The following test report with report number FG5N0809-01M is an addendum to the RF spot check test report for FCC ID: A4RGUJ0N variant model GUJ0N.
It contains test data from FCC ID: A4RGPQQ7 reference model GPQQ7 that is referenced in the variant model GUJ0N RF spot check report.

FCC RADIO TEST REPORT

FCC ID	:	**A4RGPQQ7**
Equipment	:	**Phone**
Model Name	:	**GPQQ7**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC 47 CFR Part 2, Part 90(R), Part 90(S)**

The product was received on Nov. 20, 2025 and testing was performed from Nov. 21, 2025 to May 27, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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Appendix A Conducted Test Result Page No. Information								
LTE Band	Appendix	PAR	26dB BW	OBW	CBE	Mask	CSE	FS
14	A14	A14-1	A14-4	A14-5	A14-6	A14-8	A14-12	A14-14
26_90S	A26L	A26L-1	A26L-5	A26L-7	N/A	A26L-9	A26L-12	A26L-17
26_90S Straddle	A26S	A26S-1	A26S-5	A26S-7	N/A	N/A	A26S-9	A26S-11

History of this test report

Report No.	Version	Description	Issue Date
FG5N0809-01M	01	Initial issue of report	Apr. 22, 2026
FG5N0809-01M	02	Add PAR Full Bandwidth test data	May 29, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§90.635	Effective Radiated Power (Band 26)	Pass	
	§90.542 (a)(7)	Effective Radiated Power (Band 14)		
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051	Conducted Band Edge Measurement (Band 26)	Pass	-
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (Band 14)		
3.6	§2.1051 §90.210 (n)	Emission Mask (Band 14)	Pass	-
	§2.1051 §90.691	Emission masks (Band 26)		
3.7	§2.1051 §90.691	Conducted Spurious Emission (Band 26)	Pass	-
	§2.1051 §90.543 (e)(3)	Conducted Spurious Emission (Band 14)		
3.8	§2.1055 §90.539 (e) §90.691	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §90.691	Radiated Spurious Emission (Band 26)	Pass	-
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (Band 14)		

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Vina Su

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx. **Antenna Type** WWAN: **<Ant. 0>:** ILA Antenna **<Ant. 1>:** ILA Antenna

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	**Performed Test Item**
5B081FDDX0002S	Conducted Measurement ERP/EIRP
5B111FDDX000D8	Radiated Spurious Emission

Support band and evaluated information	
Supported band	B14, B26
Evaluated and Tested band	B14, B26

Antenna information						
Band	**Ant0**	**Ant1**			**Main Ant. #**	**Sub Ant. #**
B14	-3.3	-1.8			0	1
B26	-2.4	-2.6			0	1

Remark:
1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant 0 for Low band and main antenna Ant 2 for Mid/high band are selected as the worst mode to be reported for conducted test.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	**Sporton Site No.**	
	TH05-HY	03CH12-HY
Test Engineer	Yuki Chen	Tim Lee、Wilson Wu 、Gerry Wei
Temperature (℃)	22.4~23.2	20~25
Relative Humidity (%)	52.5~55.1	50~60

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW3786

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R), Part 90(S)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find worst plane as below.

Plane	Main Antenna	Sub Antenna
B14	Z with adapter	Y with adapter
B26 (90S)	Z with adapter	Y with adapter

Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

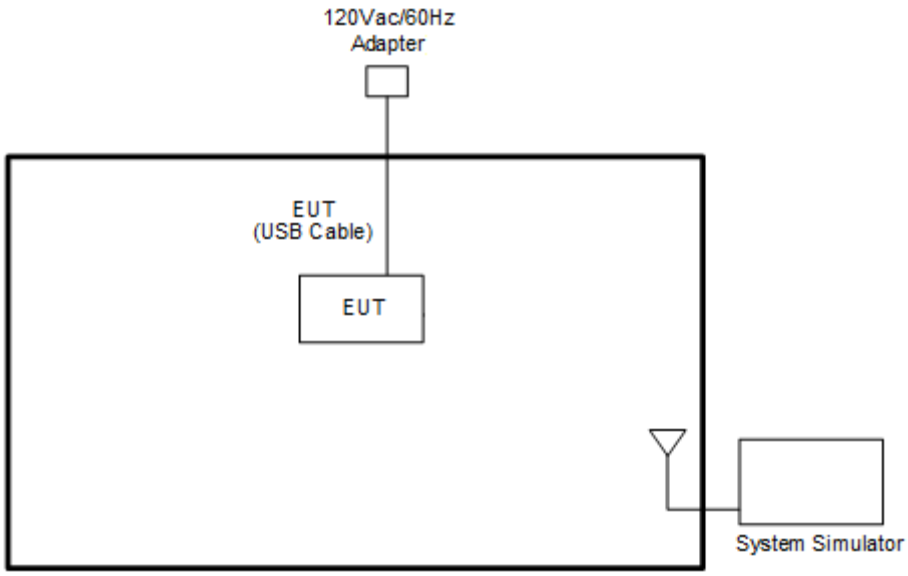
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	All	Full	M
Bandwidth	A, B, C, D	All	Full	M
CBE, Mask (Part 90)	A, B, C, D	Minimum	1RB	L, M, H
		All	Full	
CSE	A	Minimum	1RB	L, M, H
Frequency Stability	A	10MHz/15MHz (B26)	Full	L, M
		10 MHz or less (other)		
RSE	A	5MHz/15MHz (B26)	1RB	L, M, H
		10 MHz or less (other)		

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	AC Adapter	N/A	GW8L7	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3
LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	**Channel/Frequency(MHz)**	**cross-rule channels**		
15	Channel	26765	26790	-
	Frequency	821.5	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-

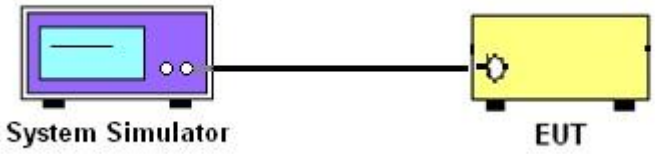
3 Conducted Test Items

3.1 Measuring Instruments

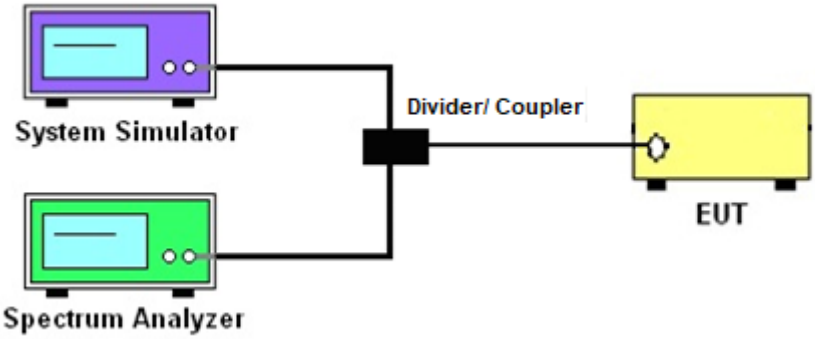
See list of measuring instruments of this test report.

3.1.1 Test Setup

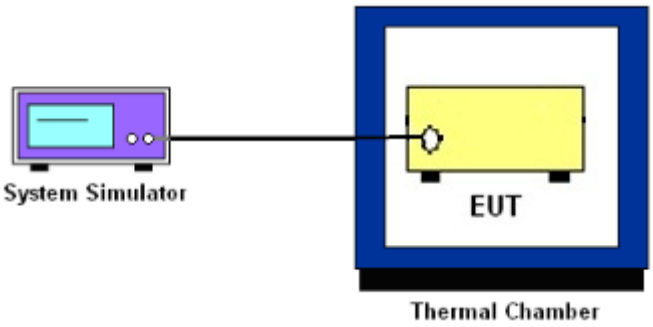
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge, Emission Mask and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The conducted power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.2.3 Test Result of the Conducted Output Power and ERP/EIRP Measurement

<LTE B14 TX0 ANT2>

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -3.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	24.62	-	19.17	0.0826
10	1	25		-	24.53	-		
10	1	49		-	24.57	-		
10	25	0		-	23.56	-		
10	25	12		-	23.46	-		
10	25	25		-	23.46	-		
10	50	0		-	23.46	-		
10	1	0	16-QAM	-	23.74	-	18.32	0.0679
10	1	25		-	23.75	-		
10	1	49		-	23.77	-		
10	1	0	64-QAM	-	22.68	-	17.23	0.0528
10	1	25		-	22.67	-		
10	1	49		-	22.66	-		
10	1	0	256-QAM	-	19.67	-	14.22	0.0264
10	1	25		-	19.60	-		
10	1	49		-	19.60	-		
5	1	0	QPSK	24.53	24.60	24.57	19.15	0.0822
5	1	12		24.47	24.50	24.41		
5	1	24		24.54	24.43	24.52		
5	12	0		23.43	23.47	23.41		
5	12	7		23.35	23.36	23.31		
5	12	13		23.41	23.38	23.41		
5	25	0		23.46	23.43	23.42		
5	1	0	16-QAM	23.71	23.75	23.77	18.37	0.0687
5	1	12		23.67	23.70	23.57		
5	1	24		23.82	23.72	23.76		
5	1	0	64-QAM	22.69	22.71	22.75	17.30	0.0537
5	1	12		22.60	22.61	22.48		
5	1	24		22.70	22.52	22.64		
5	1	0	256-QAM	19.61	19.71	19.62	14.26	0.0267
5	1	12		19.59	19.55	19.43		
5	1	24		19.60	19.50	19.53		
Limit	ERP < 3W			Result			Pass	

<LTE B14 TX1 ANT0>

LTE Band 14 Maximum Average Power [dBm] (GT - LC = -1.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	-	24.20	-	20.25	0.1059
10	1	25		-	24.11	-		
10	1	49		-	24.13	-		
10	25	0		-	23.14	-		
10	25	12		-	23.08	-		
10	25	25		-	23.04	-		
10	50	0		-	23.05	-		
10	1	0	16-QAM	-	23.42	-	19.47	0.0885
10	1	25		-	23.28	-		
10	1	49		-	23.40	-		
10	1	0	64-QAM	-	22.27	-	18.32	0.0679
10	1	25		-	22.16	-		
10	1	49		-	22.21	-		
10	1	0	256-QAM	-	19.21	-	15.28	0.0337
10	1	25		-	19.18	-		
10	1	49		-	19.23	-		
5	1	0	QPSK	24.14	24.19	24.18	20.24	0.1057
5	1	12		24.14	24.13	24.12		
5	1	24		24.18	24.15	24.17		
5	12	0		23.05	23.11	23.07		
5	12	7		23.00	23.00	22.97		
5	12	13		23.05	23.00	23.02		
5	25	0		23.10	23.11	23.07		
5	1	0	16-QAM	23.37	23.40	23.40	19.48	0.0887
5	1	12		23.31	23.33	23.29		
5	1	24		23.40	23.43	23.43		
5	1	0	64-QAM	22.24	22.34	22.34	18.39	0.0690
5	1	12		22.25	22.27	22.20		
5	1	24		22.34	22.26	22.28		
5	1	0	256-QAM	19.22	19.27	19.22	15.33	0.0341
5	1	12		19.20	19.17	19.12		
5	1	24		19.27	19.19	19.28		
Limit	ERP < 3W			Result			Pass	

<LTE B26 TX0 ANT0>

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	24.52	-	-	19.97	0.0993
15	1	37		24.34	-	-		
15	1	74		24.32	-	-		
15	36	0		23.34	-	-		
15	36	20		23.27	-	-		
15	36	39		23.28	-	-		
15	75	0		23.32	-	-		
15	1	0	16-QAM	23.78	-	-	19.23	0.0838
15	1	37		23.58	-	-		
15	1	74		23.67	-	-		
15	1	0	64-QAM	22.61	-	-	18.06	0.0640
15	1	37		22.46	-	-		
15	1	74		22.50	-	-		
15	1	0	256-QAM	19.52	-	-	14.97	0.0314
15	1	37		19.45	-	-		
15	1	74		19.52	-	-		
10	1	0	QPSK	-	24.51	-	19.96	0.0991
10	1	25		-	24.30	-		
10	1	49		-	24.43	-		
10	25	0		-	23.31	-		
10	25	12		-	23.26	-		
10	25	25		-	23.32	-		
10	50	0		-	23.28	-		
10	1	0	16-QAM	-	23.69	-	19.14	0.0820
10	1	25		-	23.48	-		
10	1	49		-	23.61	-		
10	1	0	64-QAM	-	22.50	-	17.96	0.0625
10	1	25		-	22.40	-		
10	1	49		-	22.51	-		
10	1	0	256-QAM	-	19.50	-	14.95	0.0313
10	1	25		-	19.41	-		
10	1	49		-	19.44	-		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.40	24.38	24.33	19.93	0.0984
5	1	12		24.37	24.30	24.28		
5	1	24		24.38	24.48	24.46		
5	12	0		23.35	23.30	23.36		
5	12	7		23.26	23.17	23.27		
5	12	13		23.28	23.38	23.21		
5	25	0		23.38	23.33	23.43		
5	1	0	16-QAM	23.60	23.60	23.56	19.09	0.0811
5	1	12		23.57	23.55	23.59		
5	1	24		23.61	23.64	23.57		
5	1	0	64-QAM	22.56	22.65	22.60	18.10	0.0646
5	1	12		22.49	22.52	22.39		
5	1	24		22.50	22.44	22.43		
5	1	0	256-QAM	19.52	19.53	19.50	15.00	0.0316
5	1	12		19.43	19.45	19.36		
5	1	24		19.46	19.48	19.55		
3	1	0	QPSK	24.36	24.27	24.28	19.85	0.0966
3	1	8		24.26	24.33	24.23		
3	1	14		24.34	24.40	24.27		
3	8	0		23.29	23.25	23.27		
3	8	4		23.23	23.26	23.20		
3	8	7		23.26	23.21	23.28		
3	15	0		23.28	23.31	23.31		
3	1	0	16-QAM	23.58	23.49	23.56	19.12	0.0817
3	1	8		23.57	23.61	23.67		
3	1	14		23.58	23.53	23.65		
3	1	0	64-QAM	22.45	22.50	22.55	18.00	0.0631
3	1	8		22.38	22.44	22.29		
3	1	14		22.47	22.39	22.47		
3	1	0	256-QAM	19.47	19.39	19.52	14.97	0.0314
3	1	8		19.39	19.29	19.47		
3	1	14		19.40	19.48	19.50		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.21	24.30	24.19	19.75	0.0944
1.4	1	3		24.13	24.08	24.20		
1.4	1	5		24.24	24.30	24.22		
1.4	3	0		24.11	24.10	24.01		
1.4	3	1		24.08	23.99	24.17		
1.4	3	3		24.10	24.15	24.11		
1.4	6	0		23.15	23.11	23.06		
1.4	1	0	16-QAM	23.43	23.51	23.51	18.96	0.0787
1.4	1	3		23.39	23.47	23.37		
1.4	1	5		23.49	23.48	23.43		
1.4	1	0	64-QAM	22.38	22.34	22.43	17.91	0.0618
1.4	1	3		22.36	22.46	22.32		
1.4	1	5		22.42	22.32	22.33		
1.4	1	0	256-QAM	19.35	19.35	19.40	14.90	0.0309
1.4	1	3		19.29	19.36	19.39		
1.4	1	5		19.41	19.45	19.40		
Limit	ERP < 100W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	-	24.54	-	19.99	0.0998
15	1	37		-	24.32	-		
15	1	74		-	24.27	-		
15	36	0		-	23.43	-		
15	36	20		-	23.20	-		
15	36	39		-	23.38	-		
15	75	0		-	23.42	-		
15	1	0	16-QAM	-	23.85	-	19.30	0.0851
15	1	37		-	23.54	-		
15	1	74		-	23.77	-		
15	1	0	64-QAM	-	22.65	-	18.10	0.0646
15	1	37		-	22.38	-		
15	1	74		-	22.60	-		
15	1	0	256-QAM	-	19.47	-	15.00	0.0316
15	1	37		-	19.55	-		
15	1	74		-	19.51	-		
10	1	0	QPSK	-	24.49	-	19.99	0.0998
10	1	25		-	24.27	-		
10	1	49		-	24.54	-		
10	25	0		-	23.39	-		
10	25	12		-	23.31	-		
10	25	25		-	23.41	-		
10	50	0		-	23.28	-		
10	1	0	16-QAM	-	23.67	-	19.17	0.0826
10	1	25		-	23.50	-		
10	1	49		-	23.72	-		
10	1	0	64-QAM	-	22.48	-	17.97	0.0627
10	1	25		-	22.52	-		
10	1	49		-	22.50	-		
10	1	0	256-QAM	-	19.60	-	15.05	0.0320
10	1	25		-	19.54	-		
10	1	49		-	19.45	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	-	24.50	-	19.95	0.0989
5	1	12		-	24.34	-		
5	1	24		-	24.37	-		
5	12	0		-	23.43	-		
5	12	7		-	23.34	-		
5	12	13		-	23.31	-		
5	25	0		-	23.43	-		
5	1	0	16-QAM	-	23.61	-	19.09	0.0811
5	1	12		-	23.64	-		
5	1	24		-	23.53	-		
5	1	0	64-QAM	-	22.60	-	18.05	0.0638
5	1	12		-	22.40	-		
5	1	24		-	22.41	-		
5	1	0	256-QAM	-	19.57	-	15.02	0.0318
5	1	12		-	19.51	-		
5	1	24		-	19.39	-		
3	1	0	QPSK	-	24.39	-	19.84	0.0964
3	1	8		-	24.35	-		
3	1	14		-	24.24	-		
3	8	0		-	23.21	-		
3	8	4		-	23.18	-		
3	8	7		-	23.36	-		
3	15	0		-	23.30	-		
3	1	0	16-QAM	-	23.49	-	19.10	0.0813
3	1	8		-	23.56	-		
3	1	14		-	23.65	-		
3	1	0	64-QAM	-	22.48	-	17.93	0.0621
3	1	8		-	22.39	-		
3	1	14		-	22.41	-		
3	1	0	256-QAM	-	19.53	-	14.98	0.0315
3	1	8		-	19.40	-		
3	1	14		-	19.49	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	-	24.14	-	19.79	0.0953
1.4	1	3		-	24.04	-		
1.4	1	5		-	24.34	-		
1.4	3	0		-	24.16	-		
1.4	3	1		-	24.00	-		
1.4	3	3		-	24.10	-		
1.4	6	0		-	23.20	-		
1.4	1	0	16-QAM	-	23.52	-	18.97	0.0789
1.4	1	3		-	23.45	-		
1.4	1	5		-	23.45	-		
1.4	1	0	64-QAM	-	22.37	-	17.90	0.0617
1.4	1	3		-	22.45	-		
1.4	1	5		-	22.41	-		
1.4	1	0	256-QAM	-	19.45	-	14.90	0.0309
1.4	1	3		-	19.21	-		
1.4	1	5		-	19.36	-		
Limit	ERP < 7W			Result			Pass	

