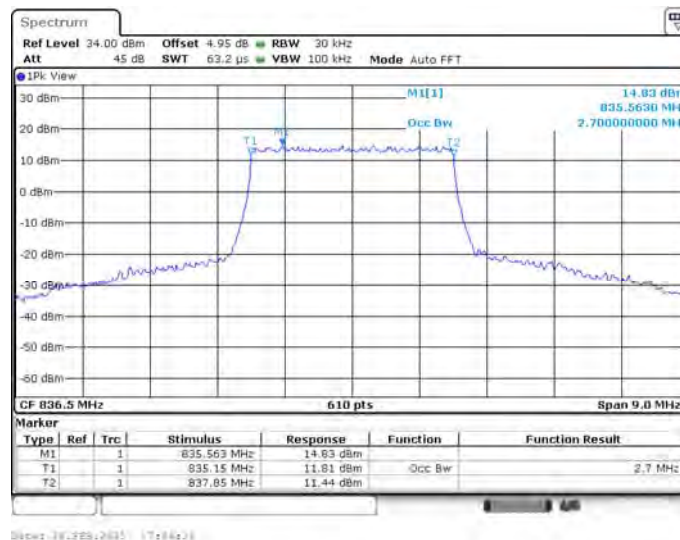
LTE band 26_Part22,3MHz(99%)

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

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



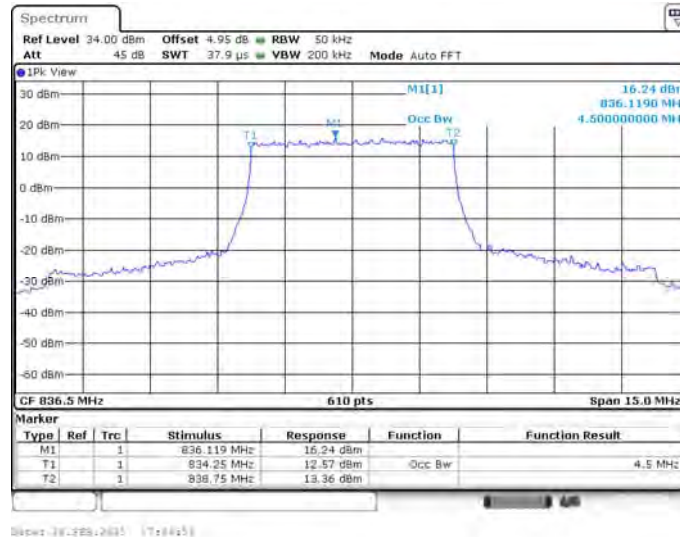
LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)



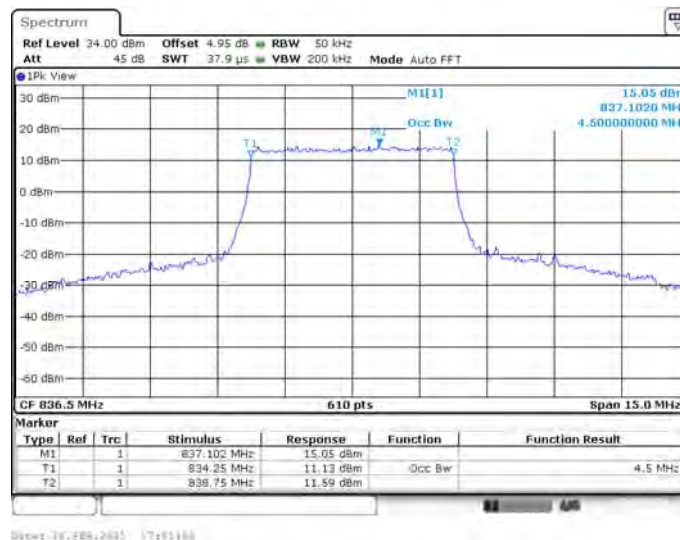
LTE band 26_Part22,5MHz(99%)

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

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



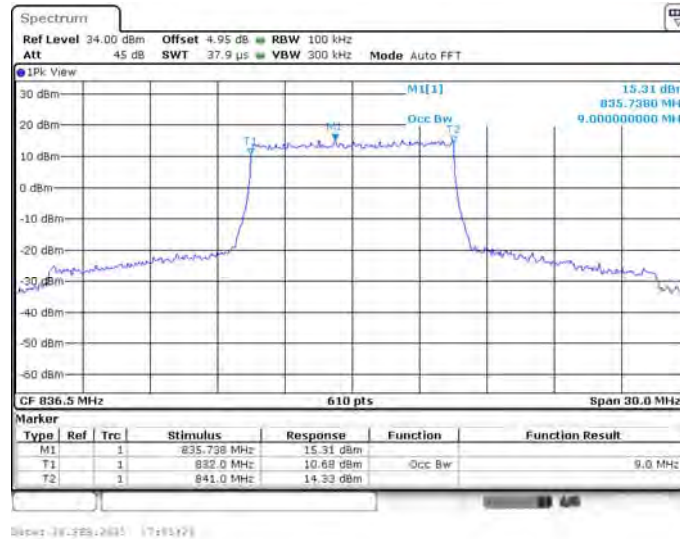
LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)



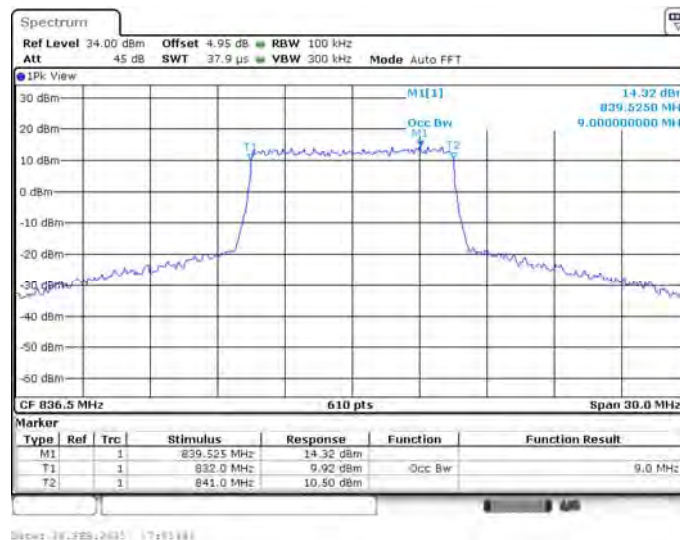
LTE band 26_Part22,10MHz(99%)

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

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



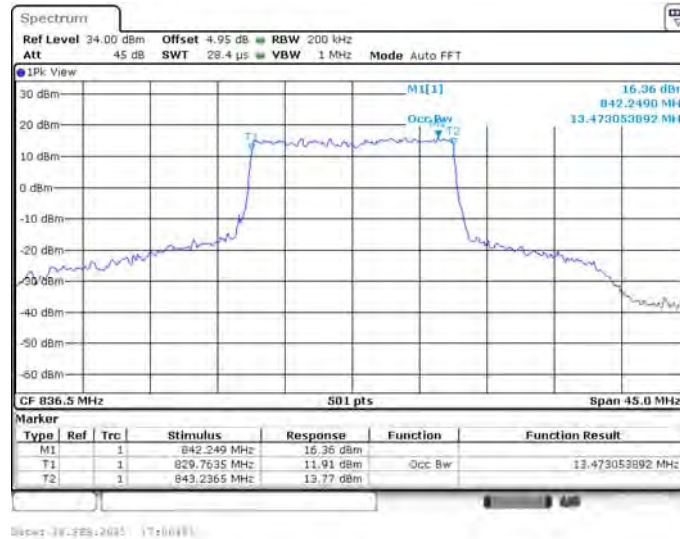
LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)



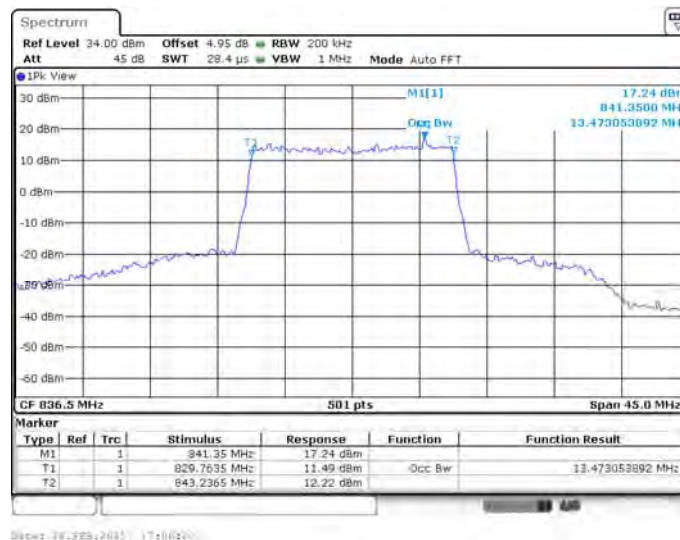
LTE band 26_Part22,15MHz(99%)

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

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



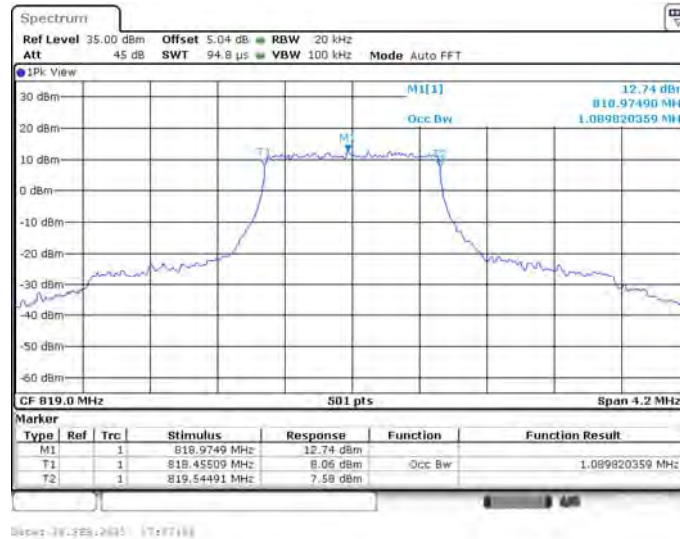
LTE band 26 , 15MHz Bandwidth,MID,16QAM (99% BW)



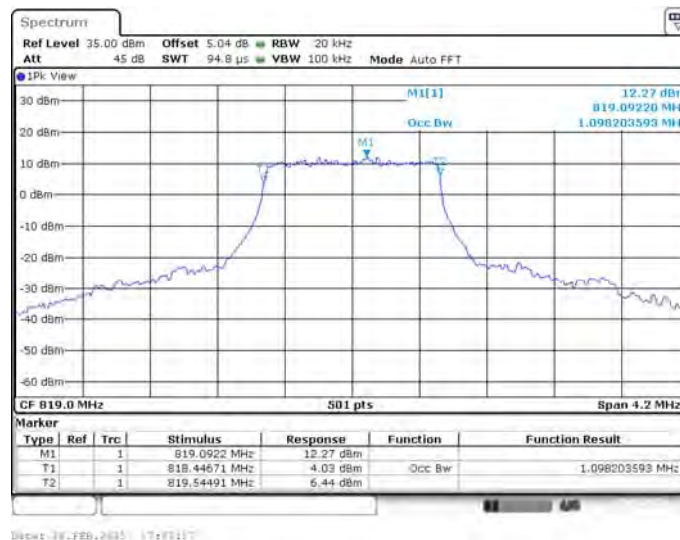
LTE band 26_Part90,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	1.090	1.098

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



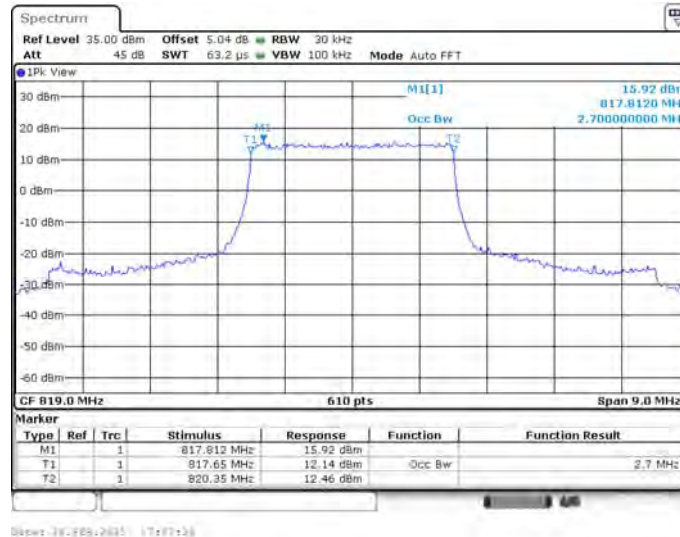
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



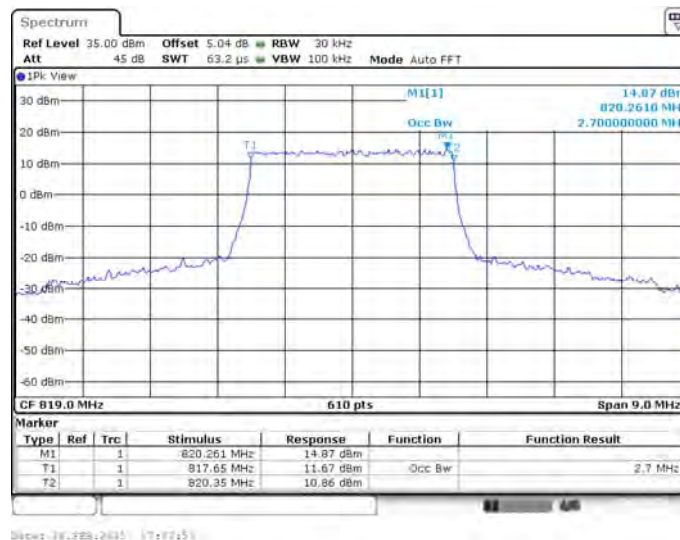
LTE band 26_Part90,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	2.700	2.700

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



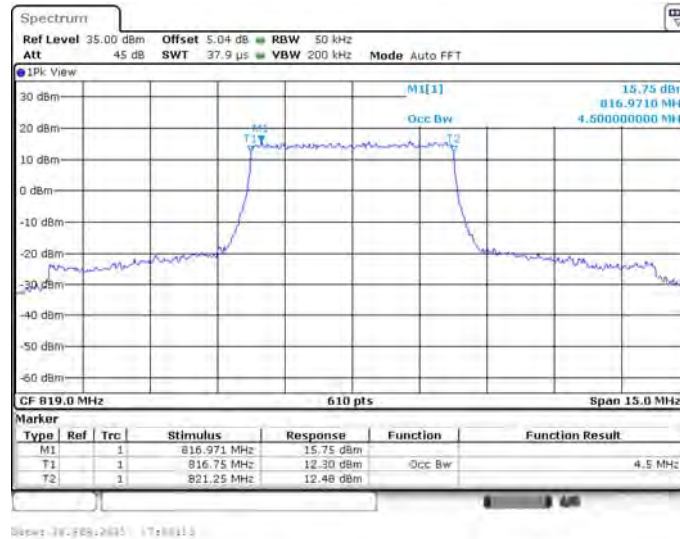
LTE band 26 , 3MHz Bandwidth,MID,16QAM (99% BW)



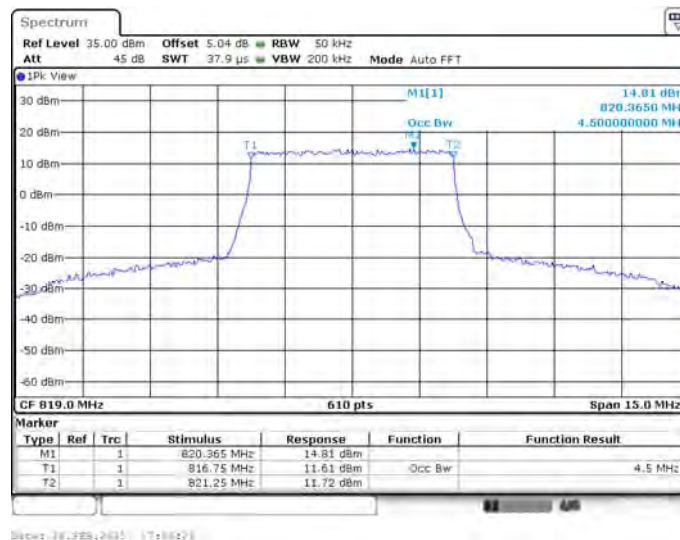
LTE band 26_Part90,5MHz(99%)

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

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



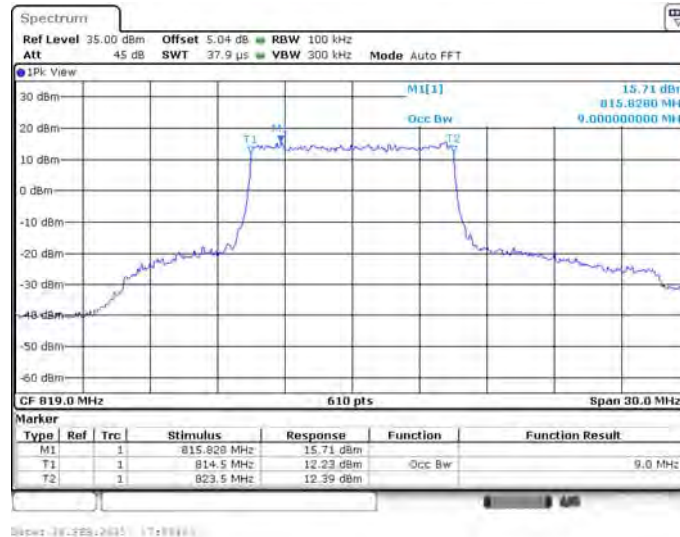
LTE band 26 , 5MHz Bandwidth,MID,16QAM (99% BW)



LTE band 26_Part90,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
819	9.000	9.000

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



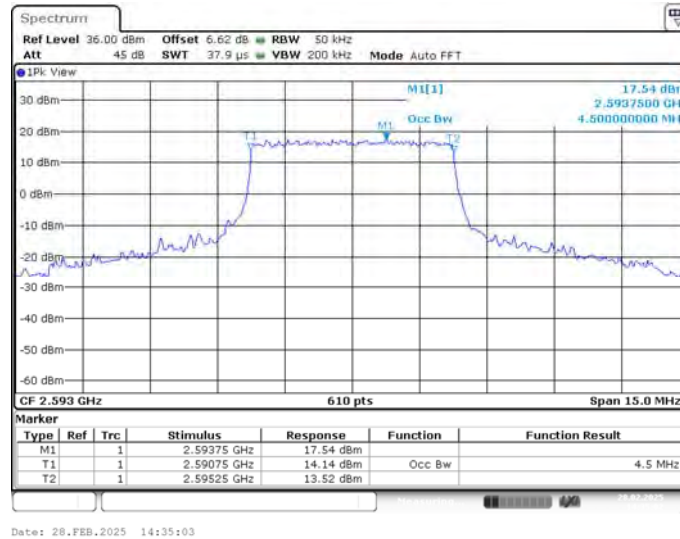
LTE band 26 , 10MHz Bandwidth,MID,16QAM (99% BW)



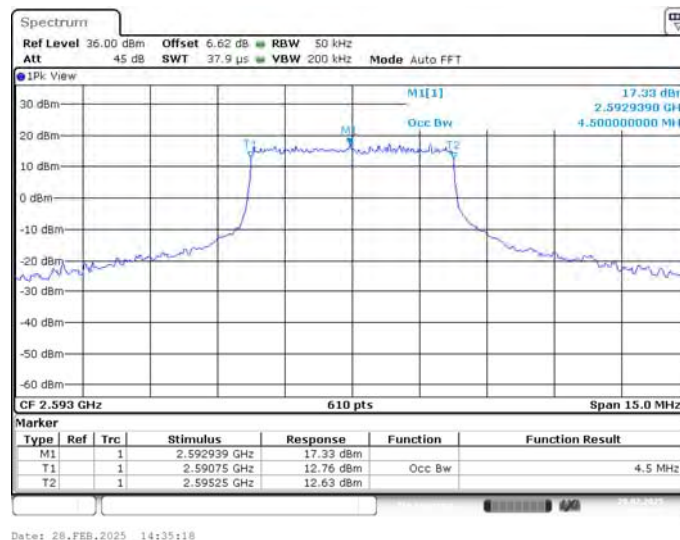
LTE band 41,5MHz(99%)

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

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



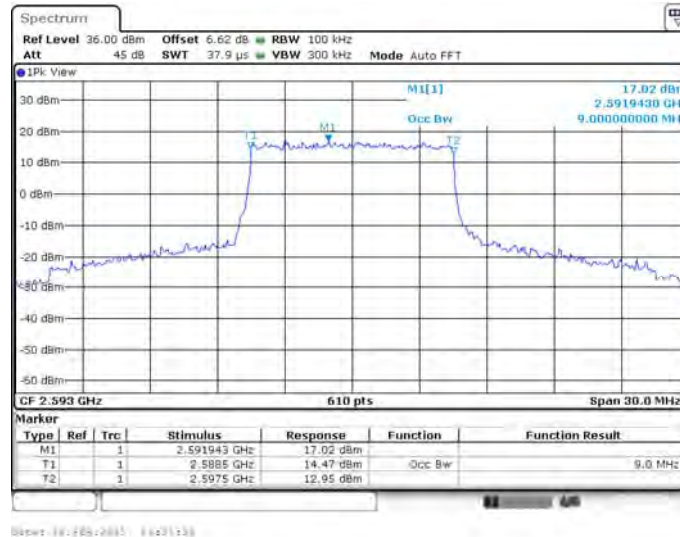
LTE band 41 , 5MHz Bandwidth,MID,16QAM (99% BW)



LTE band 41,10MHz(99%)

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

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



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



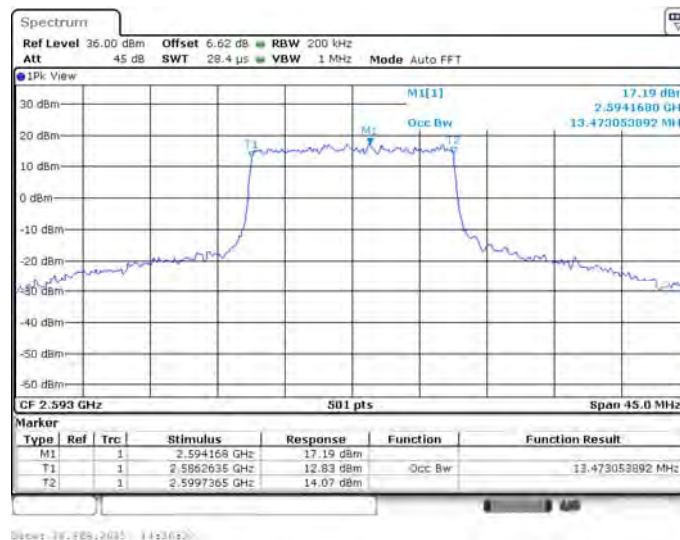
LTE band 41,15MHz(99%)

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

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



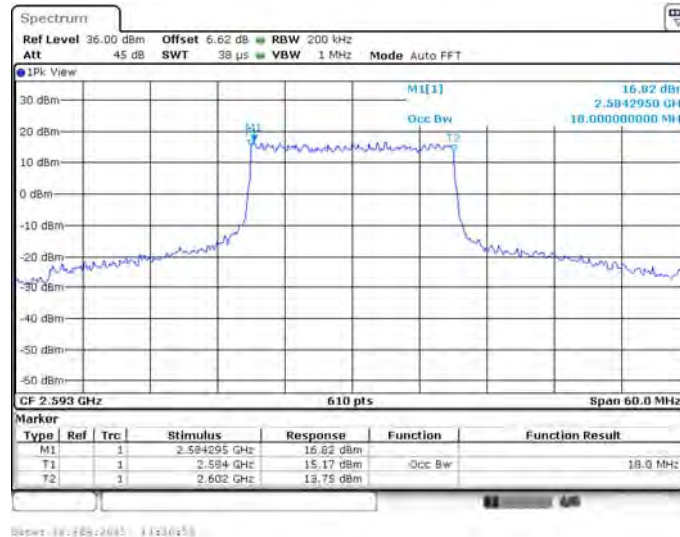
LTE band 41 , 15MHz Bandwidth,MID,16QAM (99% BW)



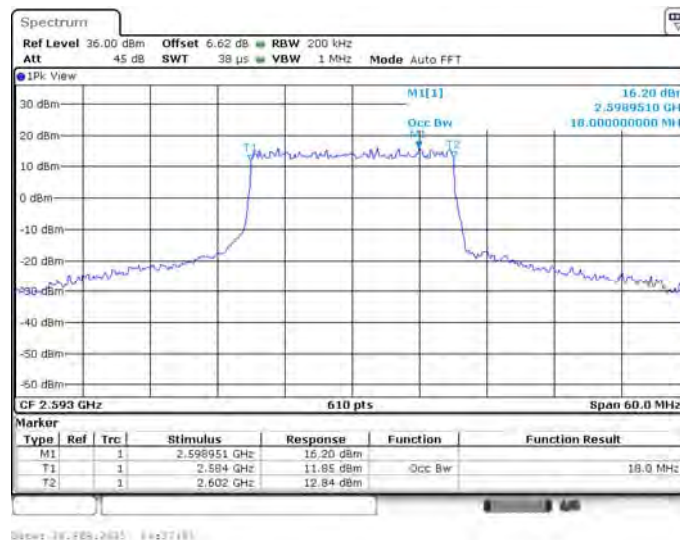
LTE band 41,20MHz(99%)

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

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



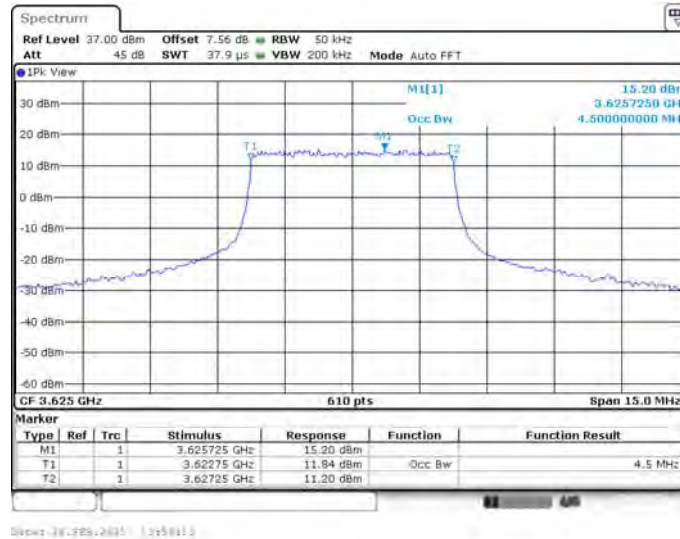
LTE band 41 , 20MHz Bandwidth,MID,16QAM (99% BW)



LTE band 48,5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	4.500	4.500

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



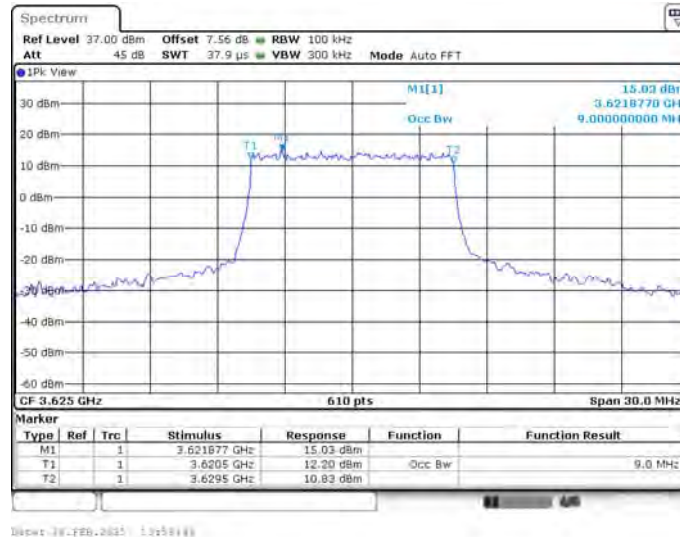
LTE band 48 , 5MHz Bandwidth,MID,16QAM (99% BW)



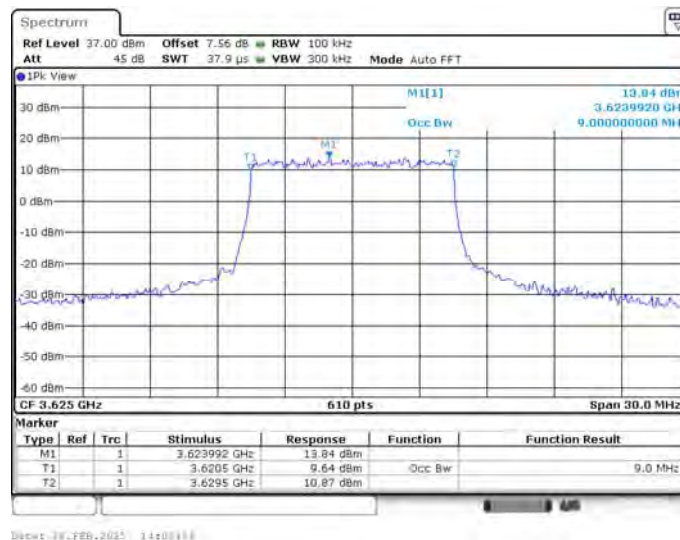
LTE band 48,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	9.000	9.000

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



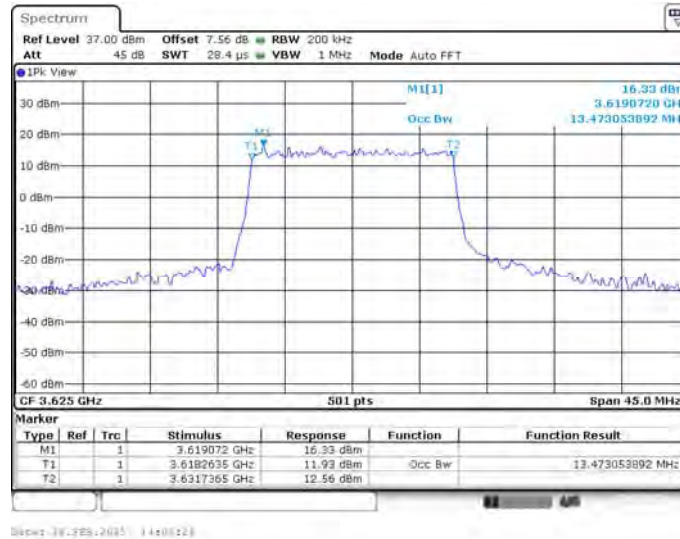
LTE band 48 , 10MHz Bandwidth,MID,16QAM (99% BW)



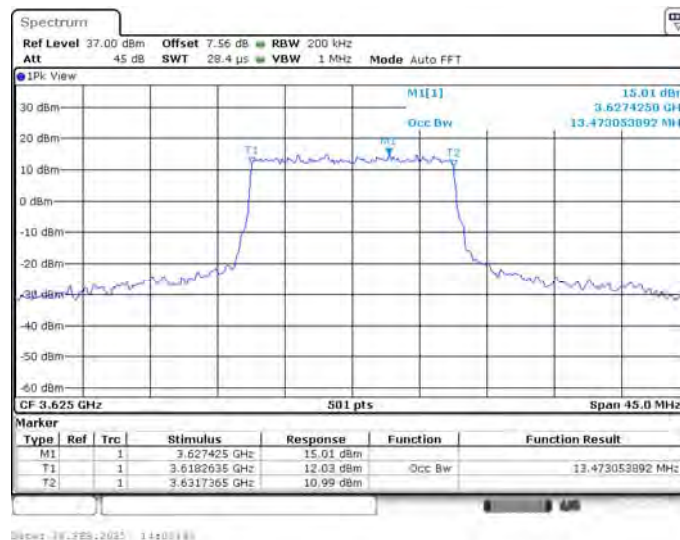
LTE band 48,15MHz(99%)