<LTE B26 TX1 ANT1>

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	24.17	-	-	19.53	0.0897
15	1	37		24.25	-	-		
15	1	74		24.28	-	-		
15	36	0		23.10	-	-		
15	36	20		23.11	-	-		
15	36	39		23.10	-	-		
15	75	0		23.12	-	-		
15	1	0	16-QAM	23.46	-	-	18.76	0.0752
15	1	37		23.48	-	-		
15	1	74		23.51	-	-		
15	1	0	64-QAM	22.23	-	-	17.65	0.0582
15	1	37		22.40	-	-		
15	1	74		22.40	-	-		
15	1	0	256-QAM	19.16	-	-	14.51	0.0282
15	1	37		19.18	-	-		
15	1	74		19.26	-	-		
10	1	0	QPSK	-	24.28	-	19.71	0.0935
10	1	25		-	24.19	-		
10	1	49		-	24.46	-		
10	25	0		-	23.17	-		
10	25	12		-	23.14	-		
10	25	25		-	23.29	-		
10	50	0		-	23.20	-		
10	1	0	16-QAM	-	23.50	-	18.96	0.0787
10	1	25		-	23.47	-		
10	1	49		-	23.71	-		
10	1	0	64-QAM	-	22.42	-	17.77	0.0598
10	1	25		-	22.31	-		
10	1	49		-	22.52	-		
10	1	0	256-QAM	-	19.23	-	14.69	0.0294
10	1	25		-	19.23	-		
10	1	49		-	19.44	-		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.06	24.02	24.09	19.53	0.0897
5	1	12		24.05	24.05	23.97		
5	1	24		24.19	24.21	24.28		
5	12	0		23.01	22.95	22.93		
5	12	7		22.92	22.98	22.94		
5	12	13		23.03	23.02	23.12		
5	25	0		23.07	23.15	23.12		
5	1	0	16-QAM	23.34	23.40	23.43	18.78	0.0755
5	1	12		23.27	23.17	23.31		
5	1	24		23.45	23.46	23.53		
5	1	0	64-QAM	22.20	22.24	22.18	17.67	0.0585
5	1	12		22.19	22.29	22.13		
5	1	24		22.33	22.42	22.27		
5	1	0	256-QAM	19.11	19.10	19.03	14.41	0.0276
5	1	12		19.12	19.11	19.10		
5	1	24		19.08	19.05	19.16		
3	1	0	QPSK	24.03	24.12	24.11	19.37	0.0865
3	1	8		23.97	24.06	24.01		
3	1	14		24.08	24.11	24.03		
3	8	0		23.01	22.98	22.93		
3	8	4		22.96	22.99	22.99		
3	8	7		22.98	22.89	23.00		
3	15	0		23.00	22.91	22.98		
3	1	0	16-QAM	23.26	23.20	23.29	18.63	0.0729
3	1	8		23.20	23.20	23.24		
3	1	14		23.38	23.30	23.37		
3	1	0	64-QAM	22.14	22.04	22.06	17.50	0.0562
3	1	8		22.06	22.16	22.03		
3	1	14		22.25	22.15	22.22		
3	1	0	256-QAM	19.08	19.13	19.02	14.38	0.0274
3	1	8		19.11	19.11	19.06		
3	1	14		19.10	19.07	19.06		
Limit	ERP < 100W			Result			Pass	

Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.00	24.10	24.02	19.35	0.0861
1.4	1	3		23.98	24.00	23.96		
1.4	1	5		24.01	24.03	24.09		
1.4	3	0		23.90	23.92	23.85		
1.4	3	1		23.88	23.88	23.96		
1.4	3	3		23.95	23.85	23.90		
1.4	6	0		22.91	22.95	22.81		
1.4	1	0	16-QAM	23.09	23.15	23.03	18.45	0.0700
1.4	1	3		23.09	23.06	23.07		
1.4	1	5		23.17	23.12	23.20		
1.4	1	0	64-QAM	22.17	22.08	22.13	17.46	0.0557
1.4	1	3		22.13	22.21	22.03		
1.4	1	5		22.11	22.04	22.05		
1.4	1	0	256-QAM	19.06	19.10	18.96	14.40	0.0275
1.4	1	3		19.01	18.97	18.91		
1.4	1	5		19.07	19.15	19.15		
Limit	ERP < 100W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	-	24.26	-	19.51	0.0893
15	1	37		-	24.21	-		
15	1	74		-	24.21	-		
15	36	0		-	23.05	-		
15	36	20		-	23.04	-		
15	36	39		-	23.11	-		
15	75	0		-	23.14	-		
15	1	0	16-QAM	-	23.52	-	18.79	0.0757
15	1	37		-	23.47	-		
15	1	74		-	23.54	-		
15	1	0	64-QAM	-	22.30	-	17.75	0.0596
15	1	37		-	22.50	-		
15	1	74		-	22.38	-		
15	1	0	256-QAM	-	19.25	-	14.55	0.0285
15	1	37		-	19.09	-		
15	1	74		-	19.30	-		
10	1	0	QPSK	-	24.18	-	19.43	0.0877
10	1	25		-	24.08	-		
10	1	49		-	24.18	-		
10	25	0		-	23.15	-		
10	25	12		-	23.18	-		
10	25	25		-	23.17	-		
10	50	0		-	23.14	-		
10	1	0	16-QAM	-	23.51	-	18.79	0.0757
10	1	25		-	23.54	-		
10	1	49		-	23.46	-		
10	1	0	64-QAM	-	22.27	-	17.62	0.0578
10	1	25		-	22.15	-		
10	1	49		-	22.37	-		
10	1	0	256-QAM	-	19.08	-	14.48	0.0281
10	1	25		-	19.12	-		
10	1	49		-	19.23	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	-	24.02	-	19.46	0.0883
5	1	12		-	24.02	-		
5	1	24		-	24.21	-		
5	12	0		-	23.04	-		
5	12	7		-	22.88	-		
5	12	13		-	23.00	-		
5	25	0		-	23.11	-		
5	1	0	16-QAM	-	23.44	-	18.69	0.0740
5	1	12		-	23.36	-		
5	1	24		-	23.37	-		
5	1	0	64-QAM	-	22.15	-	17.55	0.0569
5	1	12		-	22.16	-		
5	1	24		-	22.30	-		
5	1	0	256-QAM	-	19.13	-	14.38	0.0274
5	1	12		-	19.07	-		
5	1	24		-	19.10	-		
3	1	0	QPSK	-	24.01	-	19.40	0.0871
3	1	8		-	24.02	-		
3	1	14		-	24.15	-		
3	8	0		-	23.07	-		
3	8	4		-	22.89	-		
3	8	7		-	23.00	-		
3	15	0		-	23.00	-		
3	1	0	16-QAM	-	23.23	-	18.63	0.0729
3	1	8		-	23.26	-		
3	1	14		-	23.38	-		
3	1	0	64-QAM	-	22.12	-	17.55	0.0569
3	1	8		-	22.02	-		
3	1	14		-	22.30	-		
3	1	0	256-QAM	-	19.15	-	14.40	0.0275
3	1	8		-	19.03	-		
3	1	14		-	19.15	-		
Limit	ERP < 7W			Result			Pass	

LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -2.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	-	23.93	-	19.29	0.0849
1.4	1	3		-	23.93	-		
1.4	1	5		-	24.01	-		
1.4	3	0		-	23.88	-		
1.4	3	1		-	23.94	-		
1.4	3	3		-	24.04	-		
1.4	6	0		-	22.91	-		
1.4	1	0	16-QAM	-	23.01	-	18.51	0.0710
1.4	1	3		-	23.00	-		
1.4	1	5		-	23.26	-		
1.4	1	0	64-QAM	-	22.14	-	17.43	0.0553
1.4	1	3		-	22.18	-		
1.4	1	5		-	22.09	-		
1.4	1	0	256-QAM	-	19.02	-	14.29	0.0269
1.4	1	3		-	18.96	-		
1.4	1	5		-	19.04	-		
Limit	ERP < 7W			Result			Pass	

3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
   (this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

90.543(e)

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

For LTE Band 14

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

For LTE Band 26

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691

(a) 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:

(1) 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 Log10(f/6.1) decibels or 50 + 10 Log10(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.

(2) 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 + 10Log10(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.

3.6.2 Test Procedures

For LTE Band 14

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For LTE Band 26

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GH, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

90.593

Transmitters designed to operate in 769-775 MHz and 799-805 MHz frequency bands must meet the frequency stability requirements in this section.

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

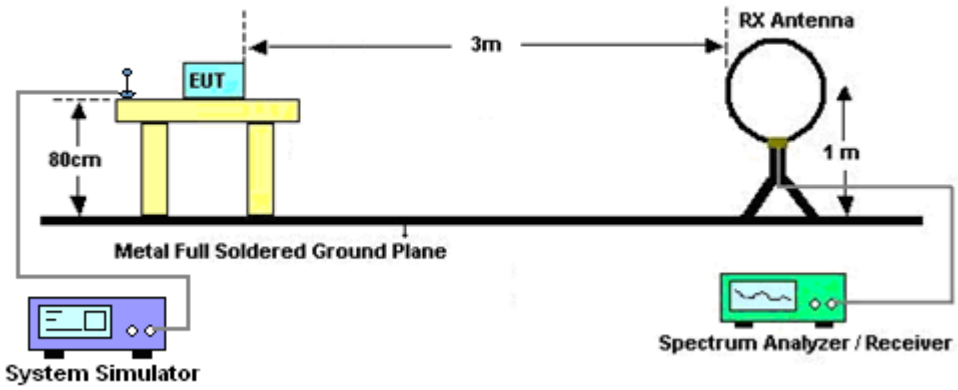
4 Radiated Test Items

4.1 Measuring Instruments

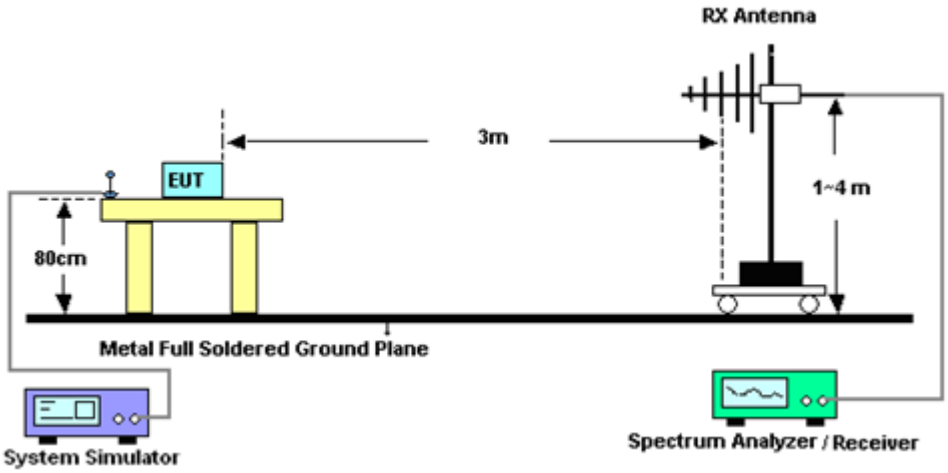
See list of measuring instruments of this test report.

4.1.1 Test Setup

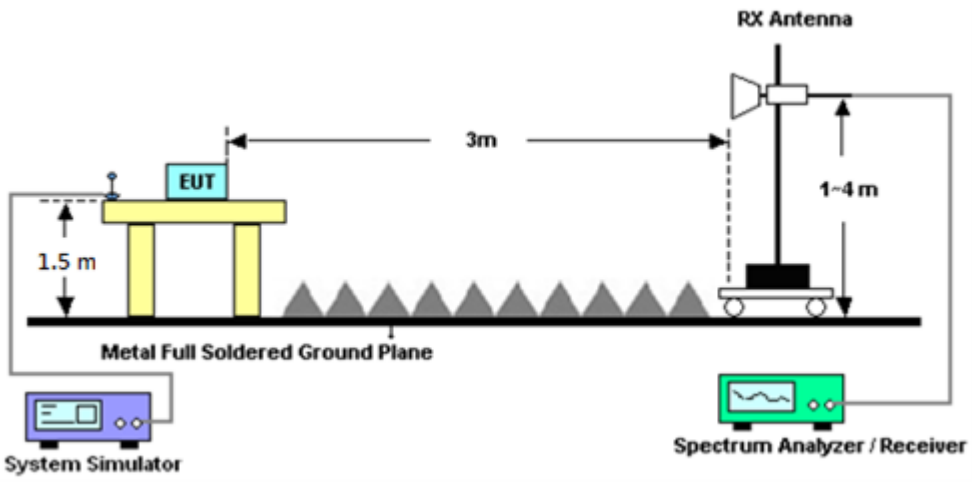
For radiated test below 30MHz



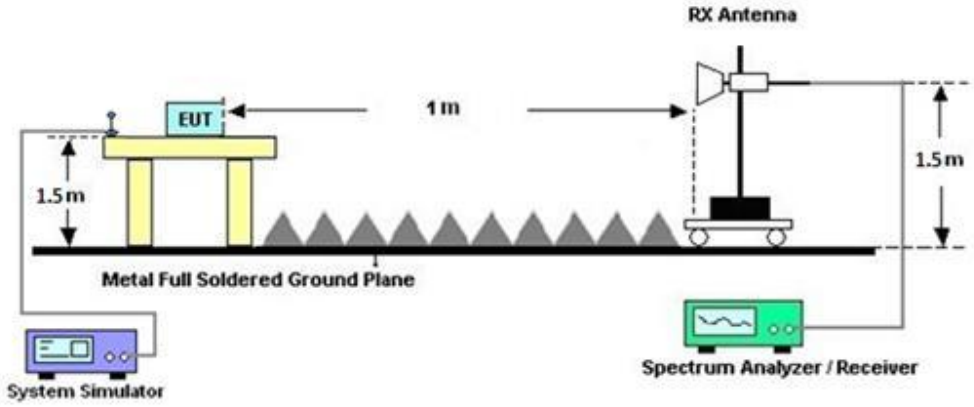
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For LTE Band 14

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

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.

1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
3. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
6. EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 05, 2026	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Nov. 25, 2026	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-021 14	1GHz~18GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190026 9	1GHz-18GHz	Dec. 19, 2024	Nov. 27 2025~ Dec. 17 2026	Dec. 18, 2025	Radiation (03CH12-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Dec. 17 2025	Dec. 17 2025~ Feb. 14 2026	Dec. 16 2026	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Sep. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 08, 2026	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY532900 53	20Hz~26.5GHz	Sep. 08, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 07, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz-40GHz	Jan. 09, 2025	Nov. 27 2025~ Feb. 14 2026	Jan. 08, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1225	18GHz-40GHz	Jul. 02, 2025	Nov. 27 2025~ Feb. 14 2026	Jul. 01, 2026	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Nov. 27 2025~ Feb. 14 2026	May 25, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900 -1000-15000- 60SS	SN11	1GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Nov. 27 2025~ Feb. 14 2026	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM -KM-1000	240905	30MHz~40GHz	Oct. 31, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 30, 2026	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5757,805935/4	9kHz~30MHz	Oct. 01, 2025	Nov. 27 2025~ Feb. 14 2026	Sep. 30, 2026	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 26, 2025	Nov. 27 2025~ Feb. 14 2026	Aug. 25, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6272278353	LTE FDD/TDD DLCA/ULCA	Oct. 28, 2025	Nov. 27 2025~ Feb. 14 2026	Oct. 27, 2026	Radiation (03CH12-HY)
Radio Communication Test Station	Anritsu	MT8000A	6262261912	N/A	May 07, 2025	Nov. 27 2025~ Feb. 14 2026	May 06, 2026	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Nov. 27 2025~ Feb. 14 2026	N/A	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025341	LTE FDD/TDD LTE-2CC ULCA/DLCA	Sep. 16, 2025	Nov. 21, 2025~ May. 27, 2026	Sep. 15, 2026	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GET861546	0V~64V ; 0A~6A	Jun. 03, 2025	Nov. 21, 2025~ May. 27, 2026	Jun. 02, 2026	Conducted (TH05-HY)
Coupler	MVE	MVE4816	#Z	0.009MHz-18GHz	Oct. 16, 2025	Nov. 21, 2025~ May. 27, 2026	Oct. 15, 2026	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101907	10Hz~40GHz	Aug. 25, 2025	Nov. 21, 2025~ May. 27, 2026	Aug. 24, 2026	Conducted (TH05-HY)
Thermal Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May. 12, 2025	Nov. 21, 2025~ Feb. 12, 2026	May. 11, 2026	Conducted (TH05-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13,2025	Nov. 21, 2025~ May. 27, 2026	Jun. 12,2026	Conducted (TH05-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Nov. 21, 2025~ May. 27, 2026	N/A	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03,2025	Nov. 21, 2025~ Feb. 12, 2026	Mar. 02,2026	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 04,2026	May. 25, 2026~ May. 27, 2026	Mar. 03,2027	Conducted (TH05-HY)

6 Measurement Uncertainty

<03CH12-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.50 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.90 dB

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.70 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.90 dB

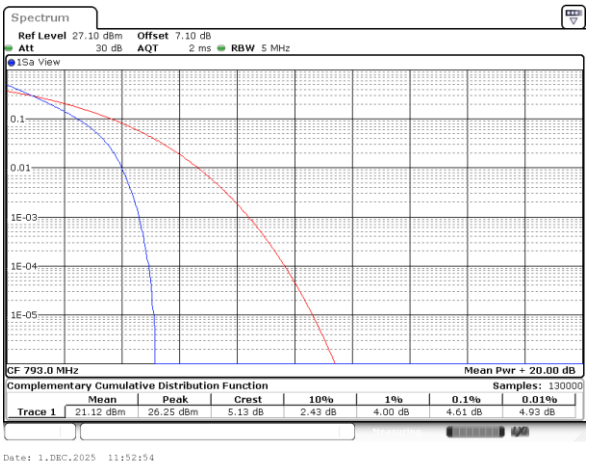
LTE Band 14

Peak-to-Average Ratio

Mode	LTE Band 14 / 5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.36	6.09	6.61	PASS
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.39	6.00	6.58	PASS

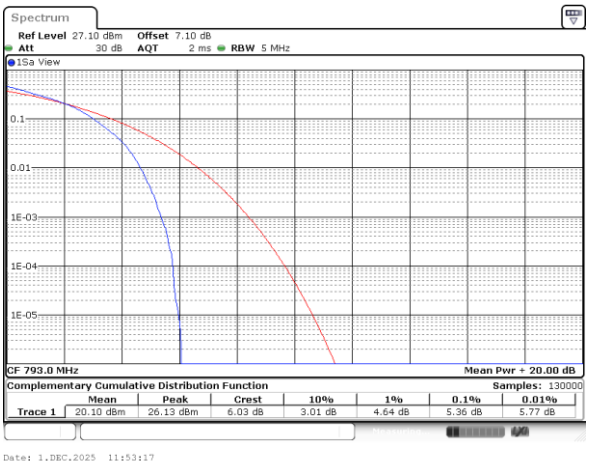
LTE Band 14 / 5MHz / QPSK

Middle Channel / Full RB



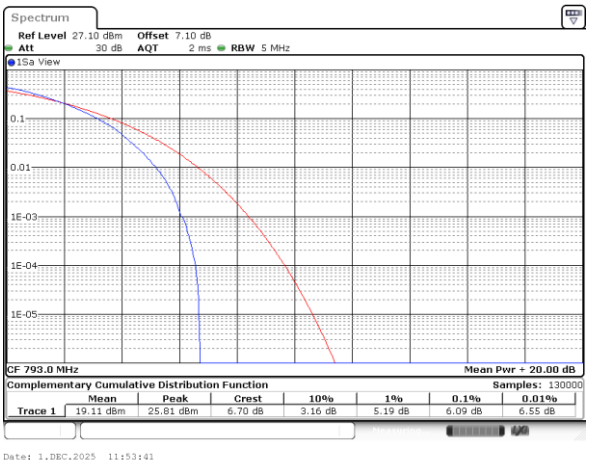
LTE Band 14 / 5MHz / 16QAM

Middle Channel / Full RB



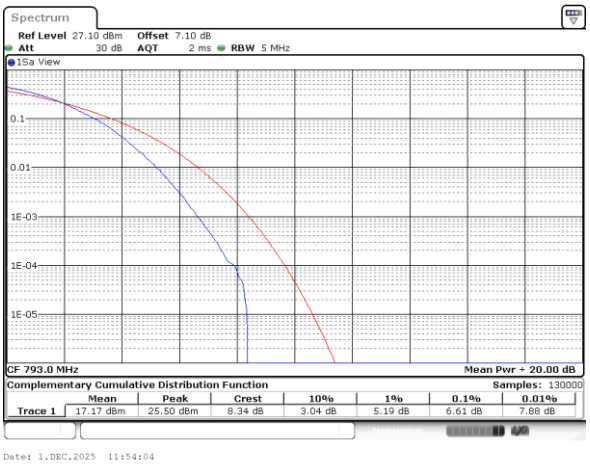
LTE Band 14 / 5MHz / 64QAM

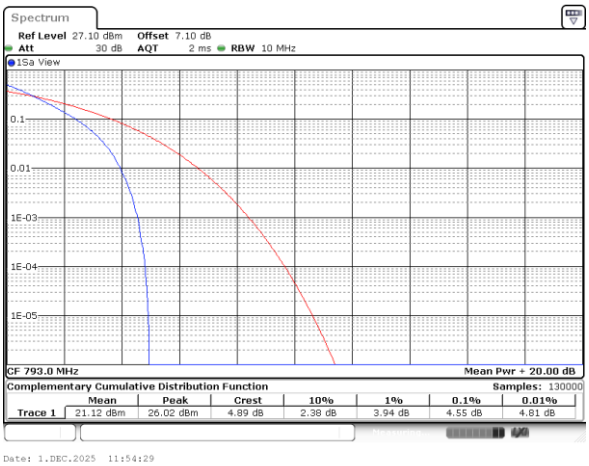
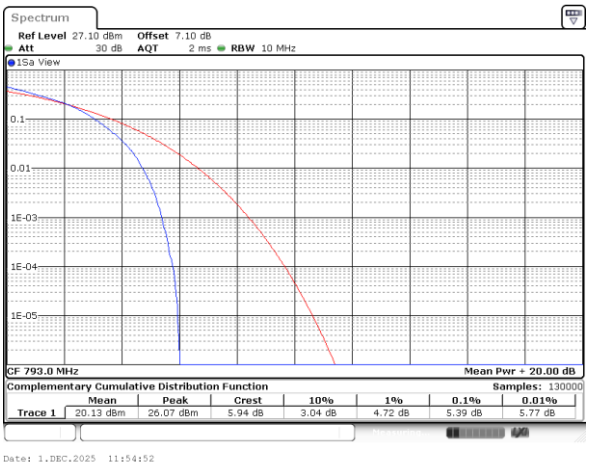
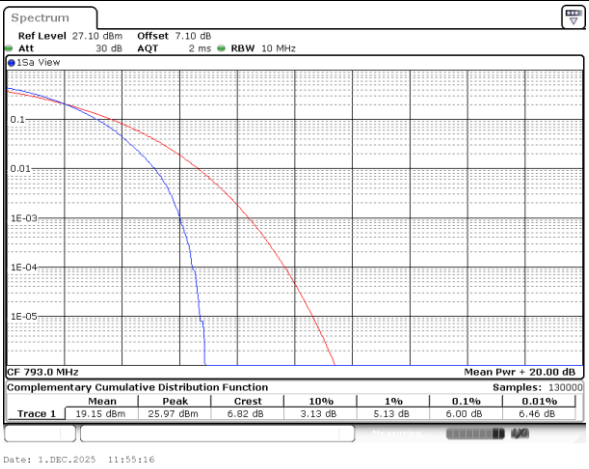
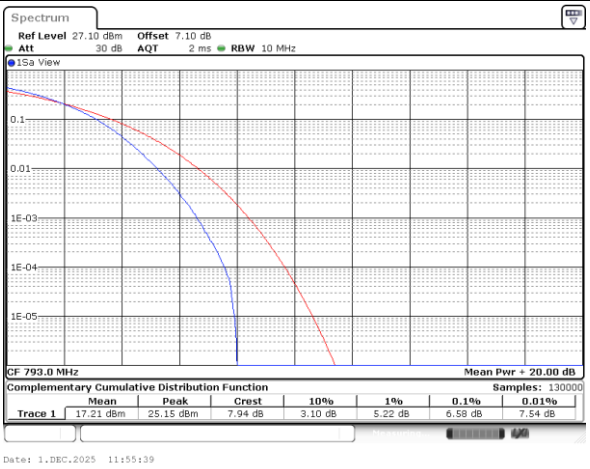
Middle Channel / Full RB



LTE Band 14 / 5MHz / 256QAM

Middle Channel / Full RB



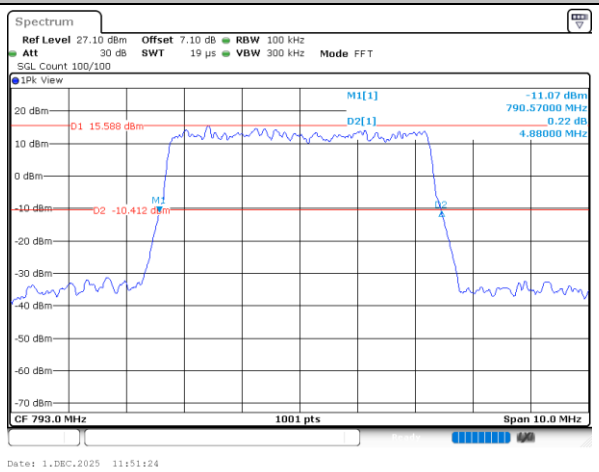
LTE Band 14 / 10MHz / QPSK	LTE Band 14 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 14 / 10MHz / 64QAM	LTE Band 14 / 10MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

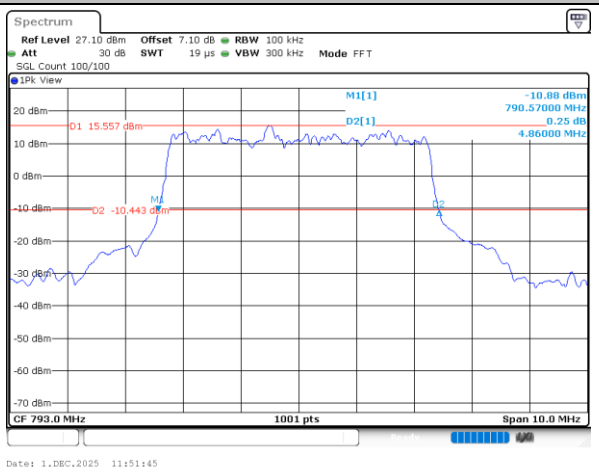
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	4.86	9.86	9.82	-	-	-	-

LTE Band 14

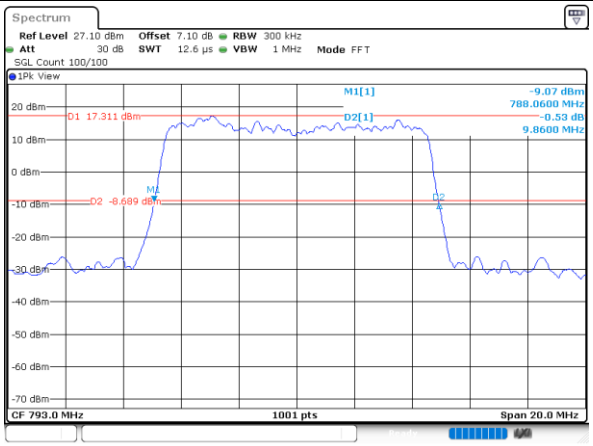
Middle Channel / 5MHz / QPSK



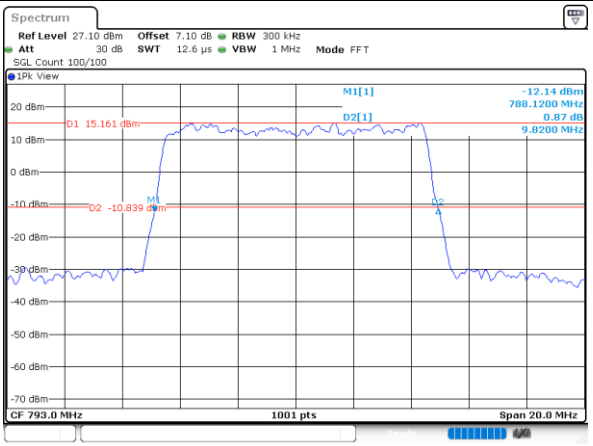
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

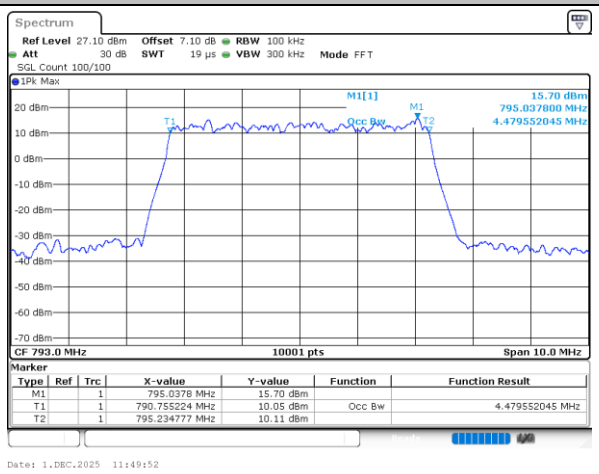


Occupied Bandwidth

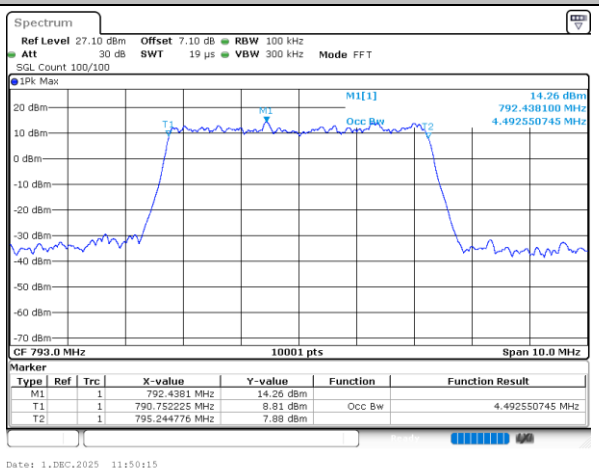
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.47	4.49	9.05	9.11	-	-	-	-

LTE Band 14

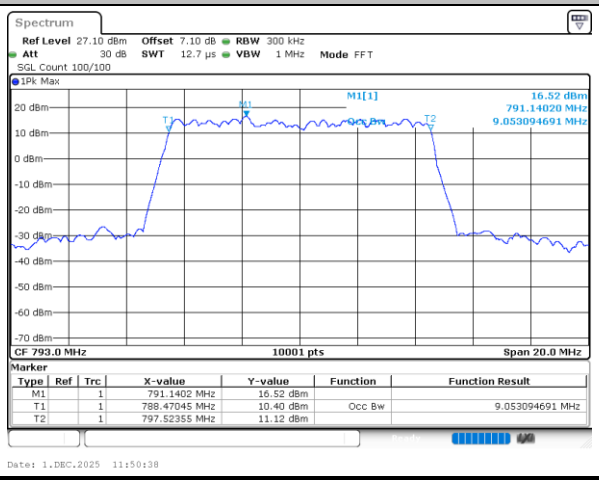
Middle Channel / 5MHz / QPSK



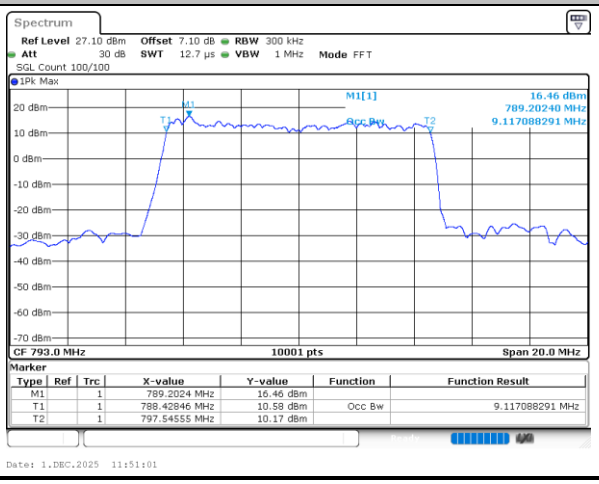
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



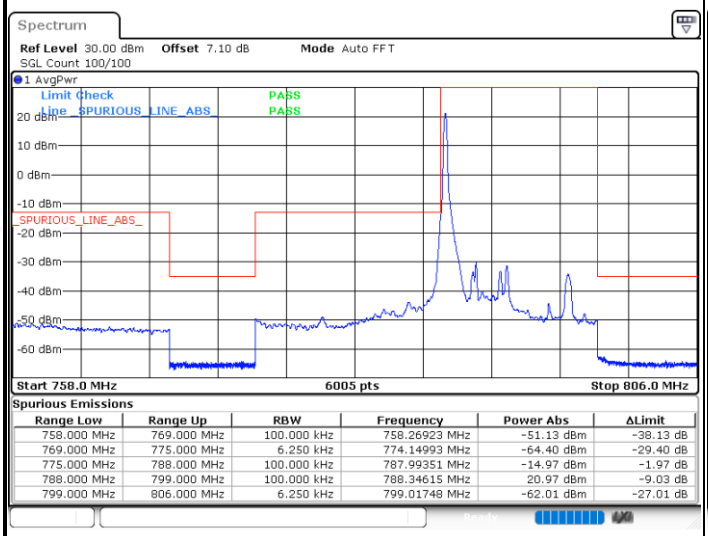
Middle Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.26923 MHz	-51.13 dBm	-38.13 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.14993 MHz	-64.40 dBm	-29.40 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-14.97 dBm	-1.97 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.34615 MHz	20.97 dBm	-9.03 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.01748 MHz	-62.01 dBm	-27.01 dB