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

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



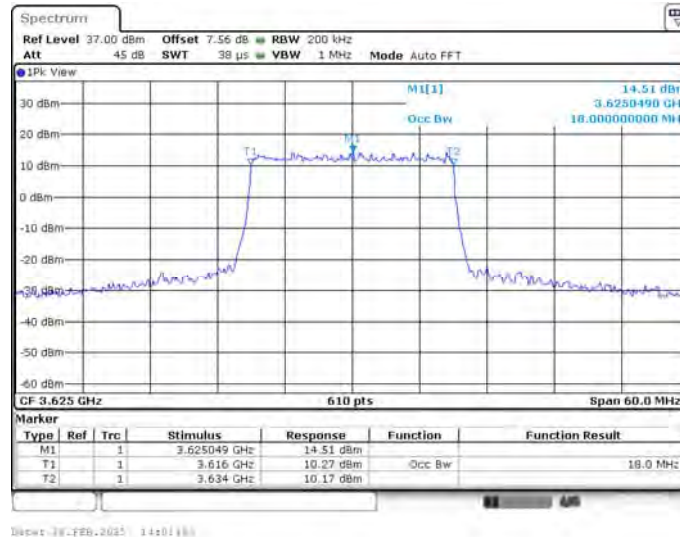
LTE band 48 , 15MHz Bandwidth,MID,16QAM (99% BW)



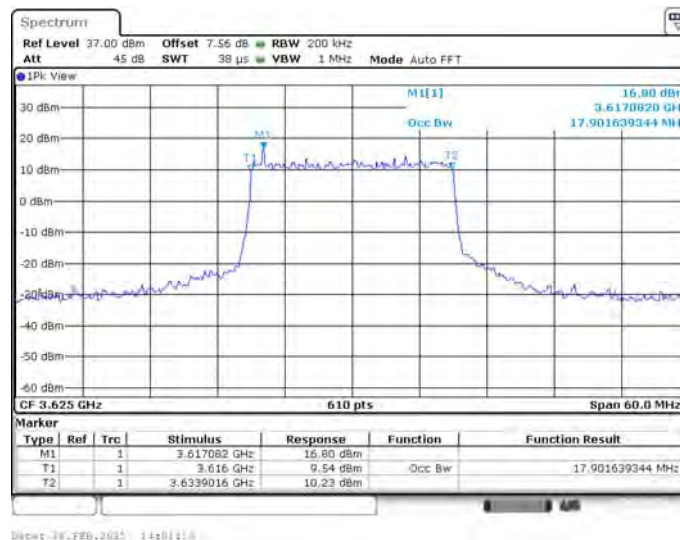
LTE band 48,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
3625	18.000	17.902

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



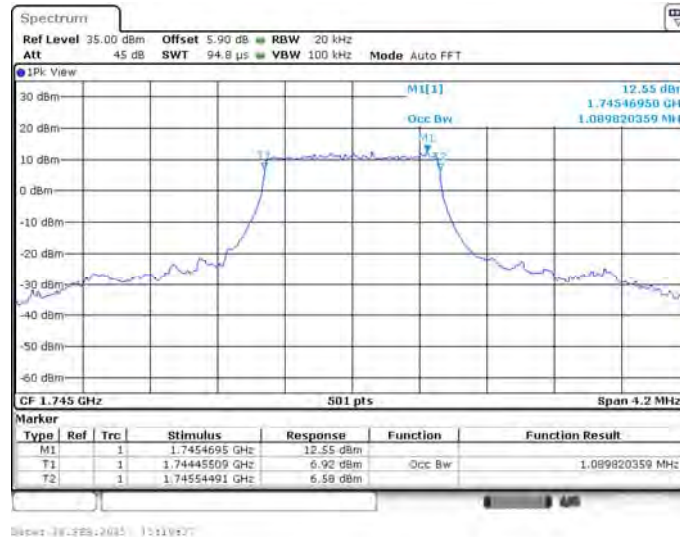
LTE band 48 , 20MHz Bandwidth,MID,16QAM (99% BW)



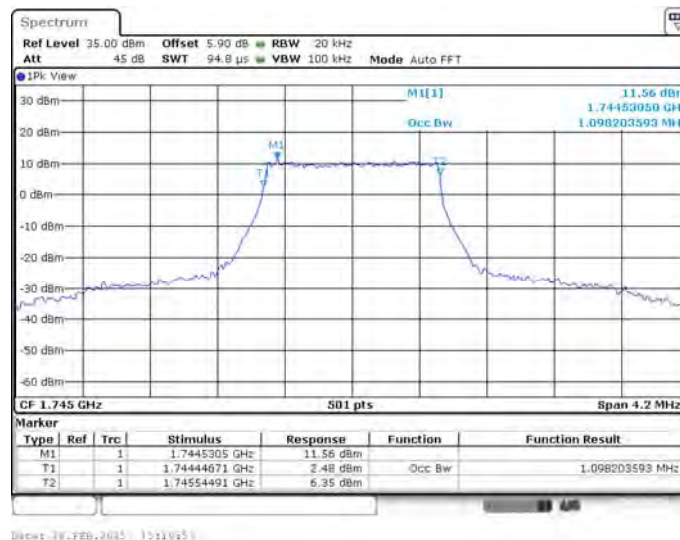
LTE band 66,1.4MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	1.090	1.098

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



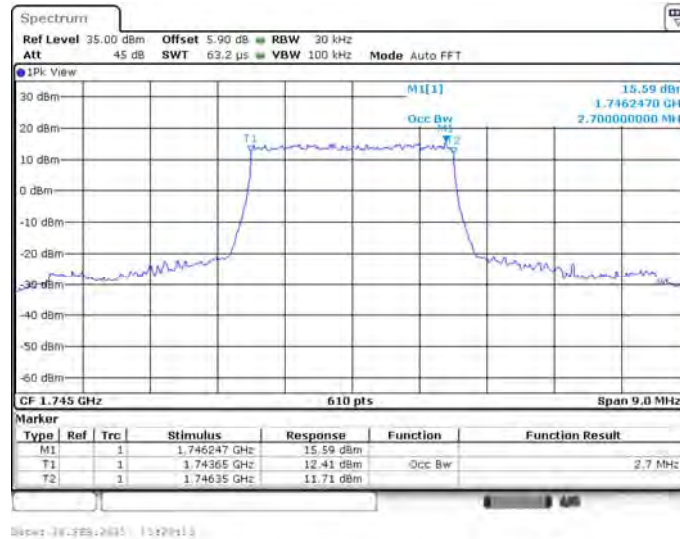
LTE band 66 , 1.4MHz Bandwidth,MID,16QAM (99% BW)



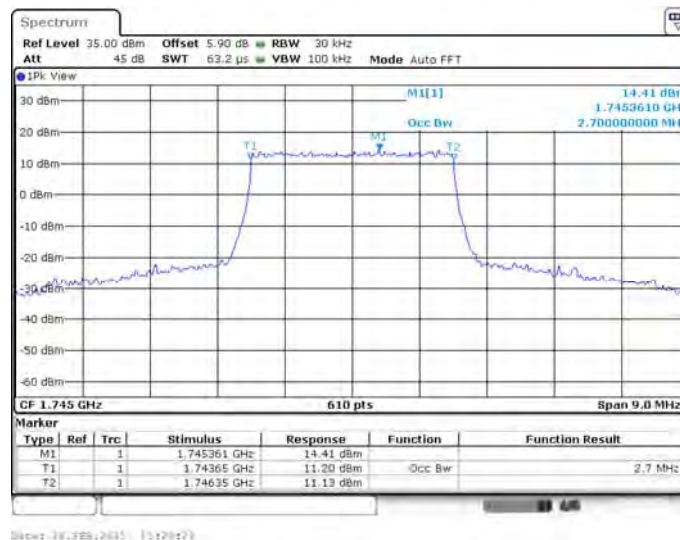
LTE band 66,3MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
1745	2.700	2.700

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



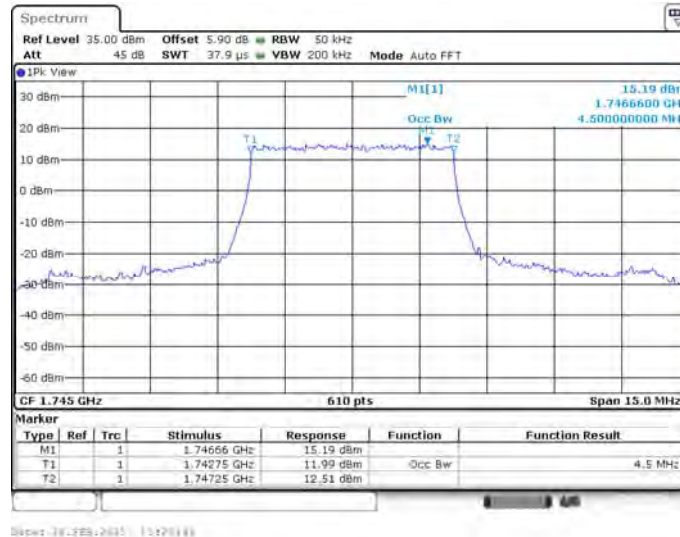
LTE band 66 , 3MHz Bandwidth,MID,16QAM (99% BW)



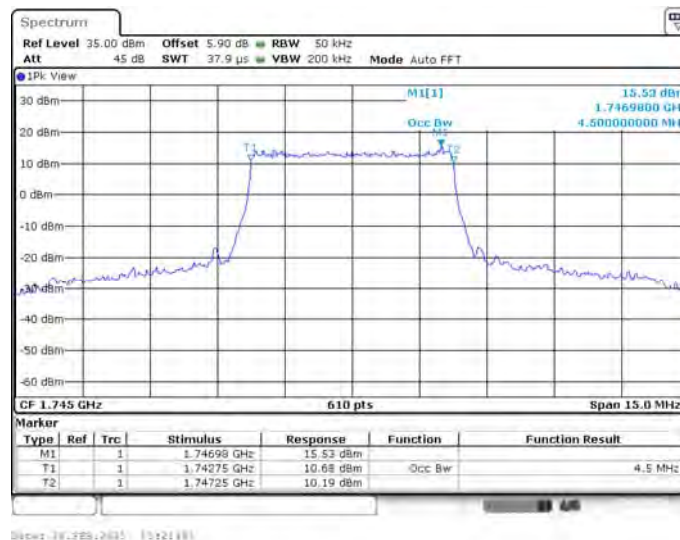
LTE band 66,5MHz(99%)

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

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



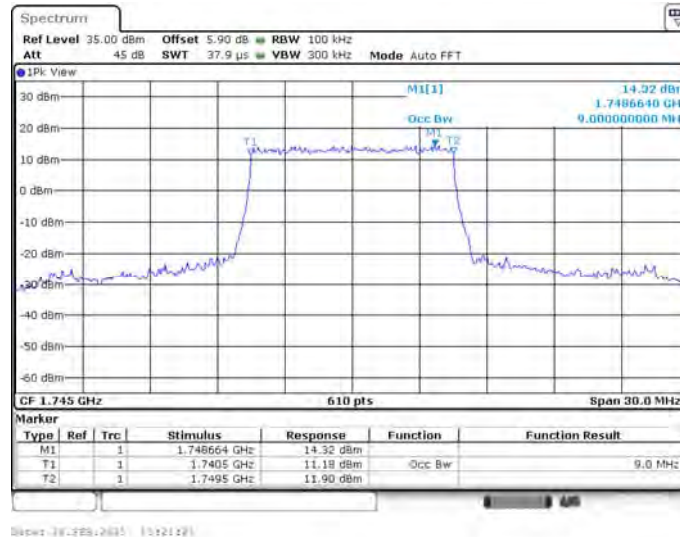
LTE band 66 , 5MHz Bandwidth,MID,16QAM (99% BW)



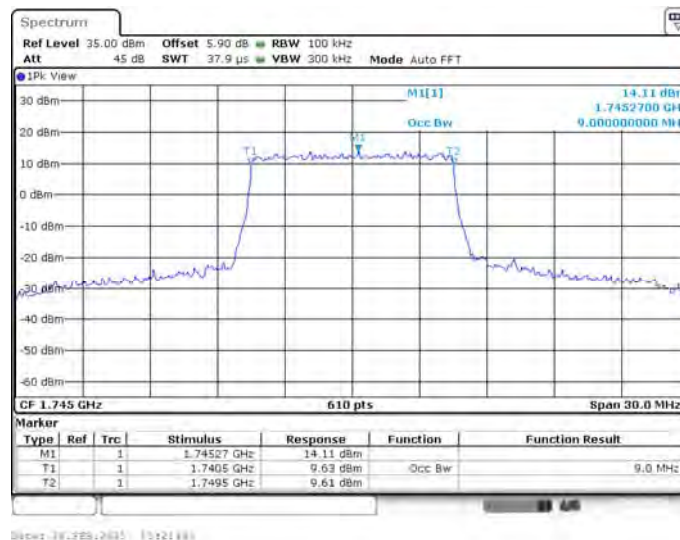
LTE band 66,10MHz(99%)

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

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



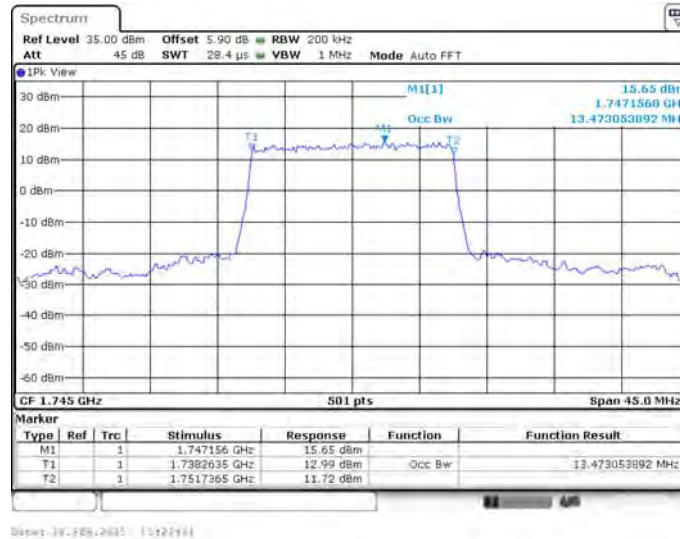
LTE band 66 , 10MHz Bandwidth,MID,16QAM (99% BW)



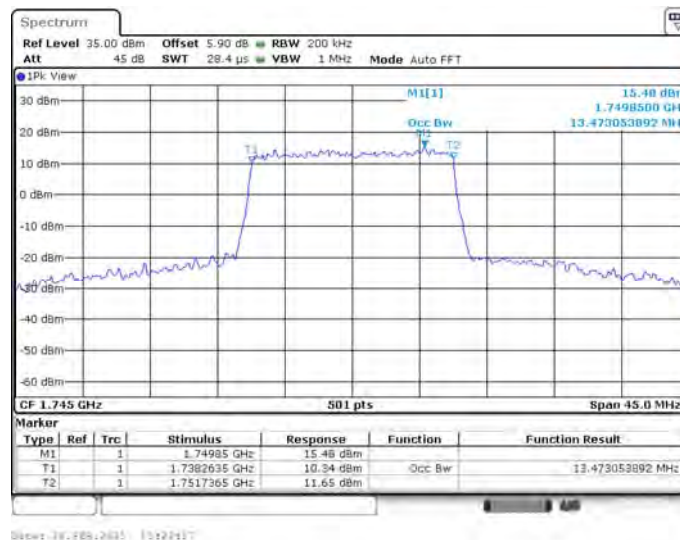
LTE band 66,15MHz(99%)

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

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



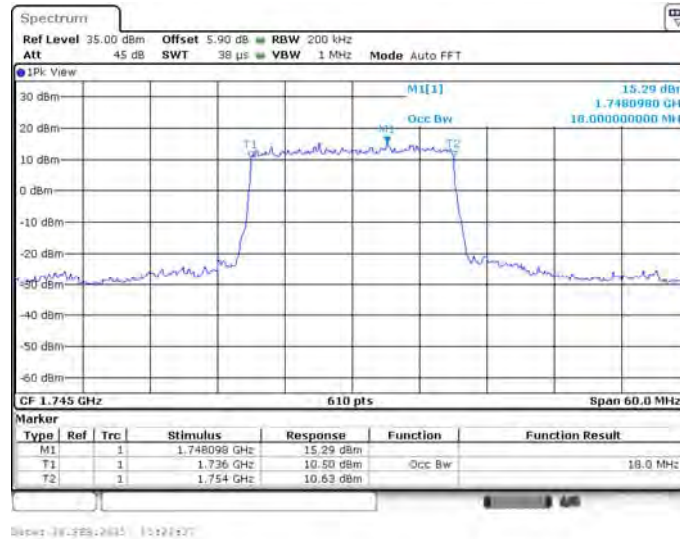
LTE band 66 , 15MHz Bandwidth,MID,16QAM (99% BW)



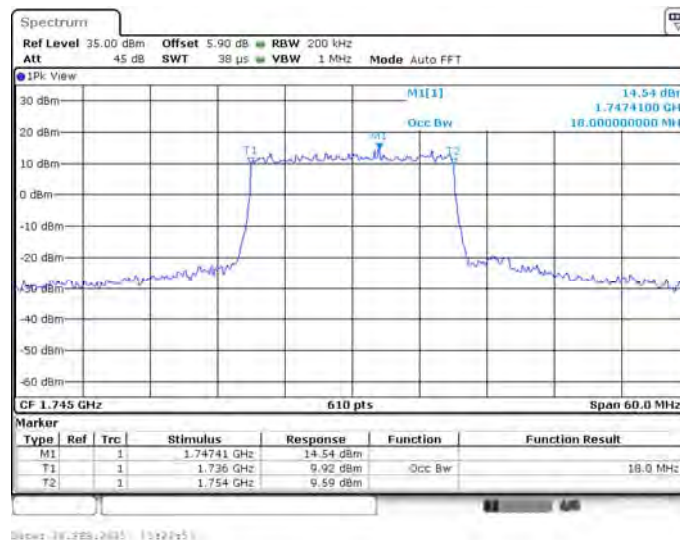
LTE band 66,20MHz(99%)

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

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



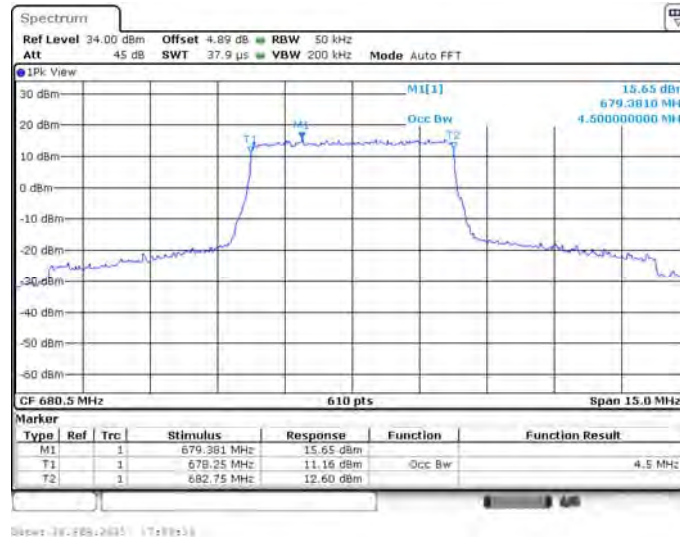
LTE band 66 , 20MHz Bandwidth,MID,16QAM (99% BW)



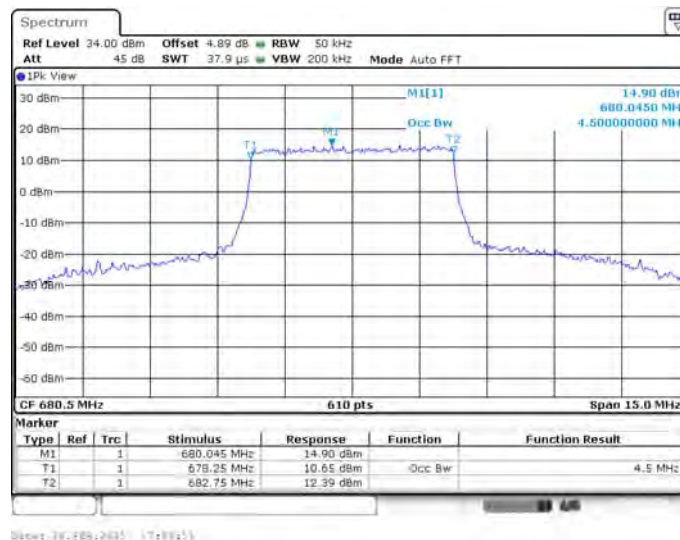
LTE band 71,5MHz(99%)

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

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



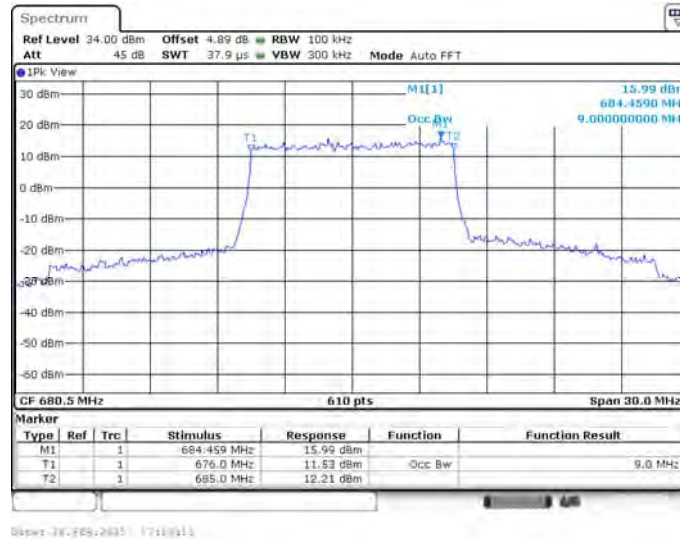
LTE band 71 , 5MHz Bandwidth,MID,16QAM (99% BW)



LTE band 71,10MHz(99%)

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

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



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



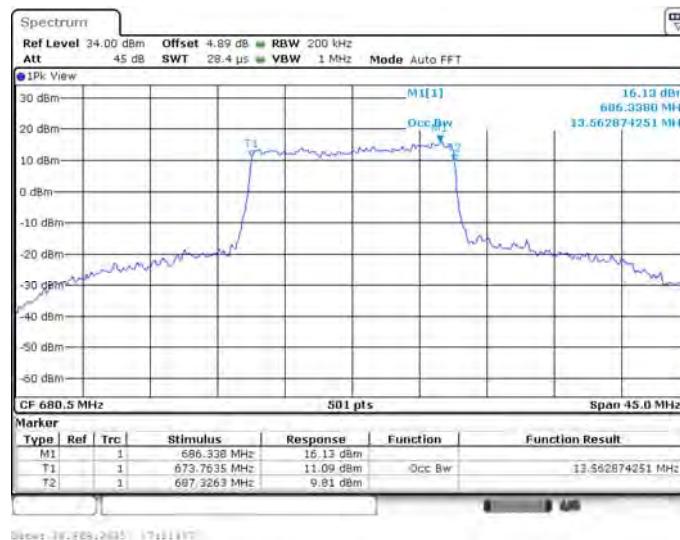
LTE band 71,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%)(MHz)	
	QPSK	16QAM
680.5	13.563	13.563

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



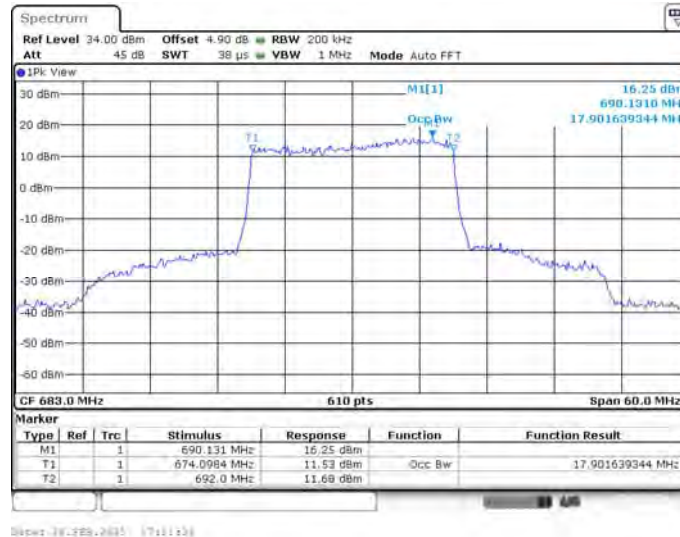
LTE band 71 , 15MHz Bandwidth,MID,16QAM (99% BW)



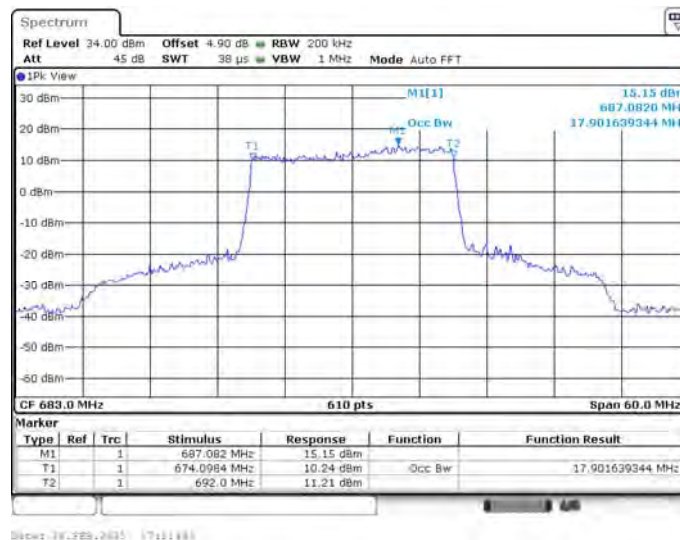
LTE band 71,20MHz(99%)

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

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



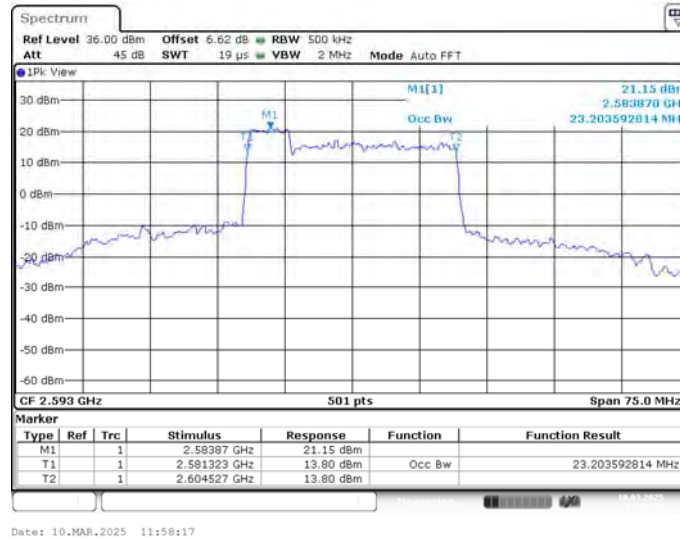
LTE band 71 , 20MHz Bandwidth,MID,16QAM (99% BW)



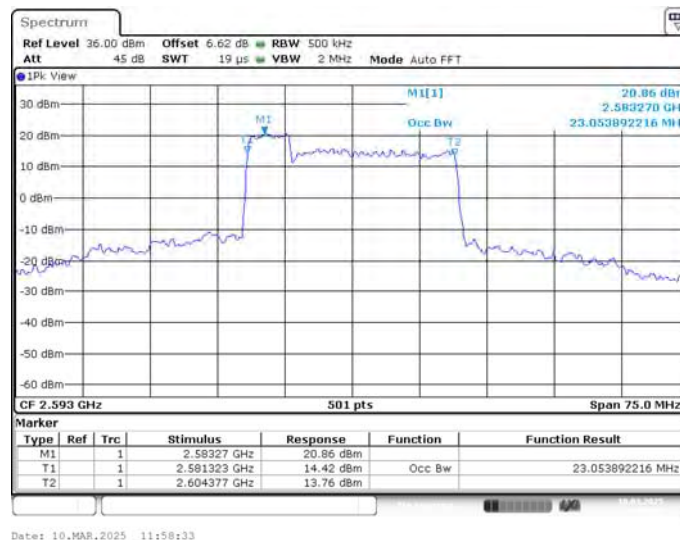
LTE CA band 41C, 5MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.204	23.054

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



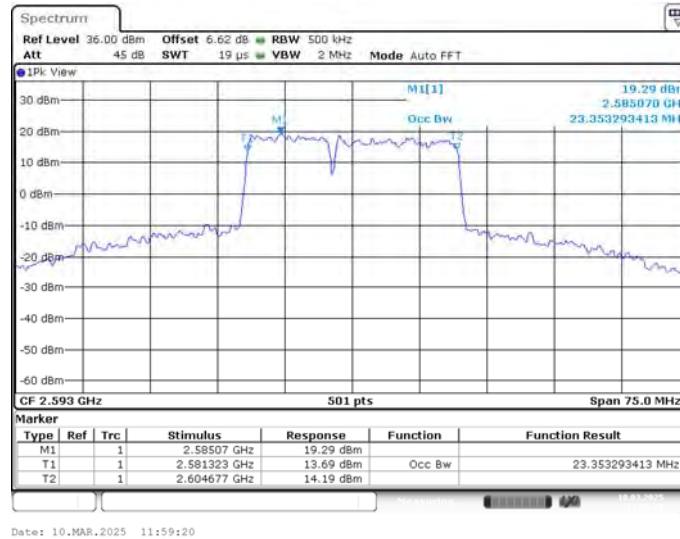
LTE CA band 41C , 5MHz+20MHz Bandwidth,16QAM (99% BW)



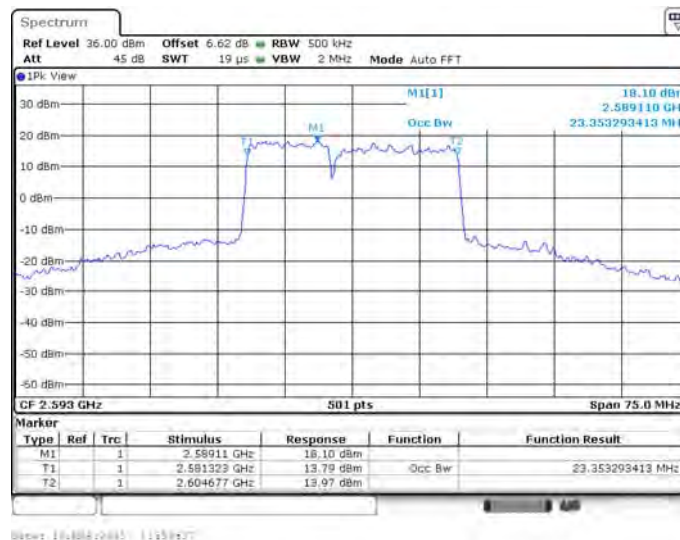
LTE CA band 41C, 10MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.353	23.353

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



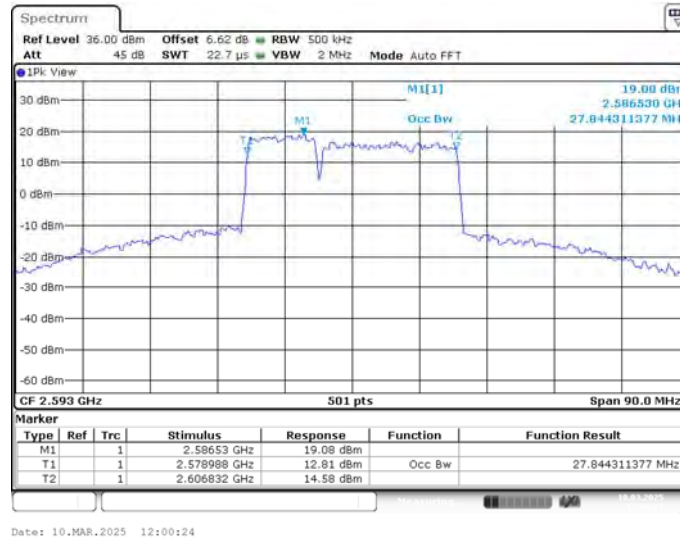
LTE CA band 41C , 10MHz+15MHz Bandwidth,16QAM (99% BW)



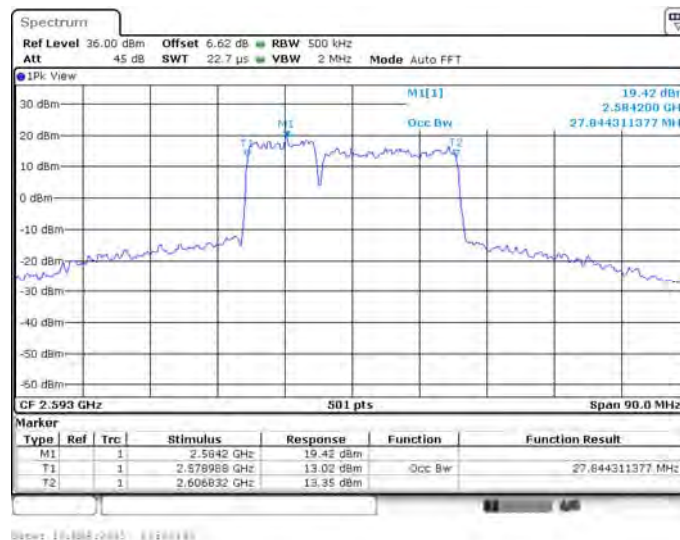
LTE CA band 41C, 10MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.844	27.844

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



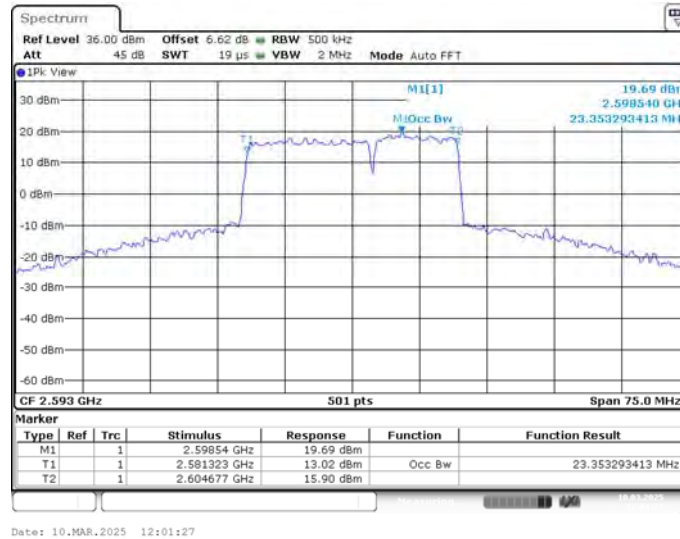
LTE CA band 41C , 10MHz+20MHz Bandwidth,16QAM (99% BW)



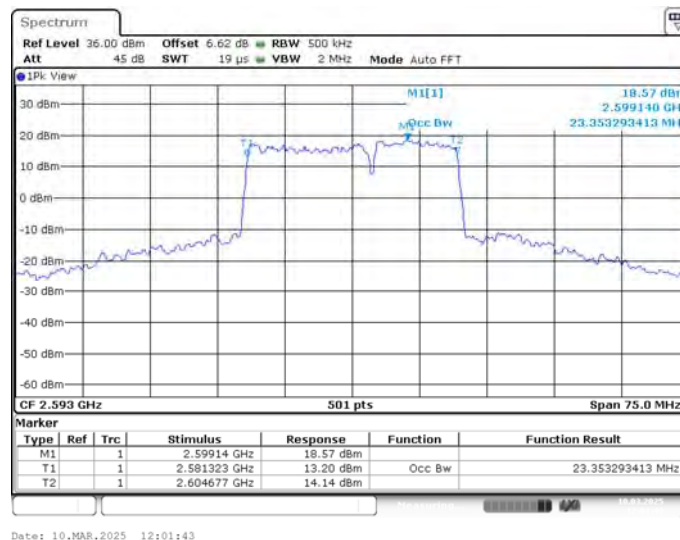
LTE CA band 41C, 15MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.353	23.353

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



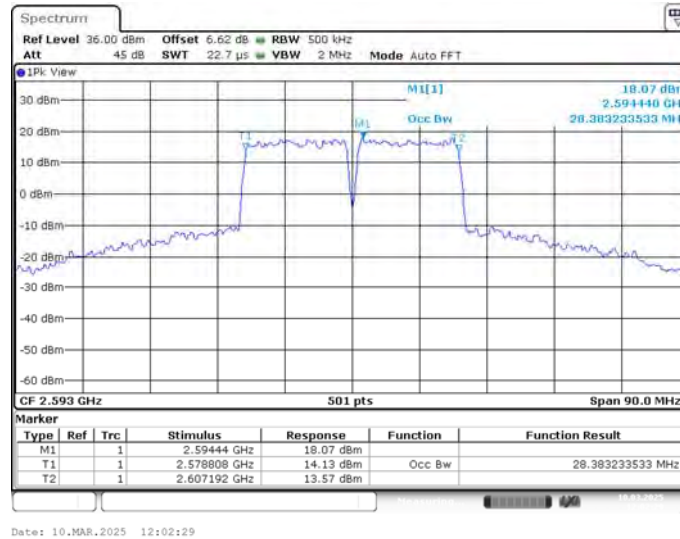
LTE CA band 41C , 15MHz+10MHz Bandwidth,16QAM (99% BW)



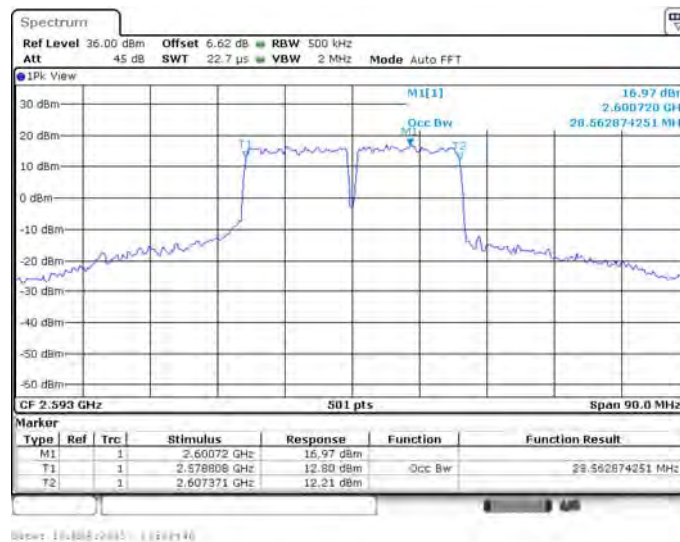
LTE CA band 41C, 15MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	28.383	28.563

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



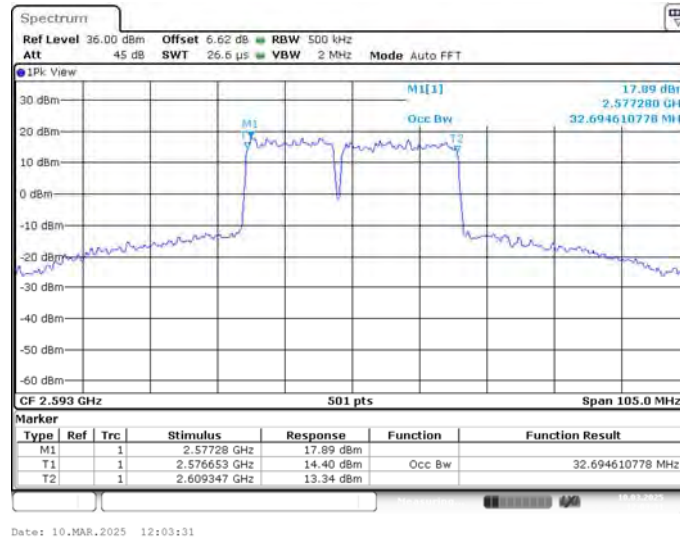
LTE CA band 41C , 15MHz+15MHz Bandwidth,16QAM (99% BW)



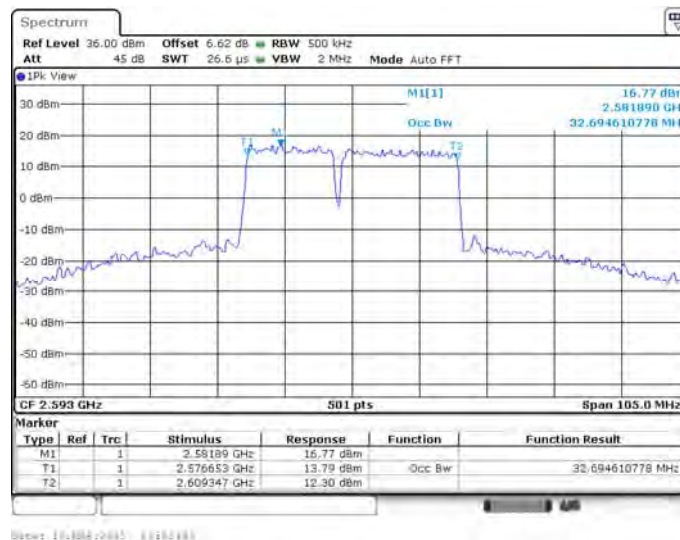
LTE CA band 41C, 15MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.695	32.695

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



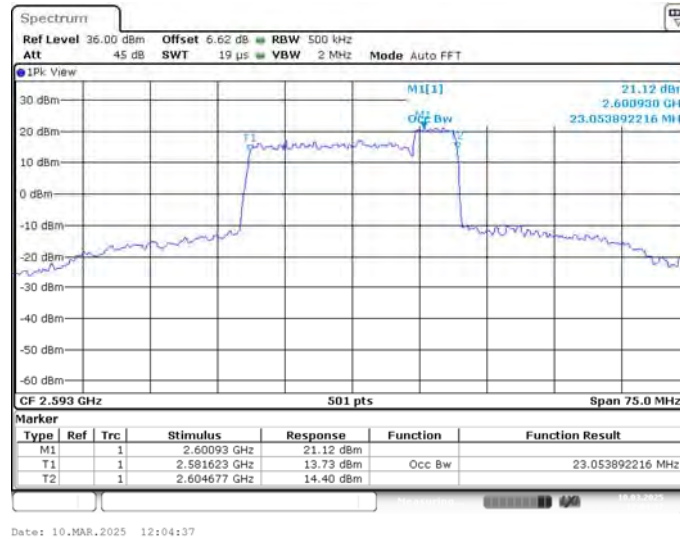
LTE CA band 41C , 15MHz+20MHz Bandwidth,16QAM (99% BW)



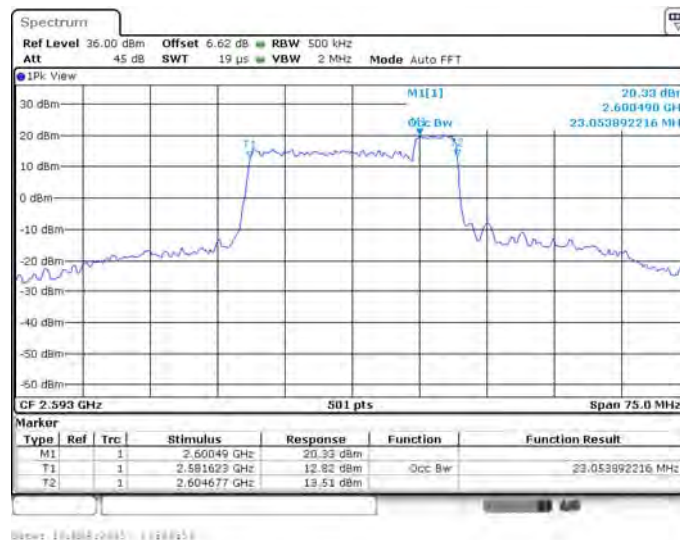
LTE CA band 41C, 20MHz+5MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	23.054	23.054

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



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



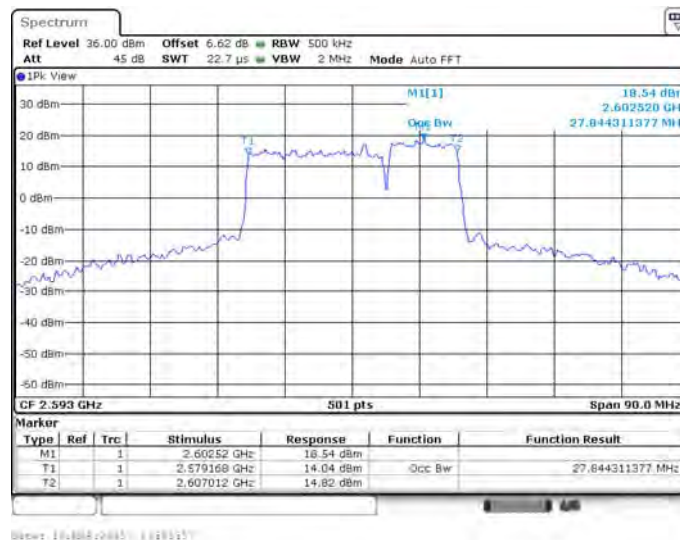
LTE CA band 41C, 20MHz+10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	27.844	27.844

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



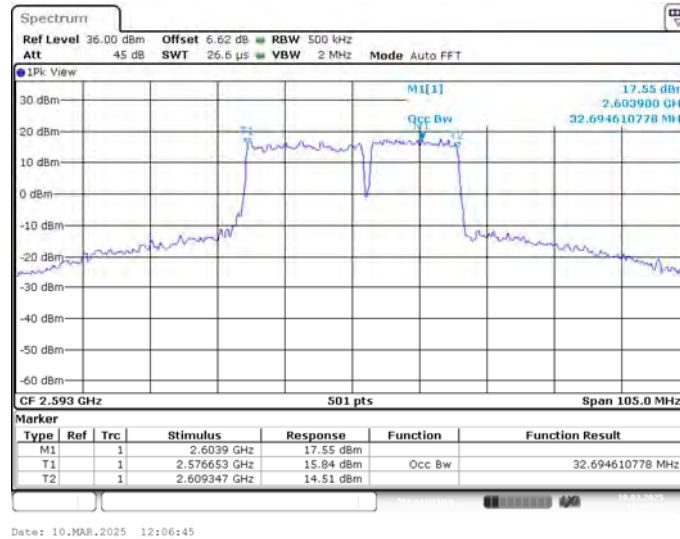
LTE CA band 41C , 20MHz+10MHz Bandwidth,16QAM (99% BW)



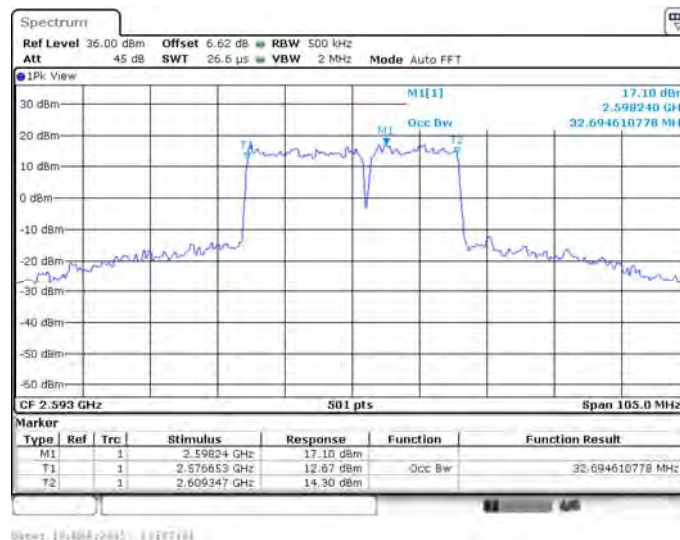
LTE CA band 41C, 20MHz+15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	32.695	32.695

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



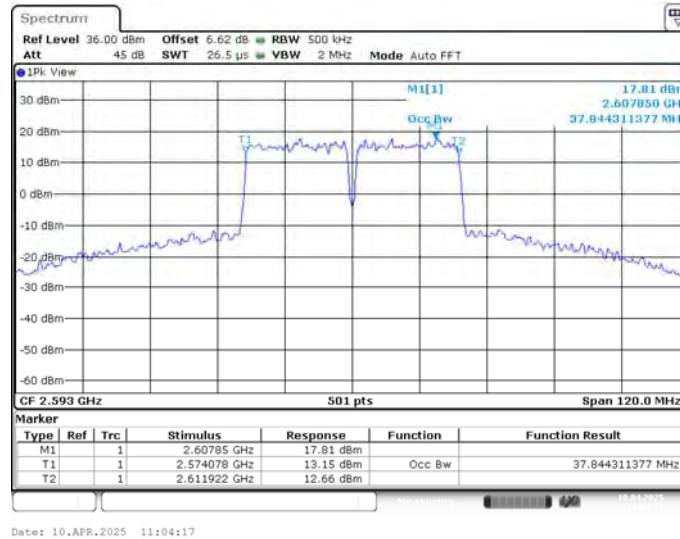
LTE CA band 41C , 20MHz+15MHz Bandwidth,16QAM (99% BW)



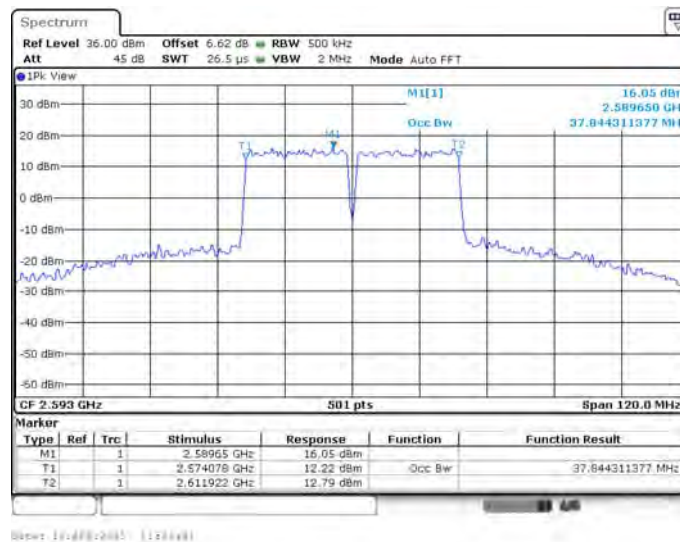
LTE CA band 41C, 20MHz+20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	QPSK	16QAM
2593.0	37.844	37.844

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



LTE CA band 41C , 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.

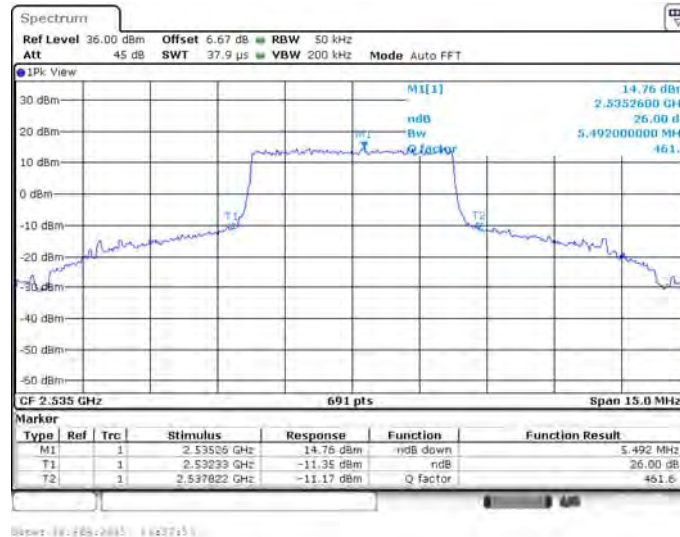
The measurement method is from ANSI C63.26:

- 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	5.492	5.253

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



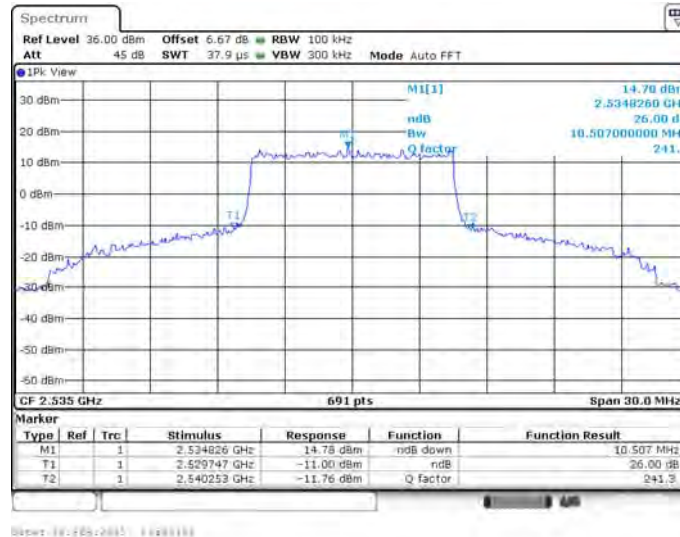
LTE band 7 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



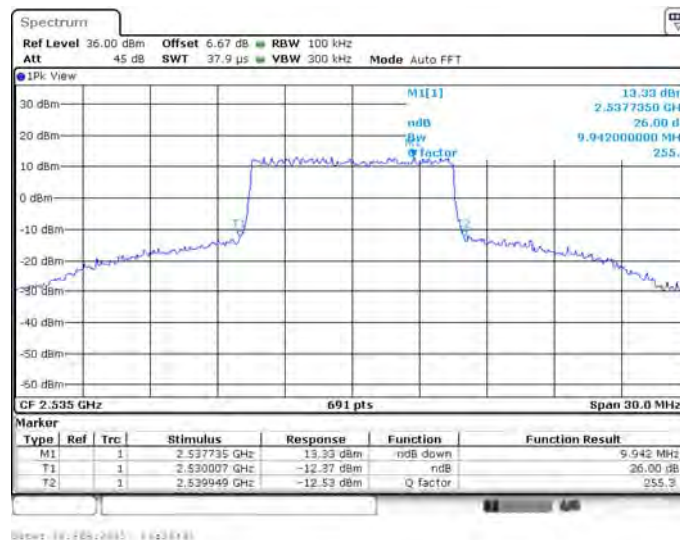
LTE band 7,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	10.507	9.942

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



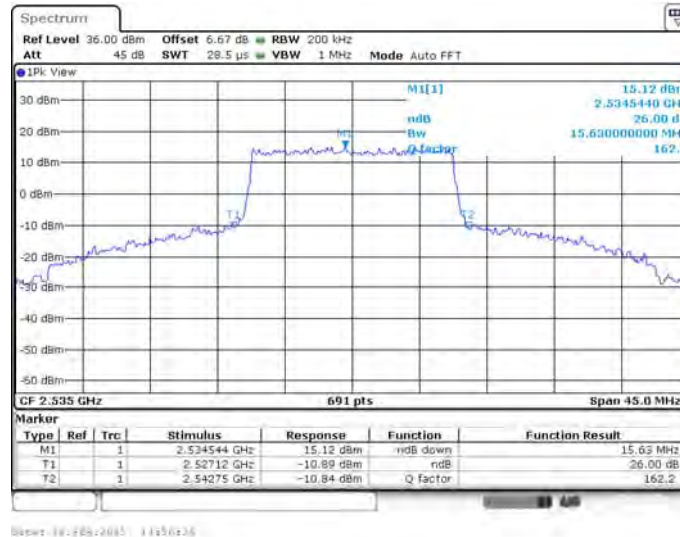
LTE band 7 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



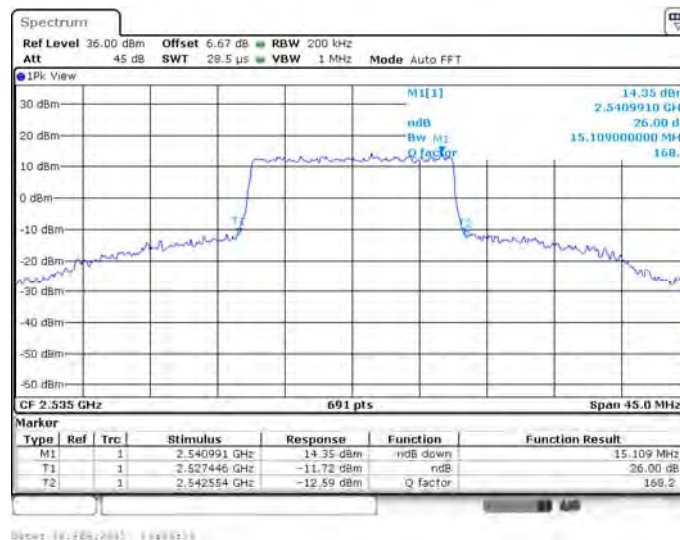
LTE band 7,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	15.630	15.109

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



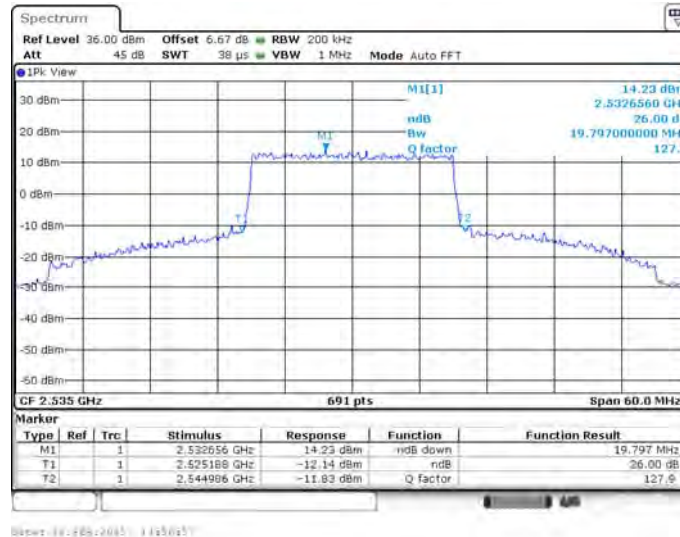
LTE band 7 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



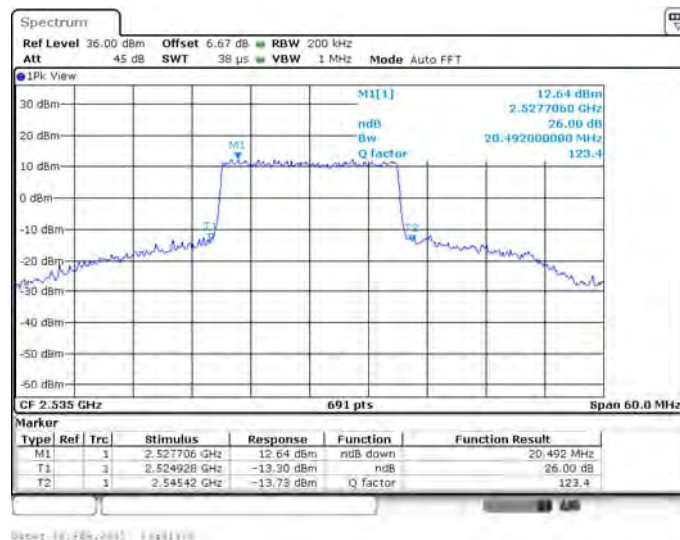
LTE band 7,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2535	19.797	20.492

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



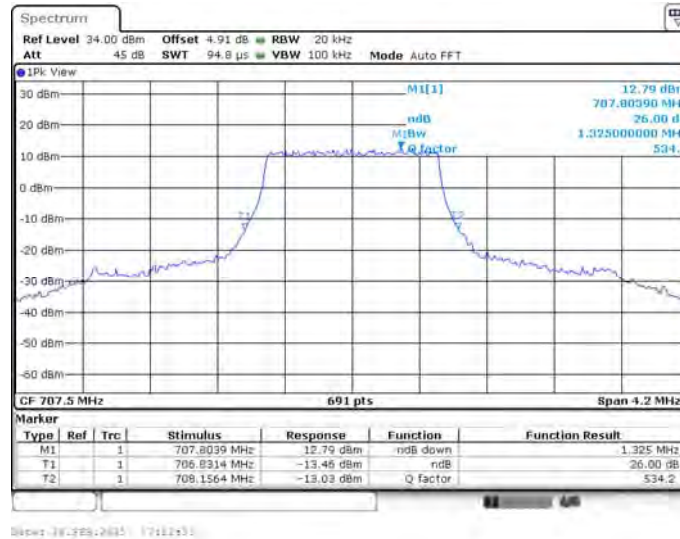
LTE band 7 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



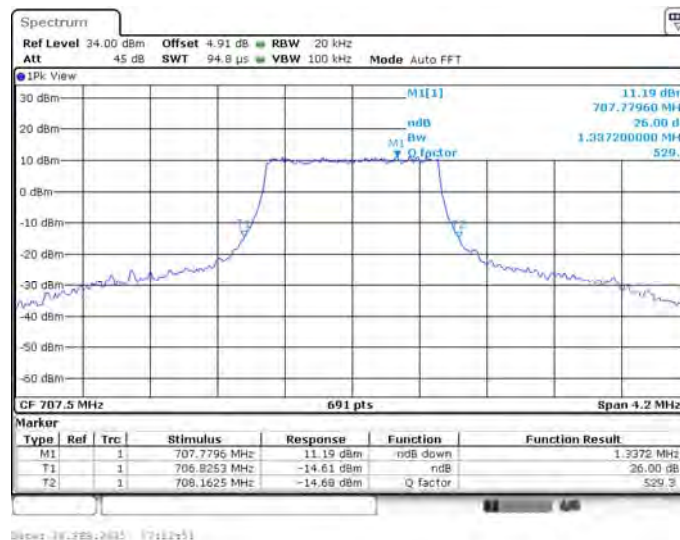
LTE band 12,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	1.325	1.337

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



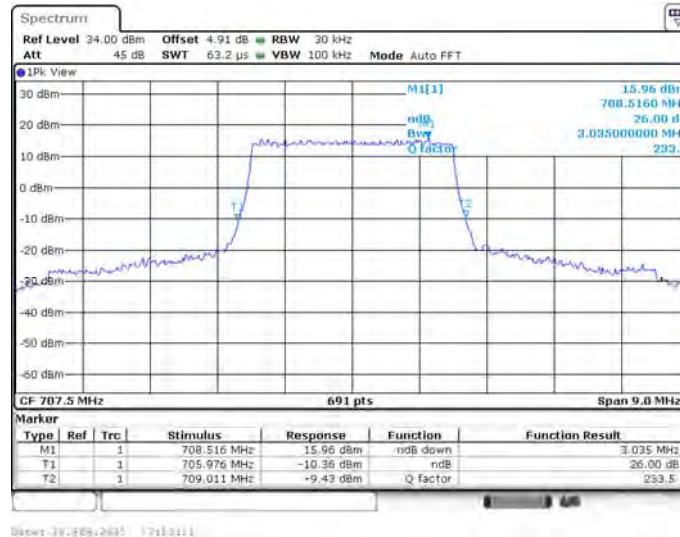
LTE band 12 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



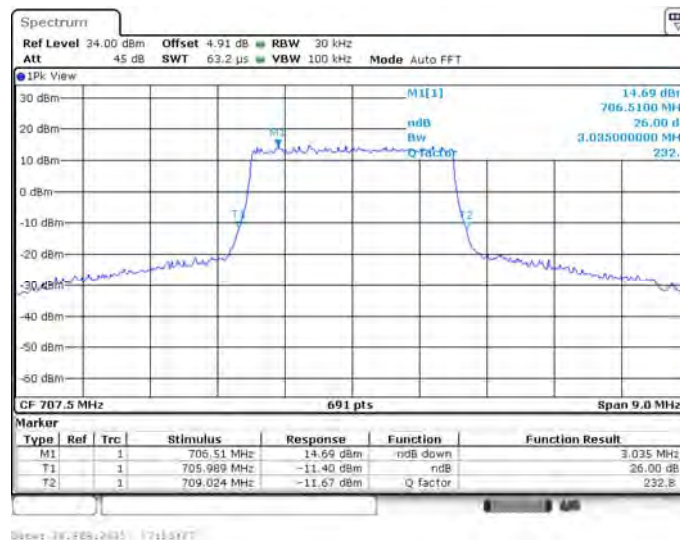
LTE band 12,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	3.035	3.035

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



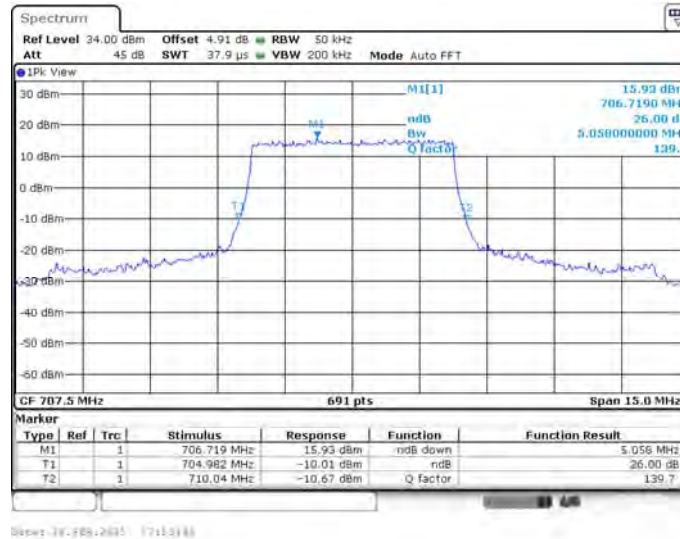
LTE band 12 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