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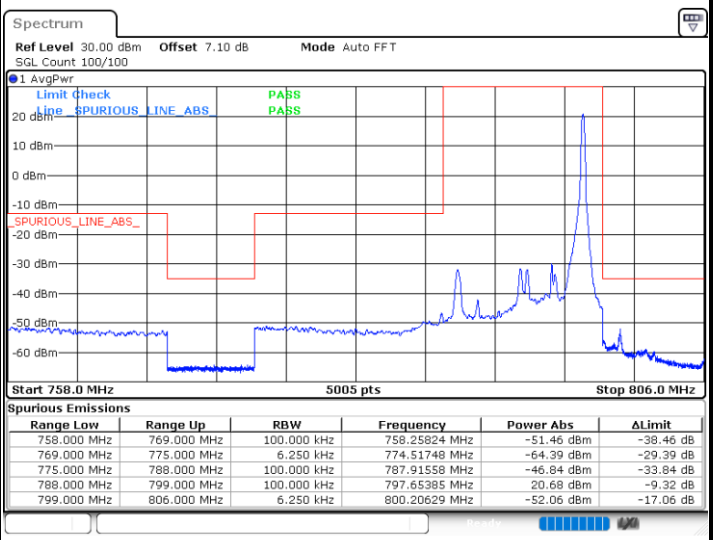
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.25824 MHz	-51.46 dBm	-38.46 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.51748 MHz	-64.39 dBm	-29.39 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.91558 MHz	-46.84 dBm	-33.84 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.65385 MHz	20.68 dBm	-9.32 dB
799.000 MHz	806.000 MHz	6.250 kHz	800.20629 MHz	-52.06 dBm	-17.06 dB

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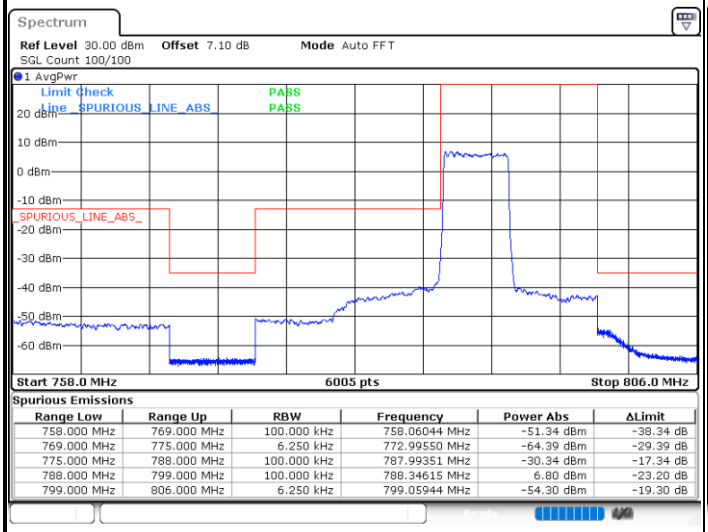
Lowest Band Edge / Full RB

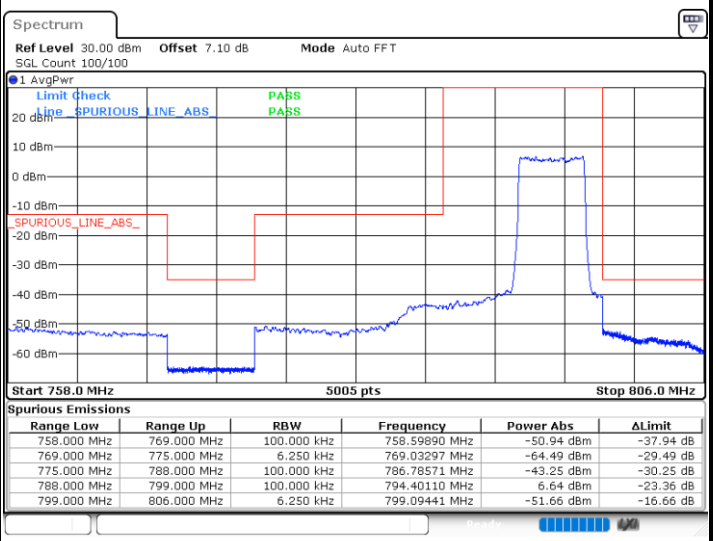


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.06044 MHz	-51.34 dBm	-38.34 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.99550 MHz	-64.39 dBm	-29.39 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-30.34 dBm	-17.34 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.34615 MHz	6.80 dBm	-23.20 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.05944 MHz	-54.30 dBm	-19.30 dB

Date: 1.DEC.2025 11:56:41

Highest Band Edge / Full RB



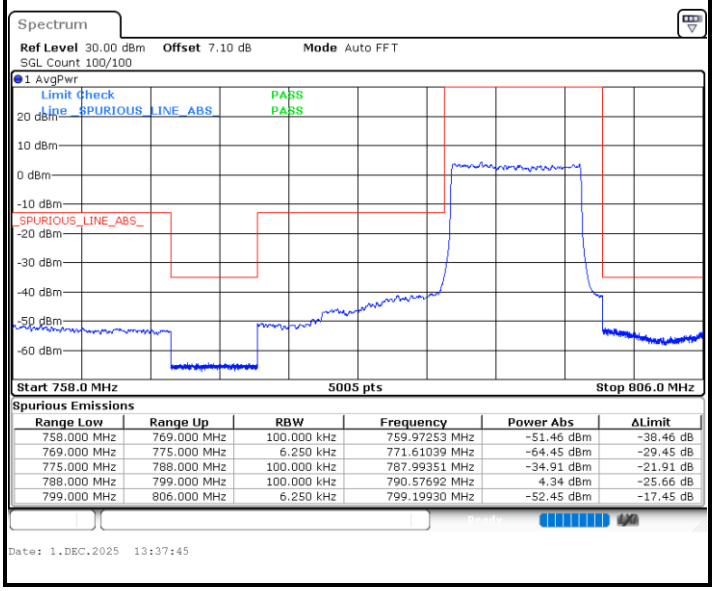
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	758.59890 MHz	-50.94 dBm	-37.94 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.03297 MHz	-64.49 dBm	-29.49 dB
775.000 MHz	788.000 MHz	100.000 kHz	786.78571 MHz	-43.25 dBm	-30.25 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.40110 MHz	6.64 dBm	-23.36 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.09441 MHz	-51.66 dBm	-16.66 dB

Date: 1.DEC.2025 13:35:36

LTE Band 14 / 10MHz / QPSK

Band Edge / Full RB



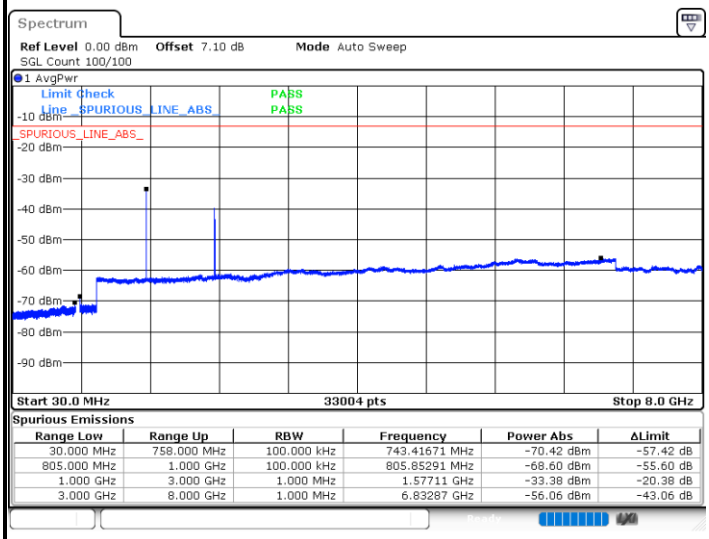
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
758.000 MHz	769.000 MHz	100.000 kHz	759.97253 MHz	-51.46 dBm	-38.46 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.61039 MHz	-64.45 dBm	-29.45 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.91 dBm	-21.91 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.57692 MHz	4.34 dBm	-25.66 dB
799.000 MHz	806.000 MHz	6.250 kHz	799.19930 MHz	-52.45 dBm	-17.45 dB

Conducted Spurious Emission

LTE Band 14 / 5MHz

Lowest Channel / QPSK

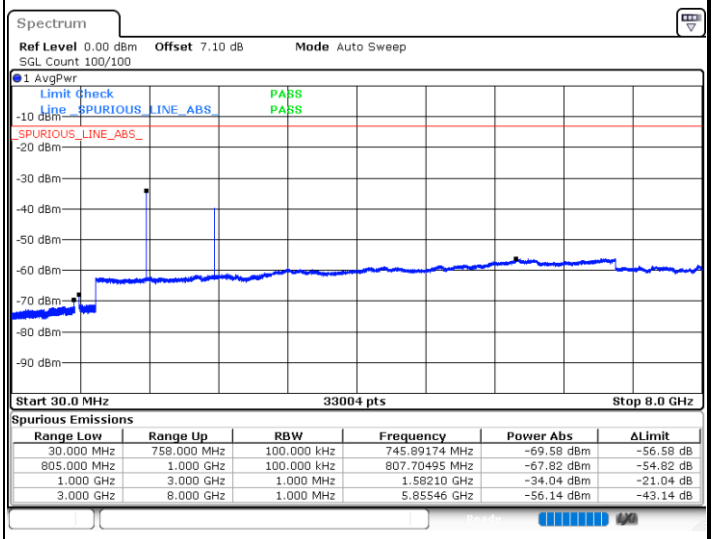


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	743.41671 MHz	-70.42 dBm	-57.42 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.85291 MHz	-68.60 dBm	-55.60 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-33.38 dBm	-20.38 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.83287 GHz	-56.06 dBm	-43.06 dB

Date: 1.DEC.2025 14:01:56

Middle Channel / QPSK

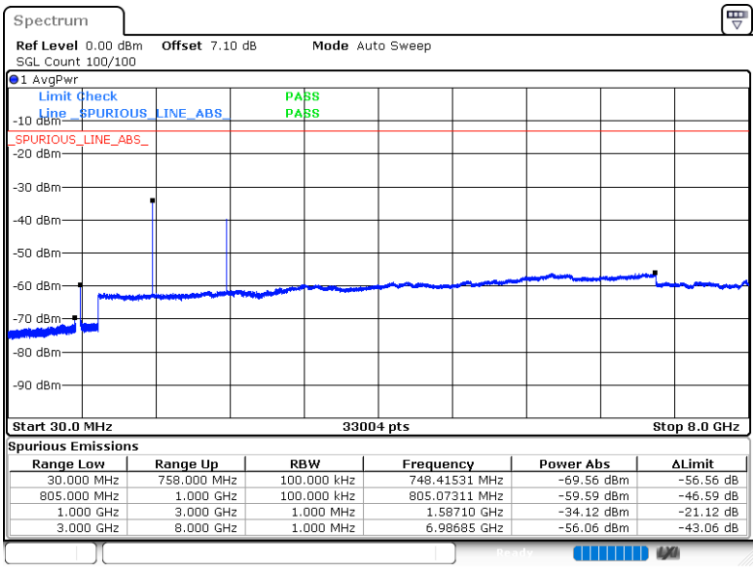


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	745.89174 MHz	-69.58 dBm	-56.58 dB
805.000 MHz	1.000 GHz	100.000 kHz	807.70495 MHz	-67.82 dBm	-54.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-34.04 dBm	-21.04 dB
3.000 GHz	8.000 GHz	1.000 MHz	5.85546 GHz	-56.14 dBm	-43.14 dB

Date: 1.DEC.2025 14:03:54

Highest Channel / QPSK



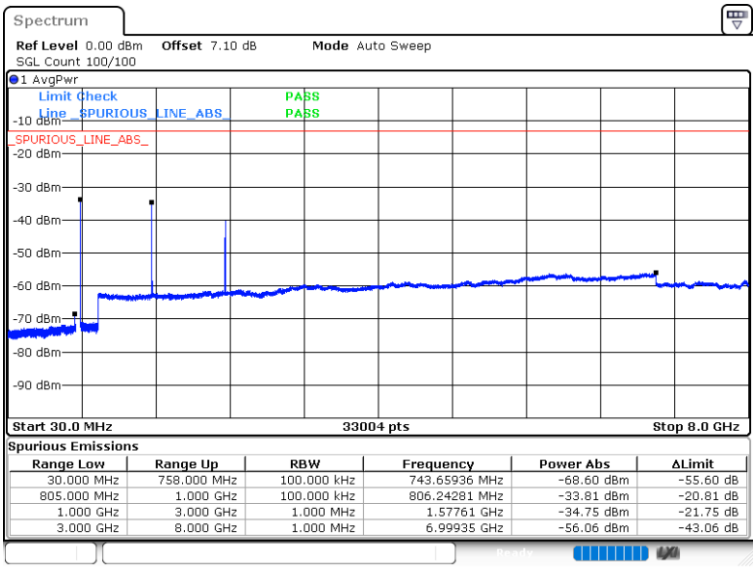
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	748.41531 MHz	-69.56 dBm	-56.56 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.07311 MHz	-59.59 dBm	-46.59 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-34.12 dBm	-21.12 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98685 GHz	-56.06 dBm	-43.06 dB

Date: 1.DEC.2025 14:05:52

LTE Band 14 / 10MHz

Middle Channel / QPSK



Spurious Emissions

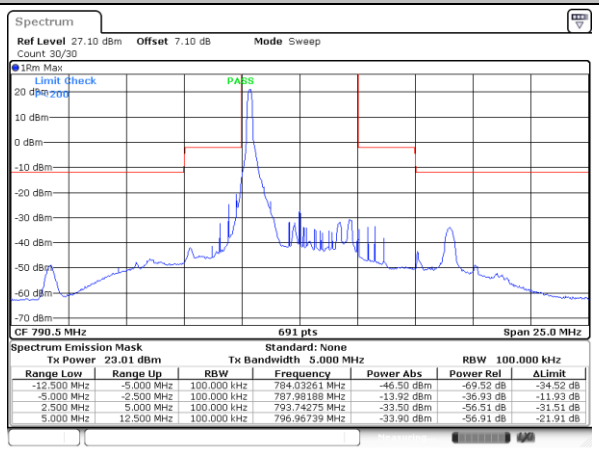
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	743.65936 MHz	-68.60 dBm	-55.60 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.24281 MHz	-33.81 dBm	-20.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-34.75 dBm	-21.75 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99935 GHz	-56.06 dBm	-43.06 dB

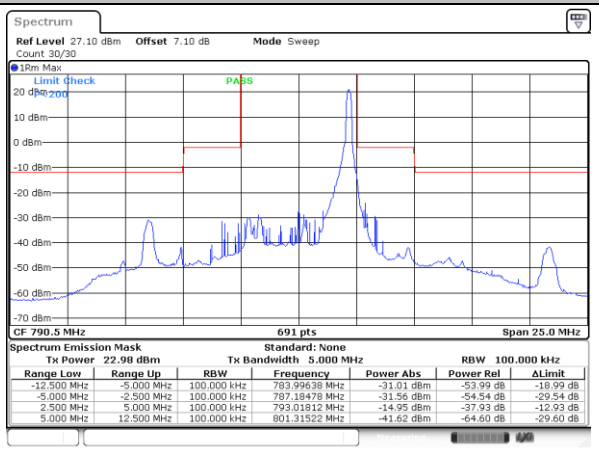
Date: 1.DEC.2025 14:06:55

Mask

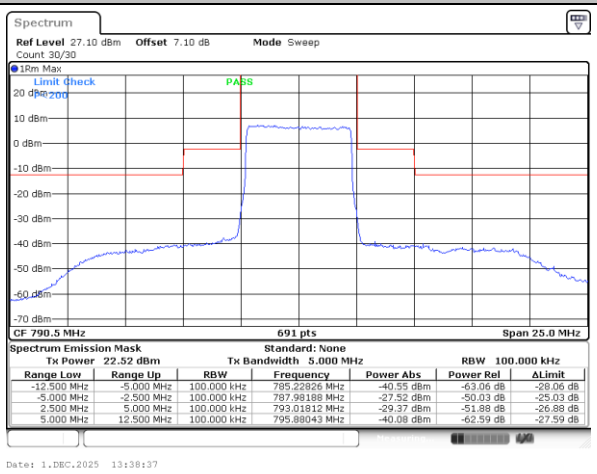
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



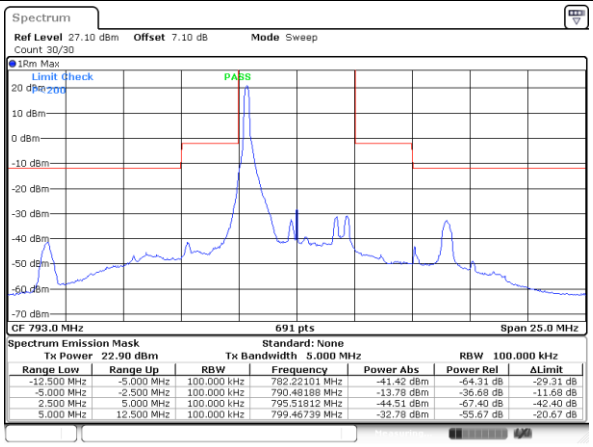


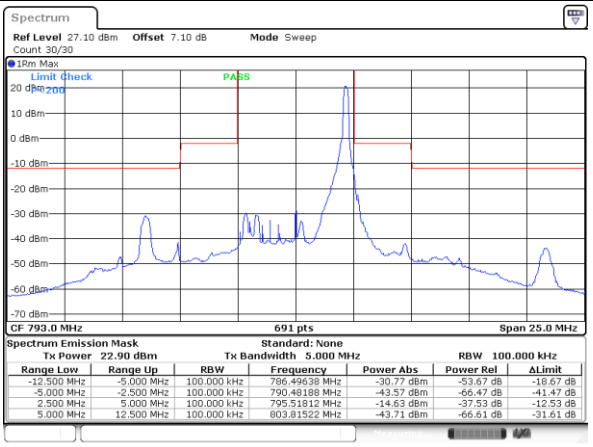
Lowest Channel / Full RB



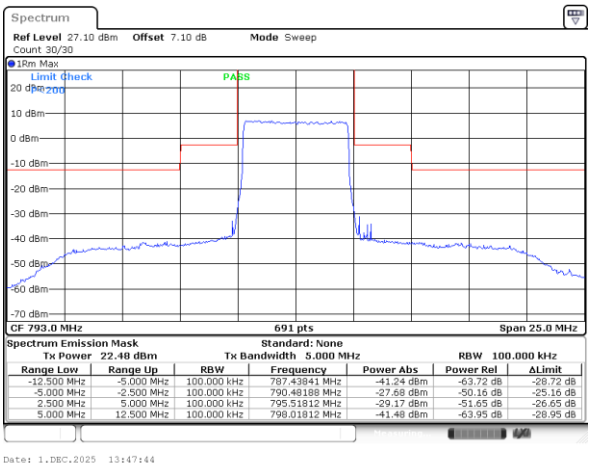
LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB



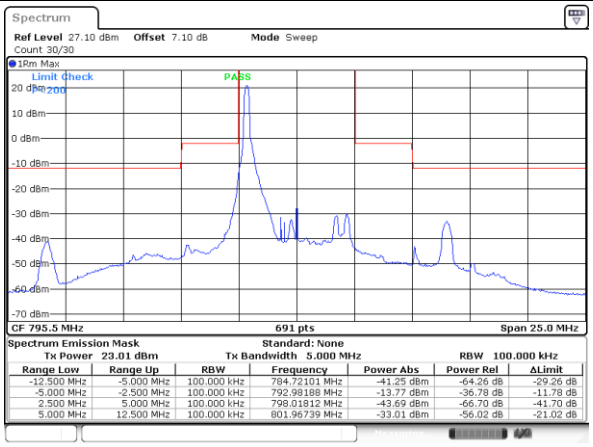


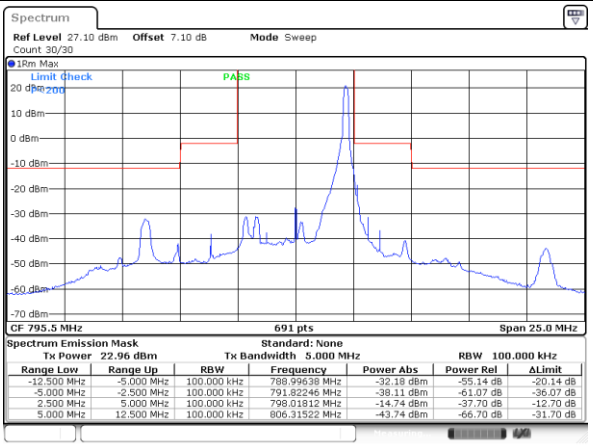
Middle Channel / Full RB



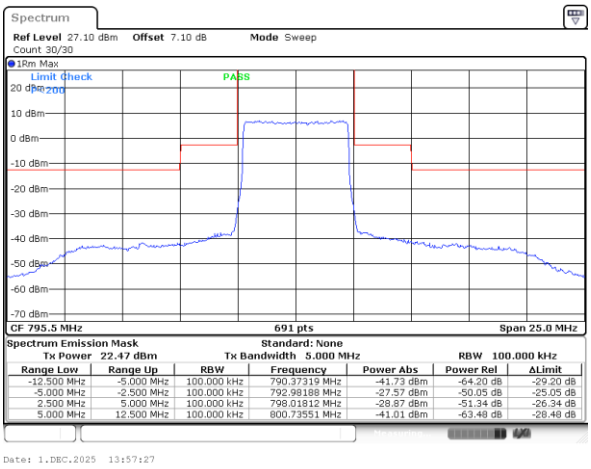
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



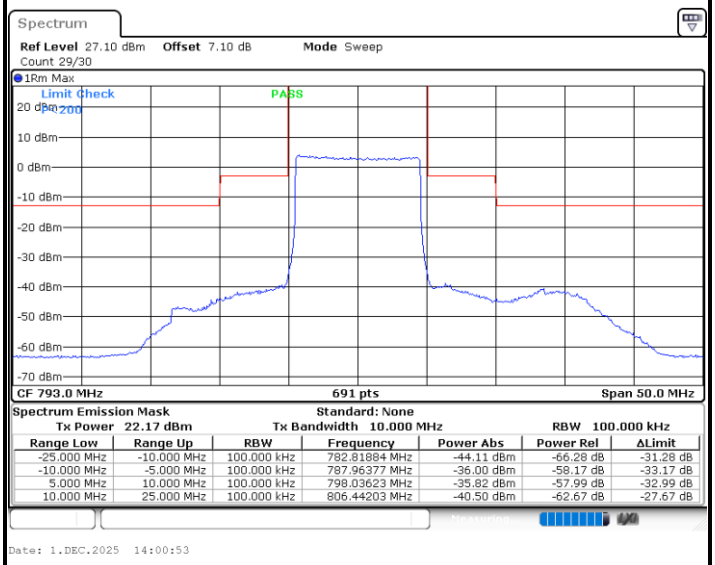


Highest Channel / Full RB



LTE Band 14 / 10MHz / QPSK

Middle Channel / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-25.000 MHz	-10.000 MHz	100.000 kHz	782.81884 MHz	-44.11 dBm	-66.28 dB	-31.28 dB
-10.000 MHz	-5.000 MHz	100.000 kHz	787.96377 MHz	-36.00 dBm	-58.17 dB	-33.17 dB
5.000 MHz	10.000 MHz	100.000 kHz	798.03623 MHz	-35.82 dBm	-57.99 dB	-32.99 dB
10.000 MHz	25.000 MHz	100.000 kHz	806.44203 MHz	-40.50 dBm	-62.67 dB	-27.67 dB

Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel				
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Frequency Offset (△f) (Hz)		Within Authorized Frequency Block(Hz)	Result
		BW 10MHz	BW 5MHz	BW 10MHz		
50	Normal Voltage	0.0124	-0.6	-9.8	Yes	PASS
40	Normal Voltage	0.0011	10	0.9	Yes	
30	Normal Voltage	0.0111	1.4	-8.8	Yes	
20(Ref.)	Normal Voltage	0.0000	0	0	Yes	
10	Normal Voltage	0.0093	2.9	-7.4	Yes	
0	Normal Voltage	0.0105	-2.6	-8.3	Yes	
-10	Normal Voltage	0.0029	-4.4	2.3	Yes	
-20	Normal Voltage	0.0047	-3.7	-3.7	Yes	
-30	Normal Voltage	0.0018	-1.6	1.4	Yes	
20	Maximum Voltage	0.0081	6.7	6.4	Yes	
20	Normal Voltage	0.0000	0	0	Yes	
20	Minimum Voltage	0.0043	-1.7	3.4	Yes	

|MAX(△f)| = 10Hz (IC BW 5MHz)

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	788.140990	≧ 788 MHz	PASS
f_H + |MAX(△f)|	797.917010	≦ 799 MHz	

|MAX(△f)| = 9.8Hz (IC BW 10MHz)

Frequency Stability	Frequency (MHz)	Limit Line	Result
f_L – |MAX(△f)|	788.393990	≧ 788 MHz	PASS
f_H + |MAX(△f)|	797.685010	≦ 799 MHz	

Note:

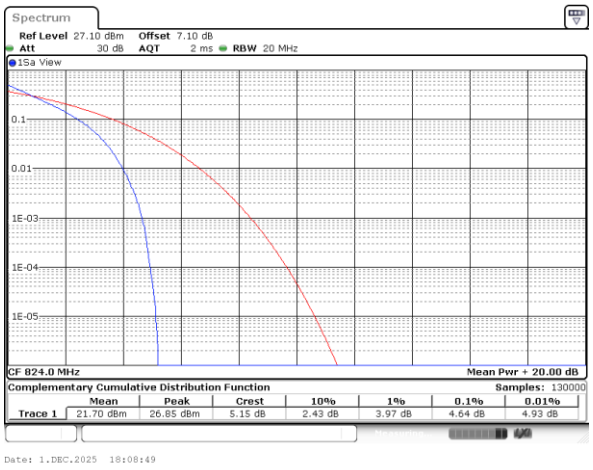
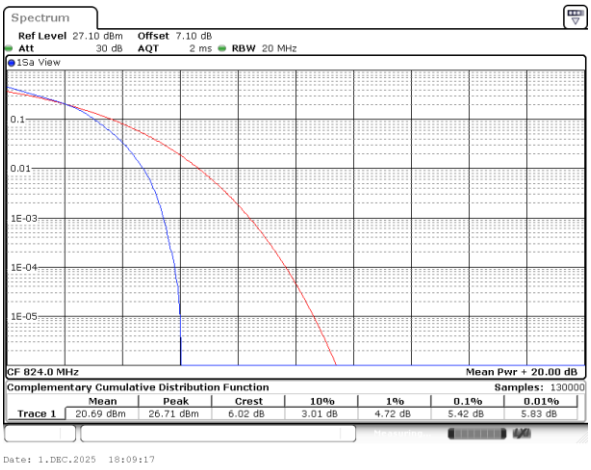
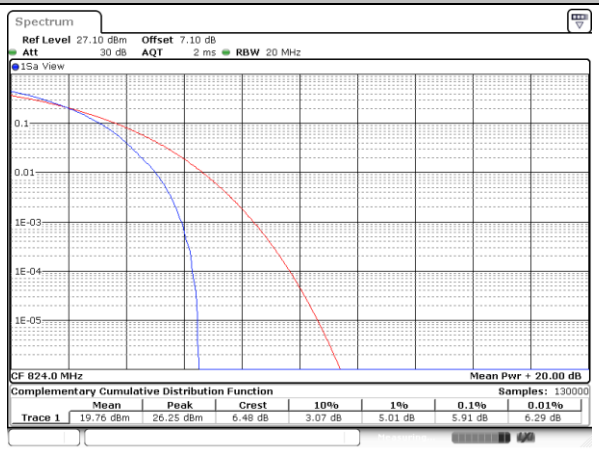
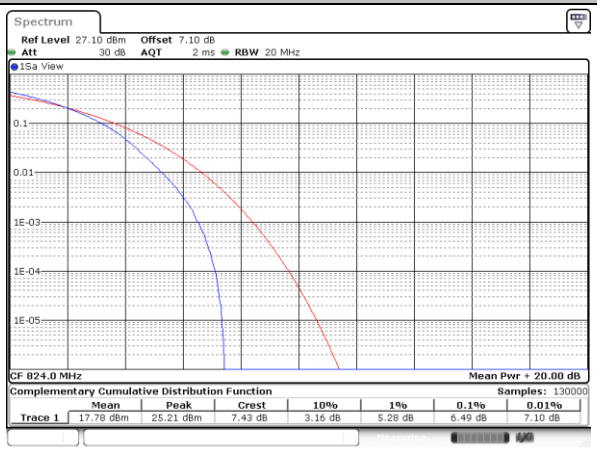
1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

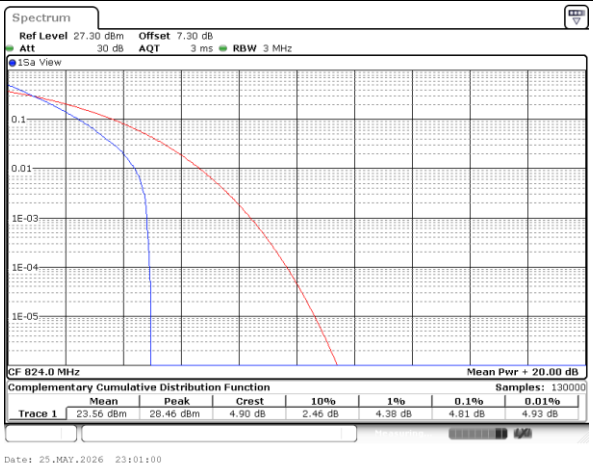
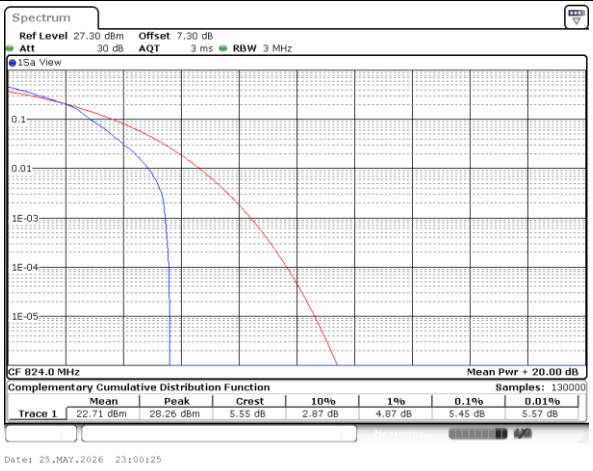
LTE Band 26_Part 90S

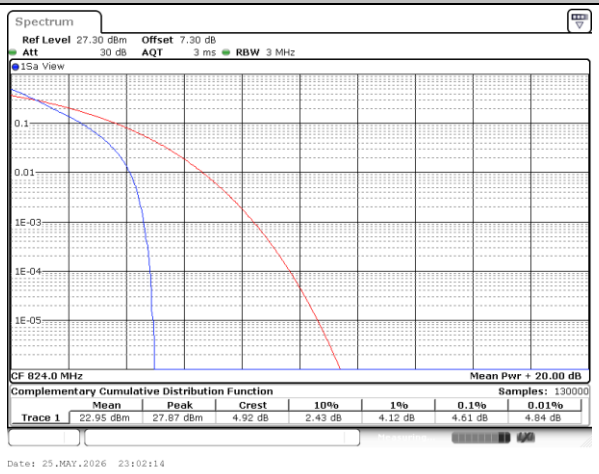
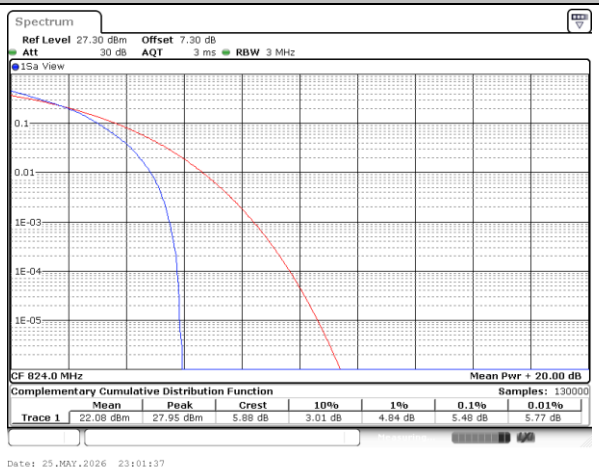
Peak-to-Average Ratio

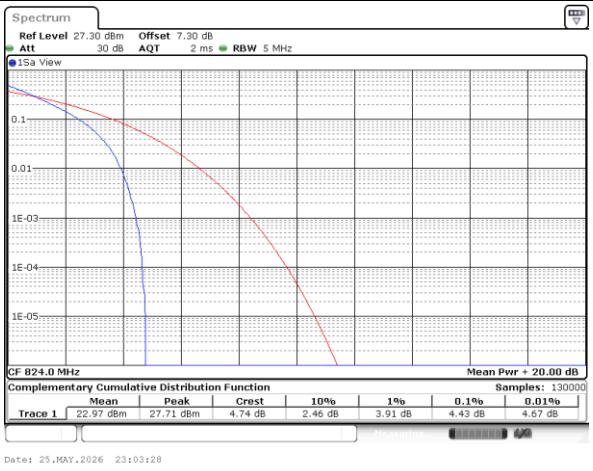
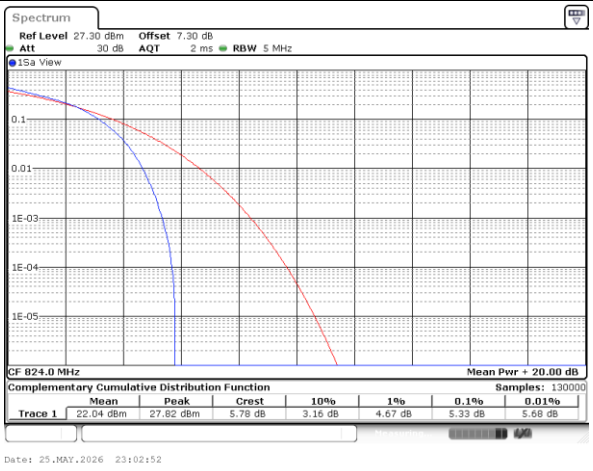
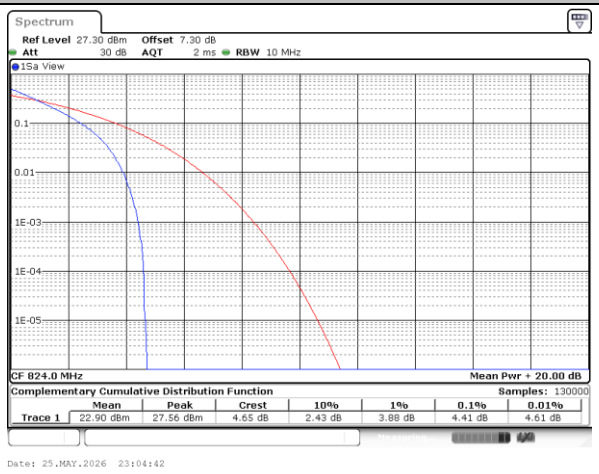
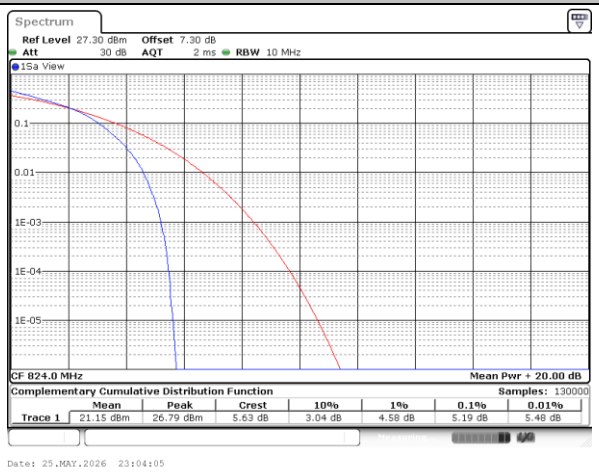
Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.64	5.42	5.91	6.49	PASS

Mode	LTE Band 26 / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.81	5.45	PASS
Mode	LTE Band 26 / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.61	5.48	PASS
Mode	LTE Band 26 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.43	5.33	PASS
Mode	LTE Band 26 / 10MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.41	5.19	PASS

LTE Band 26 / 15MHz / QPSK	LTE Band 26 / 15MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 26 / 15MHz / 64QAM	LTE Band 26 / 15MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26 / 1.4MHz / QPSK	LTE Band 26 / 1.4MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26 / 3MHz / QPSK	LTE Band 26 / 3MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

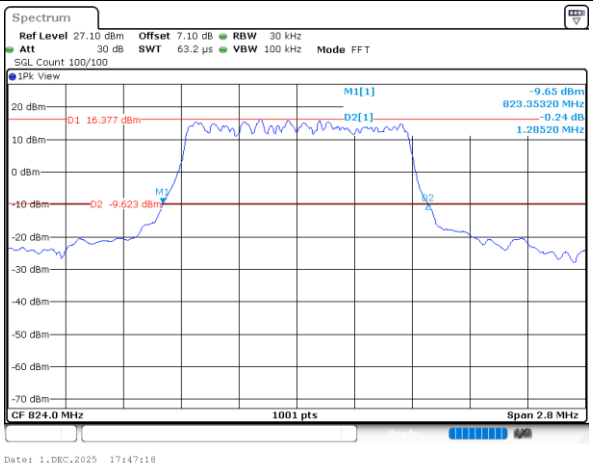
LTE Band 26 / 5MHz / QPSK	LTE Band 26 / 5MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 26 / 10MHz / QPSK	**LTE Band 26 / 10MHz / 16QAM**
Middle Channel / Full RB	**Middle Channel / Full RB**
	

26dB Bandwidth

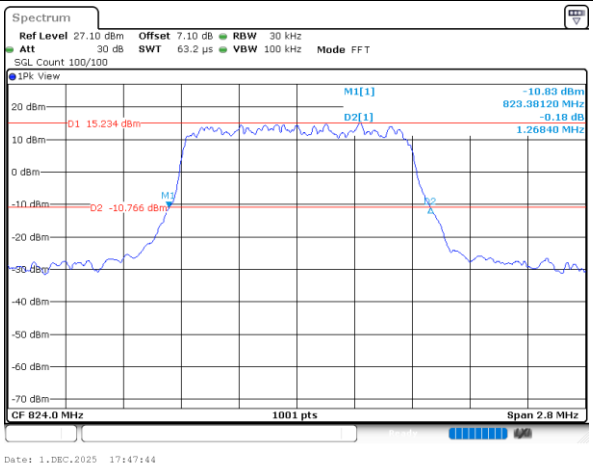
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.26	3.00	2.97	4.88	4.87	9.80	9.96	14.43	14.46	-	-

LTE Band 26

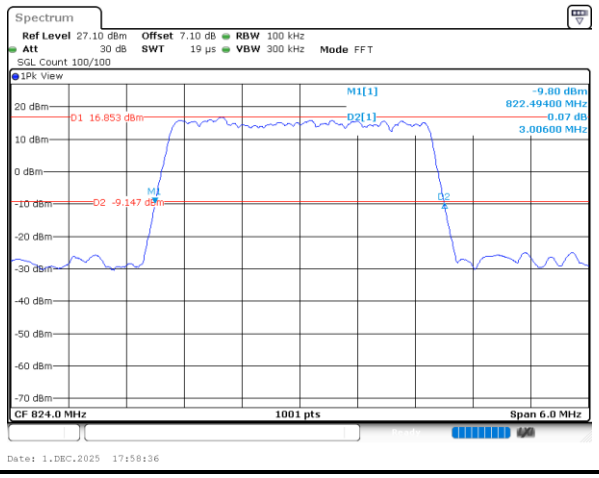
Middle Channel / 1.4MHz / QPSK



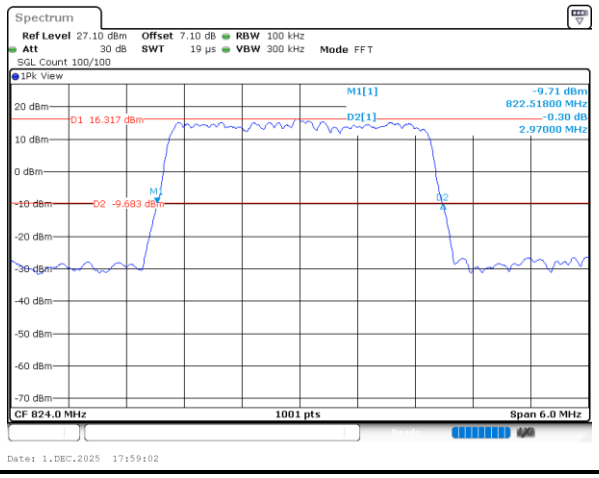
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

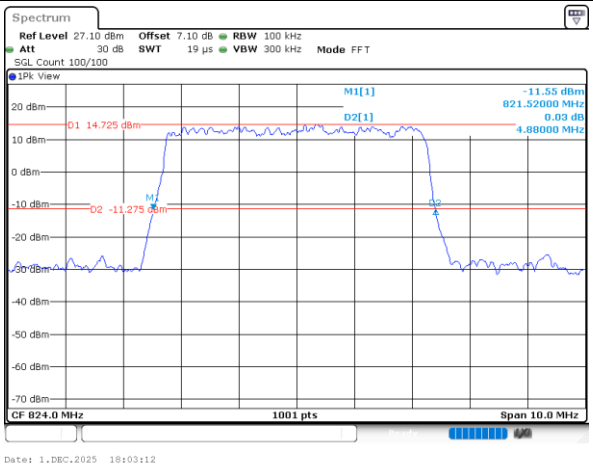


Middle Channel / 3MHz / 16QAM

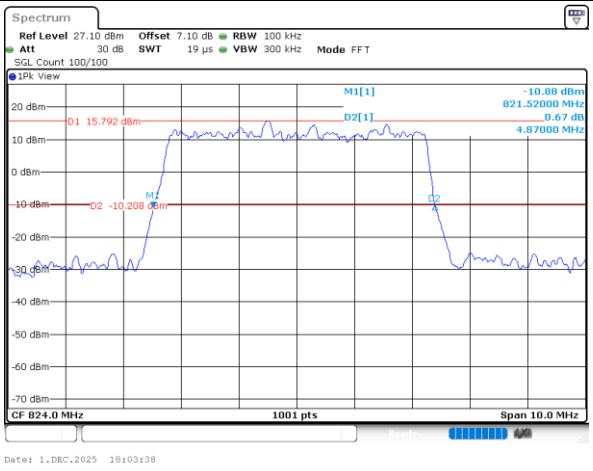


LTE Band 26

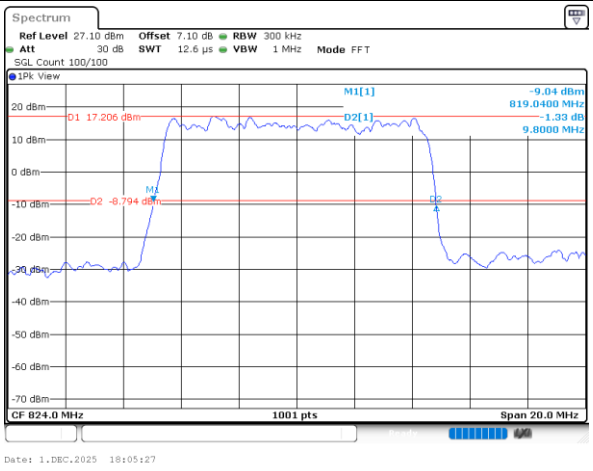
Middle Channel / 5MHz / QPSK



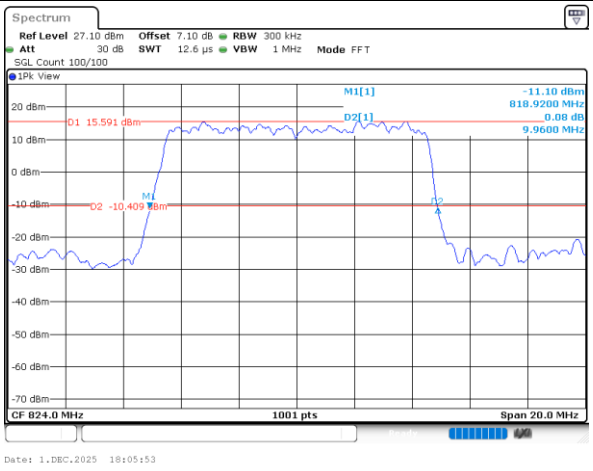
Middle Channel / 5MHz / 16QAM



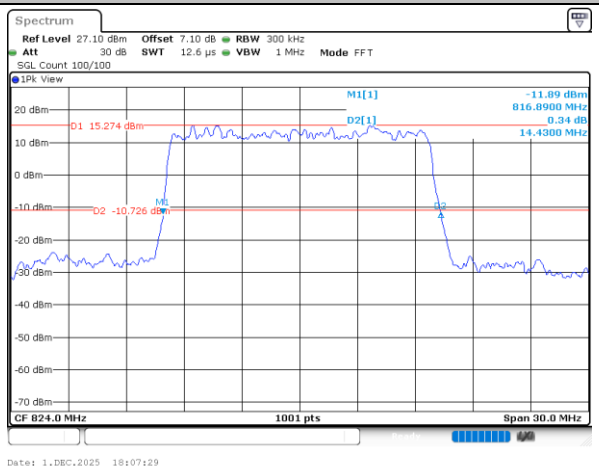
Middle Channel / 10MHz / QPSK



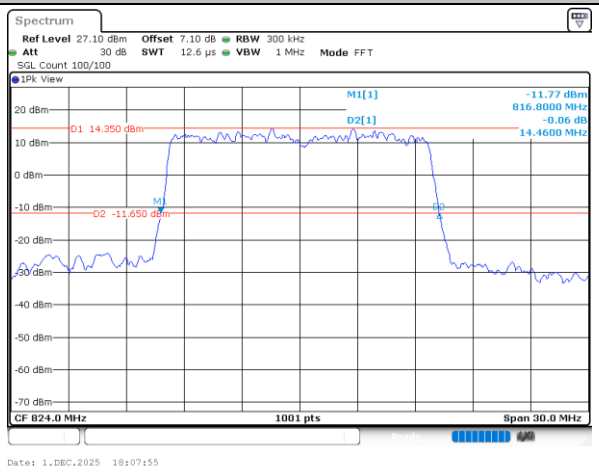
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

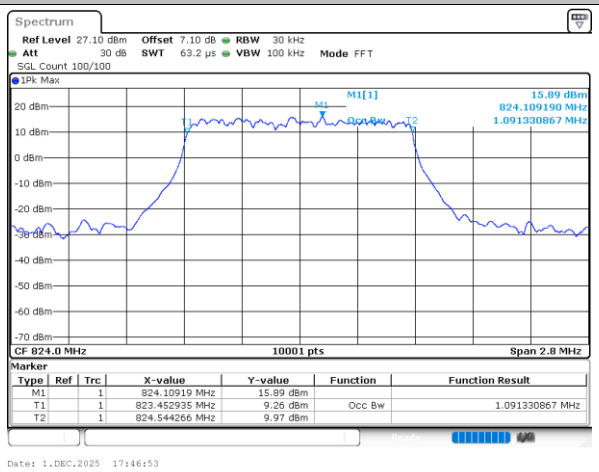


Occupied Bandwidth

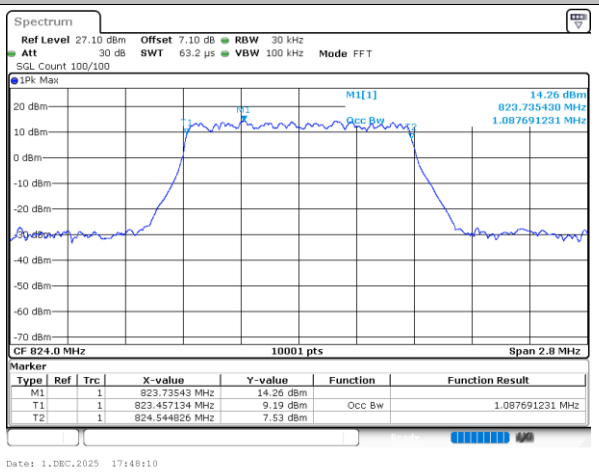
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.08	2.70	2.73	4.47	4.49	9.06	9.02	13.44	13.45	-	-

LTE Band 26

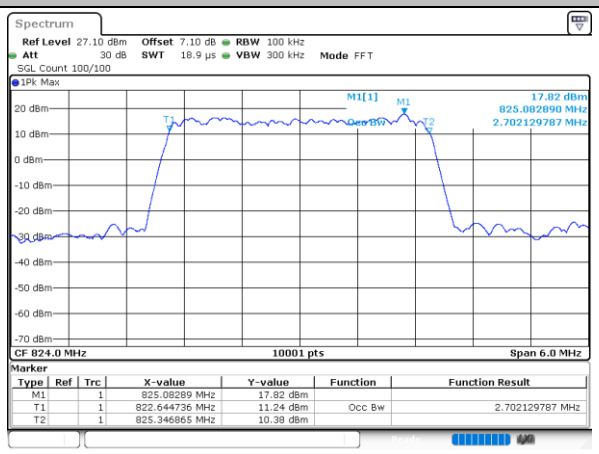
Middle Channel / 1.4MHz / QPSK



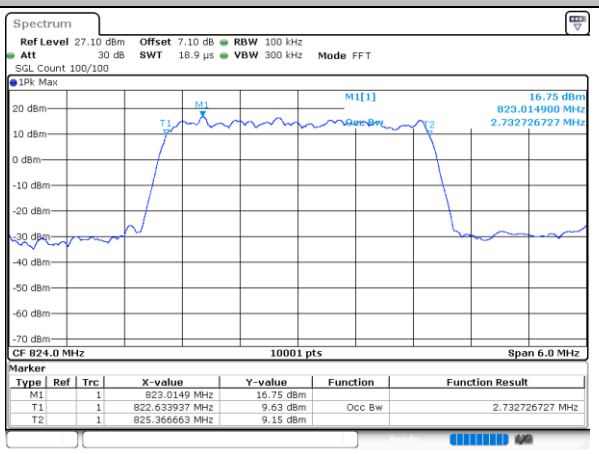
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

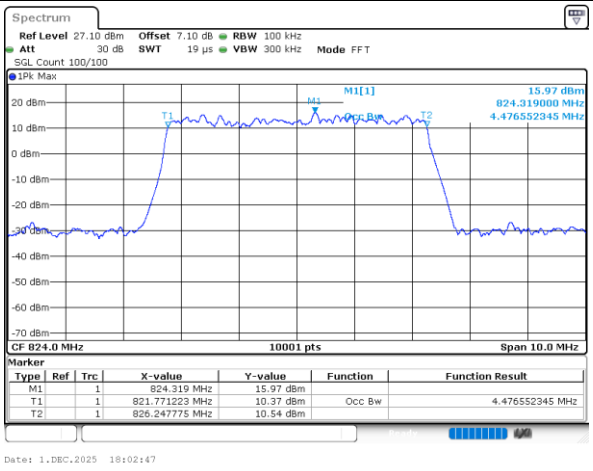


Middle Channel / 3MHz / 16QAM

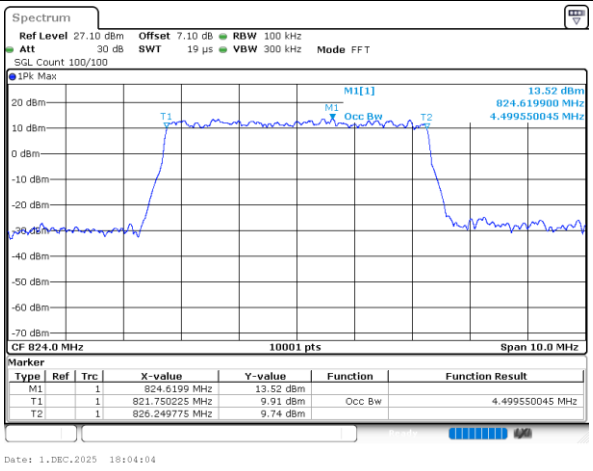


LTE Band 26

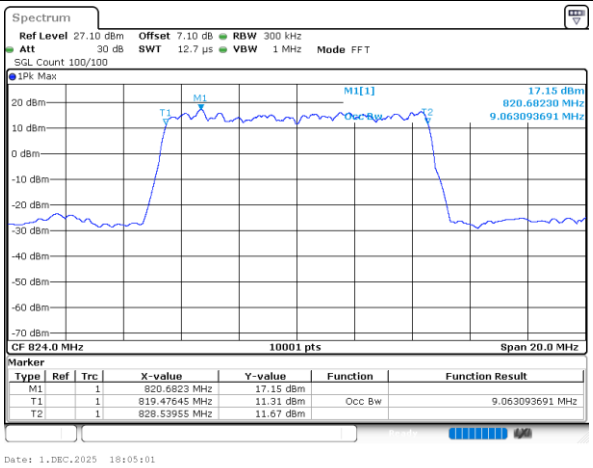
Middle Channel / 5MHz / QPSK



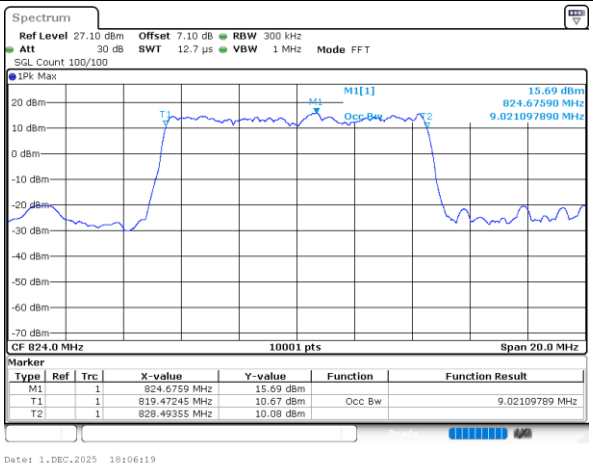
Middle Channel / 5MHz / 16QAM



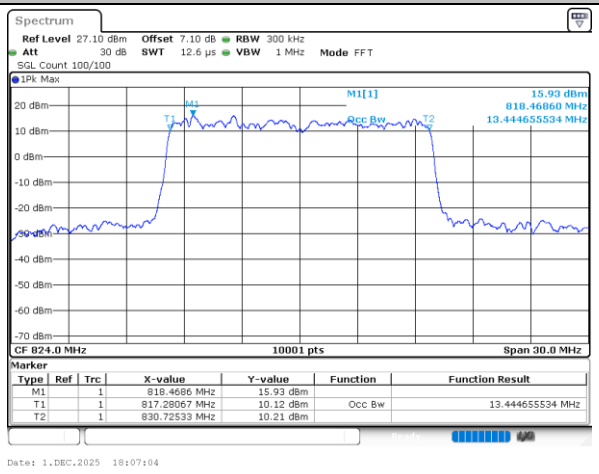
Middle Channel / 10MHz / QPSK



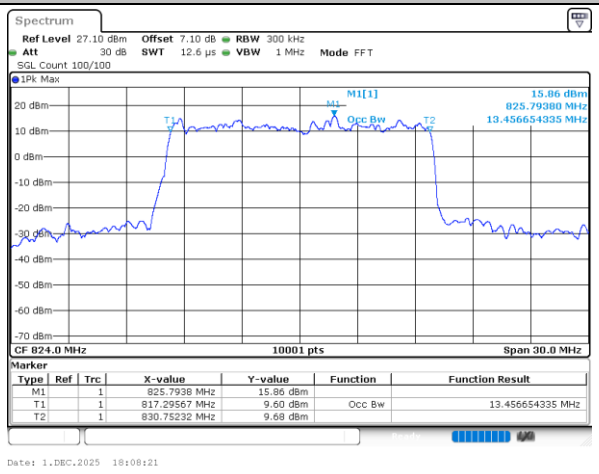
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