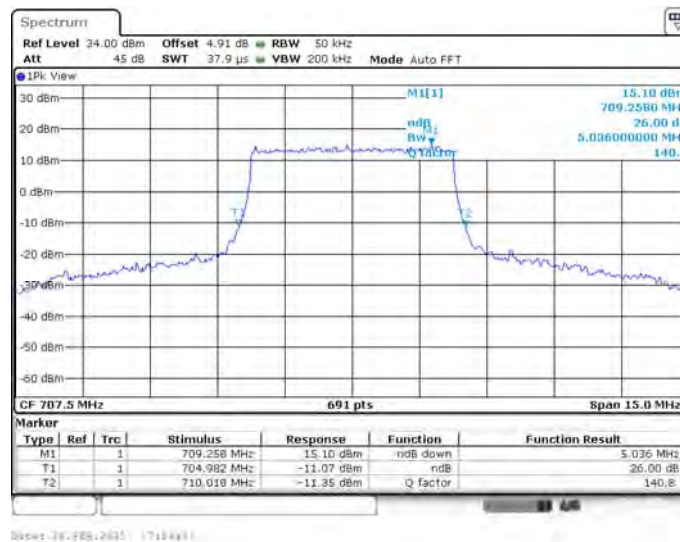
LTE band 12,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	5.058	5.036

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



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



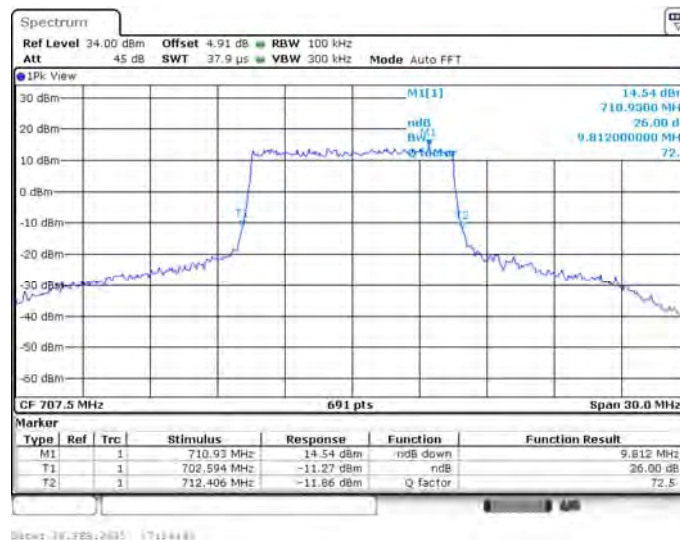
LTE band 12,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
707.5	9.812	9.812

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



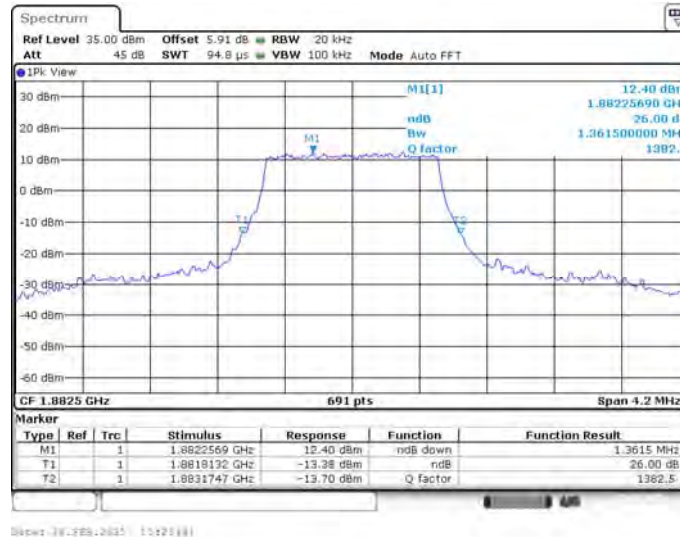
LTE band 12 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



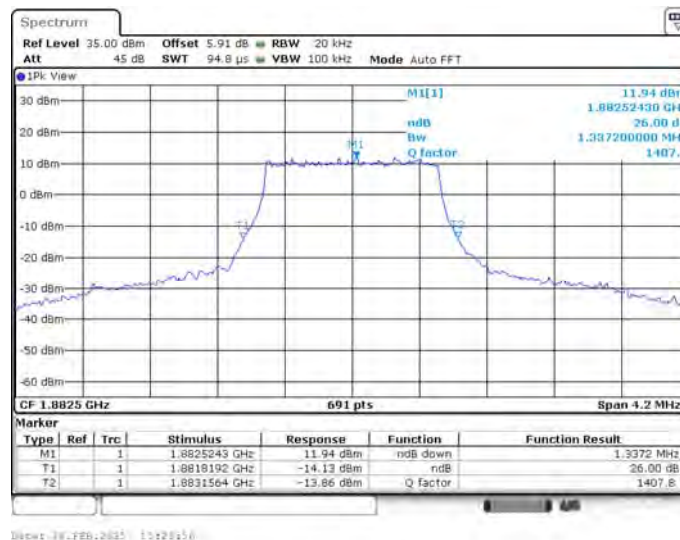
LTE band 25,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	1.362	1.337

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



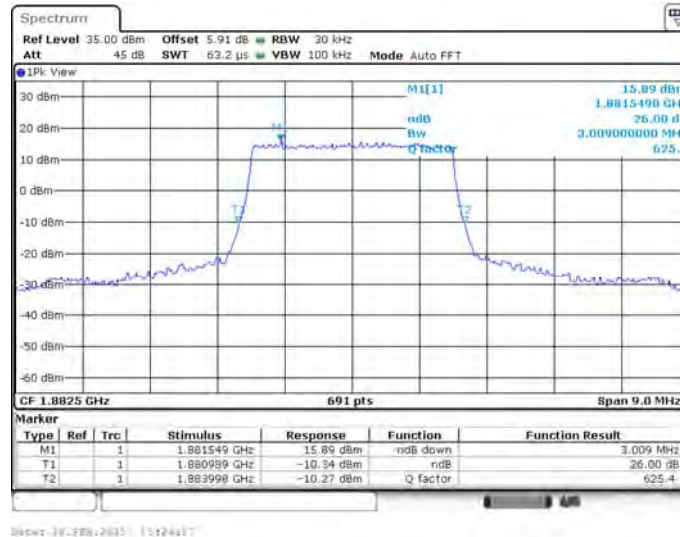
LTE band 25 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



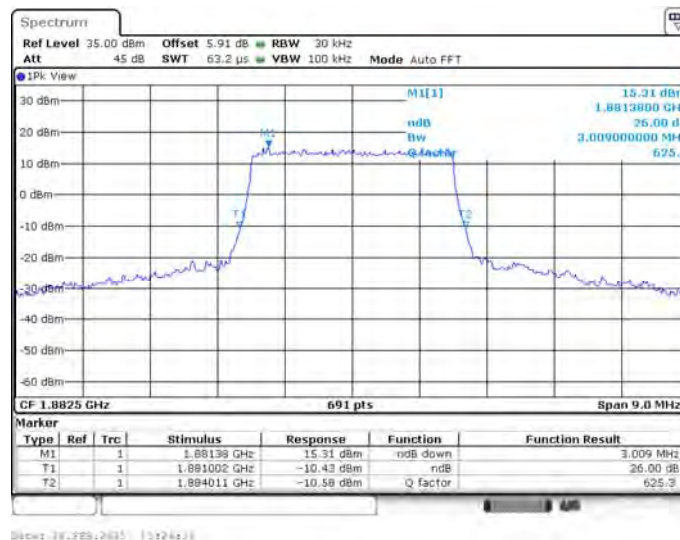
LTE band 25,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	3.009	3.009

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



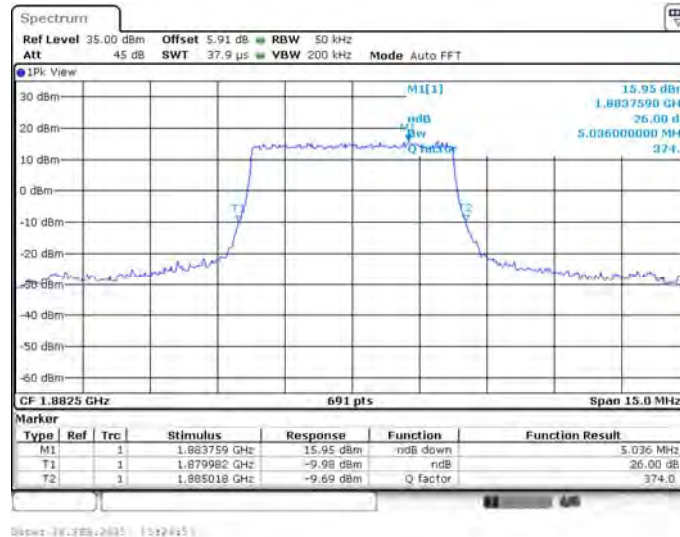
LTE band 25 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



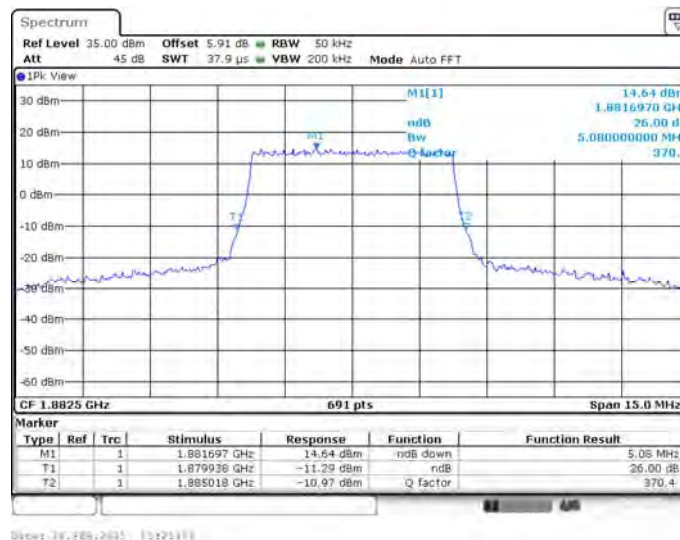
LTE band 25,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	5.036	5.080

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



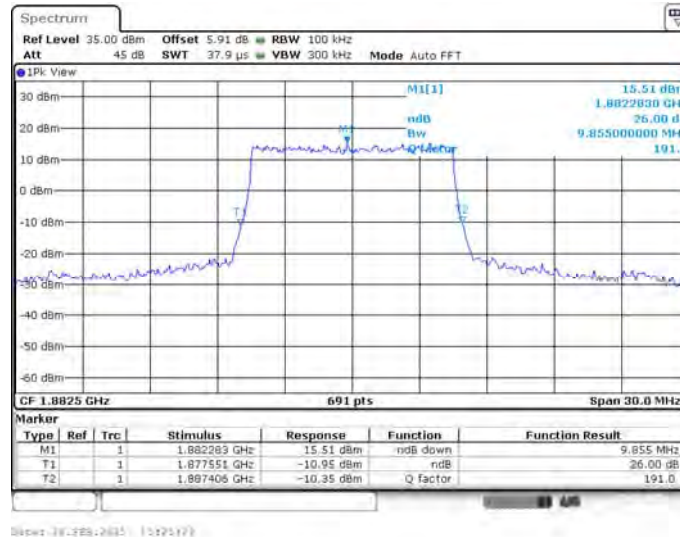
LTE band 25 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



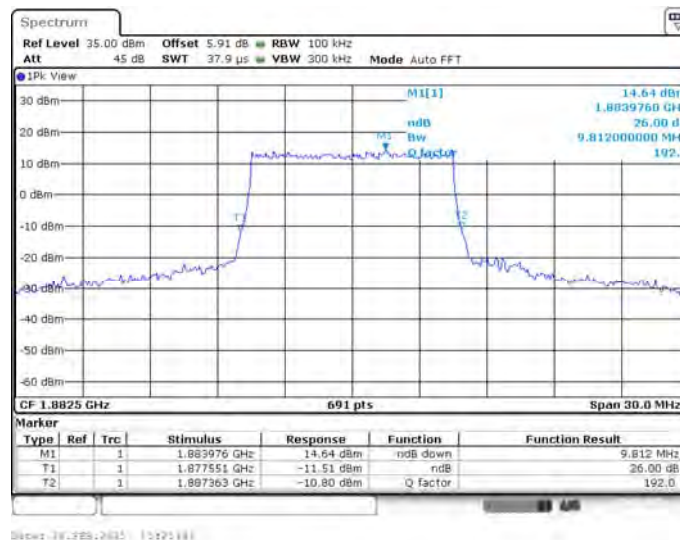
LTE band 25,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	9.855	9.812

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



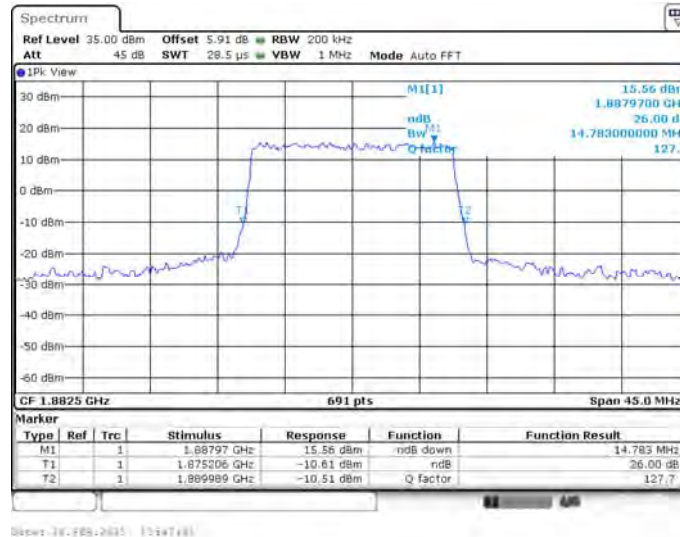
LTE band 25 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



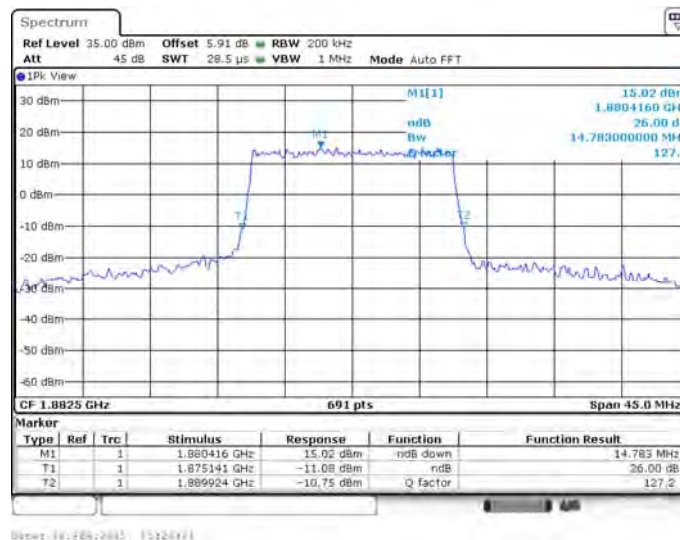
LTE band 25,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	14.783	14.783

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



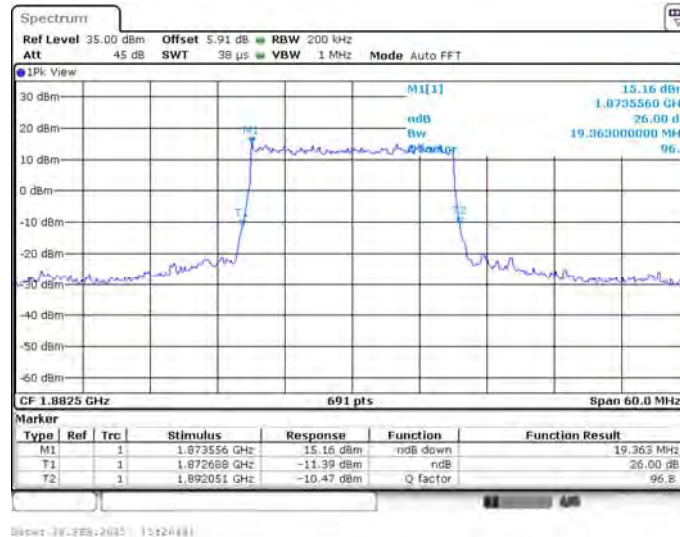
LTE band 25 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 25,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1882.5	19.363	19.190

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



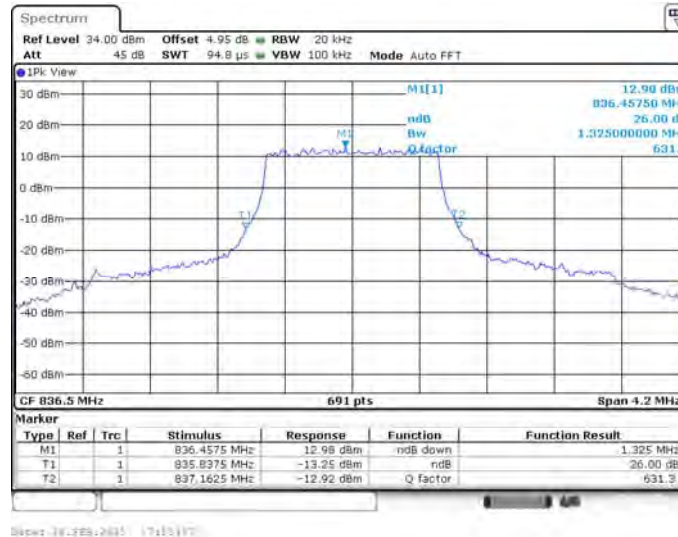
LTE band 25 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



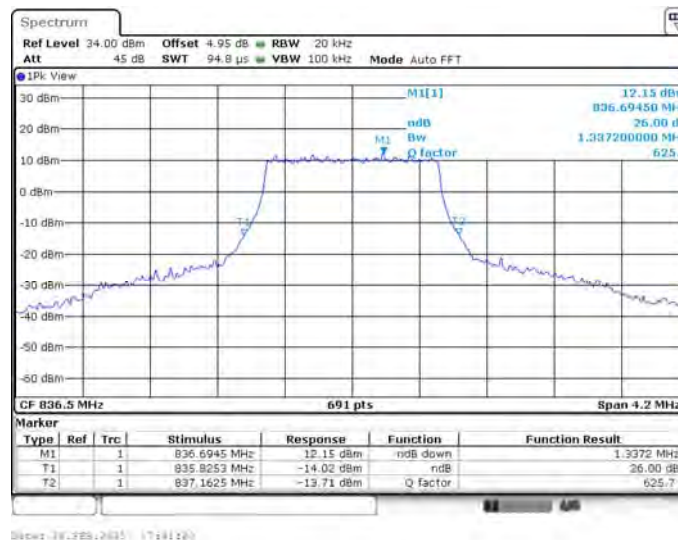
LTE band 26_Part22,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	1.325	1.337

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



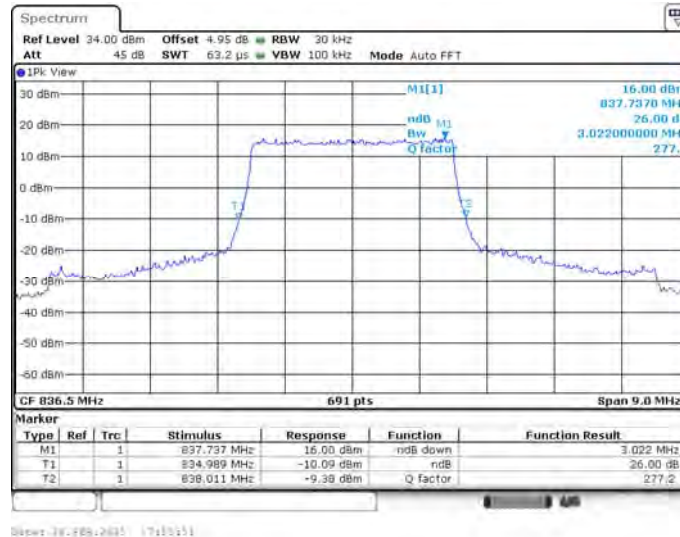
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



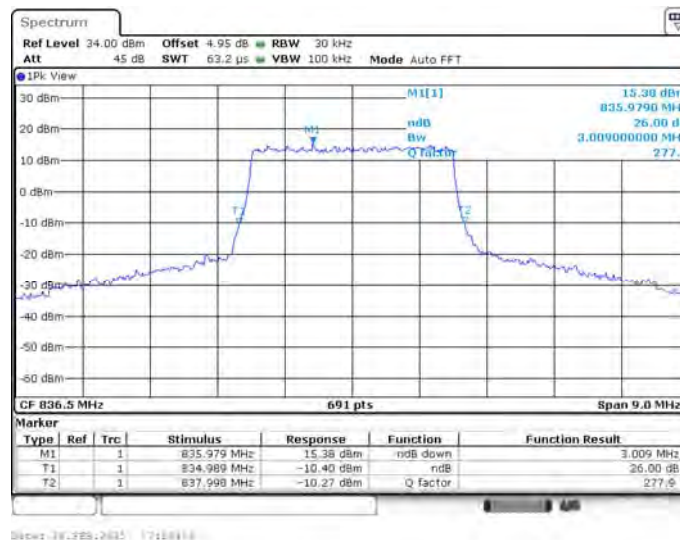
LTE band 26_Part22,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	3.022	3.009

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



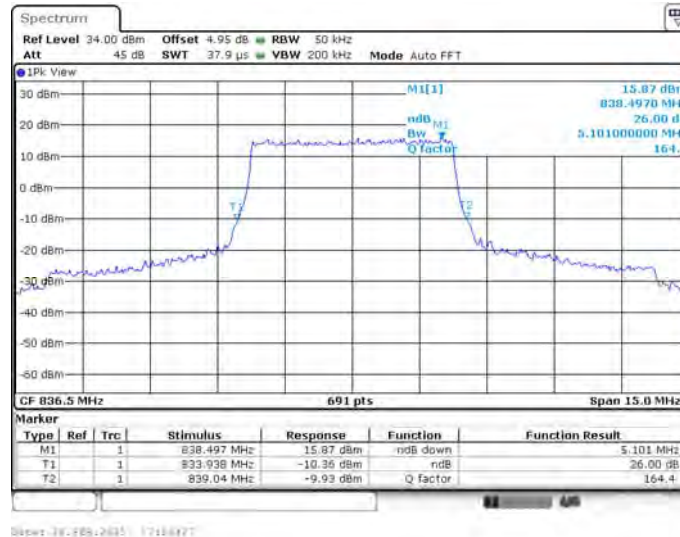
LTE band 26 , 3MHz Bandwidth,MID,16QAM (-26dBc BW)



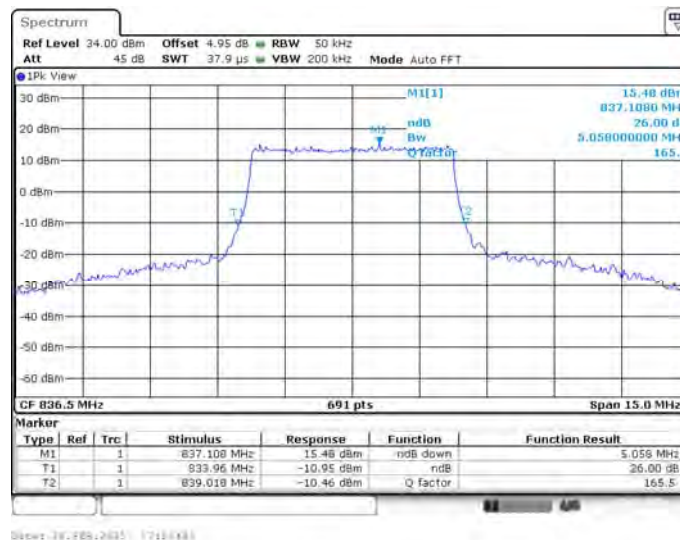
LTE band 26_Part22,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	5.101	5.058

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



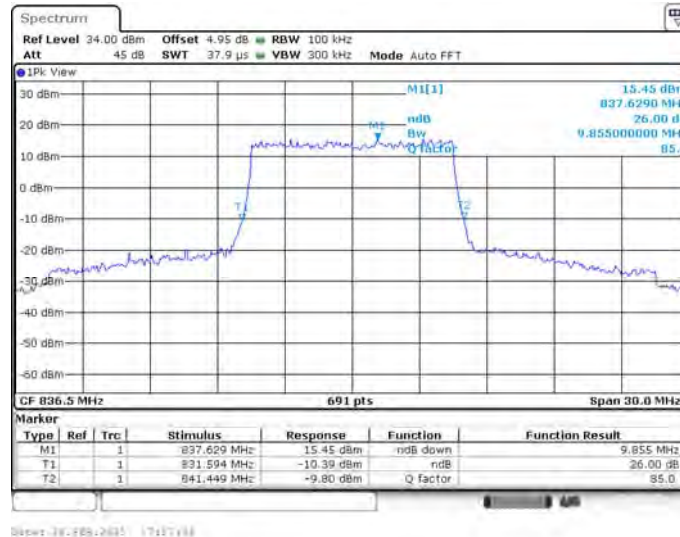
LTE band 26 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



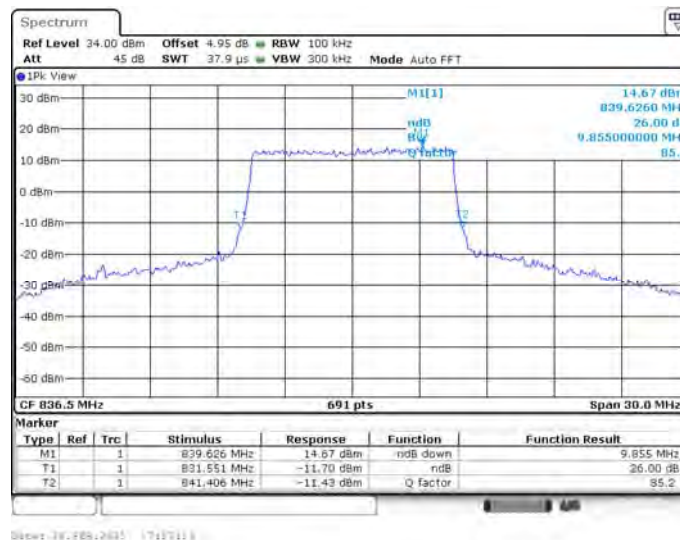
LTE band 26_Part22,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	9.855	9.855

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



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



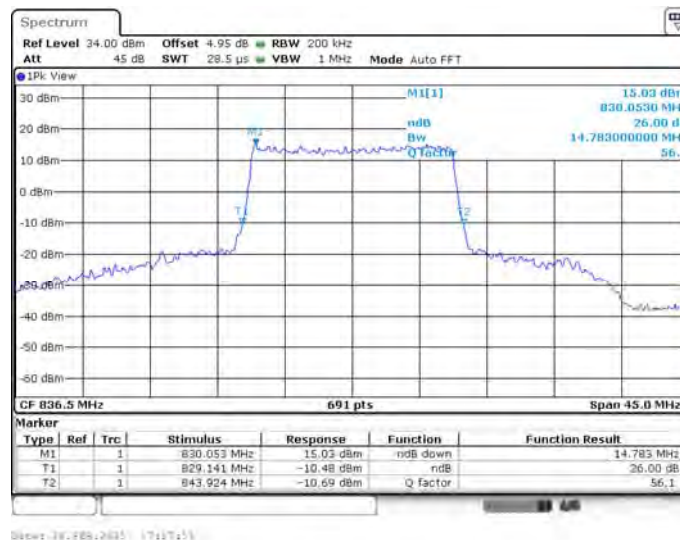
LTE band 26_Part22,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
836.5	14.783	14.783

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



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



LTE band 26_Part90,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	1.349	1.337

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



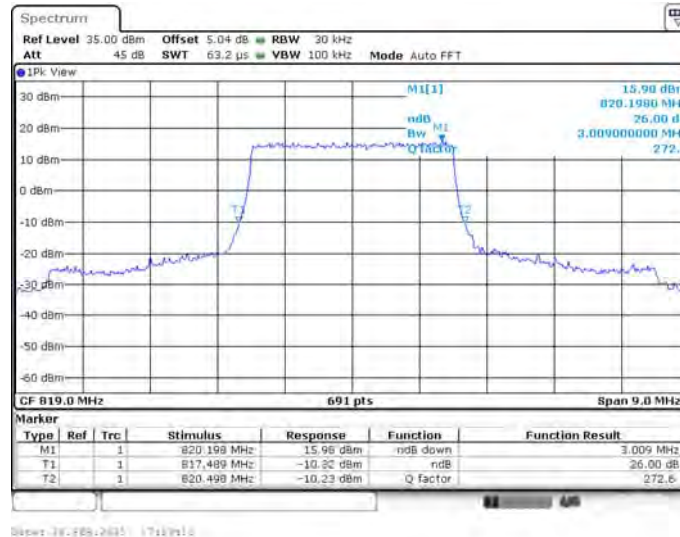
LTE band 26 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



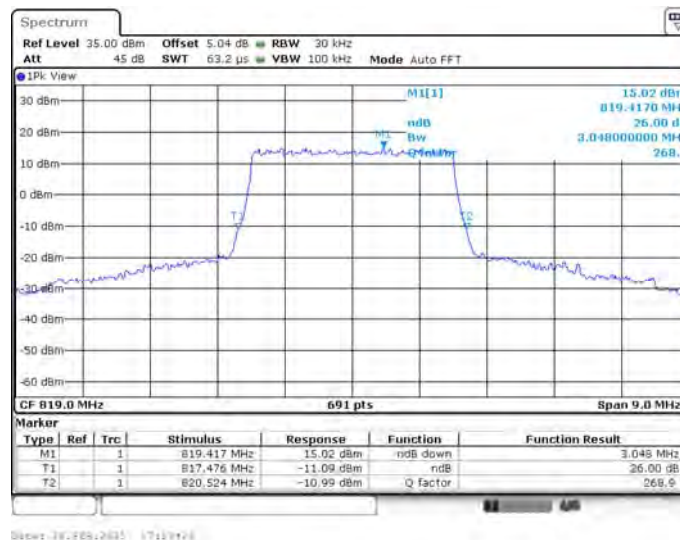
LTE band 26_Part90,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	3.009	3.048

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



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



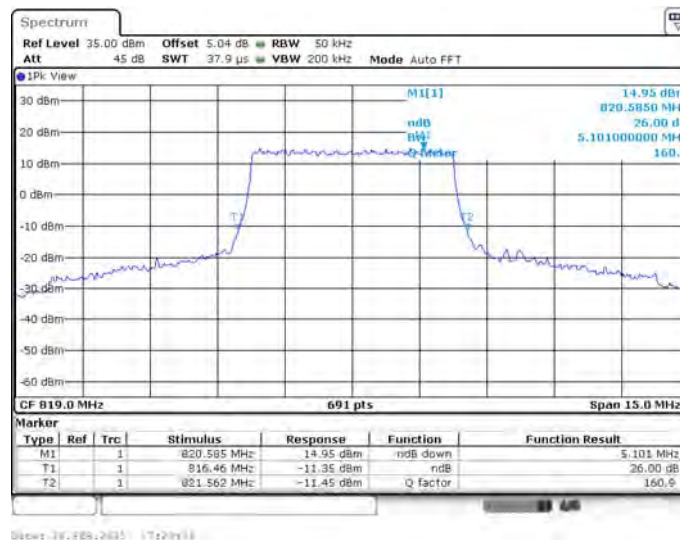
LTE band 26_Part90,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	5.036	5.101

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



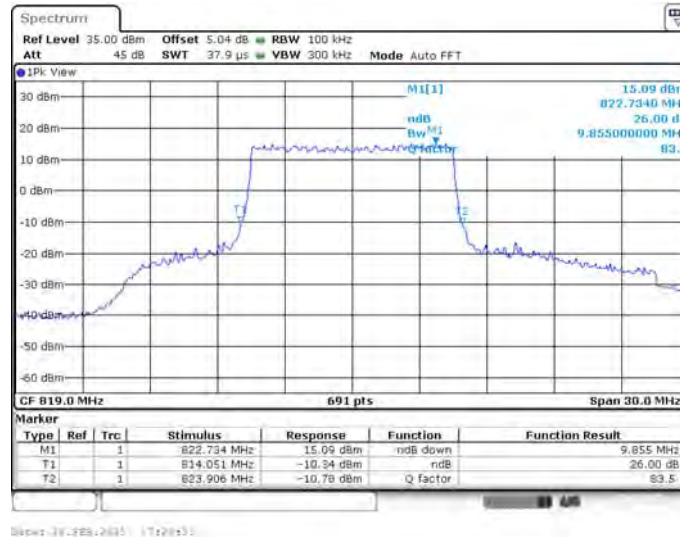
LTE band 26 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 26_Part90,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
819	9.855	10.029

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



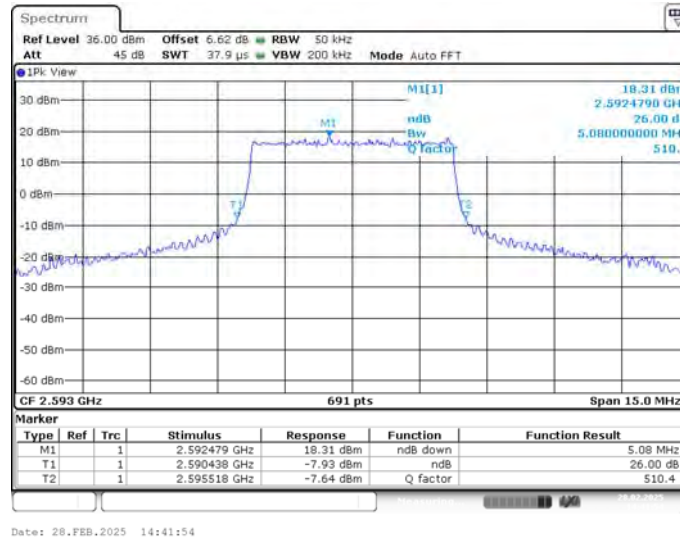
LTE band 26 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



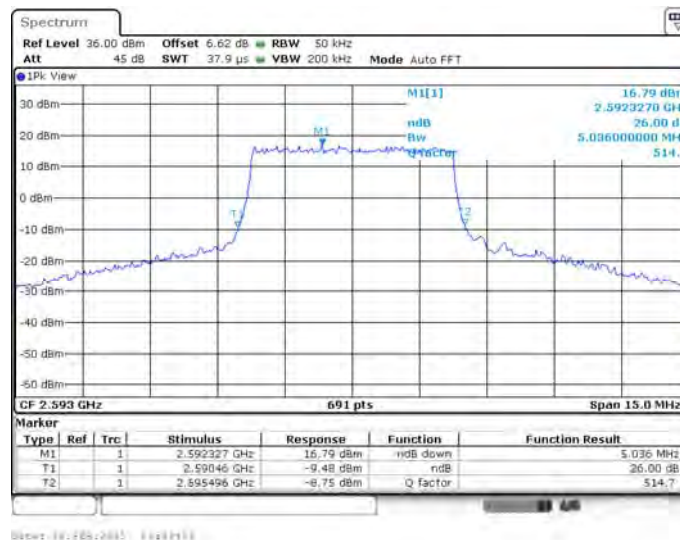
LTE band 41,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	5.080	5.036

LTE band 41 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)



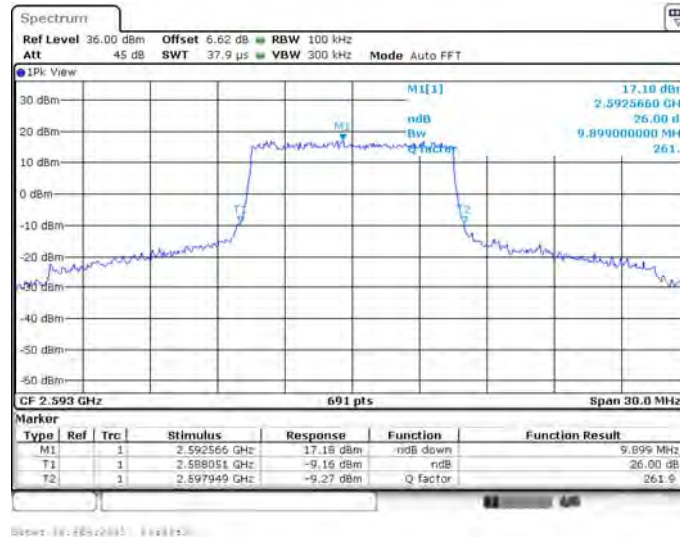
LTE band 41 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



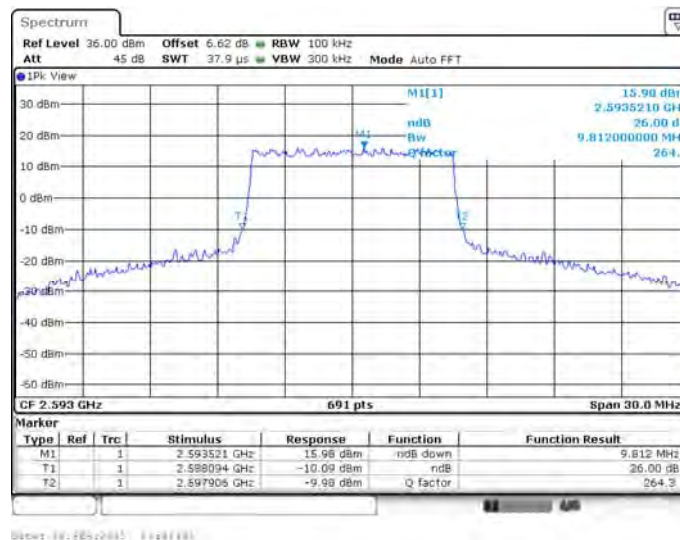
LTE band 41,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	9.899	9.812

LTE band 41 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



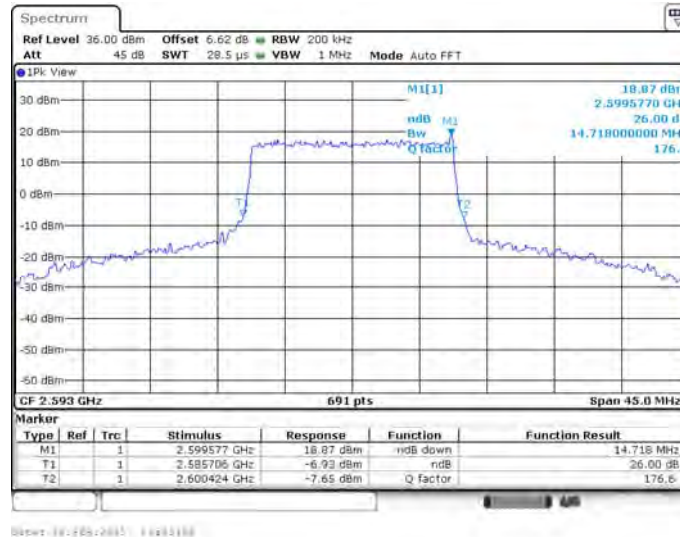
LTE band 41 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 41,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	14.718	14.653

LTE band 41 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)



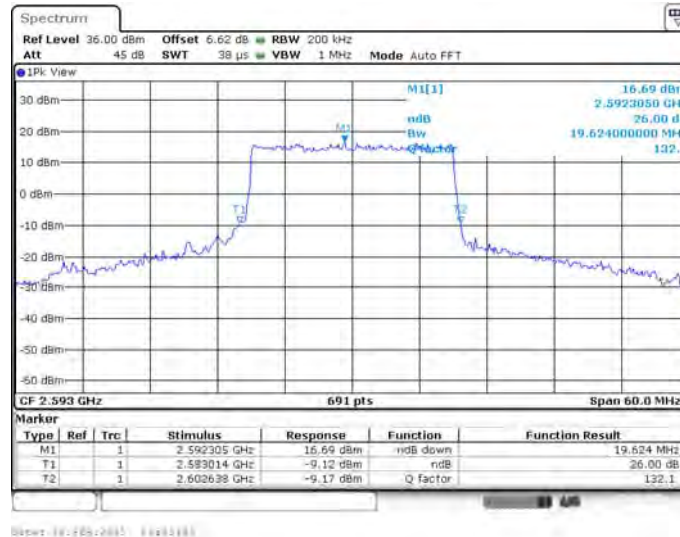
LTE band 41 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



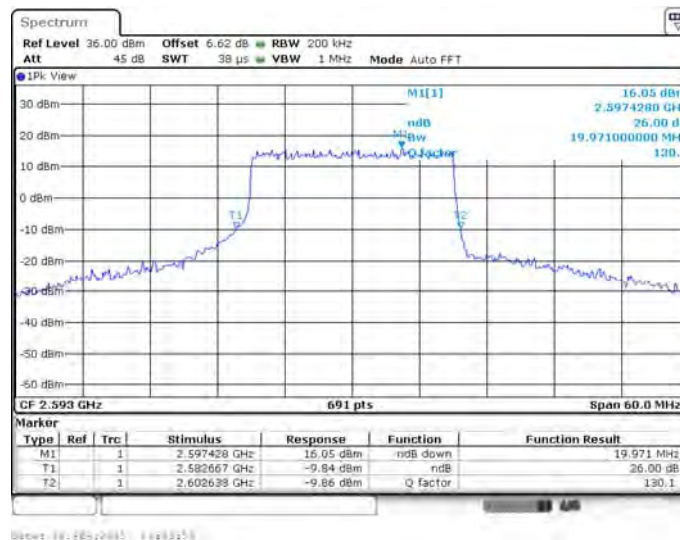
LTE band 41,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
2593	19.624	19.971

LTE band 41 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)



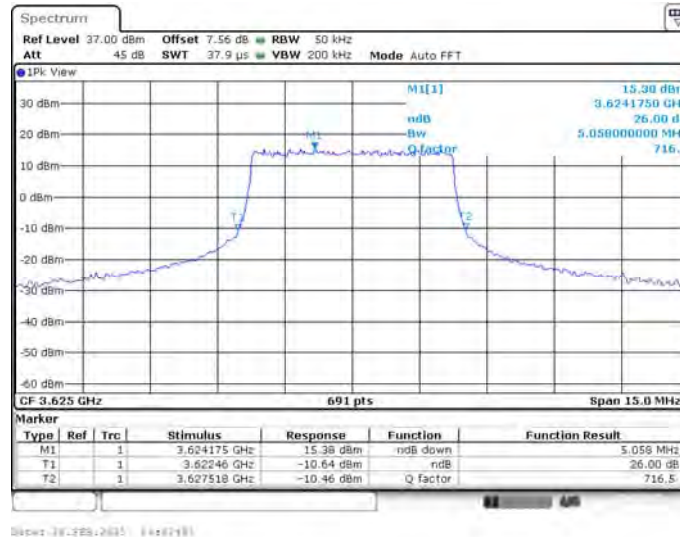
LTE band 41 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



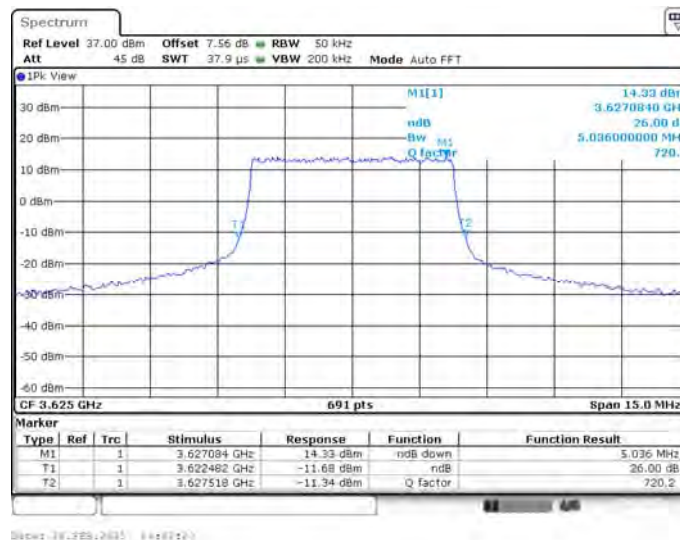
LTE band 48,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
3625	5.058	5.036

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



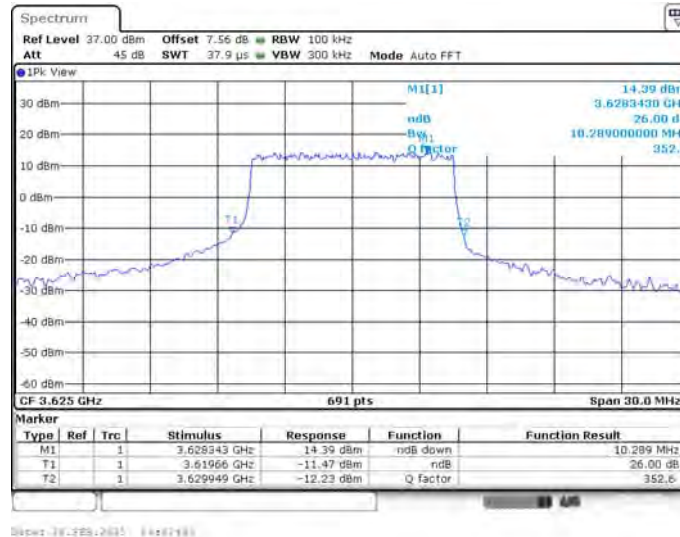
LTE band 48 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



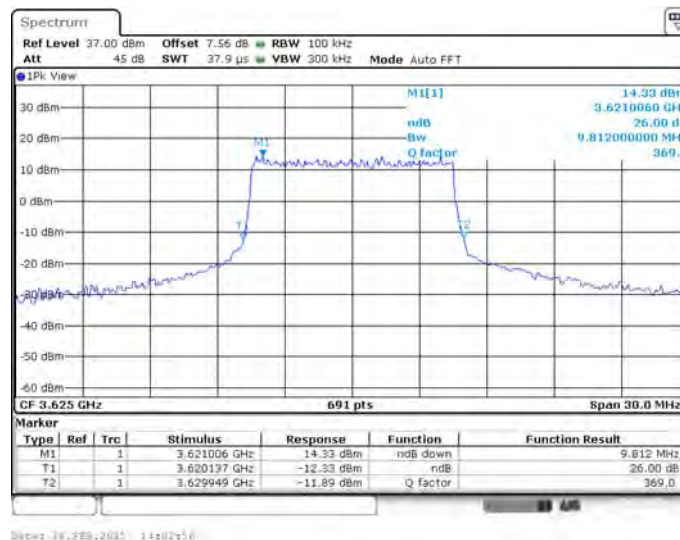
LTE band 48,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
3625	10.289	9.812

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



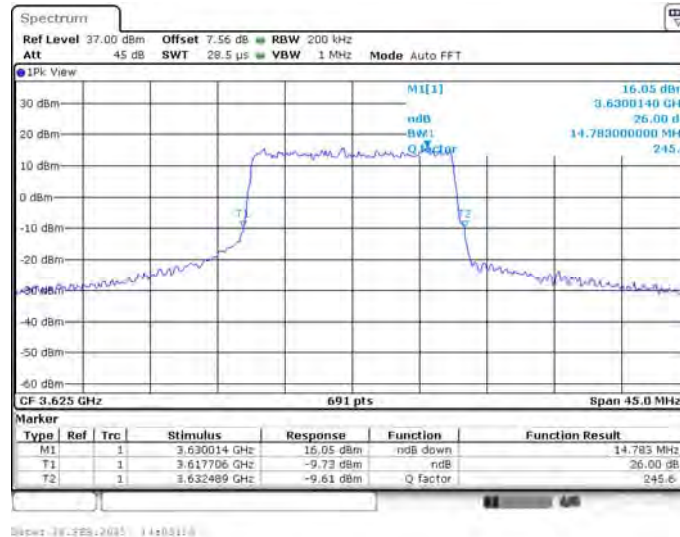
LTE band 48 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



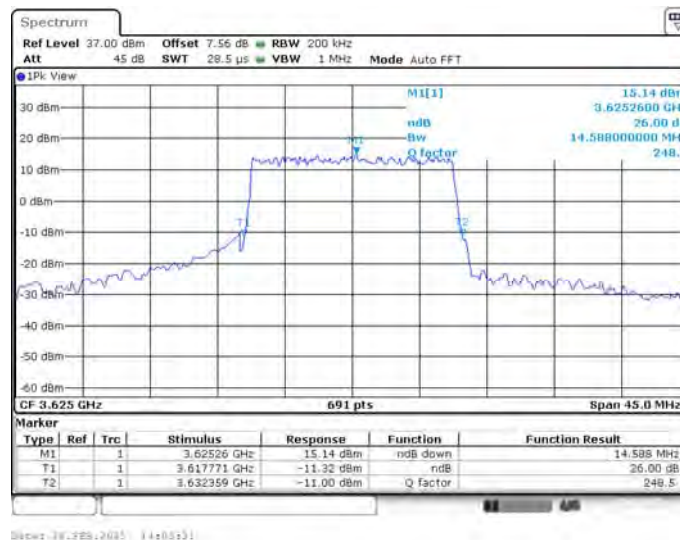
LTE band 48,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
3625	14.783	14.588

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



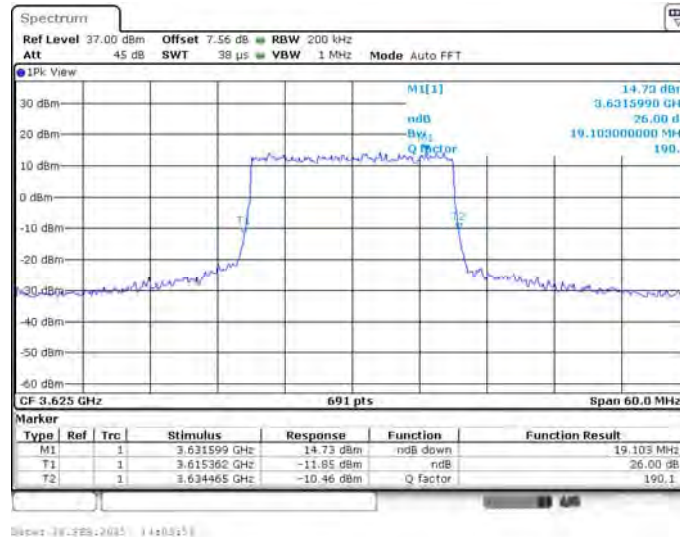
LTE band 48 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



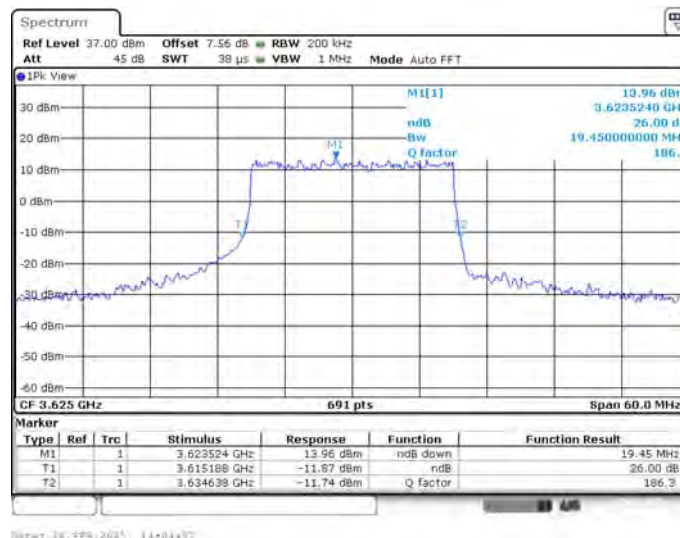
LTE band 48,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
3625	19.103	19.450

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



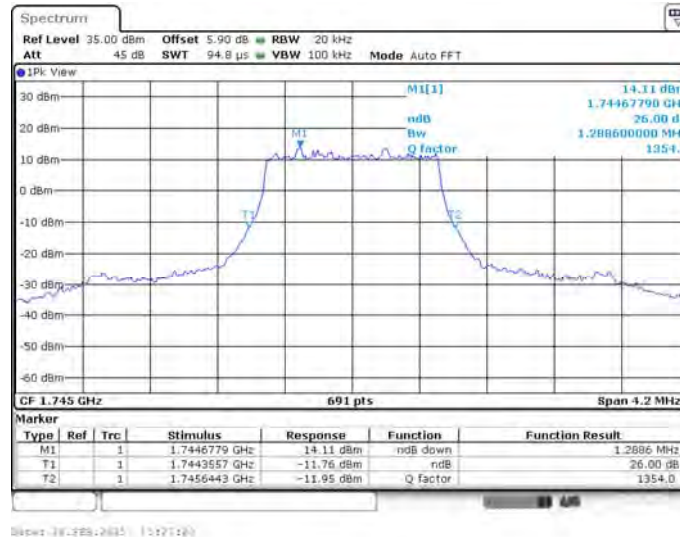
LTE band 48 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



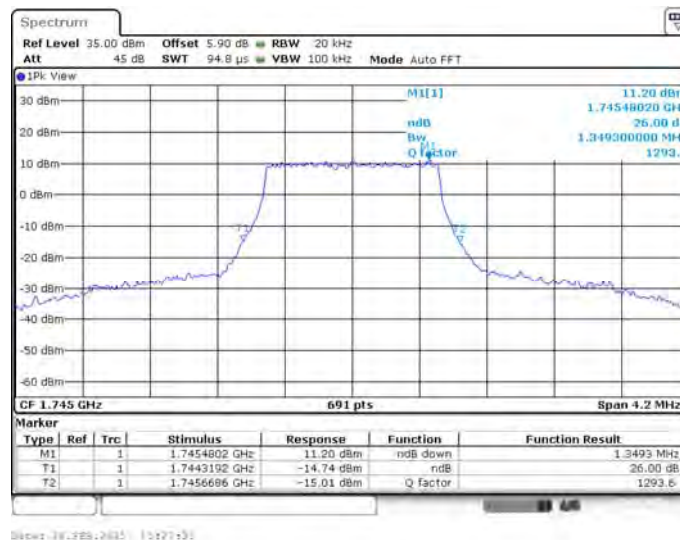
LTE band 66,1.4MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	1.289	1.349

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



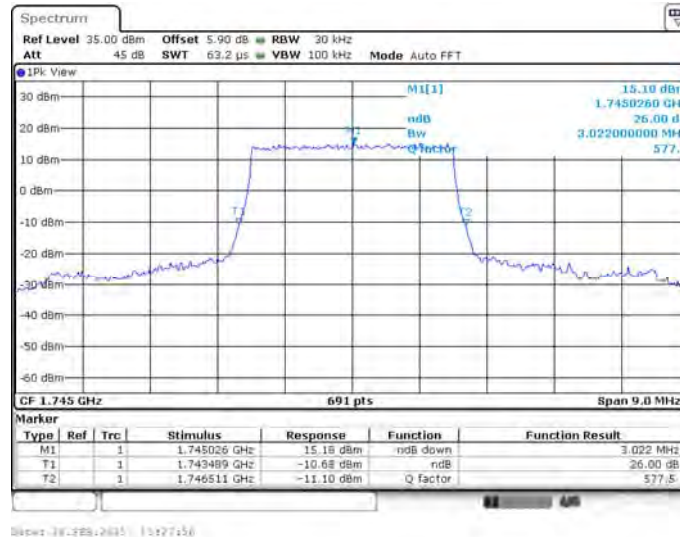
LTE band 66 , 1.4MHz Bandwidth,MID,16QAM (-26dBc BW)



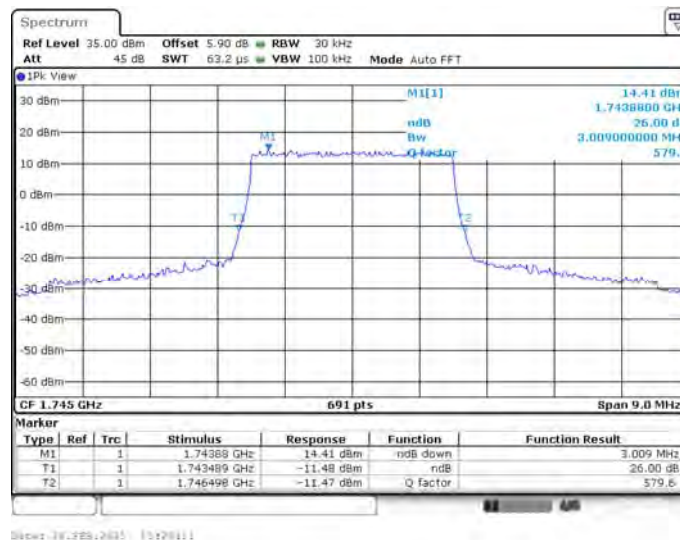
LTE band 66,3MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	3.022	3.009

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



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



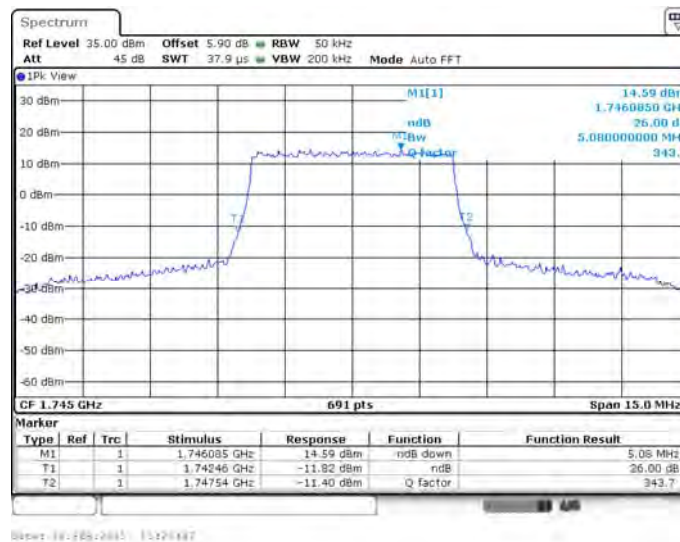
LTE band 66,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	5.014	5.080

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



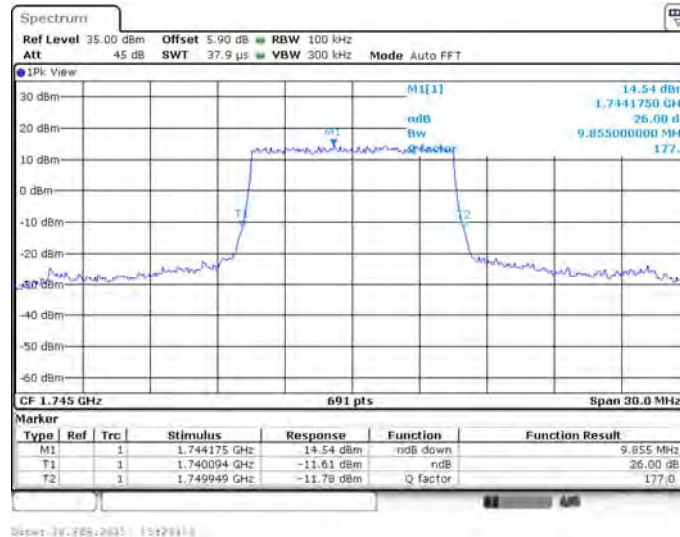
LTE band 66 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



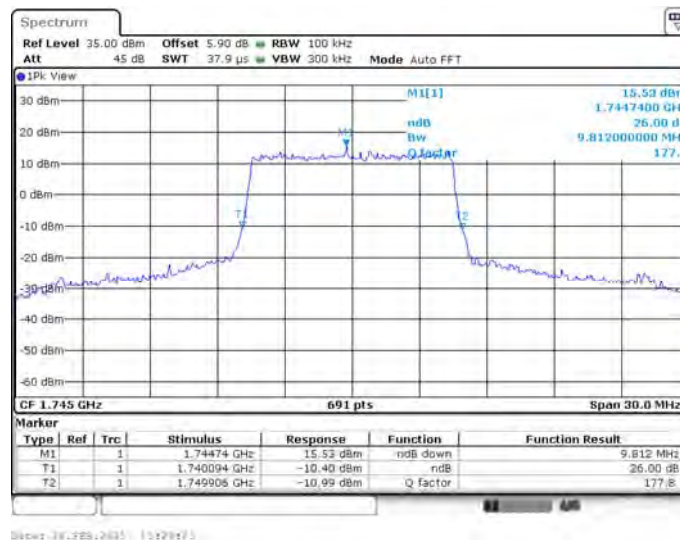
LTE band 66,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	9.855	9.812

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



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



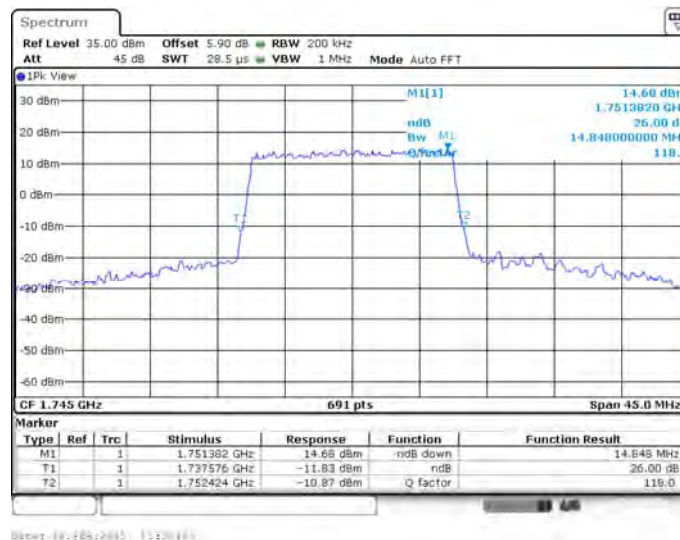
LTE band 66,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	14.718	14.848

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



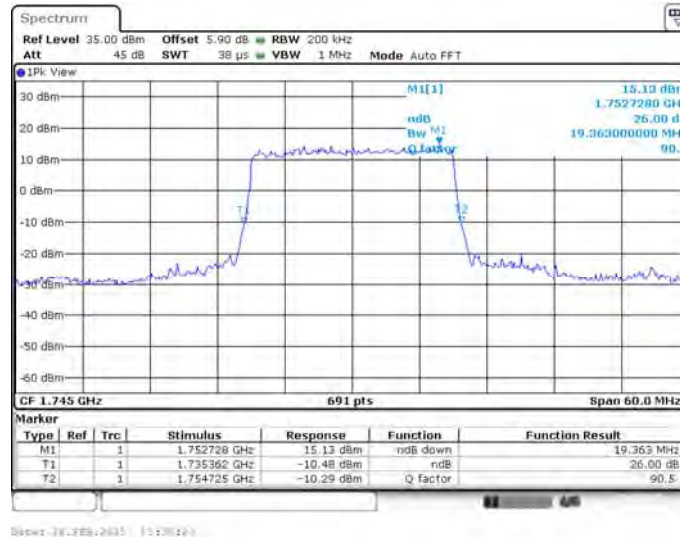
LTE band 66 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



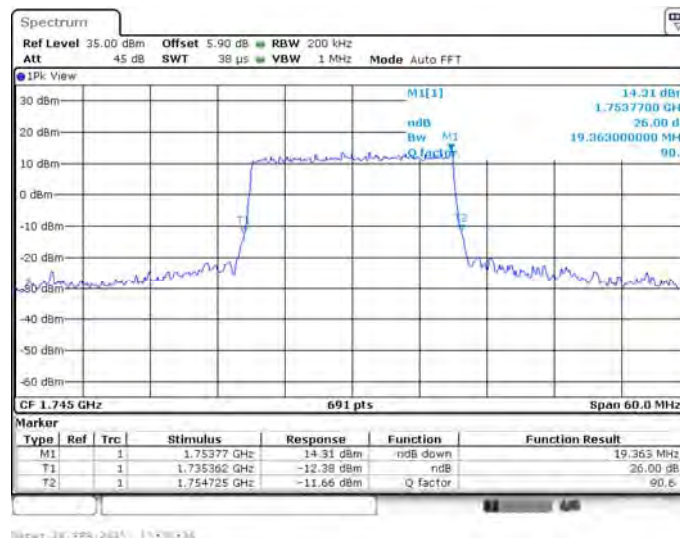
LTE band 66,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
1745	19.363	19.363

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



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



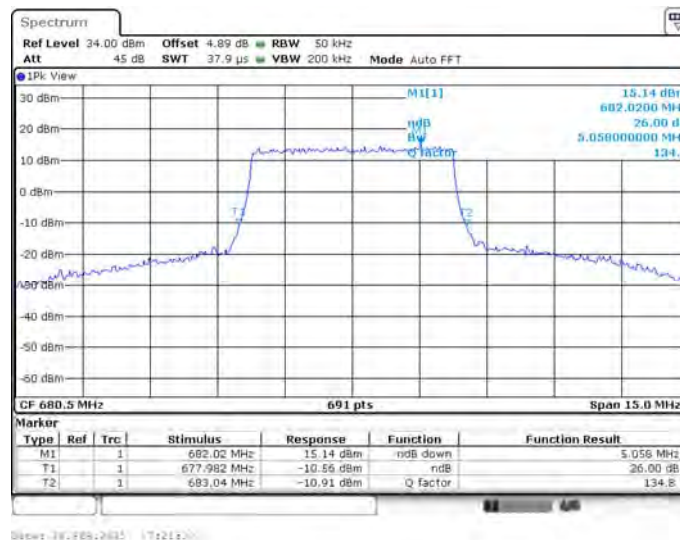
LTE band 71,5MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
680.5	5.058	5.058

LTE band 71 , 5MHz Bandwidth,MID,QPSK (-26dBc BW)



LTE band 71 , 5MHz Bandwidth,MID,16QAM (-26dBc BW)



LTE band 71,10MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
680.5	9.812	9.899

LTE band 71 , 10MHz Bandwidth,MID,QPSK (-26dBc BW)



LTE band 71 , 10MHz Bandwidth,MID,16QAM (-26dBc BW)



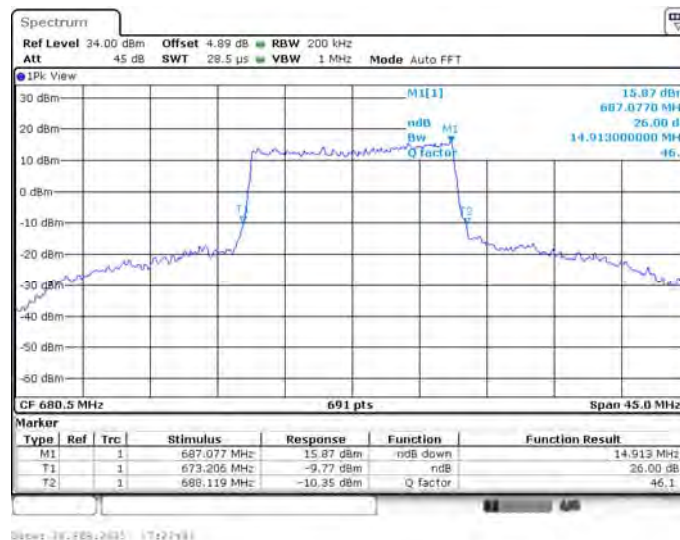
LTE band 71,15MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
680.5	14.848	14.913

LTE band 71 , 15MHz Bandwidth,MID,QPSK (-26dBc BW)



LTE band 71 , 15MHz Bandwidth,MID,16QAM (-26dBc BW)



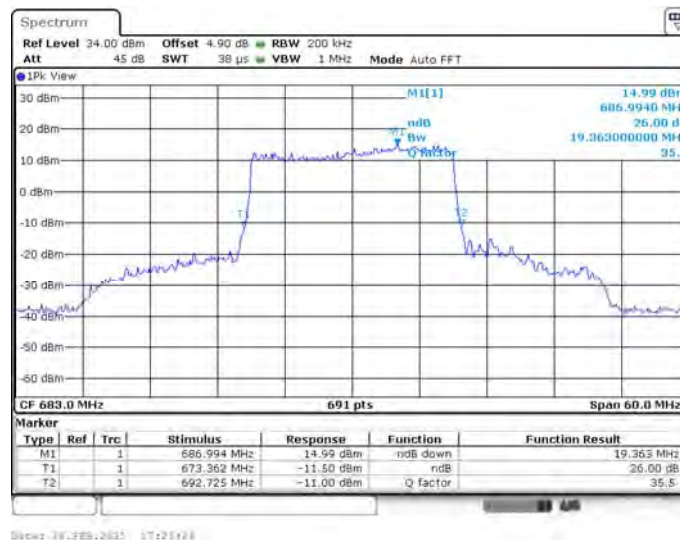
LTE band 71,20MHz(-26dBc)

Frequency(MHz)	Emission Bandwidth (-26dBc)(MHz)	
	QPSK	16QAM
683	19.276	19.363

LTE band 71 , 20MHz Bandwidth,MID,QPSK (-26dBc BW)



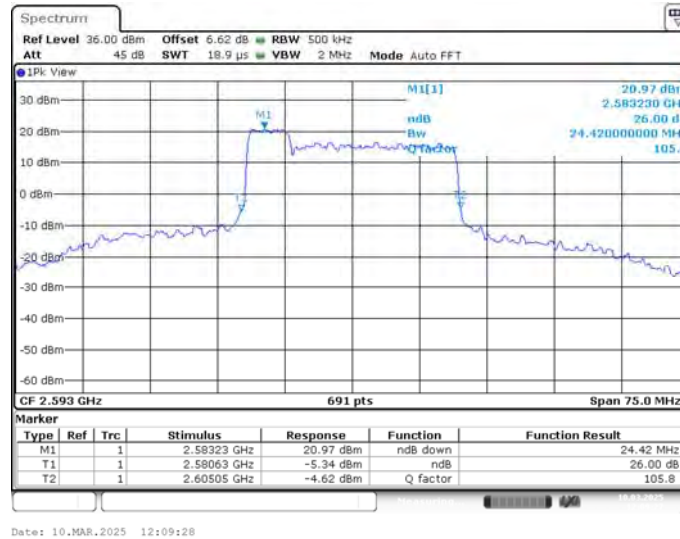
LTE band 71 , 20MHz Bandwidth,MID,16QAM (-26dBc BW)



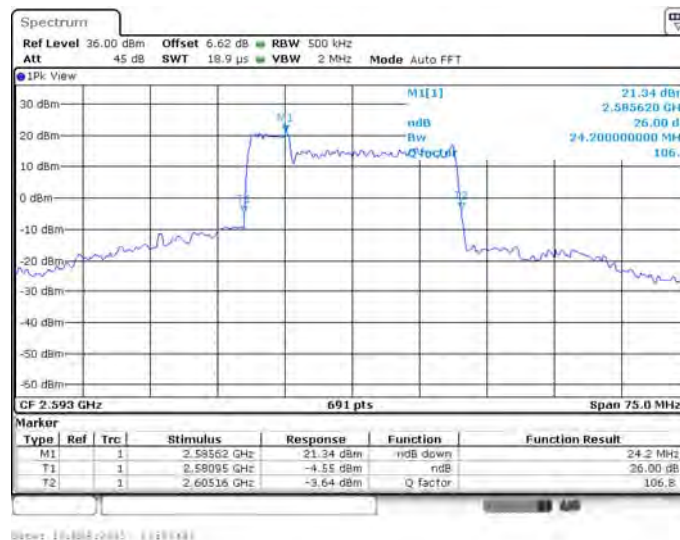
LTE CA band 41C, 5MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.420	24.200

LTE CA band 41C , 5MHz+20MHz Bandwidth,QPSK (-26dBc BW)



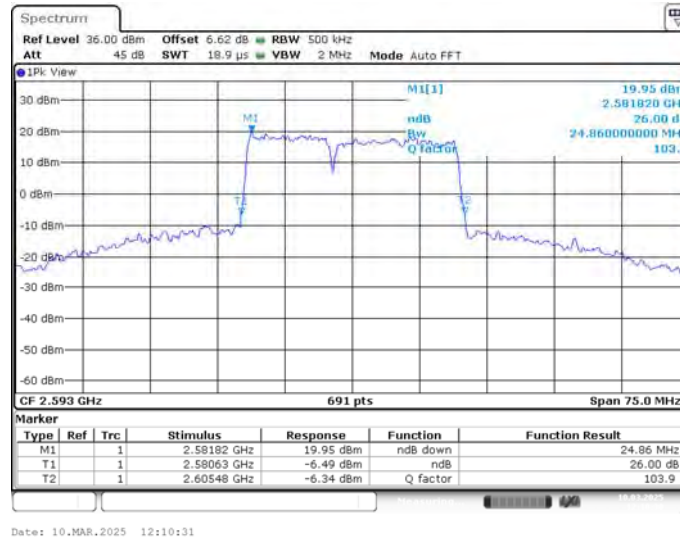
LTE CA band 41C , 5MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 41C, 10MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.860	24.860

LTE CA band 41C , 10MHz+15MHz Bandwidth,QPSK (-26dBc BW)



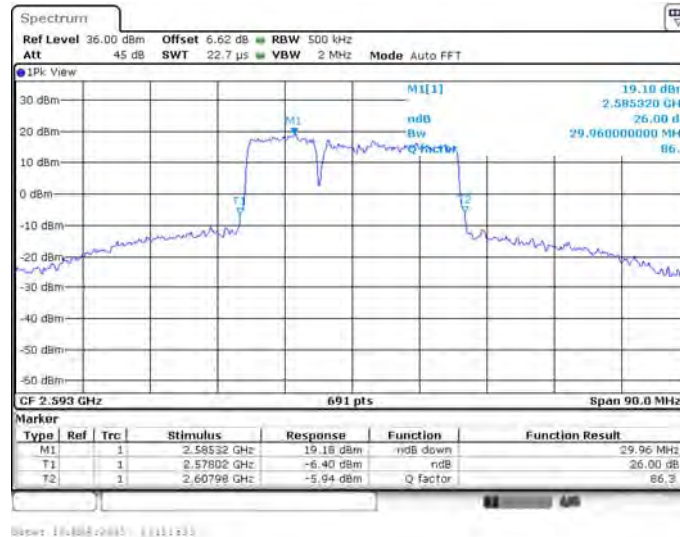
LTE CA band 41C , 10MHz+15MHz Bandwidth,16QAM (-26dBc BW)



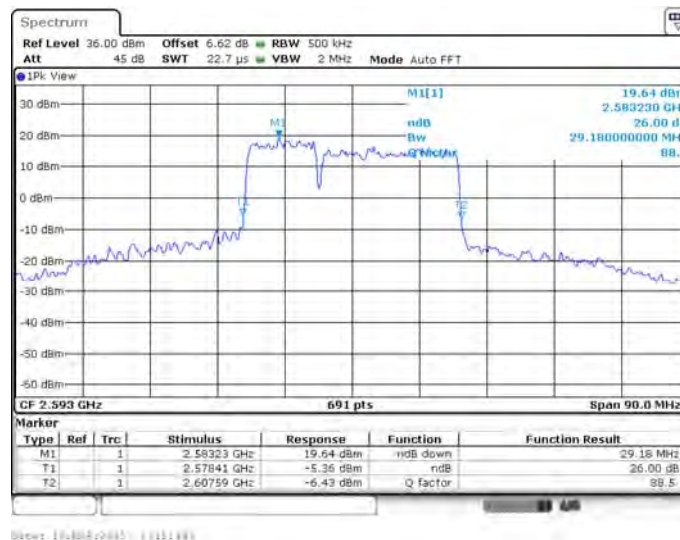
LTE CA band 41C, 10MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.960	29.180

LTE CA band 41C , 10MHz+20MHz Bandwidth,QPSK (-26dBc BW)



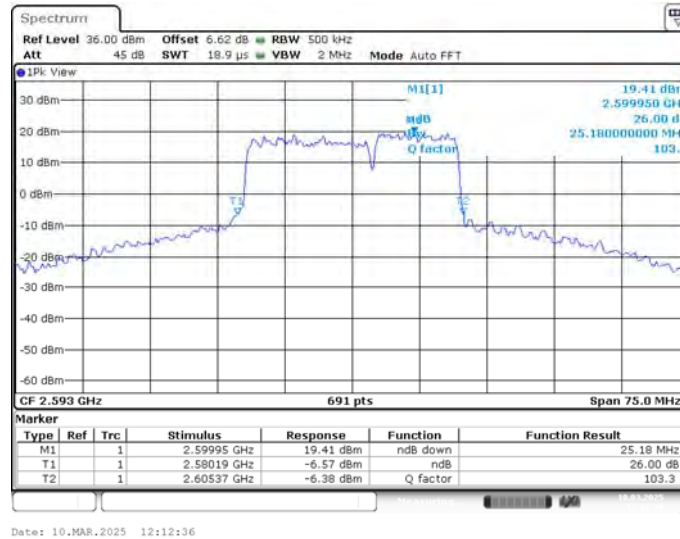
LTE CA band 41C , 10MHz+20MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 41C, 15MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	25.180	25.620

LTE CA band 41C , 15MHz+10MHz Bandwidth,QPSK (-26dBc BW)



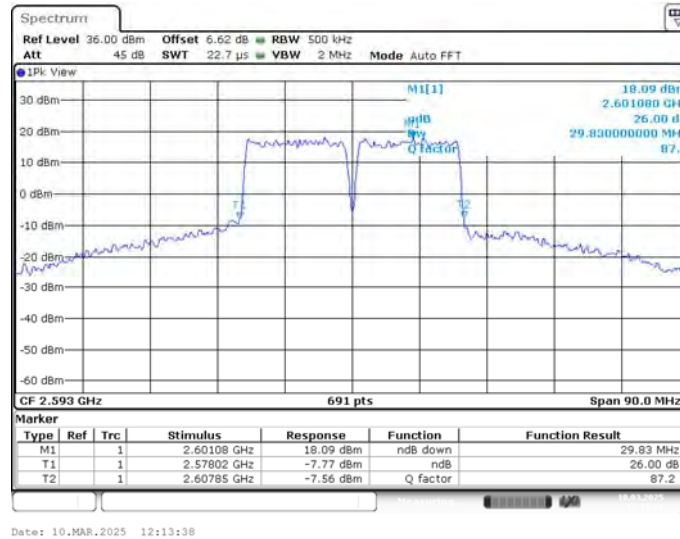
LTE CA band 41C , 15MHz+10MHz Bandwidth,16QAM (-26dBc BW)



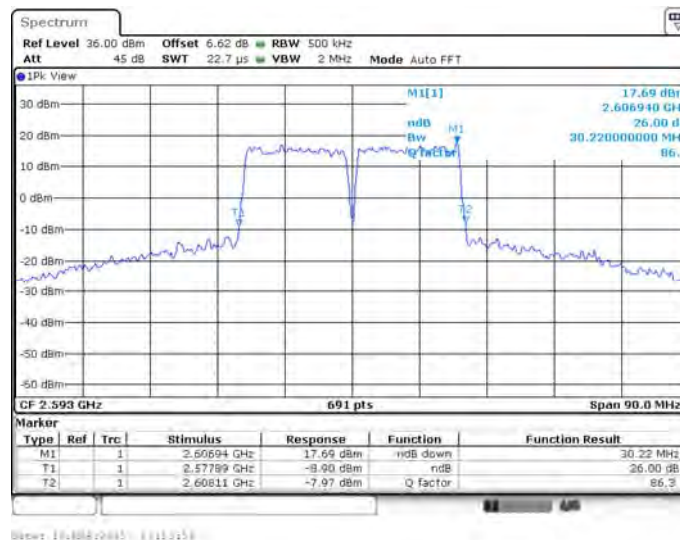
LTE CA band 41C, 15MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.830	30.220

LTE CA band 41C , 15MHz+15MHz Bandwidth,QPSK (-26dBc BW)



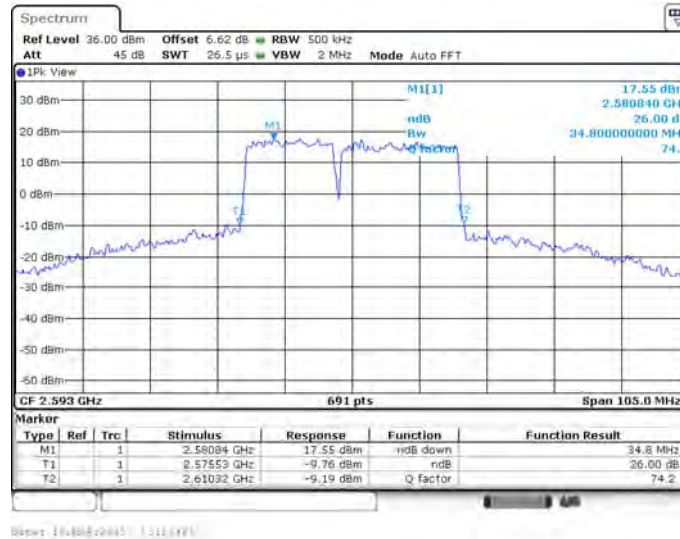
LTE CA band 41C , 15MHz+15MHz Bandwidth,16QAM (-26dBc BW)



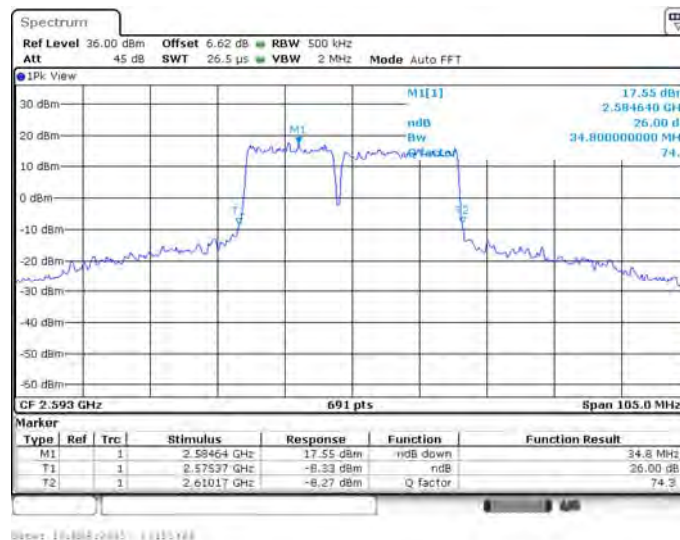
LTE CA band 41C, 15MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	34.800	34.800

LTE CA band 41C , 15MHz+20MHz Bandwidth,QPSK (-26dBc BW)



LTE CA band 41C , 15MHz+20MHz Bandwidth,16QAM (-26dBc BW)



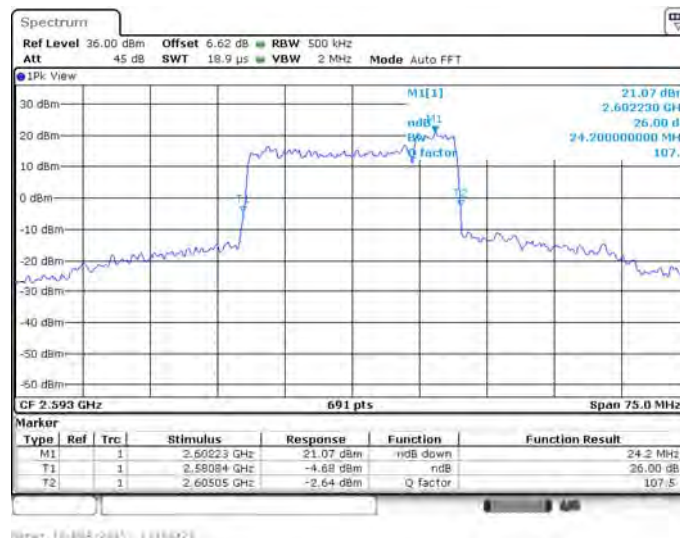
LTE CA band 41C, 20MHz+5MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	24.310	24.200

LTE CA band 41C , 20MHz+5MHz Bandwidth,QPSK (-26dBc BW)



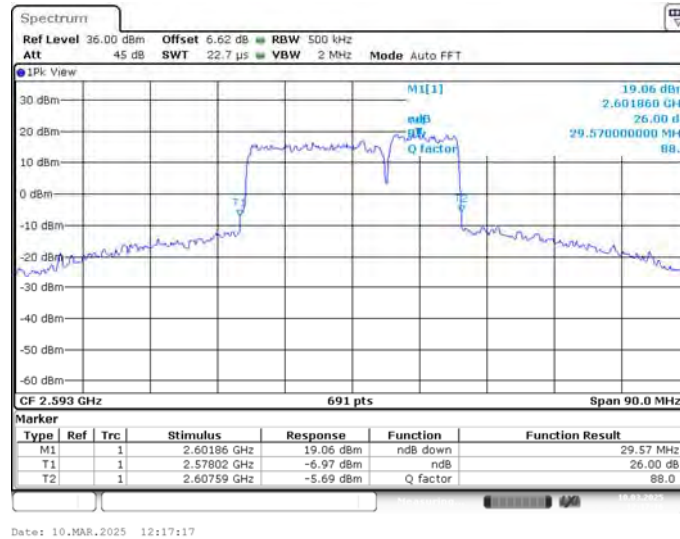
LTE CA band 41C , 20MHz+5MHz Bandwidth,16QAM (-26dBc BW)



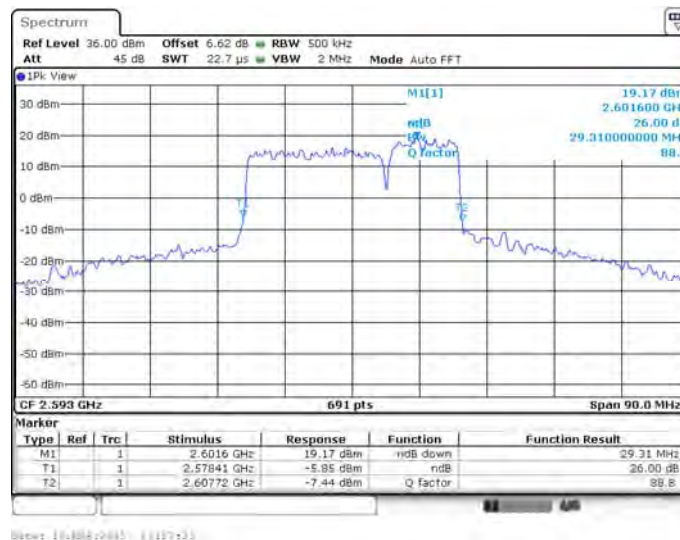
LTE CA band 41C, 20MHz+10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	29.570	29.310

LTE CA band 41C , 20MHz+10MHz Bandwidth,QPSK (-26dBc BW)



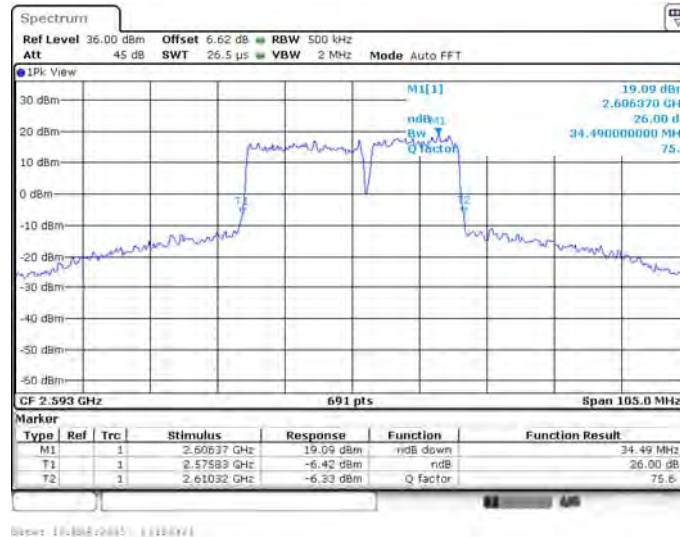
LTE CA band 41C , 20MHz+10MHz Bandwidth,16QAM (-26dBc BW)



LTE CA band 41C, 20MHz+15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	34.490	34.340

LTE CA band 41C , 20MHz+15MHz Bandwidth,QPSK (-26dBc BW)



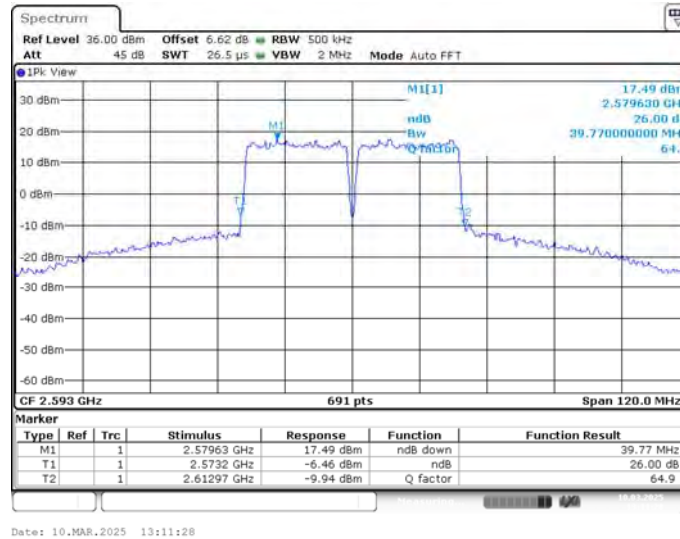
LTE CA band 41C , 20MHz+15MHz Bandwidth,16QAM (-26dBc BW)



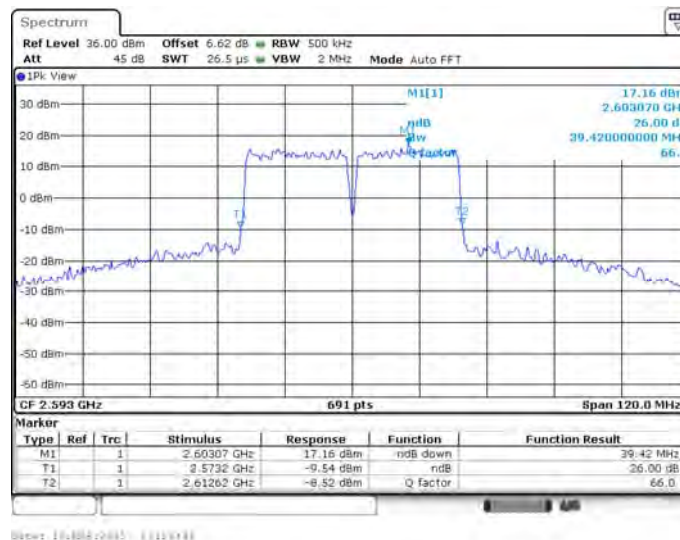
LTE CA band 41C, 20MHz+20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	QPSK	16QAM
2593.0	39.770	39.420

LTE CA band 41C , 20MHz+20MHz Bandwidth,QPSK (-26dBc BW)



LTE CA band 41C , 20MHz+20MHz Bandwidth,16QAM (-26dBc BW)



A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

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

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

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

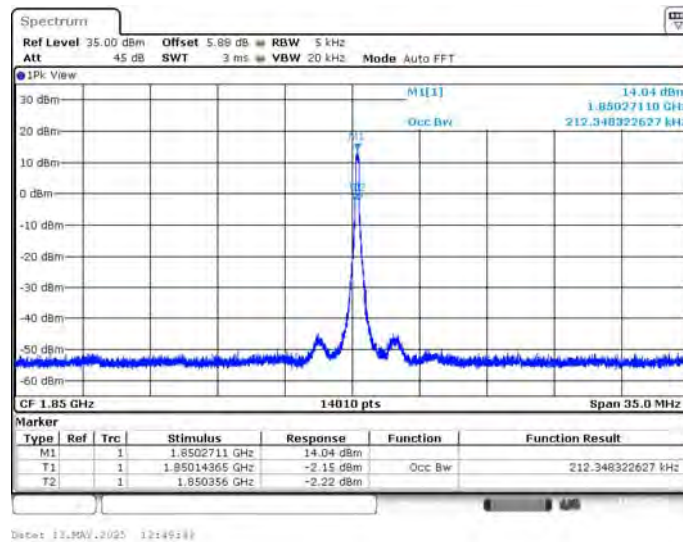
below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB. The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

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

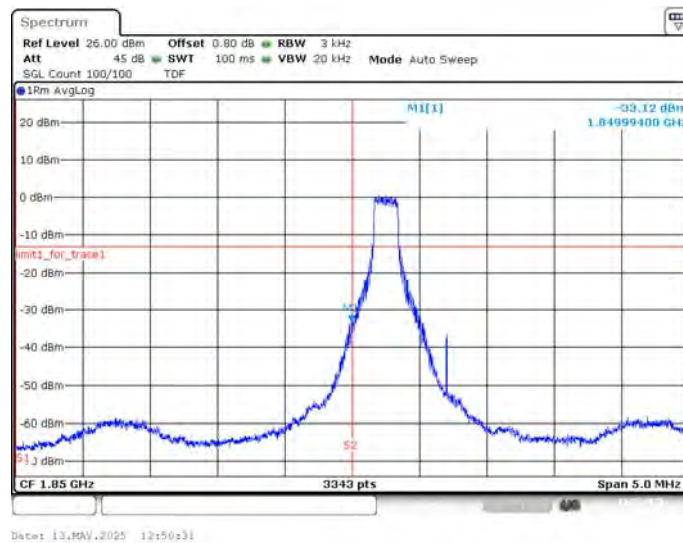
A.6.2 Measurement result

LTE band 2

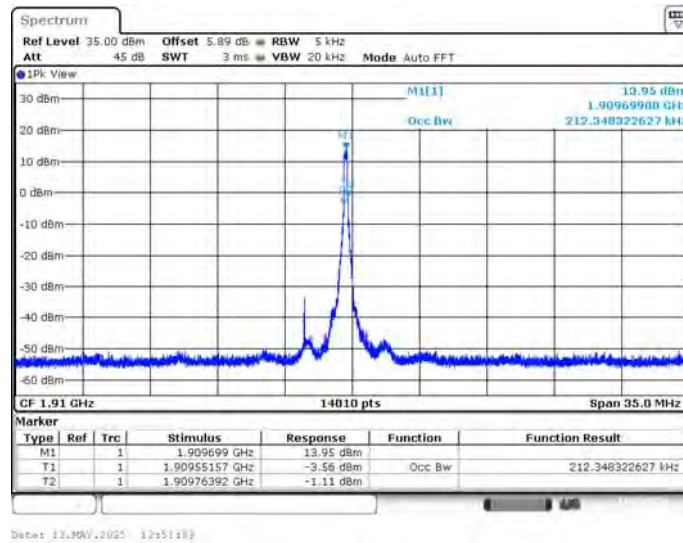
OBW: 1RB-LOW_offset



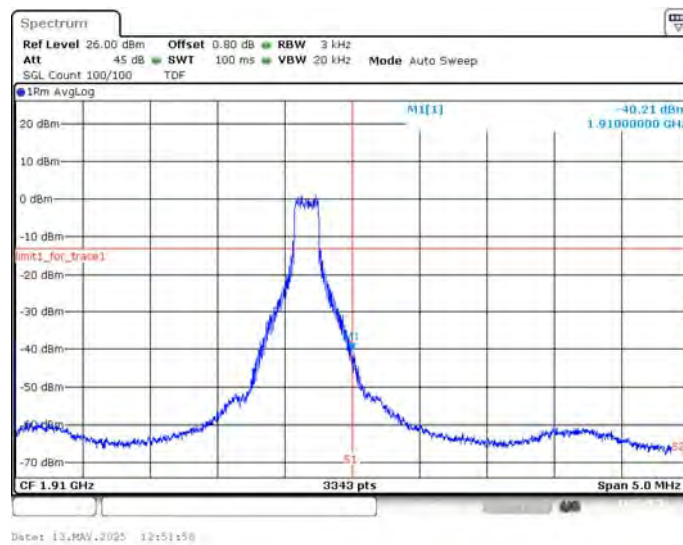
LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



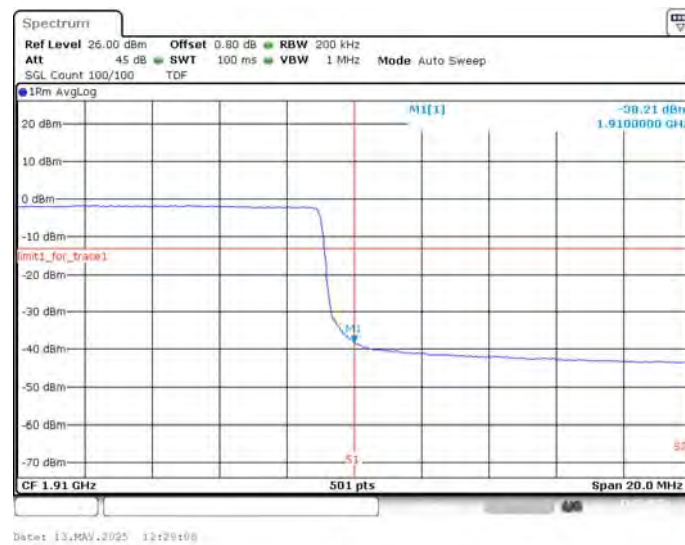
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

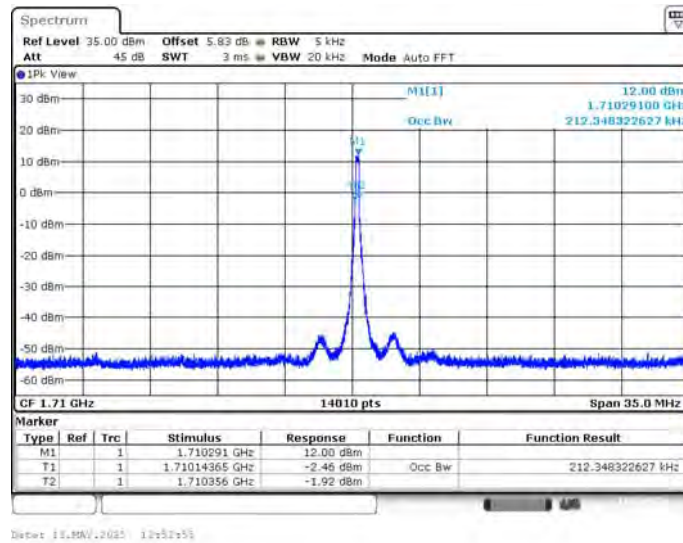


HIGH BAND EDGE BLOCK-20MHz-100%RB

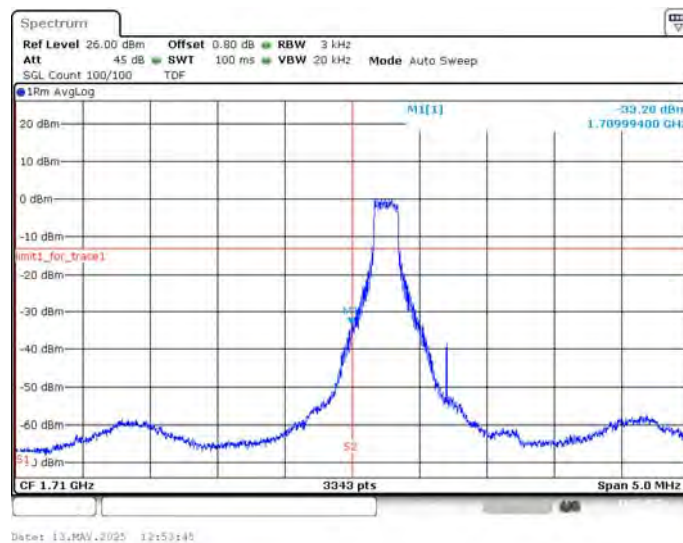


LTE band 4

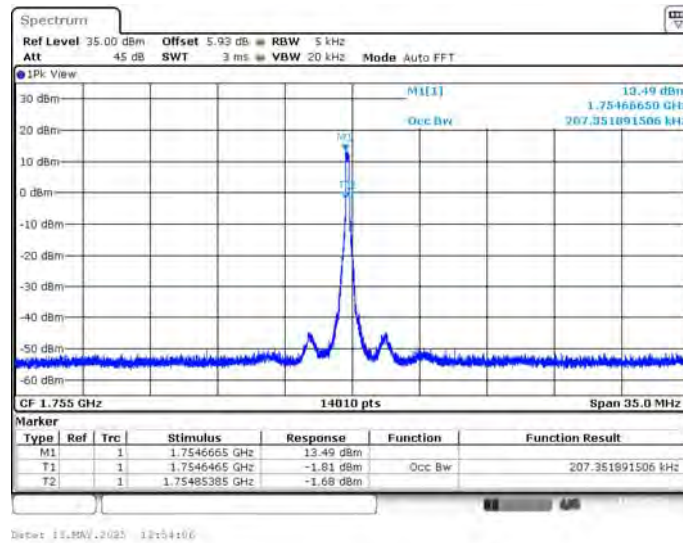
OBW: 1RB-LOW_offset



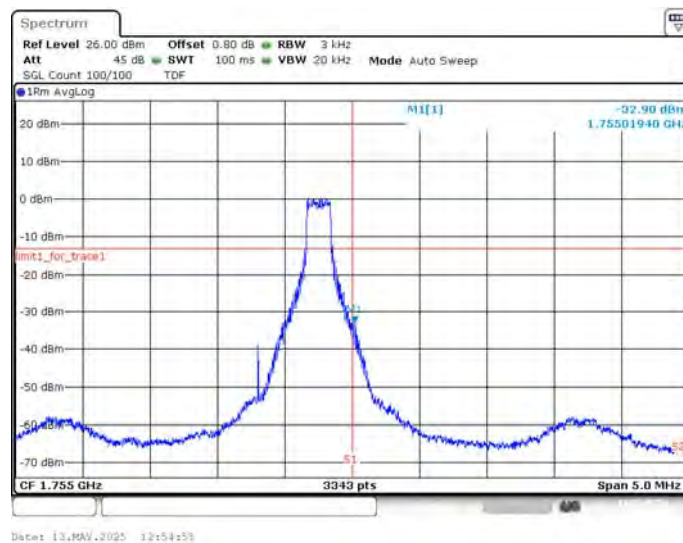
LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



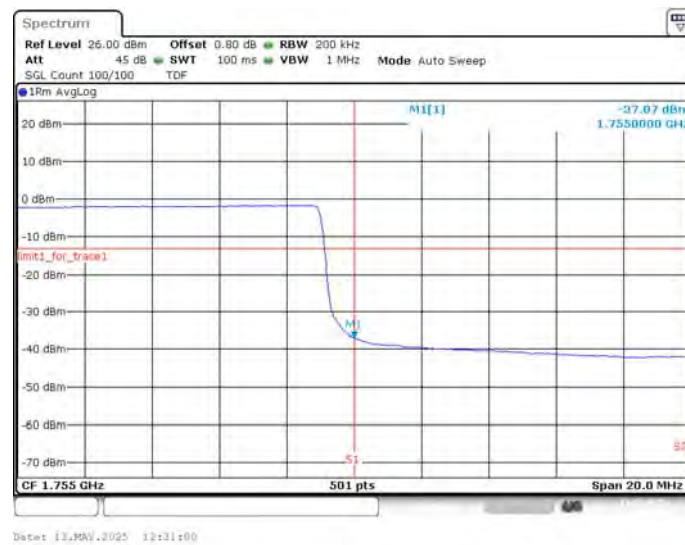
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

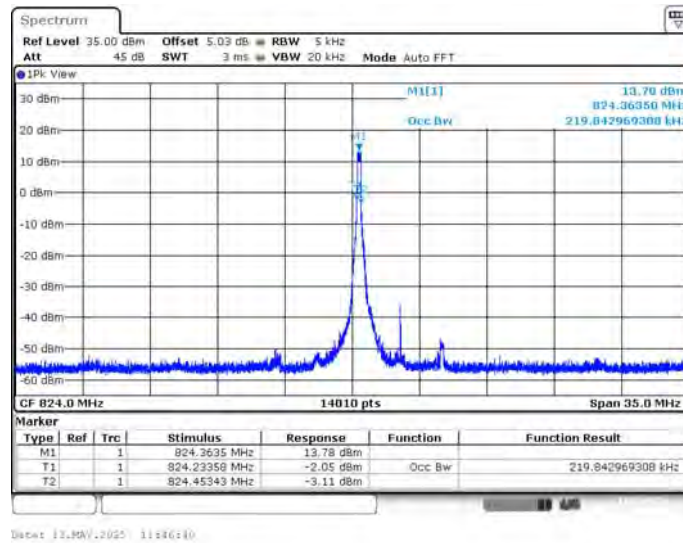


HIGH BAND EDGE BLOCK-20MHz-100%RB

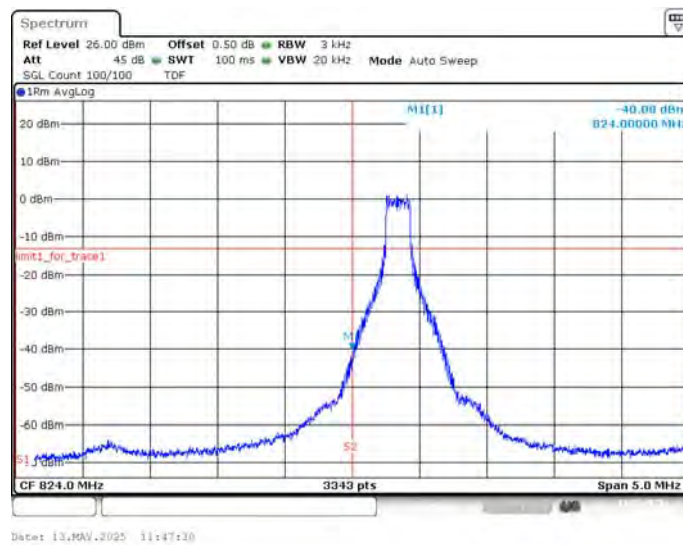


LTE band 5

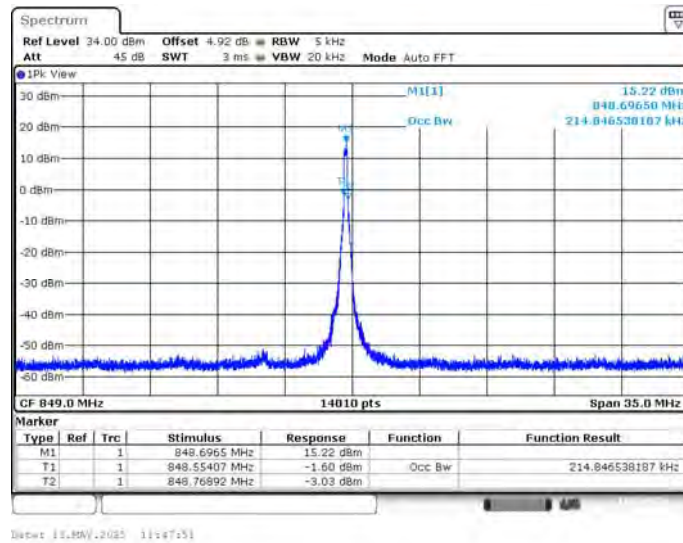
OBW: 1RB-LOW_offset



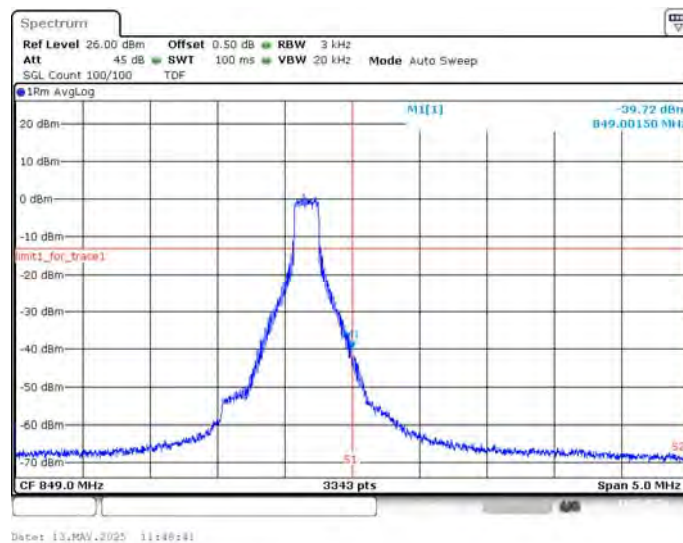
LOW BAND EDGE BLOCK-1RB-LOW_offset



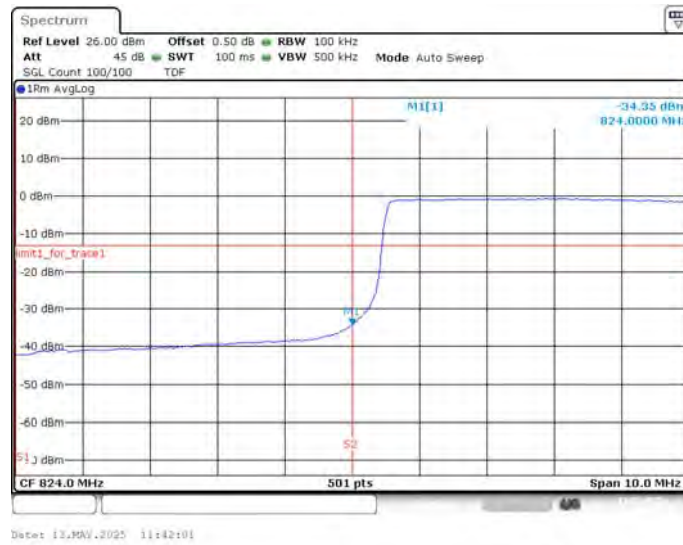
OBW: 1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

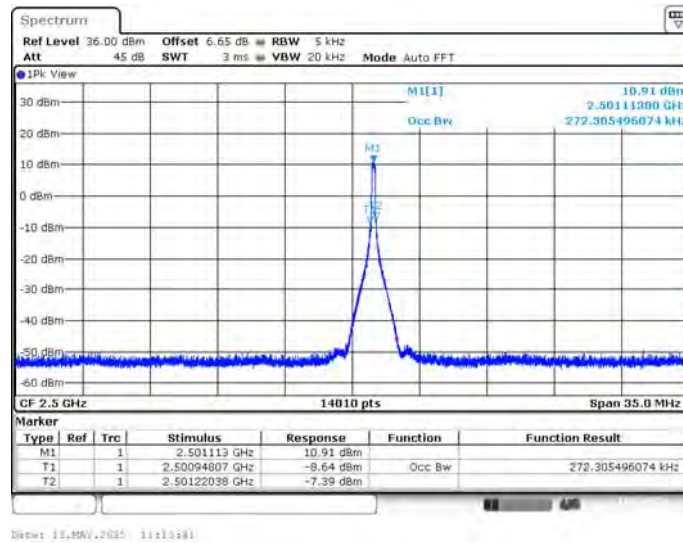


HIGH BAND EDGE BLOCK-10MHz-100%RB



LTE band 7

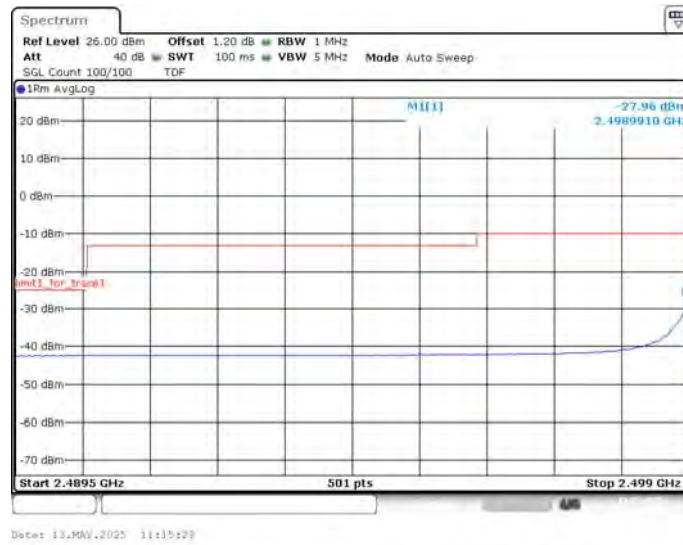
OBW: 1RB-LOW_offset



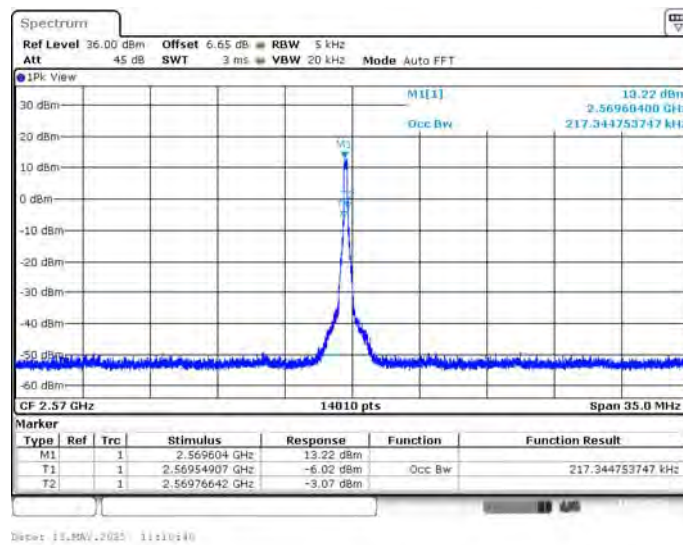
LOW BAND EDGE BLOCK-1RB-LOW_offset



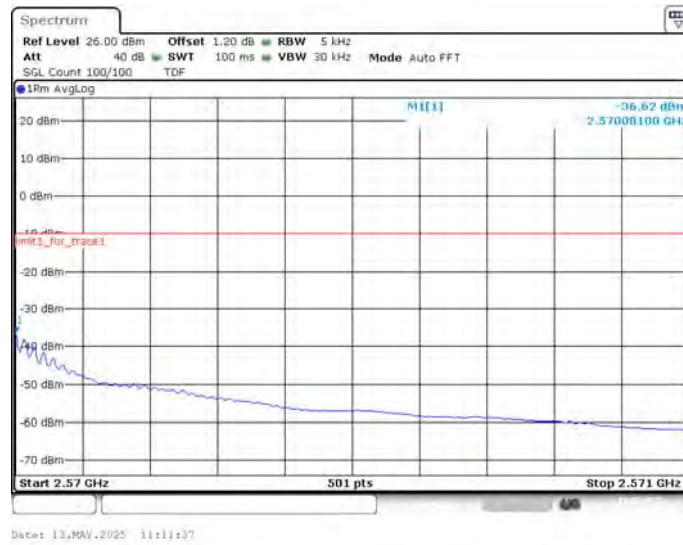
LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



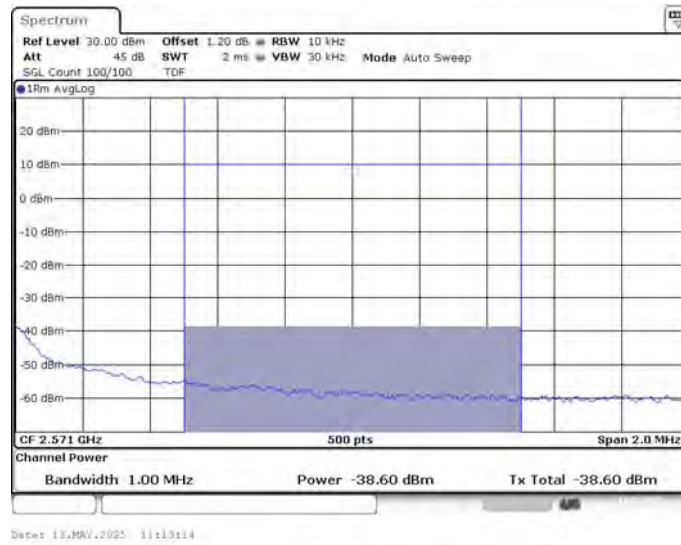
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



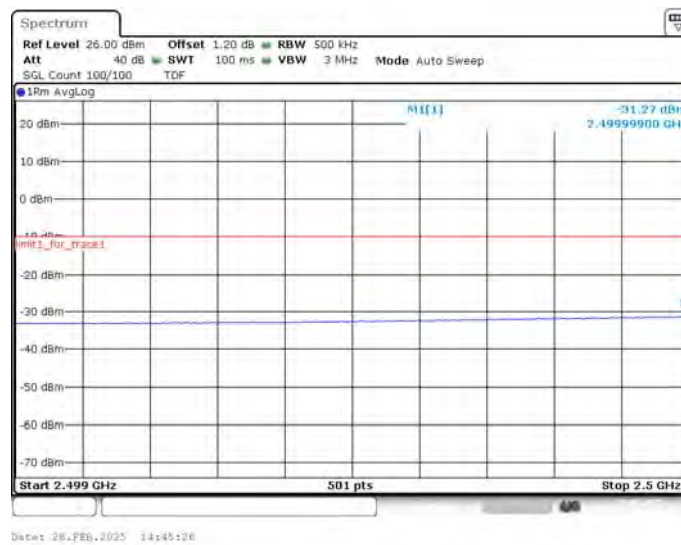
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Channel power



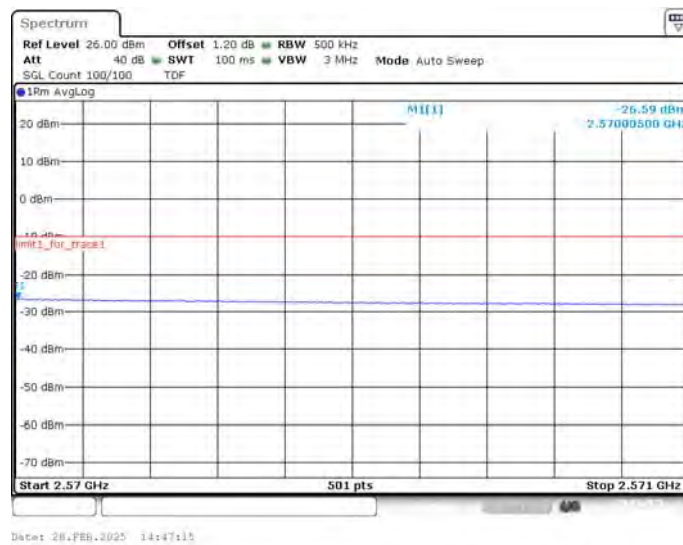
LOW BAND EDGE BLOCK-20MHz-100%RB



LOW BAND EDGE BLOCK-20MHz-100%RB



HIGH BAND EDGE BLOCK-20MHz-100%RB

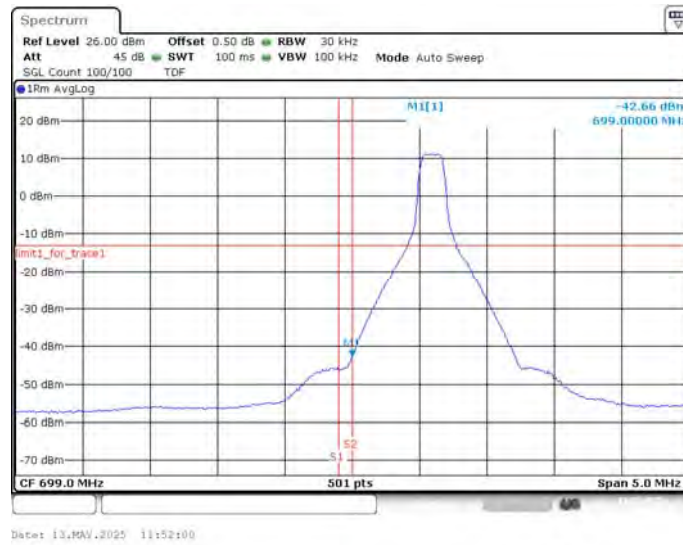


HIGH BAND EDGE BLOCK-20MHz-100%RB

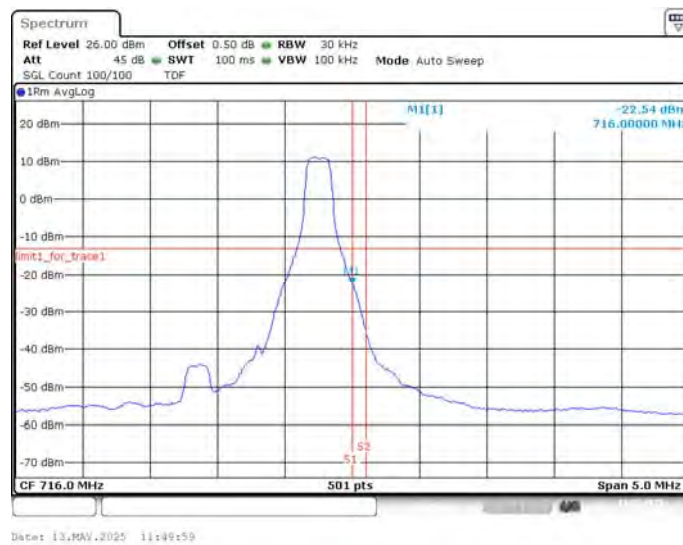


LTE band 12

LOW BAND EDGE BLOCK-1RB-LOW_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-10MHz-100%RB

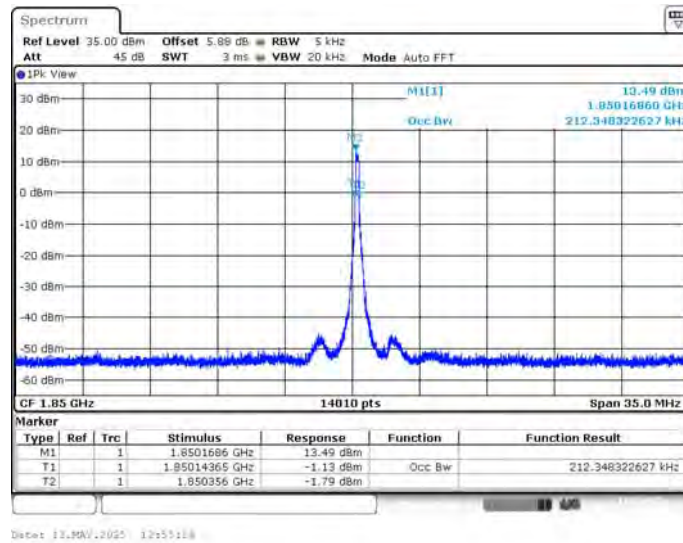


HIGH BAND EDGE BLOCK-10MHz-100%RB

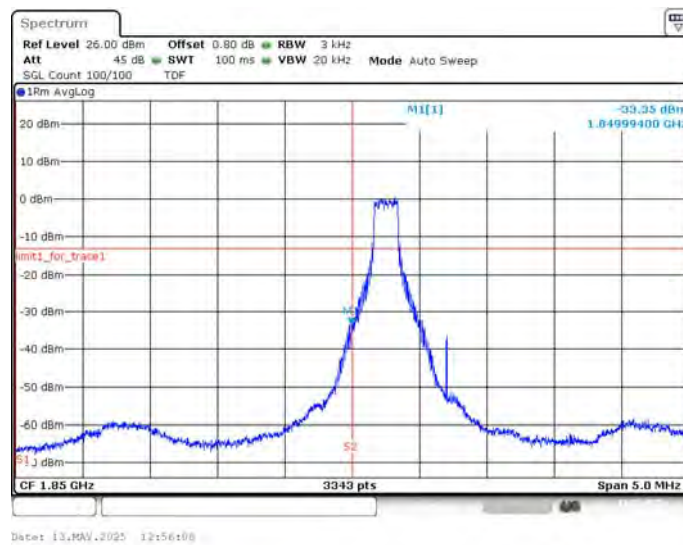


LTE band 25

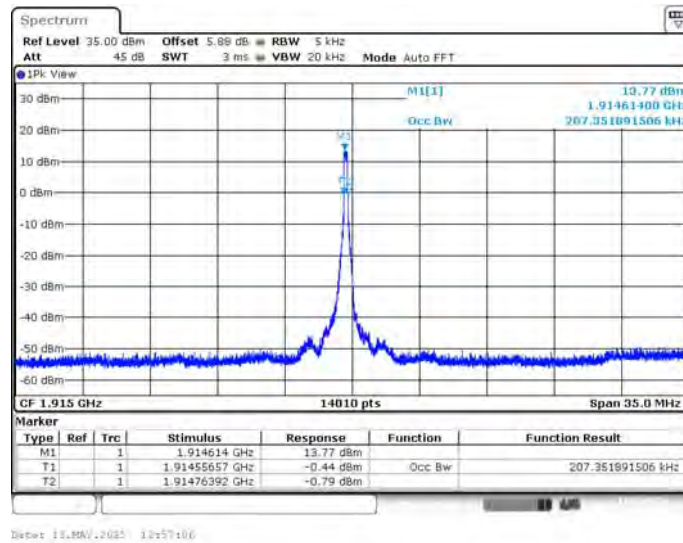
OBW: 1RB-LOW_offset



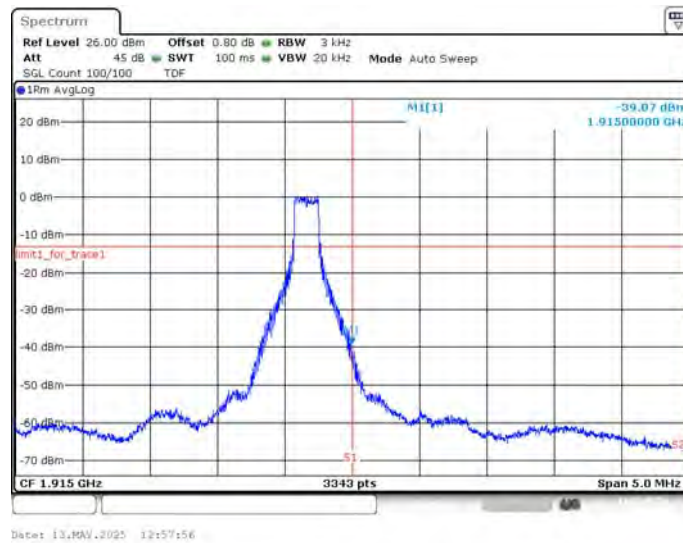
LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



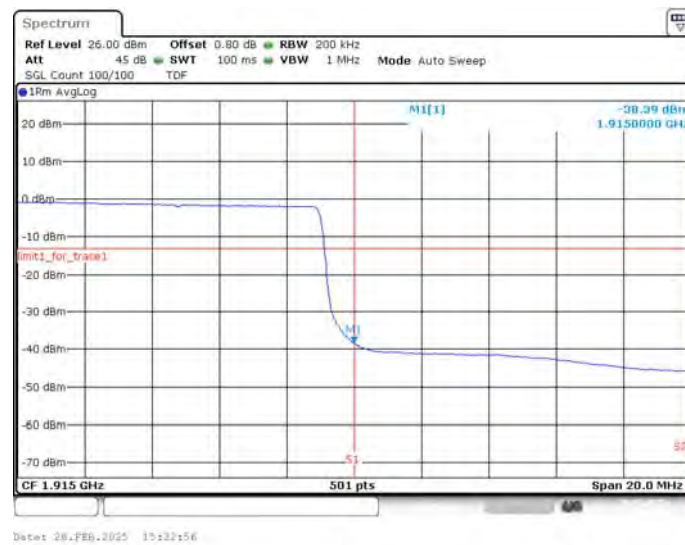
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

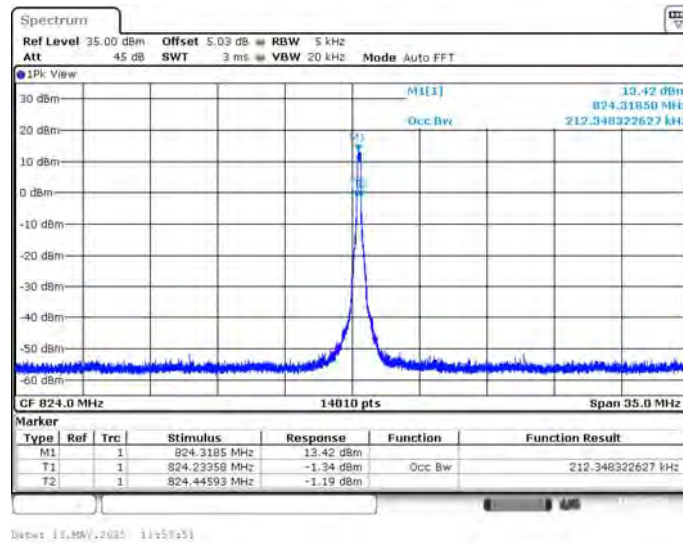


HIGH BAND EDGE BLOCK-20MHz-100%RB

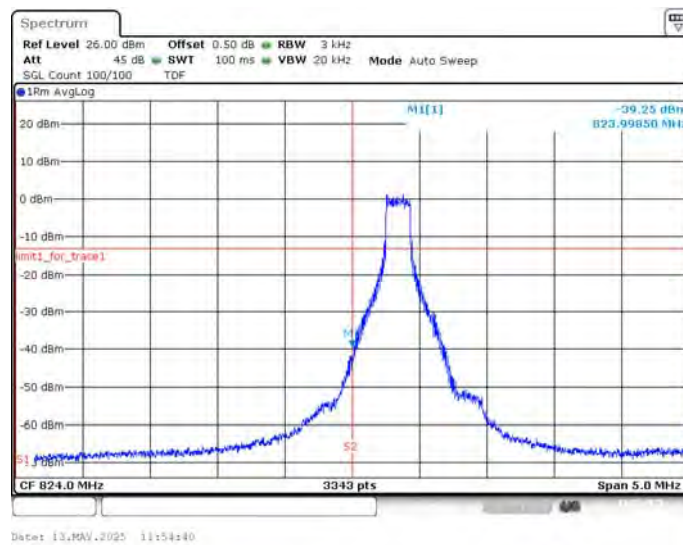


LTE band 26_Part22

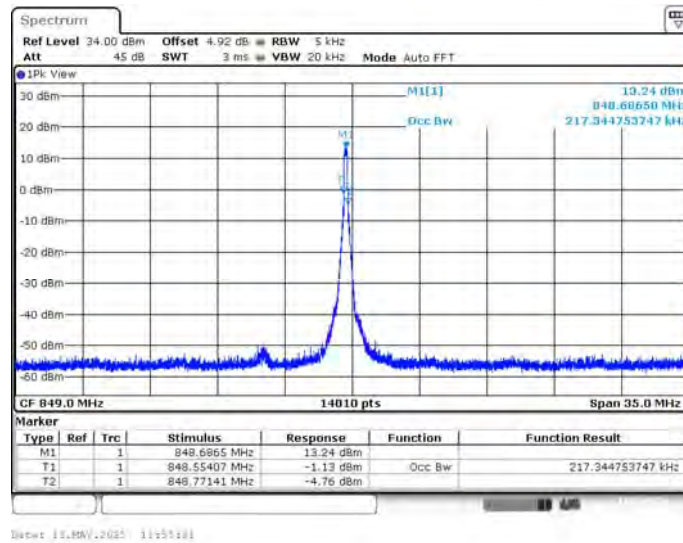
OBW: 1RB-LOW_offset



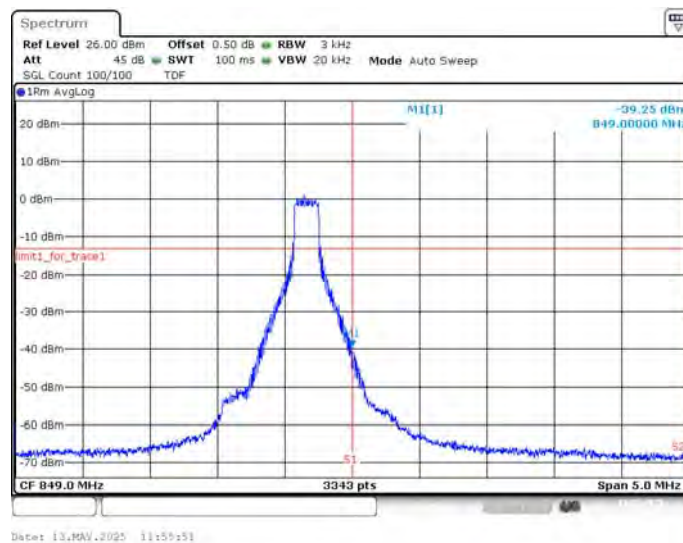
LOW BAND EDGE BLOCK-1RB-LOW_offset



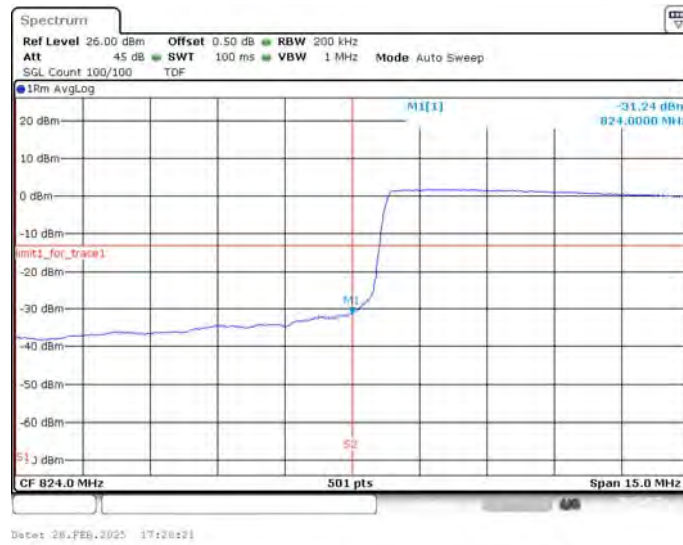
OBW: 1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset



LOW BAND EDGE BLOCK-15MHz-100%RB

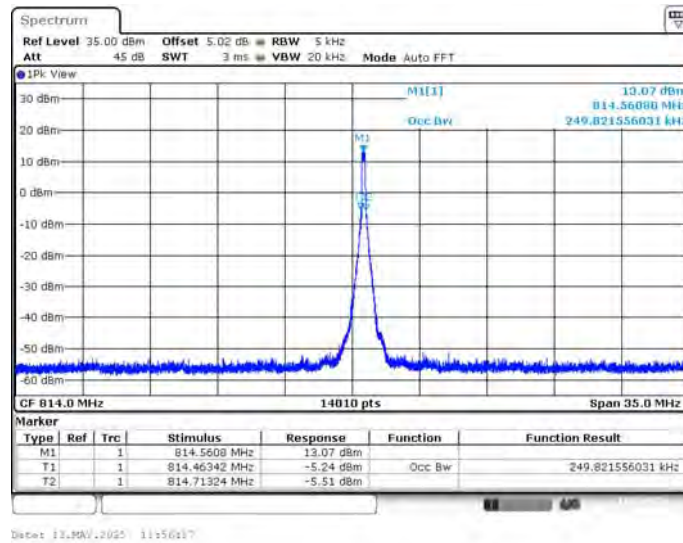


HIGH BAND EDGE BLOCK-15MHz-100%RB

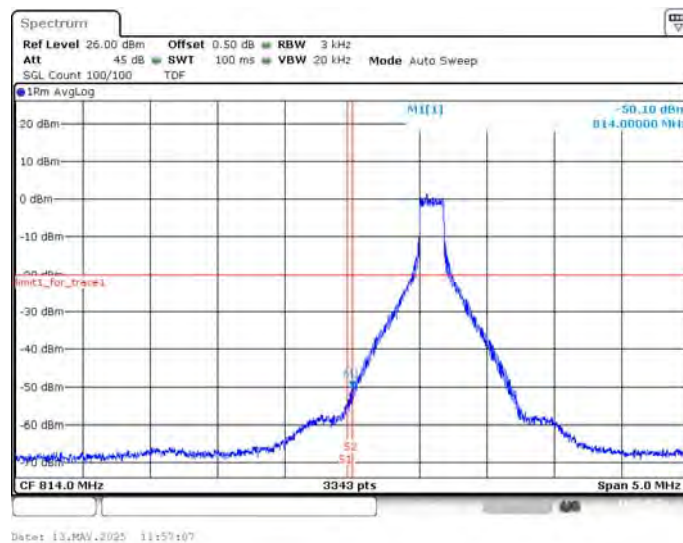


LTE band 26_Part90

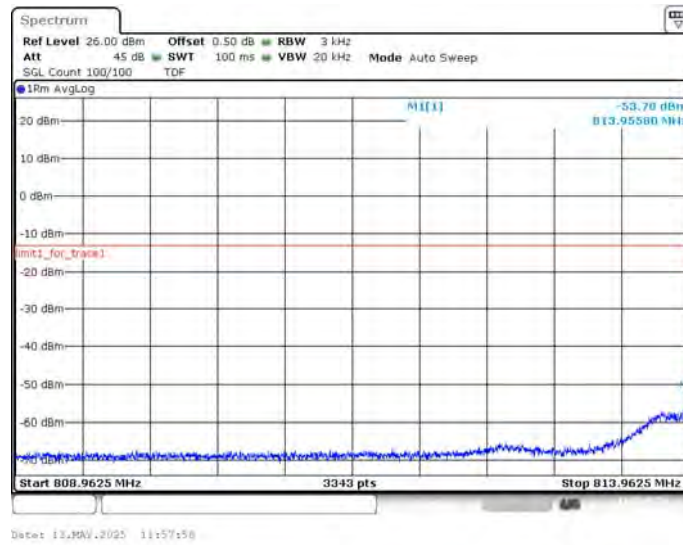
OBW: 1RB-LOW_offset



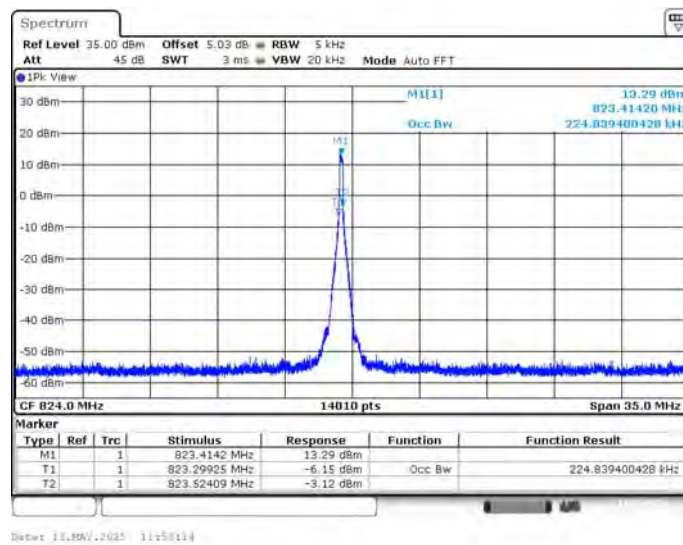
LOW BAND EDGE BLOCK-1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset



OBW: 1RB-HIGH_offset



Spectrum

Ref Level 26.00 dBm Offset 0.50 dB RBW 3 kHz
 Att 45 dB SWT 100 ms VBW 20 kHz Mode Auto Sweep

SQL Count 100/100 TDF

1Pm AvgLog

20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm
 -70 dBm

limit1_for_trace1

M1[1]

-52.00 dBm
 824.00300 MHz

S2
 S1

CF 824.0 MHz 3343 pts Span 5.0 MHz

Date: 13.MAY.2025 11:59:08

Spectrum

Ref Level 26.00 dBm Offset 0.50 dB RBW 3 kHz
Att 45 dB SWF 100 ms VBW 20 kHz Mode Auto Sweep

SQL Count 100/100 TDF

10m AvgLog

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

824.17680 MHz
-56.23 dBm

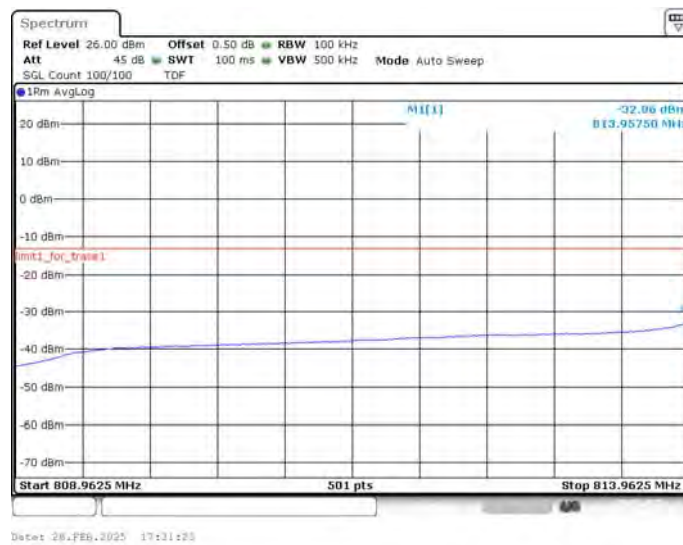
Start 824.0375 MHz 3343 pts Stop 824.0375 MHz

Date: 12.MAY.2025 11:59:56

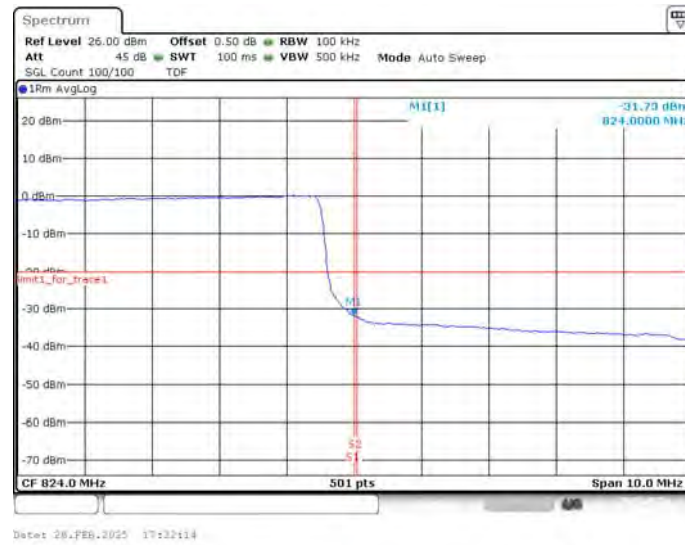
LOW BAND EDGE BLOCK-10MHz-100%RB



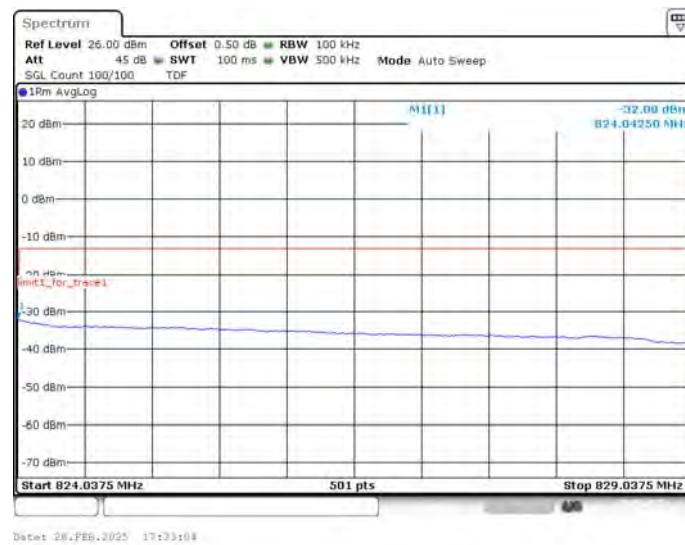
LOW BAND EDGE BLOCK-10MHz-100%RB



HIGH BAND EDGE BLOCK-10MHz-100%RB

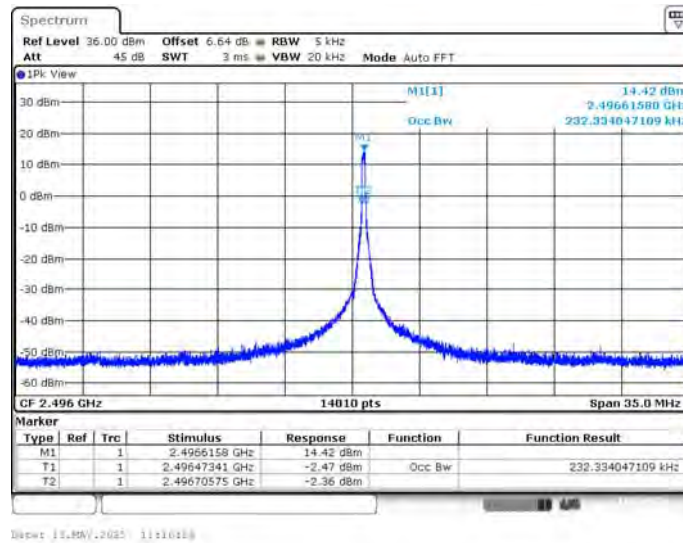


HIGH BAND EDGE BLOCK-10MHz-100%RB

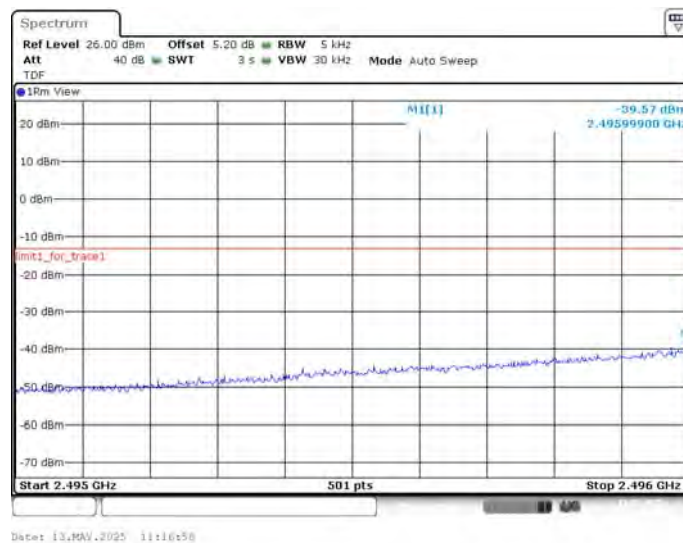


LTE band 41

OBW: 1RB-LOW_offset



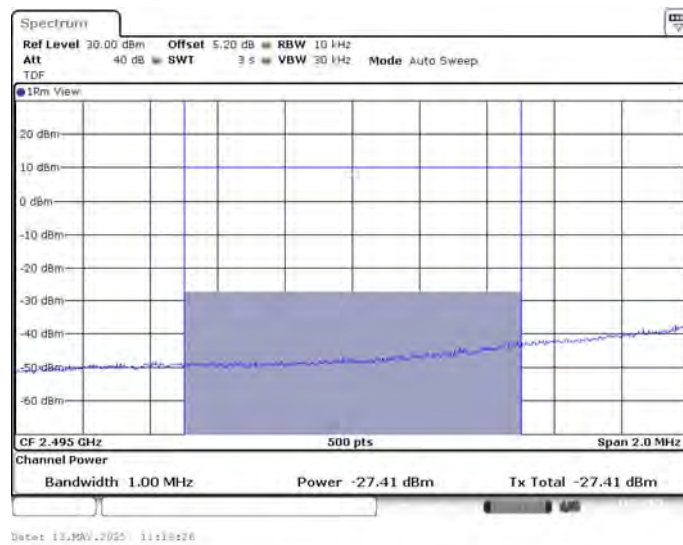
LOW BAND EDGE BLOCK-1RB-LOW_offset



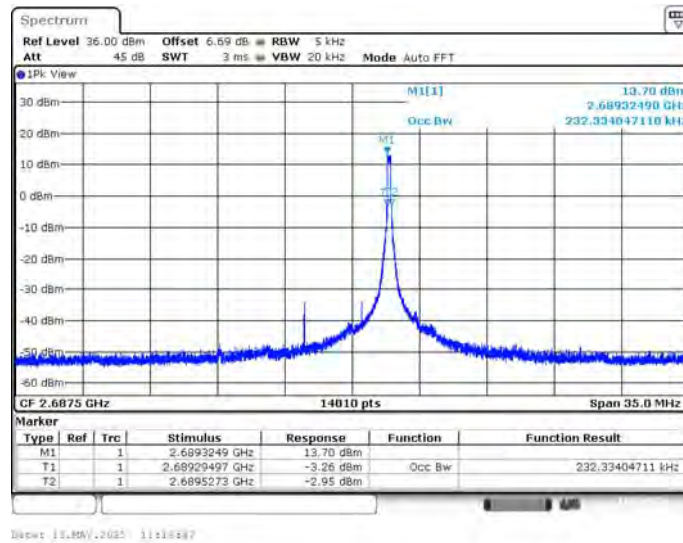
LOW BAND EDGE BLOCK-1RB-LOW_offset



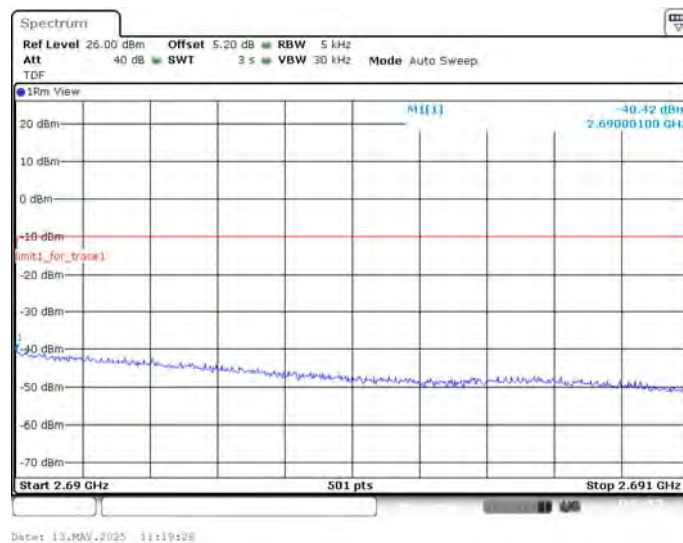
Channel power



OBW: 1RB-HIGH_offset



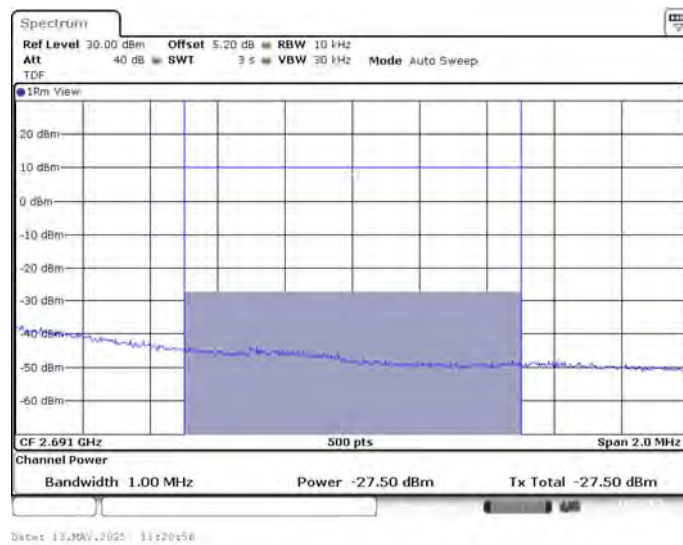
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



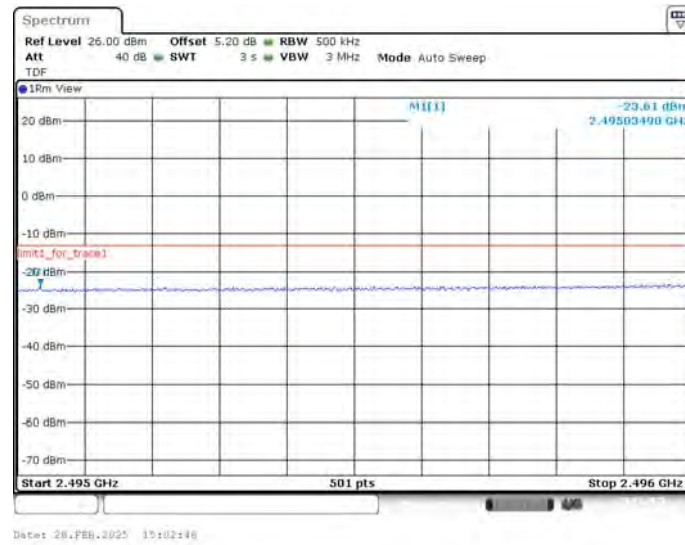
HIGH BAND EDGE BLOCK-1RB-HIGH_offset



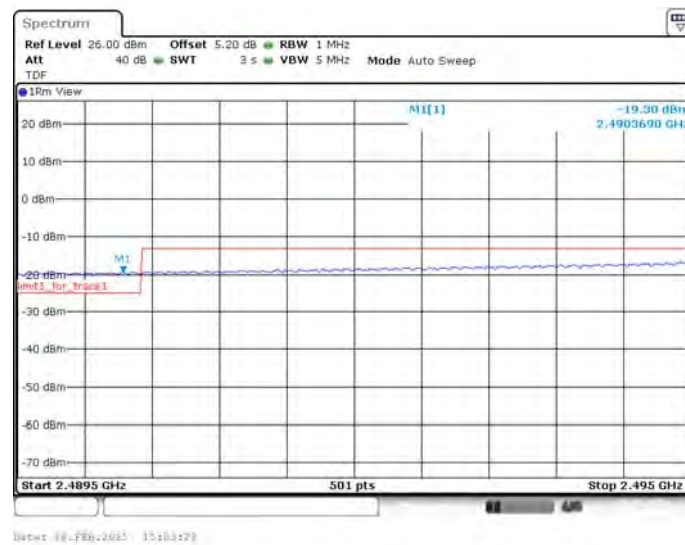
Channel power



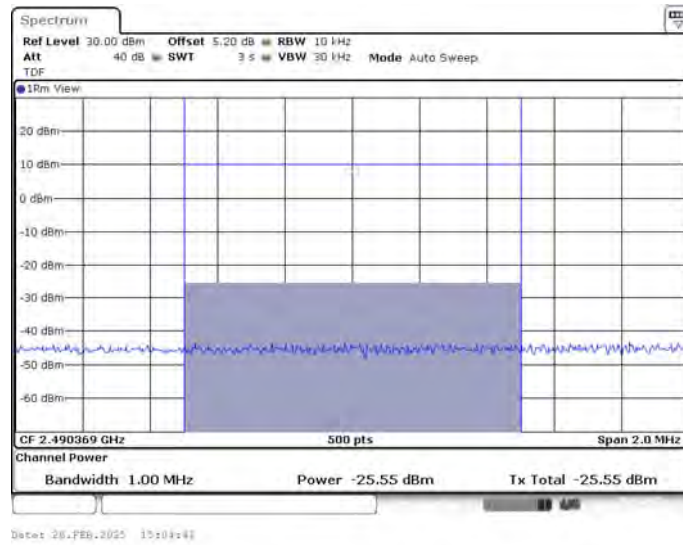
LOW BAND EDGE BLOCK-20MHz-100%RB



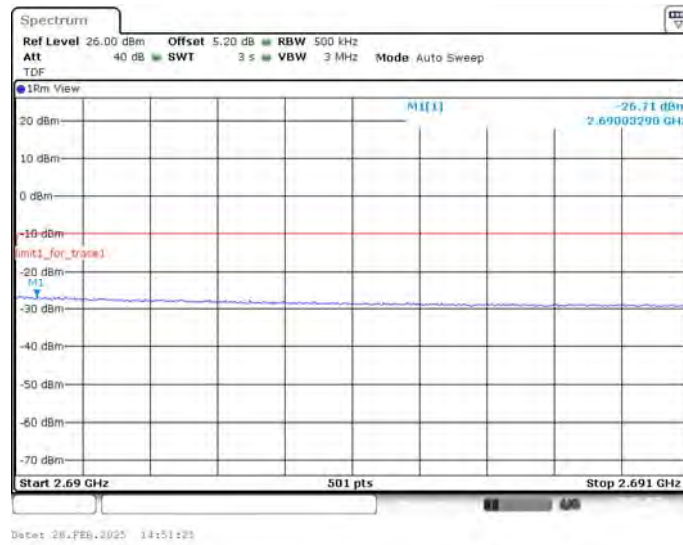
LOW BAND EDGE BLOCK-20MHz-100%RB



Channel power



HIGH BAND EDGE BLOCK-20MHz-100%RB

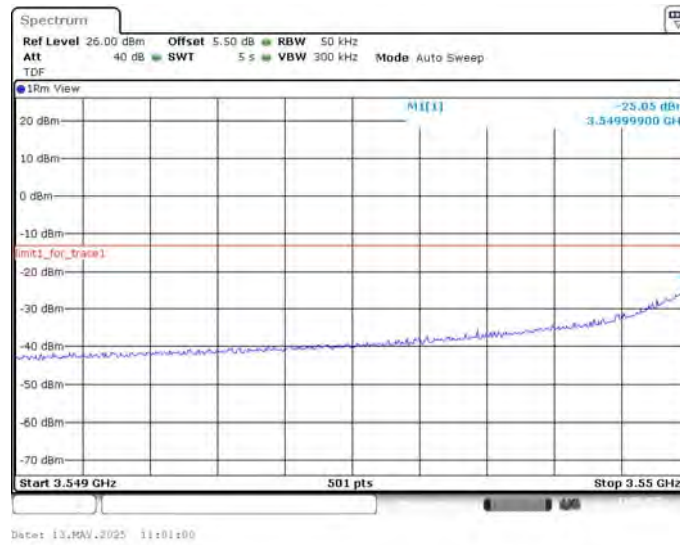


HIGH BAND EDGE BLOCK-20MHz-100%RB



LTE band 48

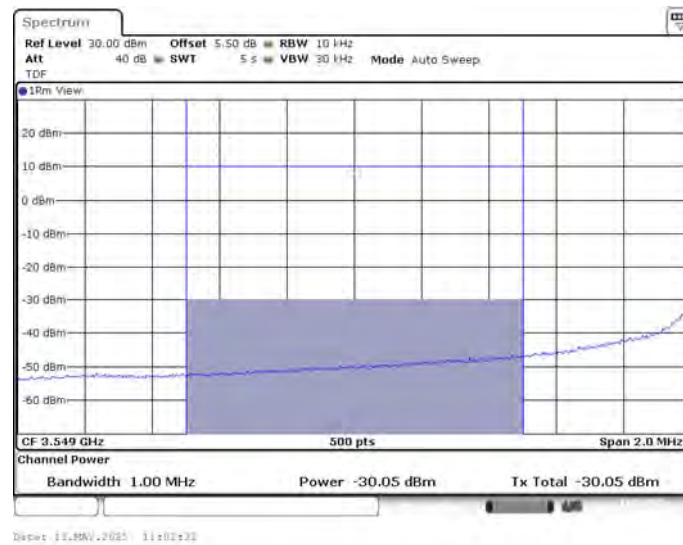
LOW BAND EDGE BLOCK-1RB-LOW_offset



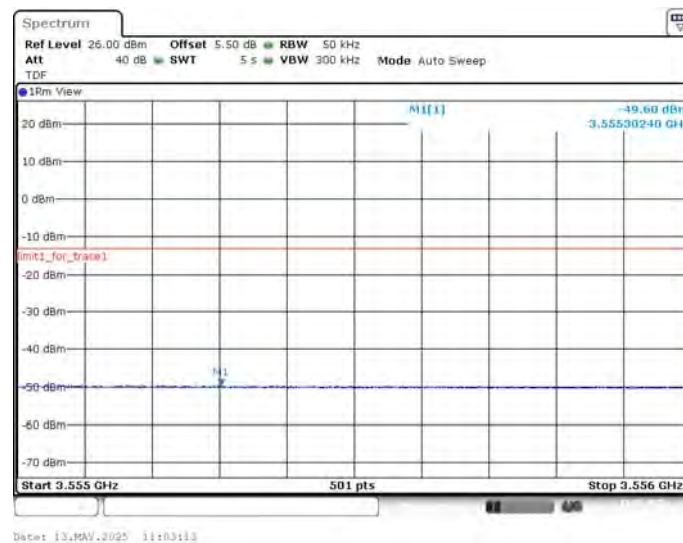
LOW BAND EDGE BLOCK-1RB-LOW_offset



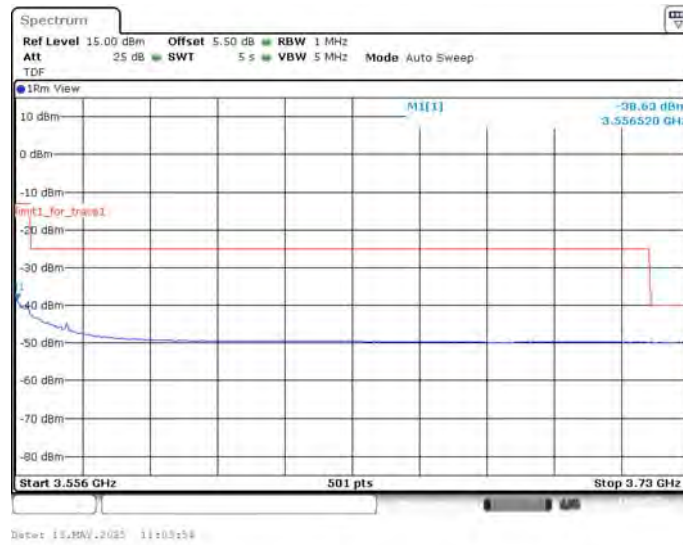
Channel power



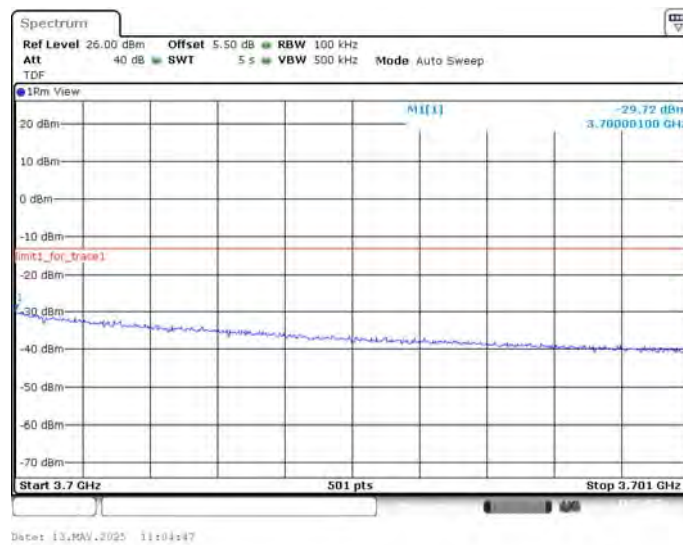
LOW BAND EDGE BLOCK-1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset



HIGH BAND EDGE BLOCK-1RB-HIGH_offset



Channel power