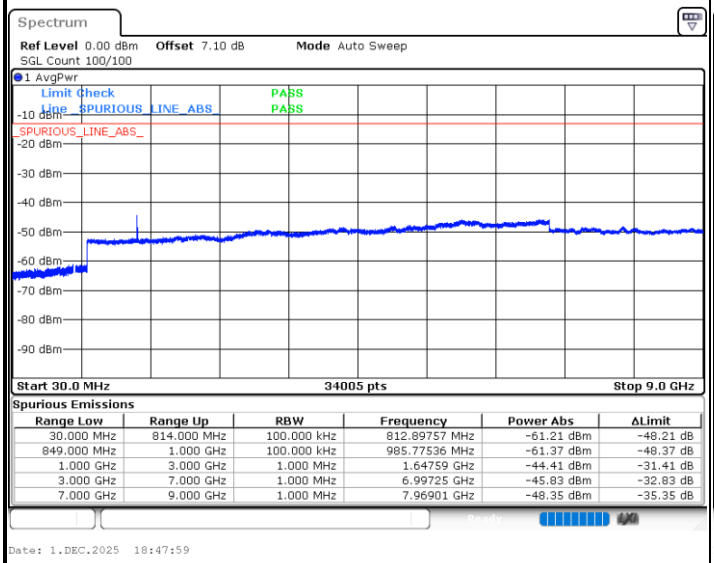
Middle Channel / 15MHz / 16QAM



Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.89757 MHz	-61.21 dBm	-48.21 dB
849.000 MHz	1.000 GHz	100.000 kHz	985.77536 MHz	-61.37 dBm	-48.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64759 GHz	-44.41 dBm	-31.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-45.83 dBm	-32.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.96901 GHz	-48.35 dBm	-35.35 dB

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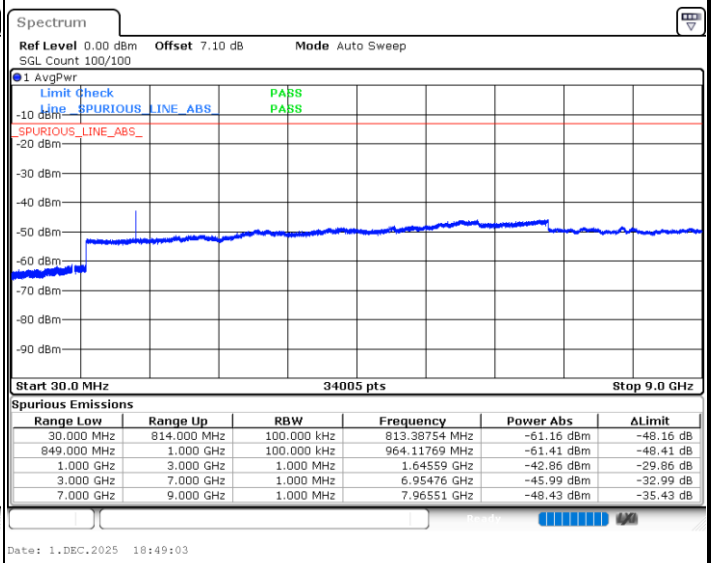
LTE Band 26 / 3MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.38754 MHz	-61.16 dBm	-48.16 dB
849.000 MHz	1.000 GHz	100.000 kHz	964.11769 MHz	-61.41 dBm	-48.41 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64559 GHz	-42.86 dBm	-29.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95476 GHz	-45.99 dBm	-32.99 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.96551 GHz	-48.43 dBm	-35.43 dB

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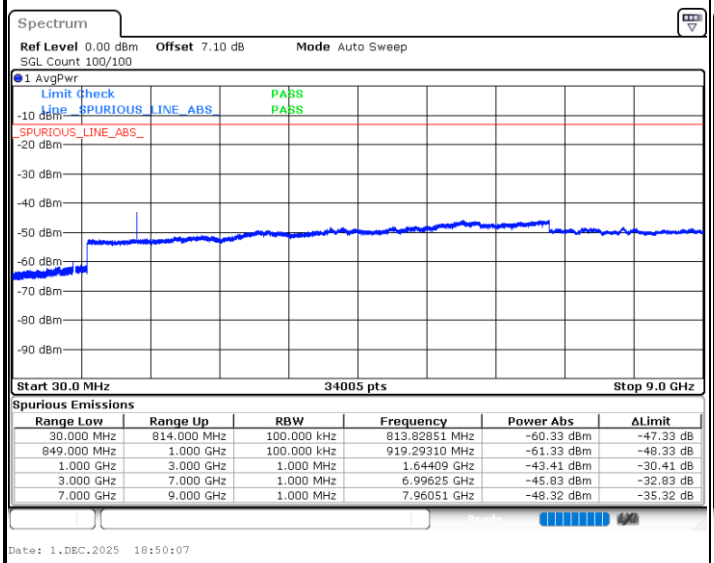
LTE Band 26 / 5MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.82851 MHz	-60.33 dBm	-47.33 dB
849.000 MHz	1.000 GHz	100.000 kHz	919.29310 MHz	-61.33 dBm	-48.33 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64409 GHz	-43.41 dBm	-30.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-45.83 dBm	-32.83 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.96051 GHz	-48.32 dBm	-35.32 dB

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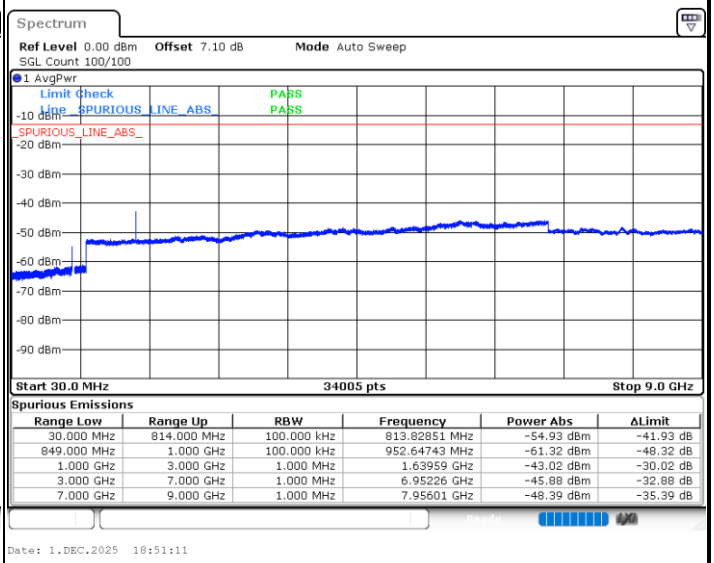
LTE Band 26 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.82851 MHz	-54.93 dBm	-41.93 dB
849.000 MHz	1.000 GHz	100.000 kHz	952.64743 MHz	-61.32 dBm	-48.32 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63959 GHz	-43.02 dBm	-30.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95226 GHz	-45.88 dBm	-32.88 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.95601 GHz	-48.39 dBm	-35.39 dB

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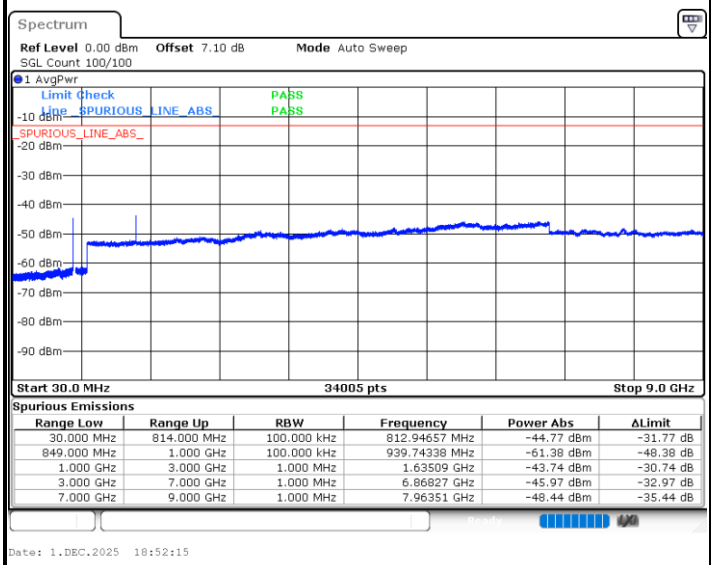
LTE Band 26 / 15MHz	N/A
Middle Channel / QPSK	N/A



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.94657 MHz	-44.77 dBm	-31.77 dB
849.000 MHz	1.000 GHz	100.000 kHz	939.74338 MHz	-61.38 dBm	-48.38 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-43.74 dBm	-30.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86827 GHz	-45.97 dBm	-32.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.96351 GHz	-48.44 dBm	-35.44 dB

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0033	
-10	Normal Voltage	0.0087	
-20	Normal Voltage	0.0093	
-30	Normal Voltage	0.0056	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0041	

Note:

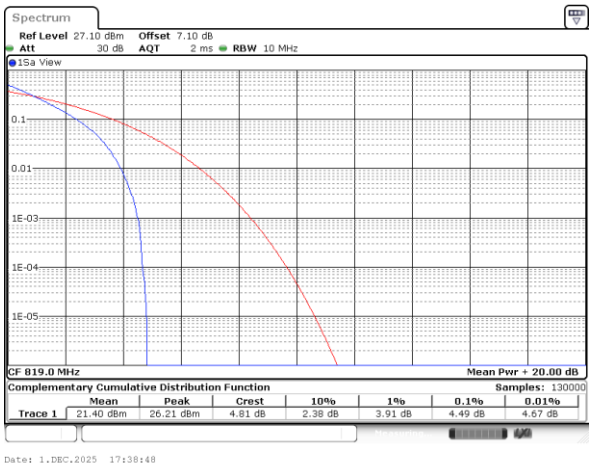
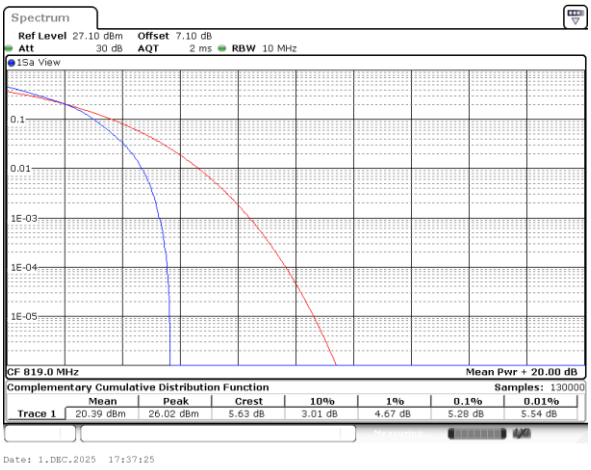
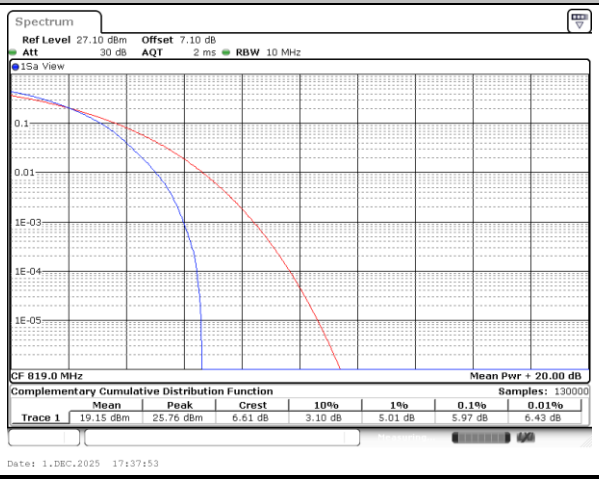
1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.

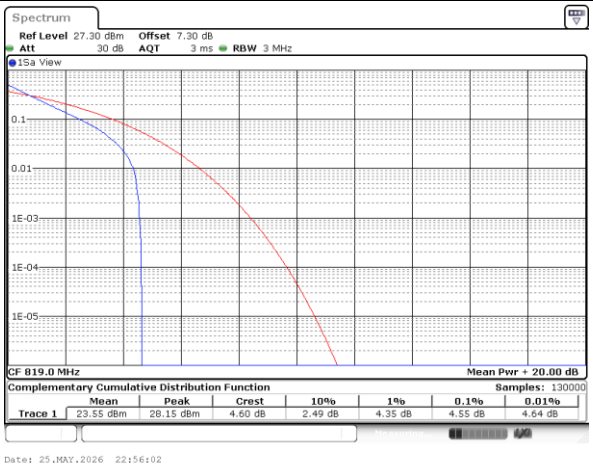
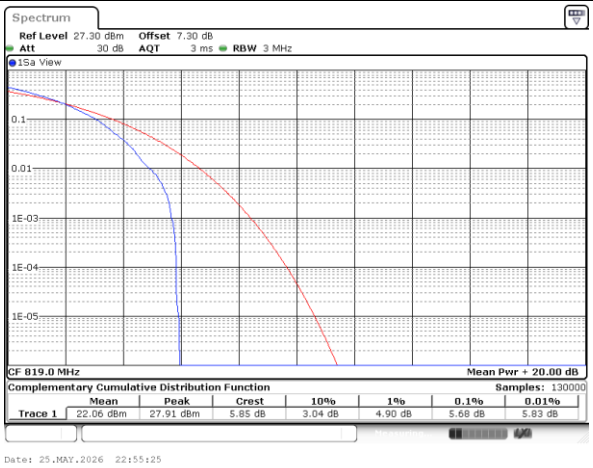
LTE Band 26_Part 90S

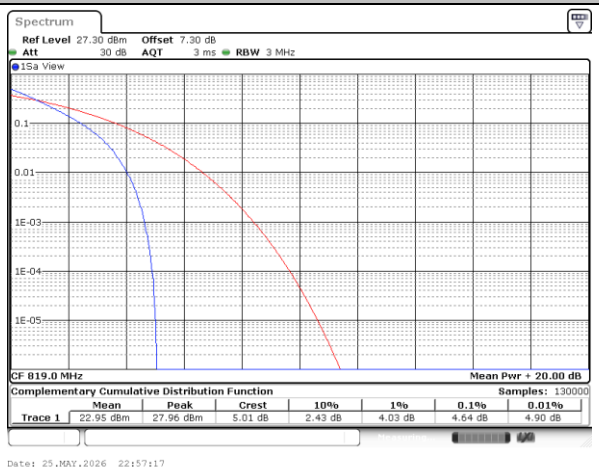
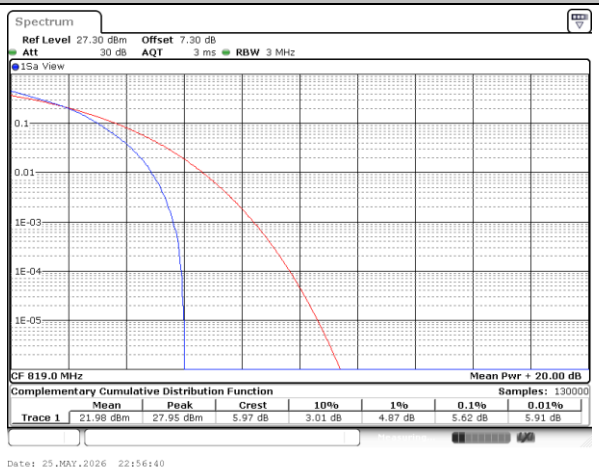
Peak-to-Average Ratio

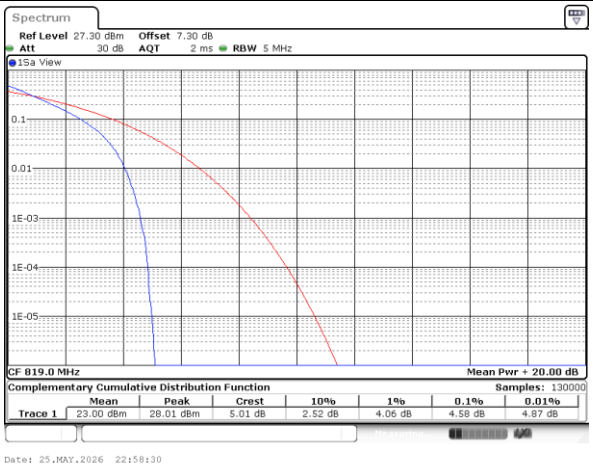
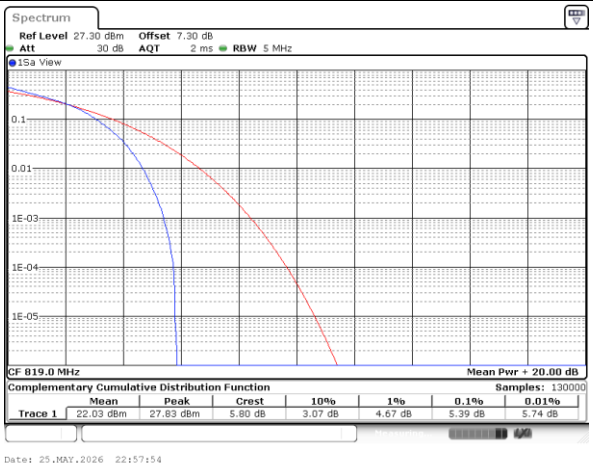
Mode	LTE Band 26 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.49	5.28	5.97	6.35	PASS

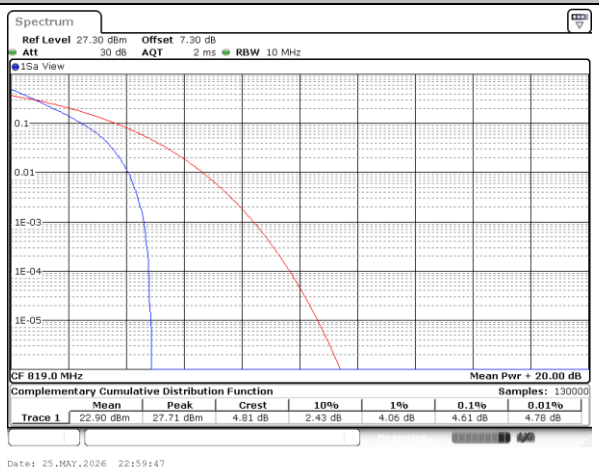
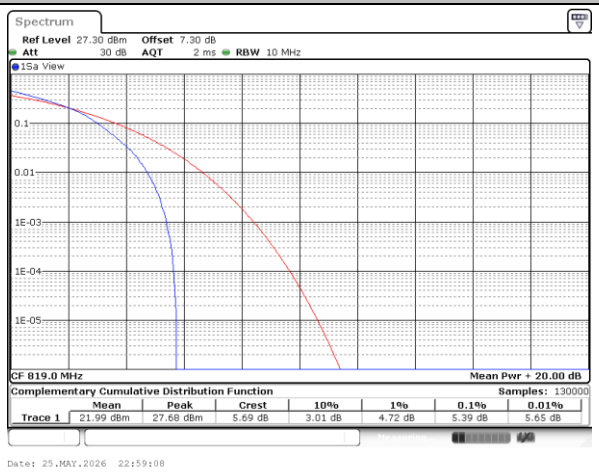
Mode	LTE Band 26 / 1.4MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.55	5.68	PASS
Mode	LTE Band 26 / 3MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.64	5.62	PASS
Mode	LTE Band 26 / 5MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.58	5.39	PASS
Mode	LTE Band 26 / 15MHz		
Mod.	QPSK	16QAM	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	4.61	5.39	PASS

LTE Band 26 / 10MHz / QPSK	LTE Band 26 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 26 / 10MHz / 64QAM	LTE Band 26 / 10MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26 / 1.4MHz / QPSK	LTE Band 26 / 1.4MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26 / 3MHz / QPSK	LTE Band 26 / 3MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

LTE Band 26 / 5MHz / QPSK	LTE Band 26 / 5MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

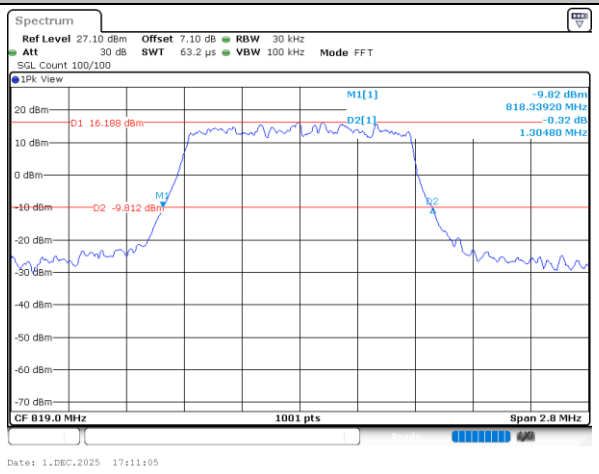
LTE Band 26 / 15MHz / QPSK	LTE Band 26 / 15MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

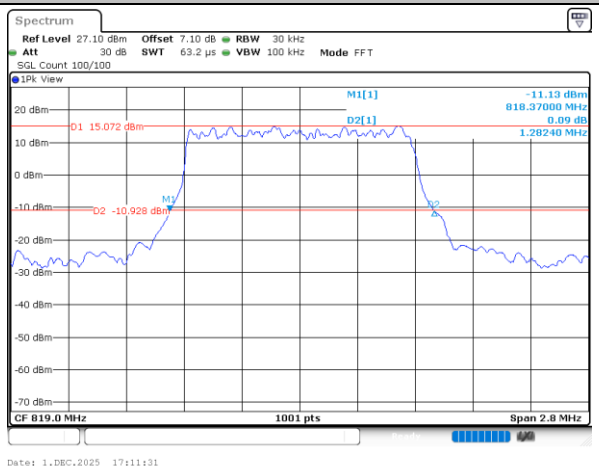
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low CH	-	-	-	-	-	-	-	-	14.46	14.52	-	-
Middle CH	1.30	1.28	3.01	2.98	4.93	4.93	9.74	9.84	-	-	-	-

LTE Band 26

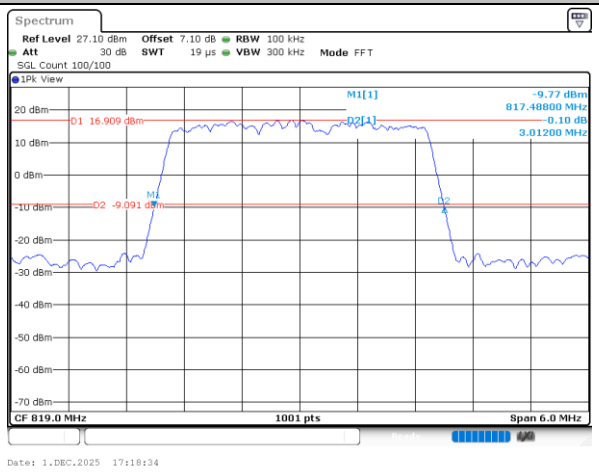
Middle Channel / 1.4MHz / QPSK



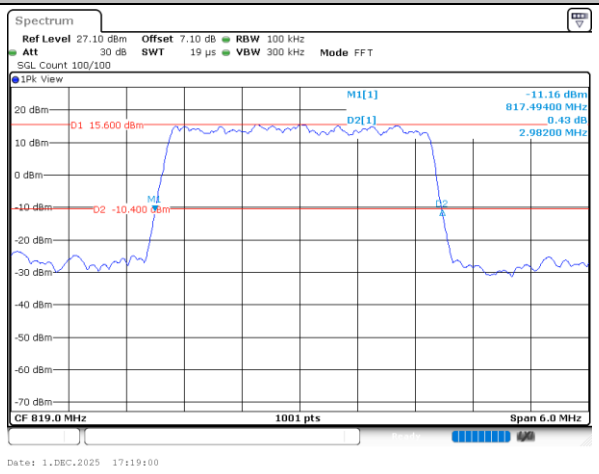
Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK

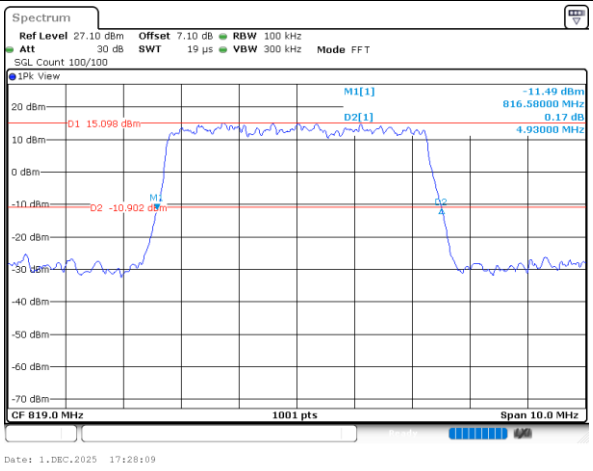


Middle Channel / 3MHz / 16QAM

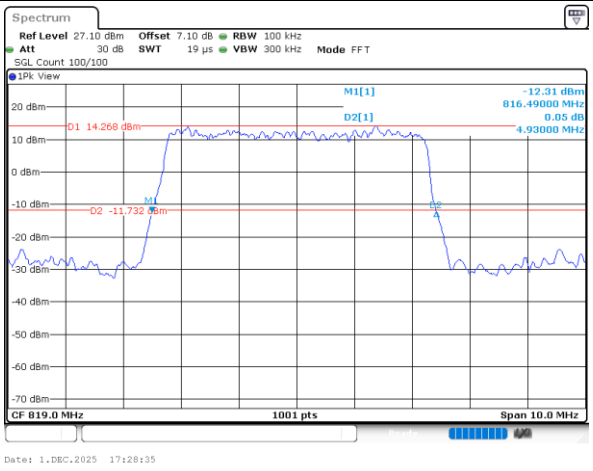


LTE Band 26

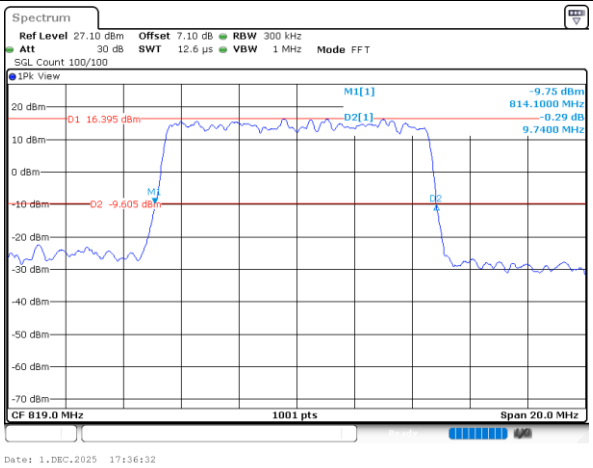
Middle Channel / 5MHz / QPSK



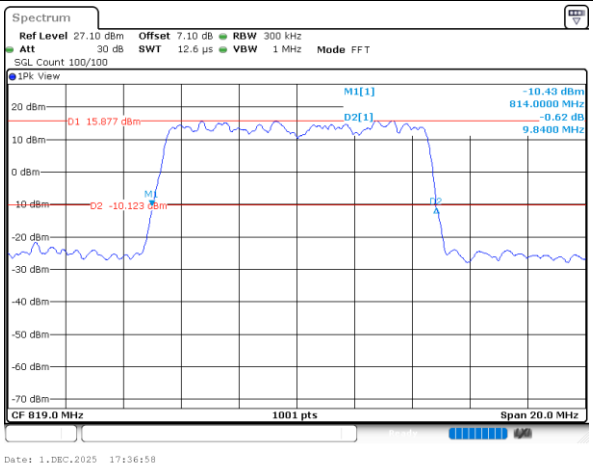
Middle Channel / 5MHz / 16QAM



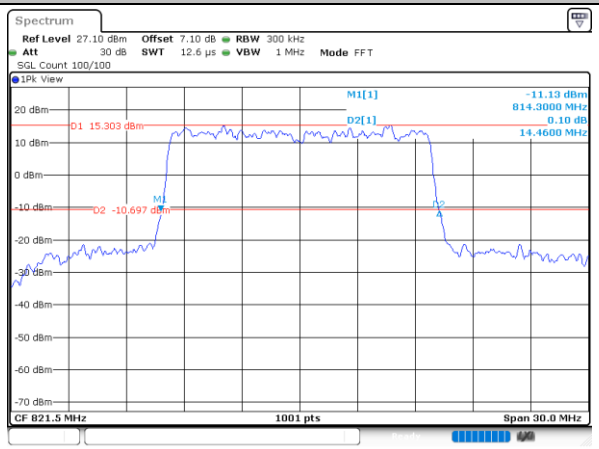
Middle Channel / 10MHz / QPSK



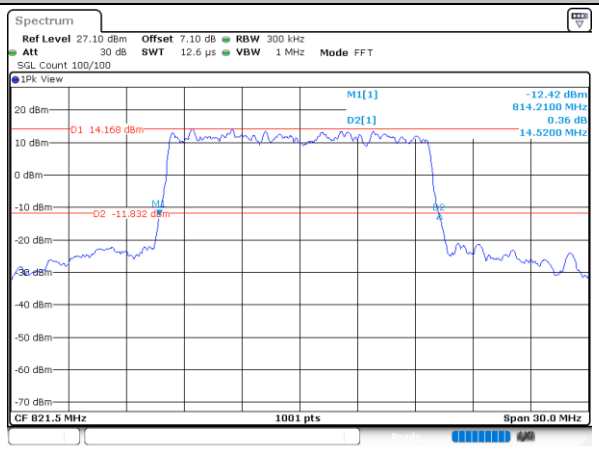
Middle Channel / 10MHz / 16QAM



Low Channel / 15MHz / QPSK



Low Channel / 15MHz / 16QAM

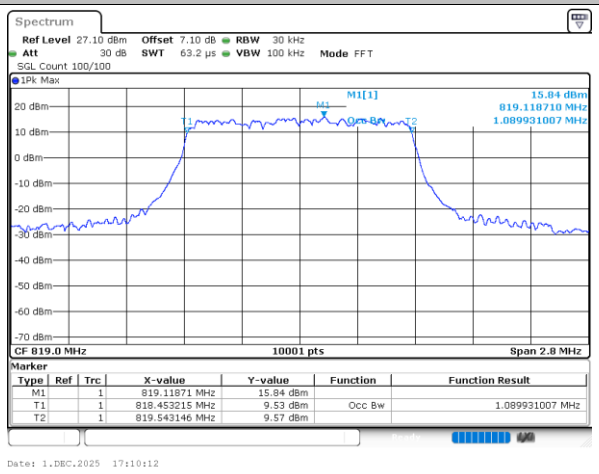


Occupied Bandwidth

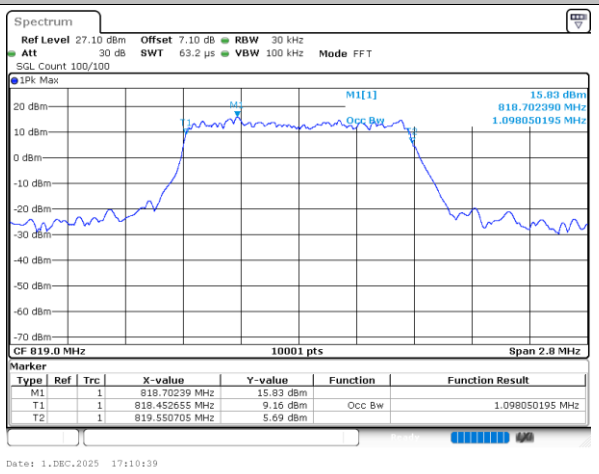
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low CH	-	-	-	-	-	-	-	-	13.44	13.47	-	-
Middle CH	1.08	1.09	2.72	2.70	4.50	4.48	9.08	8.98	-	-	-	-

LTE Band 26

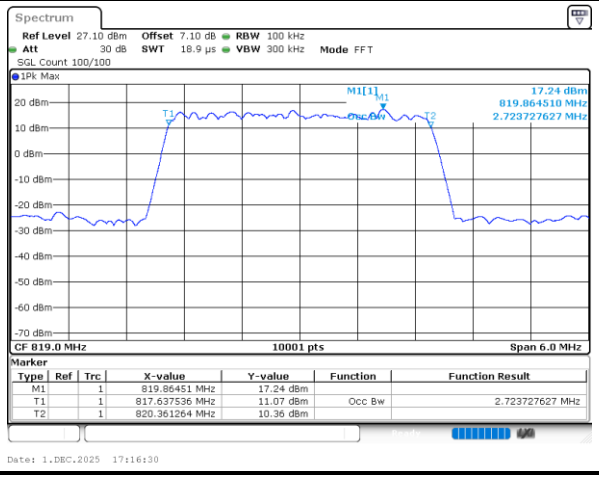
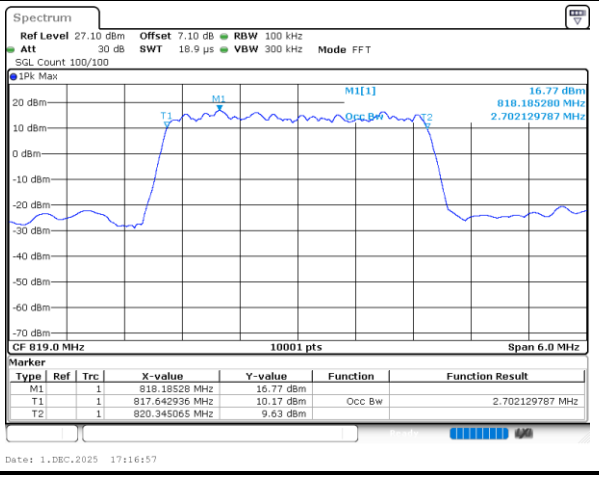
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM