



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2535-3, XT2535-9
FCC ID : IHDT56AV7
STANDARD : 47 CFR Part 22(H), 27(M)
CLASSIFICATION : Licensed Non-Broadcast Transmitter Held to Ear(TNE)
TEST DATE(S) : Jun. 23, 2025 ~ Jun. 28, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



TABLE OF CONTENTS

REVISION HISTORY... 3
SUMMARY OF TEST RESULT ... 4
1 GENERAL DESCRIPTION ... 5
1.1 Applicant ... 5
1.2 Manufacturer ... 5
1.3 Product Feature of Equipment Under Test ... 5
1.4 Product Specification of Equipment Under Test ... 6
1.5 Modification of EUT ... 6
1.6 Maximum ERP/EIRP and Emission Designator ... 7
1.7 Testing Location ... 8
1.8 Test Software ... 8
1.9 Applicable Standards ... 8
1.10 Specification of Accessory ... 9
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ... 10
2.1 Test Mode ... 10
2.2 Connection Diagram of Test System ... 11
2.3 Support Unit used in test configuration and system ... 11
2.4 Measurement Results Explanation Example ... 11
2.5 Frequency List of Low/Middle/High Channels ... 12
3 CONDUCTED TEST ITEMS ... 14
3.1 Measuring Instruments ... 14
3.2 Test Setup ... 14
3.3 Test Result of Conducted Test ... 14
3.4 Conducted Output Power and ERP/EIRP ... 15
3.5 Peak-to-Average Ratio ... 16
3.6 Occupied Bandwidth ... 17
3.7 Conducted Band Edge ... 18
3.8 Conducted Spurious Emission ... 20
3.9 Frequency Stability ... 21
4 RADIATED TEST ITEMS ... 22
4.1 Measuring Instruments ... 22
4.2 Test Setup ... 22
4.3 Test Result of Radiated Test ... 23
4.4 Radiated Spurious Emission ... 24
5 LIST OF MEASURING EQUIPMENT ... 25
6 MEASUREMENT UNCERTAINTY ... 26
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a)	Conducted Band Edge Measurement (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 19.23 dB at 5176.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Conformity Assessment Condition:

- 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.
- 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.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2535-3, XT2535-9
FCC ID	IHDT56AV7
IMEI Code	Conducted: 351186220005518/351186220005559 351186220005526/351186220005567 Radiation: 351186220012134
HW Version	DVT2
SW Version	VVOB35.52
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The different model name is different for market purpose.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2535 MHz ~ 2655 MHz
Rx Frequency	LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2535 MHz ~ 2655 MHz
Bandwidth	LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant0> LTE Band 5 : 23.18 dBm LTE Band 7 : 23.06 dBm LTE Band 38 : 22.91 dBm LTE Band 41 : 23.19 dBm
Antenna Gain	<Ant0> LTE Band 5 : -4.2 dBi LTE Band 7 : -1.5 dBi LTE Band 38 : -1.9 dBi LTE Band 41 : -1.5 dBi <Ant1> LTE Band 7 : -1.5 dBi LTE Band 38 : -1.5 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 0 for LTE Band5/7/38/41 is shown in the report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Maximum ERP/EIRP and Emission Designator

LTE Band 5		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0475	1M09G7D	0.0385	1M09W7D
3	825.5 ~ 847.5	0.0470	2M70G7D	0.0383	2M70W7D
5	826.5 ~ 846.5	0.0478	4M50G7D	0.0391	4M50W7D
10	829.0 ~ 844.0	0.0482	9M01G7D	0.0394	9M07W7D
LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1393	4M48G7D	0.1167	4M48W7D
10	2505.0 ~ 2565.0	0.1396	9M01G7D	0.1186	9M03W7D
15	2507.5 ~ 2562.5	0.1406	13M5G7D	0.1169	13M4W7D
20	2510.0 ~ 2560.0	0.1432	17M9G7D	0.1205	17M9W7D
LTE Band 38		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1247	4M50G7D	0.0957	4M49W7D
10	2575.0 ~ 2615.0	0.1227	9M01G7D	0.0982	9M05W7D
15	2577.5 ~ 2612.5	0.1227	13M4G7D	0.0710	13M5W7D
20	2580.0 ~ 2610.0	0.1262	17M9G7D	0.0991	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2537.5 ~ 2652.5	0.1439	4M48G7D	0.1138	4M51W7D
10	2540.0 ~ 2650.0	0.1445	9M01G7D	0.1138	9M05W7D
15	2542.5 ~ 2647.5	0.1432	13M5G7D	0.1156	13M5W7D
20	2545.0 ~ 2645.0	0.1476	17M9G7D	0.1169	17M9W7D

Note:

- LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
- All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH06-KS	AUDIX	E3	210616

1.9 Applicable Standards

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

- ♦ 47 CFR Part 22(H), 27(M)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-103
AC Adapter 1(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-106
AC Adapter 2(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-102
AC Adapter 2(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-103
AC Adapter 2(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-106
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-107
AC Adapter 3(CHILE)	Brand Name	Motorola(SALCOMP)	Model Name	MC-109
AC Adapter 4(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 4(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-203L
AC Adapter 4(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-204
AC Adapter 5(EU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-202L
AC Adapter 5(UK)	Brand Name	Motorola(SALCOMP)	Model Name	MC-203L
AC Adapter 6(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-202L
Battery 1	Brand Name	Motorola(SUNWODA)	Model Name	RL52
Battery 2	Brand Name	Motorola(JIADE)	Model Name	RL52
Battery 3	Brand Name	Motorola(COSMX)	Model Name	RL52
Battery 4	Brand Name	Motorola(SUNWODA)	Model Name	SL70
Battery 5	Brand Name	Motorola(NVT)	Model Name	SL70
USB Cable 1	Brand Name	Motorola(Juwei)	Model Name	JWUB1982-ZN01H
USB Cable 2	Brand Name	Motorola(Washin)	Model Name	HX-ZN-37
USB Cable 3	Brand Name	Motorola(Juwei)	Model Name	JWUB1928-ZN01H
USB Cable 4	Brand Name	Motorola(Washin)	Model Name	HX-ZN-34
USB Cable 5	Brand Name	Motorola(Juwei)	Model Name	JWUB2002-ZN01H
USB Cable 6	Brand Name	Motorola(Washin)	Model Name	HX-ZN-39
Earphone	Brand Name	Motorola(New LEADER)	Model Name	NLD-EM313A-23SF-KD



2 Test Configuration of Equipment Under Test

2.1 Test Mode

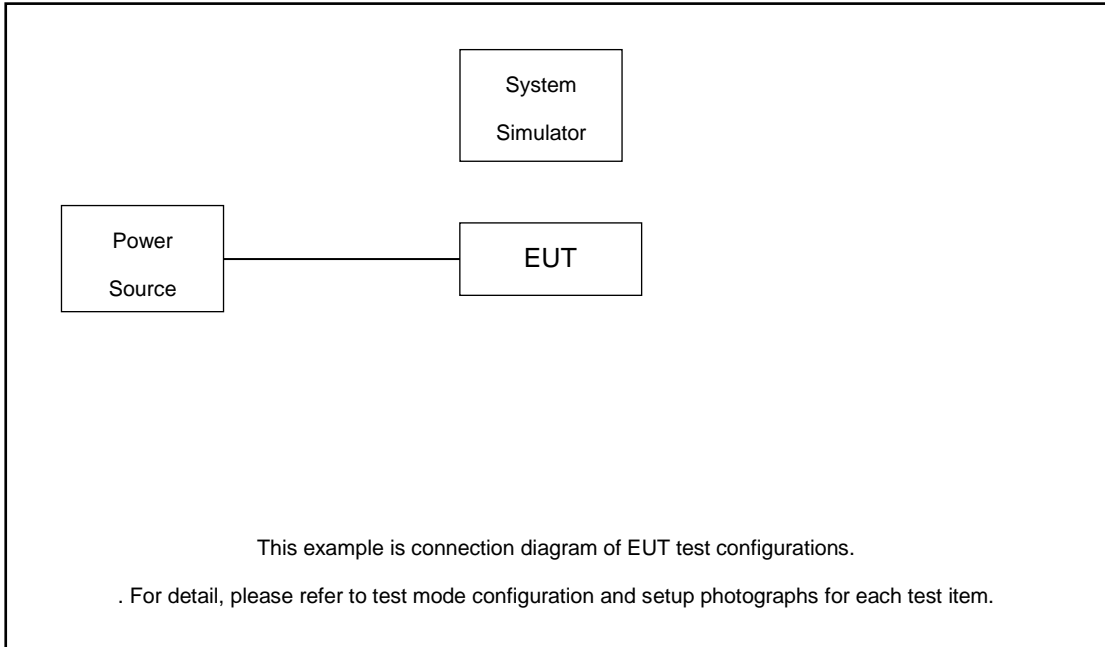
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H	
Max. Output Power	5	v	v	v	v	-	-	v	v	v	v		v	v	v	v	
	7	-	-	v	v	v	v	v	v	v	v		v	v	v	v	
	38	-	-	v	v	v	v	v	v	v	v		v	v	v	v	
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v	
Peak-to-Average Ratio	5				v	-	-	v	v	v			v		v		
	7	-	-				v	v	v	v			v		v		
	41	-	-				v	v	v	v			v		v		
26dB and 99% Bandwidth	5	v	v	v	v	-	-	v	v				v		v		
	7	-	-	v	v	v	v	v	v				v		v		
	41	-	-	v	v	v	v	v	v				v		v		
Conducted Band Edge	5	v	v	v	v	-	-	v	v	v	v		v	v		v	
	7	-	-	v	v	v	v	v	v	v	v		v	v		v	
	41	-	-	v	v	v	v	v	v	v	v		v	v		v	
Conducted Spurious Emission	5	v	v	v	v	-	-	v				v			v	v	v
	7	-	-	v	v	v	v	v				v			v	v	v
	41	-	-	v	v	v	v	v				v			v	v	v
Frequency Stability	5				v	-	-	v						v		v	
	7	-	-		v			v						v		v	
	41	-	-		v			v						v		v	
E.R.P / E.I.R.P	5	v	v	v	v	-	-	v	v	v	v		v	v	v	v	
	7	-	-	v	v	v	v	v	v	v	v		v	v	v	v	
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v	
Radiated Spurious Emission	5	Worst Case													v		
	7	Worst Case													v		
	41	Worst Case													v		
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported.																

3. 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.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820/8821	N/A	N/A	Unshielded,1.8m

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 5.7 dB and 10dB attenuator.

Example :

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



= 5.7 + 10 = 15.7 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5



LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	40140	40640	41140
	Frequency	2545	2595	2645
15	Channel	40115	40640	41165
	Frequency	2542.5	2595	2647.5
10	Channel	40090	40640	41190
	Frequency	2540	2595	2650
5	Channel	40065	40640	41215
	Frequency	2537.5	2595	2652.5

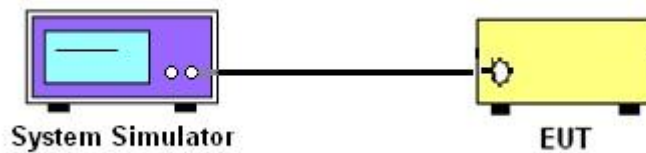
3 Conducted Test Items

3.1 Measuring Instruments

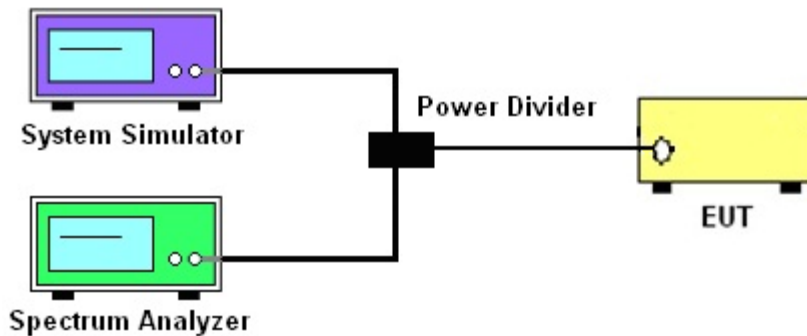
See list of measuring instruments of this test report.

3.2 Test Setup

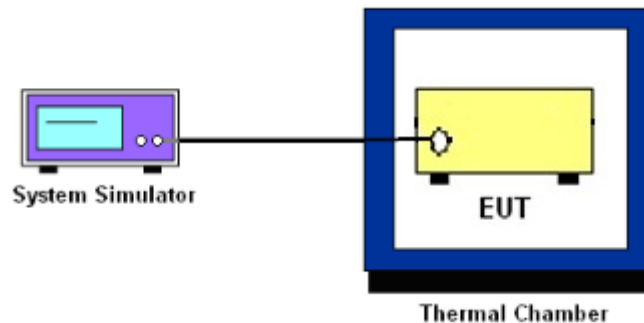
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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 ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 7 and Band 38.

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 Occupied Bandwidth

3.6.1 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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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.

27.53(m)(4)

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



3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
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 \geq 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.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

8. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



3.8 Conducted Spurious Emission

3.8.1 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.

For Band 7,38,41:

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 $55 + 10 \log (P)$ dB.

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

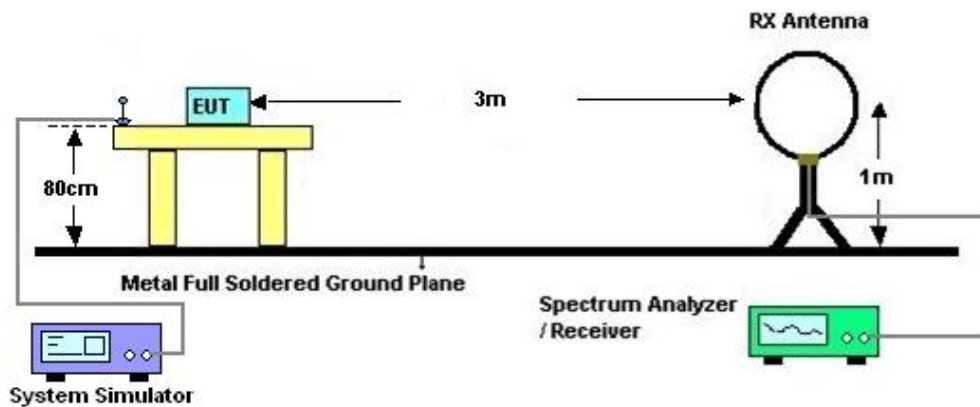
4 Radiated Test Items

4.1 Measuring Instruments

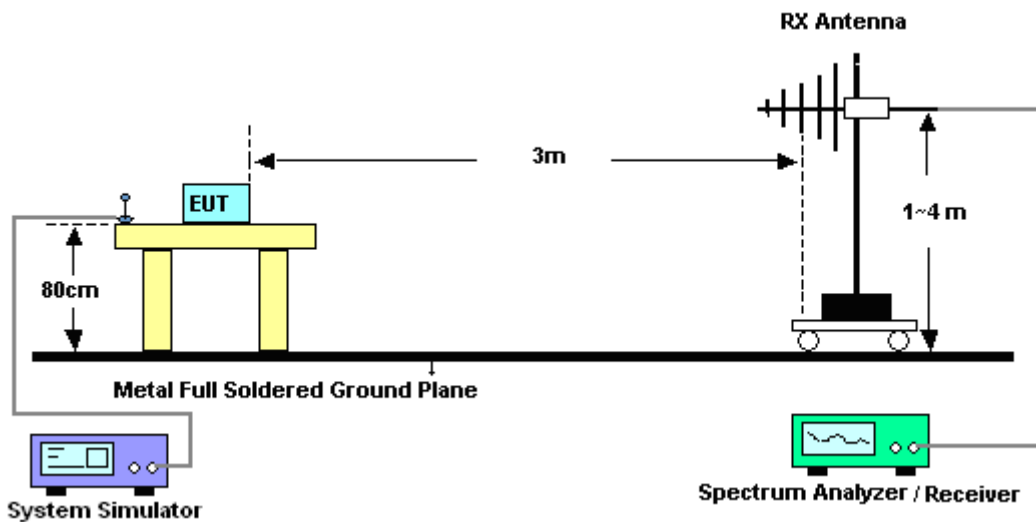
See list of measuring instruments of this test report.

4.2 Test Setup

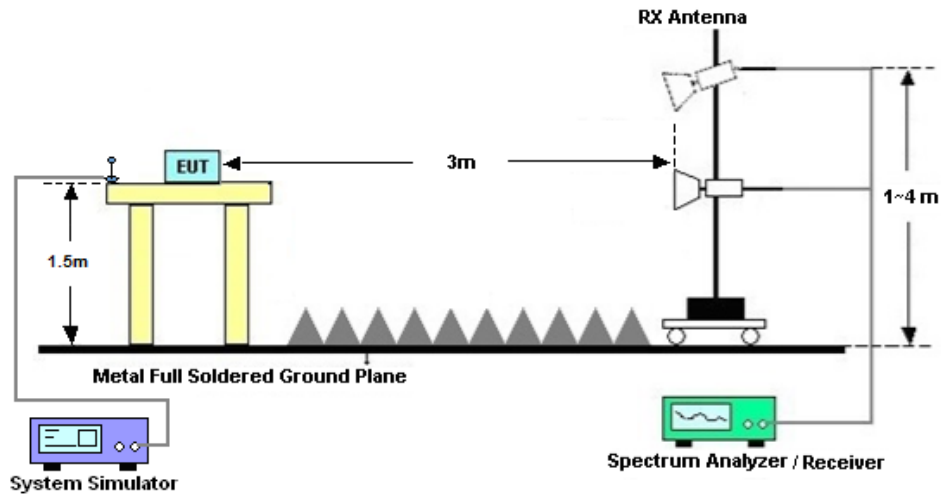
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 Band 7, 38, 41

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 $55 + 10 \log (P)$ dB.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

13. For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Jun. 23, 2025~ Jun. 28, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 23, 2025~ Jun. 28, 2025	NCR	Conducted (TH01-KS)
Radio communication analyzer	Anritsu	MT8821C	6261806798	2G/3G/LTE band 1-46 ,48,65-70	Jul. 04, 2024	Jun. 23, 2025~ Jun. 28, 2025	Jul. 03, 2025	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jun. 23, 2025~ Jun. 28, 2025	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jul. 04, 2024	Jun. 26, 2025~ Jun. 27, 2025	Jul. 03, 2025	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jun. 26, 2025~ Jun. 27, 2025	Sep. 07, 2025	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Sep. 03, 2024	Jun. 26, 2025~ Jun. 27, 2025	Sep. 02, 2025	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 06, 2024	Jun. 26, 2025~ Jun. 27, 2025	Jul. 05, 2025	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jun. 26, 2025~ Jun. 27, 2025	Oct. 21, 2025	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 04, 2024	Jun. 26, 2025~ Jun. 27, 2025	Jul. 03, 2025	Radiation (03CH06-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 03, 2025	Jun. 26, 2025~ Jun. 27, 2025	Jan. 02, 2026	Radiation (03CH06-KS)
high gain Amplifier	EM	EM01G18G A	060845	1Ghz-18Ghz	Jan. 03, 2025	Jun. 26, 2025~ Jun. 27, 2025	Jan. 02, 2026	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY57280119	500MHz~26.5GHz	Oct. 09, 2024	Jun. 26, 2025~ Jun. 27, 2025	Oct. 08, 2025	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 26, 2025~ Jun. 27, 2025	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 26, 2025~ Jun. 27, 2025	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 26, 2025~ Jun. 27, 2025	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.384%
Conducted Power	±0.90 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.38 ppm

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.18 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.36 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP/ERP

LTE Band 5_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600	ERP(W)		
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.09	23.18	22.97	0.0472	0.0482	0.0459
10	QPSK	1	49	22.98	23.03	22.83	0.0460	0.0466	0.0445
10	QPSK	50	0	22.09	22.21	22.08	0.0375	0.0385	0.0374
10	16QAM	1	0	22.17	22.31	22.24	0.0382	0.0394	0.0388
10	64QAM	1	0	21.03	21.17	21.06	0.0294	0.0303	0.0296
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	22.95	23.14	22.86	0.0457	0.0478	0.0448
5	16QAM	1	0	22.05	22.27	22.14	0.0372	0.0391	0.0379
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	23.04	23.07	22.85	0.0467	0.0470	0.0447
3	16QAM	1	0	22.09	22.18	22.10	0.0375	0.0383	0.0376
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	22.94	23.12	22.91	0.0456	0.0475	0.0453
1.4	16QAM	1	0	22.11	22.20	22.11	0.0377	0.0385	0.0377



LTE Band 7_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350	EIRP(W)		
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	22.74	23.06	23.04	0.1330	0.1432	0.1426
20	QPSK	1	99	22.61	22.97	22.99	0.1291	0.1403	0.1409
20	QPSK	100	0	22.01	22.19	22.09	0.1125	0.1172	0.1146
20	16QAM	1	0	22.23	22.31	22.18	0.1183	0.1205	0.1169
20	64QAM	1	0	21.12	21.17	21.10	0.0916	0.0927	0.0912
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.67	22.98	22.89	0.1309	0.1406	0.1377
15	16QAM	1	0	22.18	22.16	22.03	0.1169	0.1164	0.1130
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.63	22.95	22.92	0.1297	0.1396	0.1387
10	16QAM	1	0	22.19	22.24	22.11	0.1172	0.1186	0.1151
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.66	22.94	22.90	0.1306	0.1393	0.1380
5	16QAM	1	0	22.08	22.17	22.11	0.1143	0.1167	0.1151

LTE Band 38_ANT0:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150	EIRP(W)		
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	22.83	22.91	22.88	0.1239	0.1262	0.1253
20	QPSK	1	99	22.58	22.72	22.66	0.1169	0.1208	0.1191
20	QPSK	100	0	21.91	22.02	21.90	0.1002	0.1028	0.1000
20	16QAM	1	0	21.72	21.86	21.77	0.0959	0.0991	0.0971
20	64QAM	1	0	20.37	20.45	20.31	0.0703	0.0716	0.0693
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	22.71	22.79	22.78	0.1205	0.1227	0.1225
15	16QAM	1	0	20.25	20.41	20.17	0.0684	0.0710	0.0671
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	22.71	22.79	22.74	0.1205	0.1227	0.1213
10	16QAM	1	0	21.64	21.82	21.65	0.0942	0.0982	0.0944
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	22.74	22.86	22.82	0.1213	0.1247	0.1236
5	16QAM	1	0	21.59	21.71	21.69	0.0931	0.0957	0.0953



LTE Band 41_ANT0:

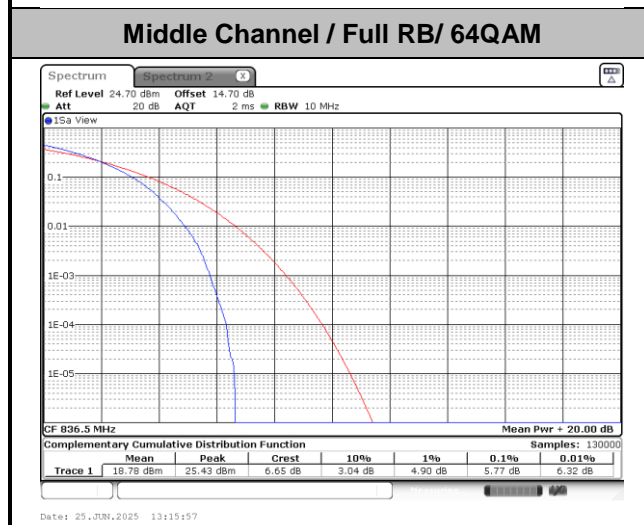
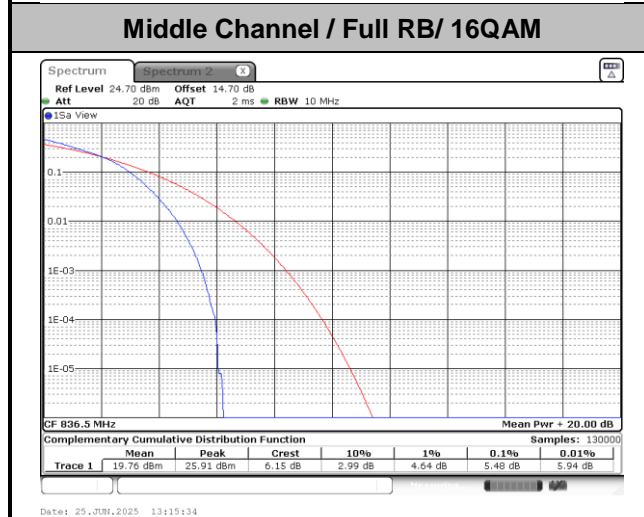
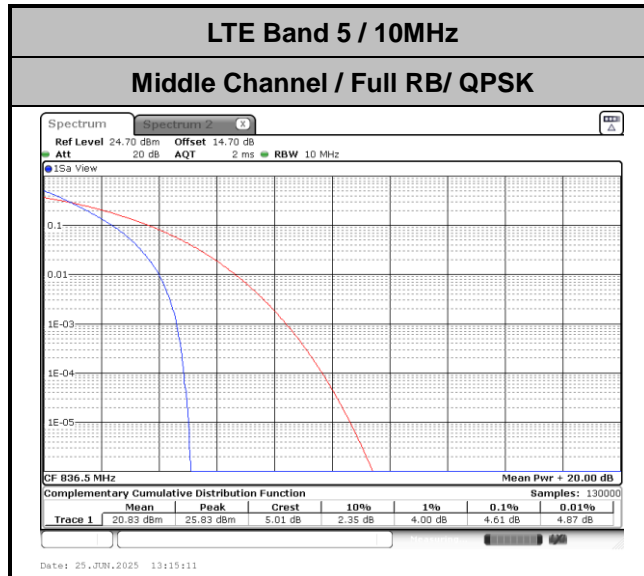
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Low Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				40140	40640	41140	EIRP(W)		
Frequency (MHz)				2545	2595	2645	L	M	H
20	QPSK	1	0	23.19	22.85	23.06	0.1476	0.1365	0.1432
20	QPSK	1	99	23.08	22.70	22.90	0.1439	0.1318	0.1380
20	QPSK	100	0	22.14	21.99	22.11	0.1159	0.1119	0.1151
20	16QAM	1	0	22.18	22.04	22.04	0.1169	0.1132	0.1132
20	64QAM	1	0	20.77	20.65	20.71	0.0845	0.0822	0.0834
Channel				40115	40640	41165	EIRP(W)		
Frequency (MHz)				2542.5	2595	2647.5	L	M	H
15	QPSK	1	0	23.06	22.71	22.93	0.1432	0.1321	0.1390
15	16QAM	1	0	22.13	21.95	21.90	0.1156	0.1109	0.1096
Channel				40090	40640	41190	EIRP(W)		
Frequency (MHz)				2540	2595	2650	L	M	H
10	QPSK	1	0	23.10	22.72	22.90	0.1445	0.1324	0.1380
10	16QAM	1	0	22.06	21.90	21.95	0.1138	0.1096	0.1109
Channel				40065	40640	41215	EIRP(W)		
Frequency (MHz)				2537.5	2595	2652.5	L	M	H
5	QPSK	1	0	23.08	22.76	22.91	0.1439	0.1337	0.1384
5	16QAM	1	0	22.06	21.91	21.94	0.1138	0.1099	0.1107



LTE Band 5

Peak-to-Average Ratio

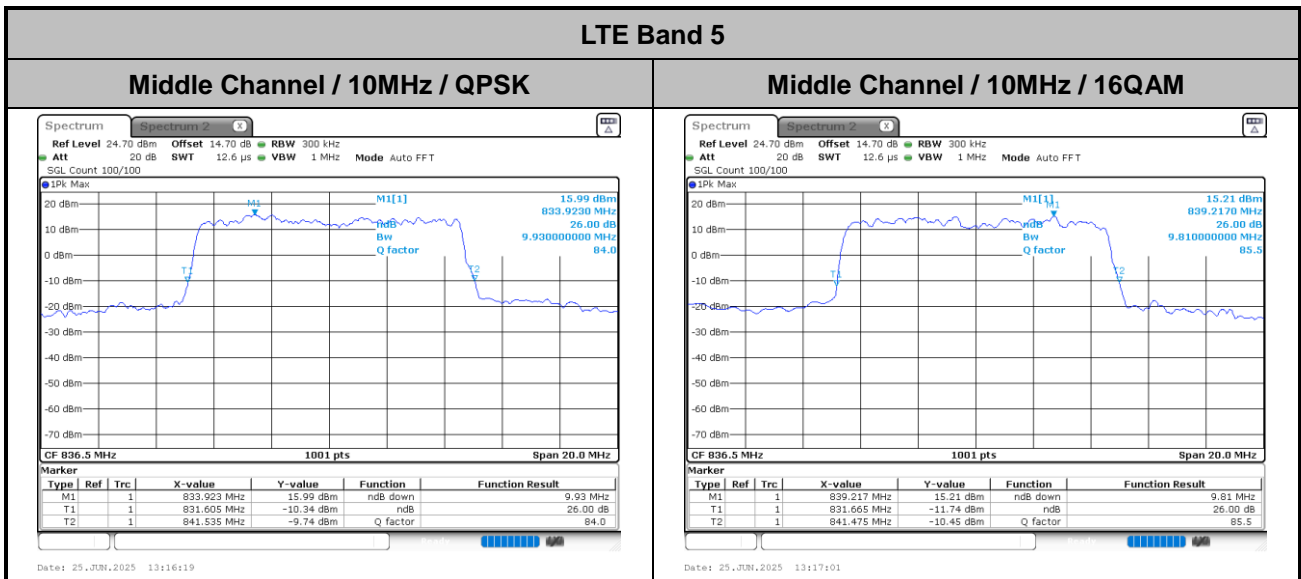
Mode	LTE Band 5 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.48	5.77	PASS





26dB Bandwidth

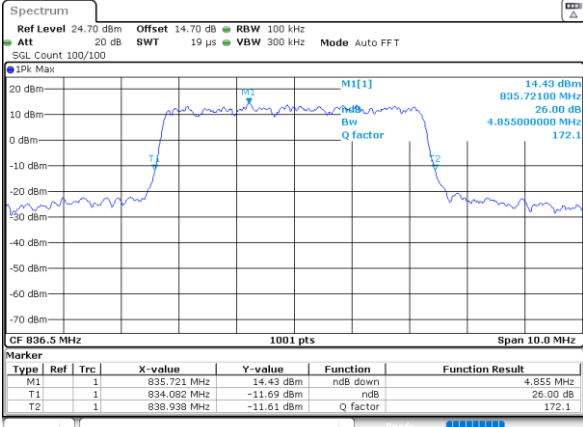
Mode	LTE Band 5 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.93	9.81
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.86	4.86
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.96	2.92
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.28	1.26





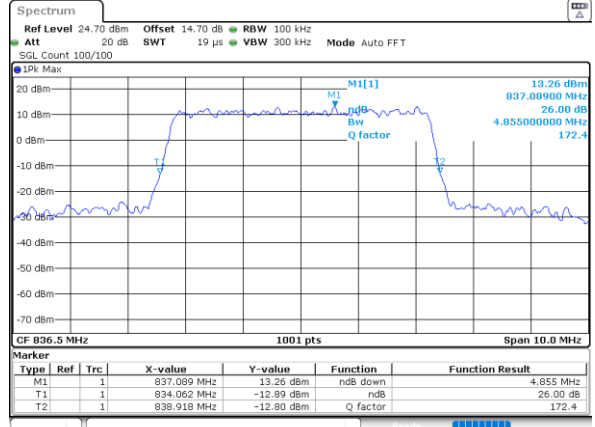
LTE Band 5

Middle Channel / 5MHz / QPSK



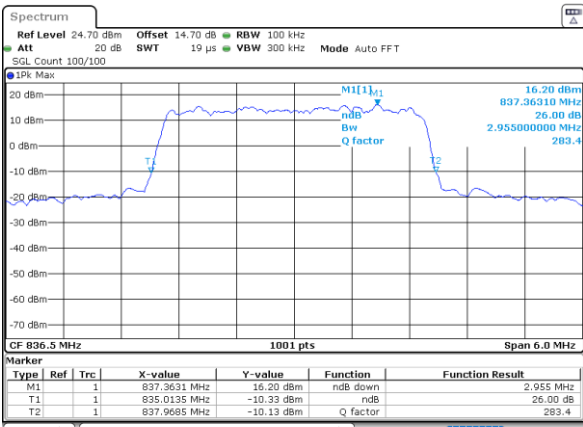
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Middle Channel / 5MHz / 16QAM



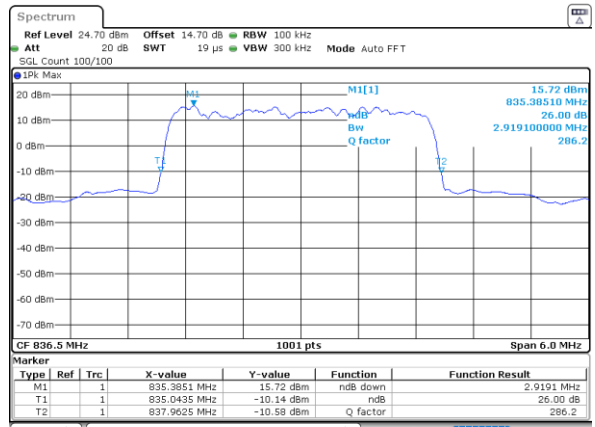
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Middle Channel / 3MHz / QPSK



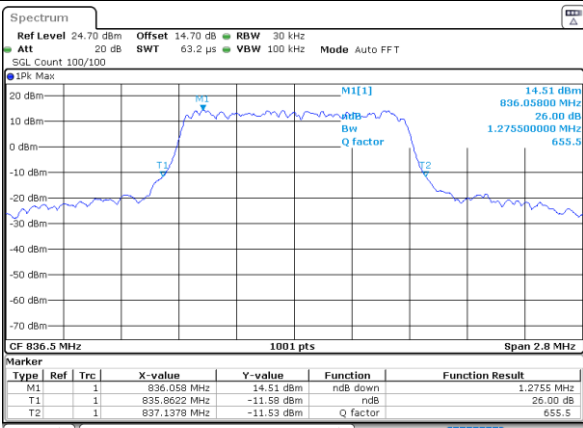
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Middle Channel / 3MHz / 16QAM



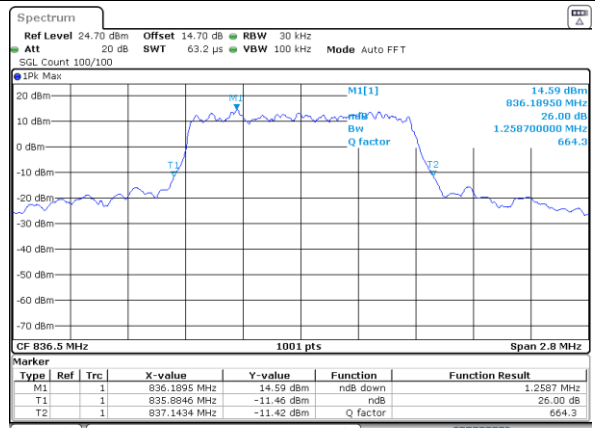
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Middle Channel / 1.4MHz / QPSK



Date: 28_JUN_2025 19:06:48

Middle Channel / 1.4MHz / 16QAM

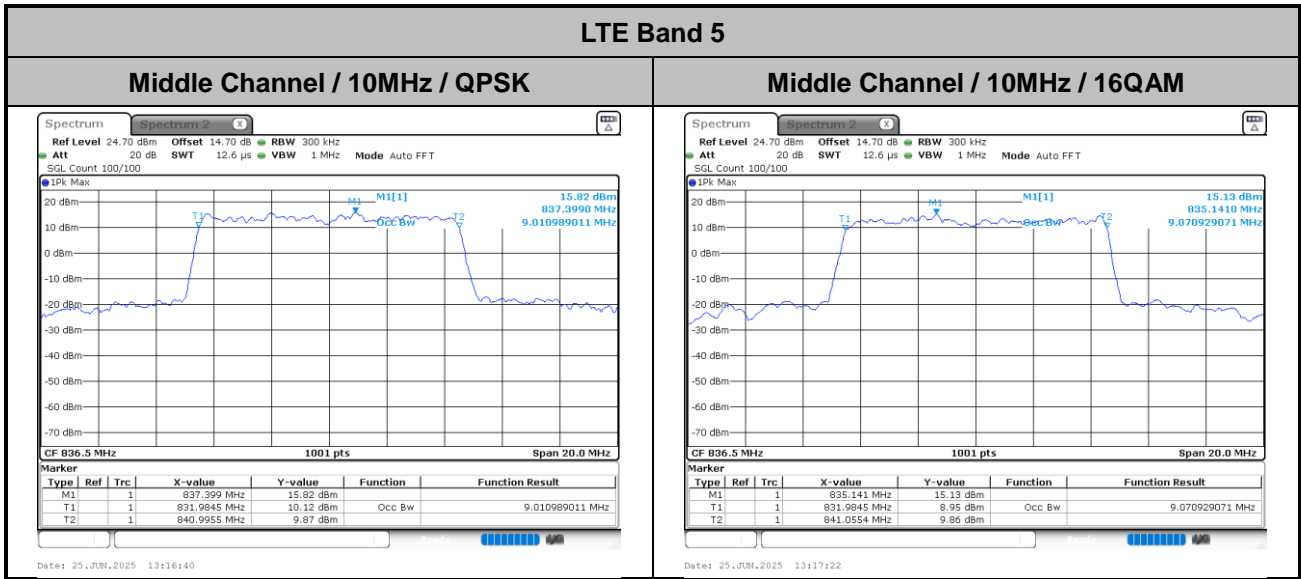


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Occupied Bandwidth

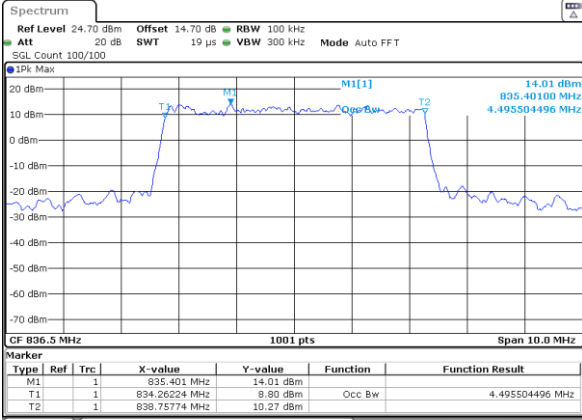
Mode	LTE Band 5 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.07
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.50
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.70	2.70
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.09





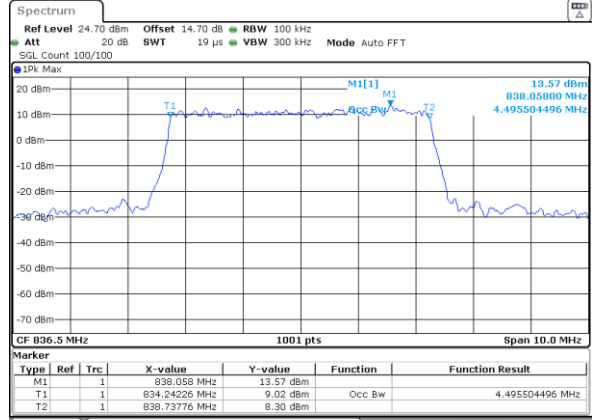
LTE Band 5

Middle Channel / 5MHz / QPSK



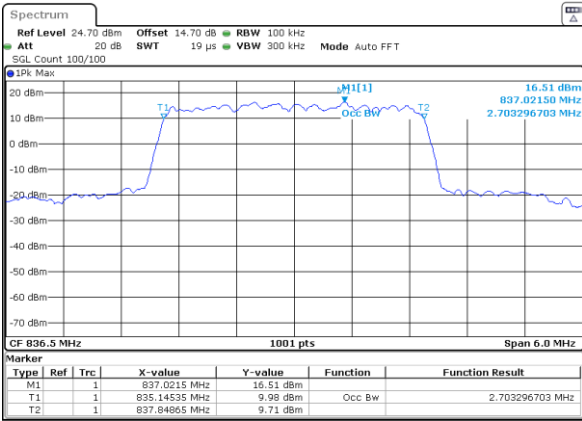
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Middle Channel / 5MHz / 16QAM



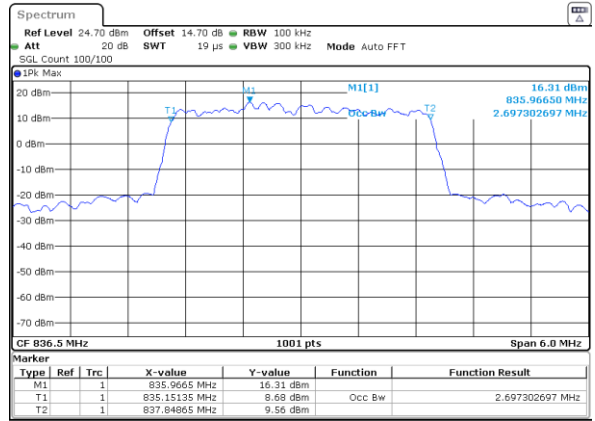
Date: 28_JUN.2025 19:04:38

Middle Channel / 3MHz / QPSK



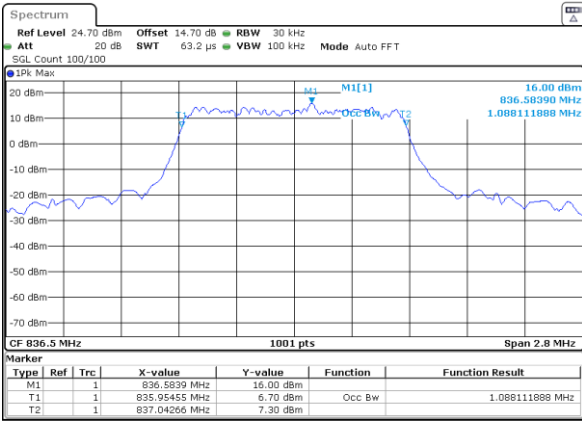
Date: 28_JUN.2025 19:06:04

Middle Channel / 3MHz / 16QAM



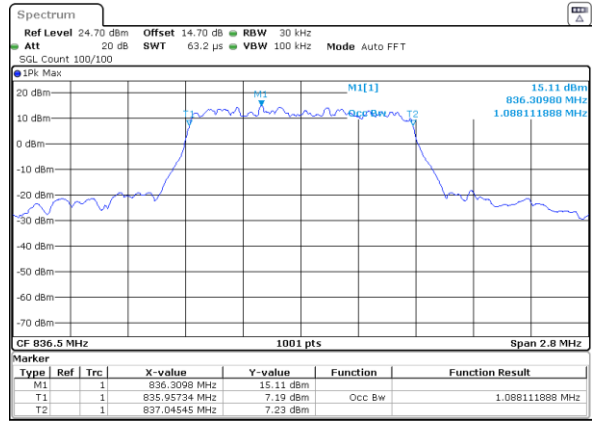
Date: 28_JUN.2025 19:05:00

Middle Channel / 1.4MHz / QPSK



Date: 28_JUN.2025 19:06:26

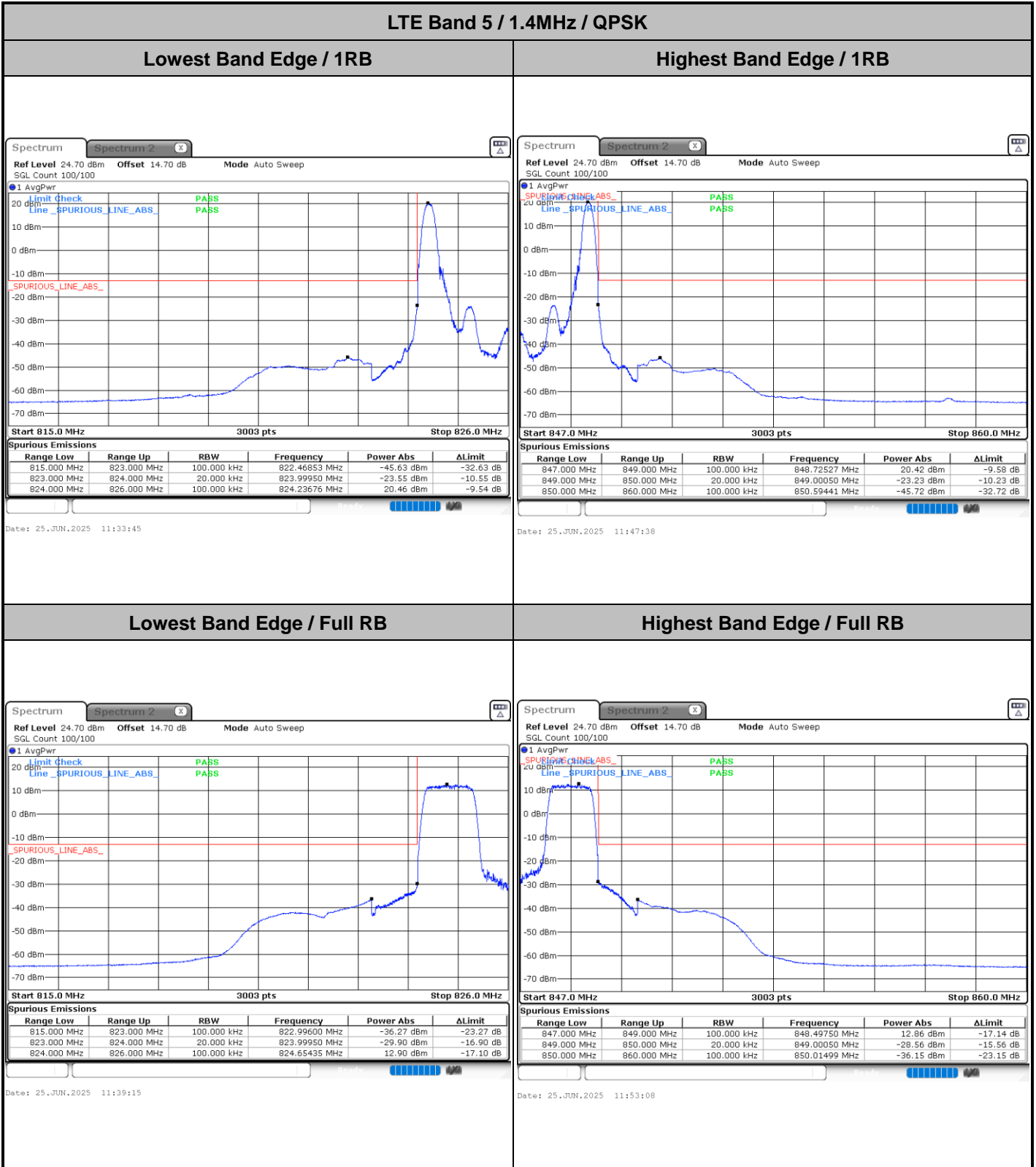
Middle Channel / 1.4MHz / 16QAM



Date: 28_JUN.2025 19:07:31



Conducted Band Edge





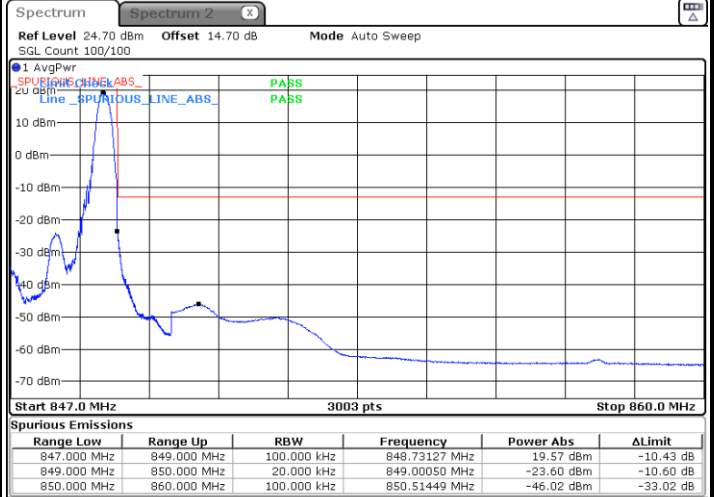
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



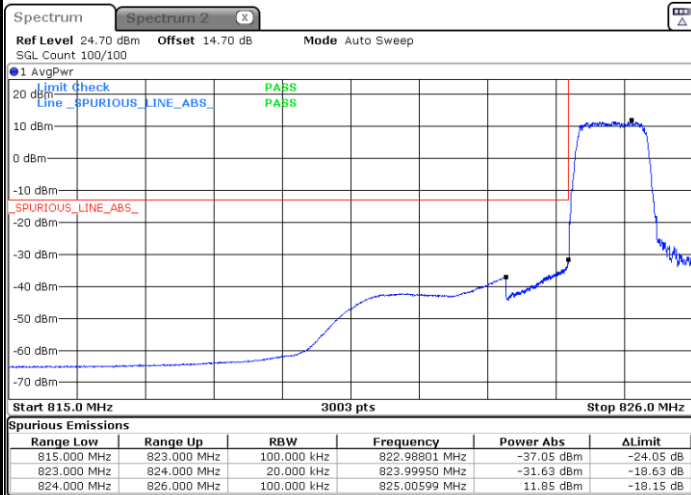
Date: 25 JUN.2025 11:35:35

Highest Band Edge / 1 RB



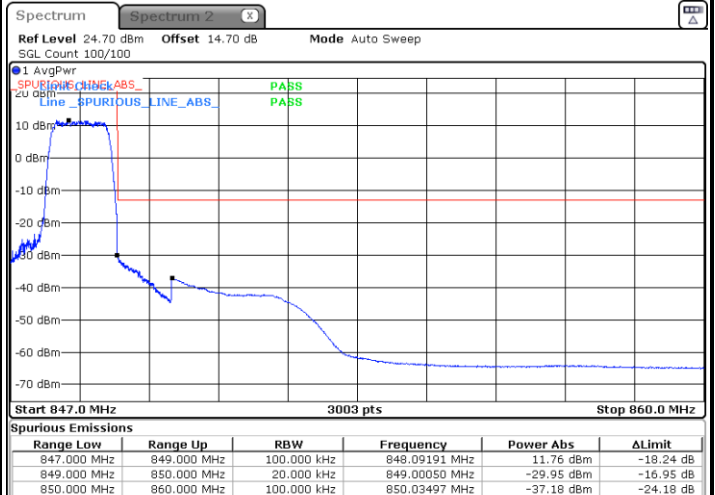
Date: 25 JUN.2025 11:49:28

Lowest Band Edge / Full RB



Date: 25 JUN.2025 11:41:04

Highest Band Edge / Full RB

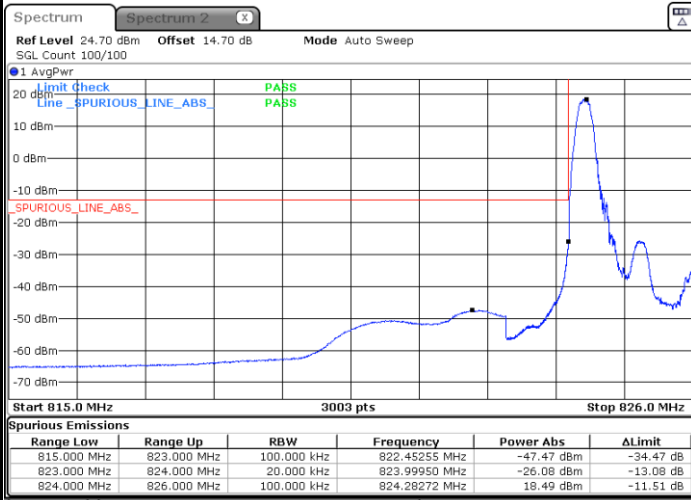


Date: 25 JUN.2025 11:54:58



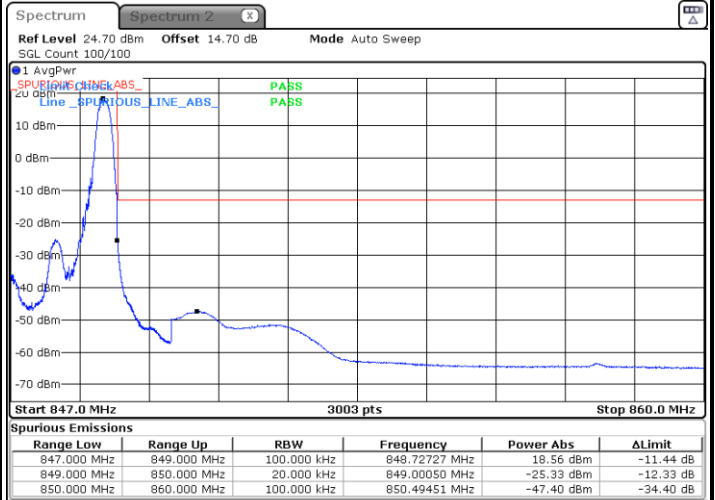
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



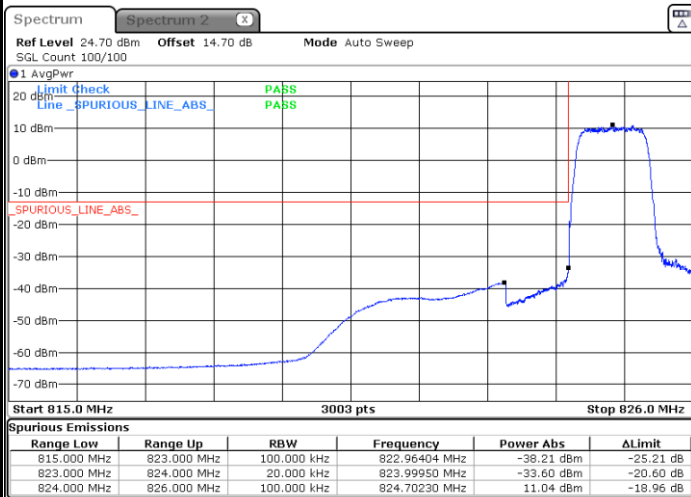
Date: 25 JUN.2025 11:37:25

Highest Band Edge / 1 RB



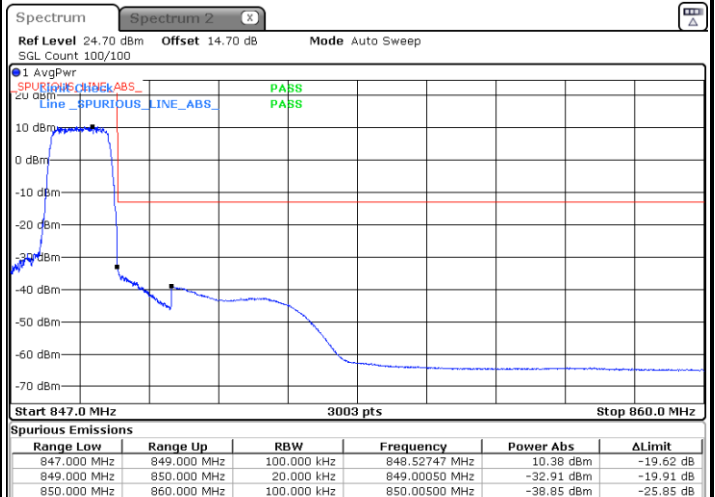
Date: 25 JUN.2025 11:51:18

Lowest Band Edge / Full RB



Date: 25 JUN.2025 11:42:54

Highest Band Edge / Full RB

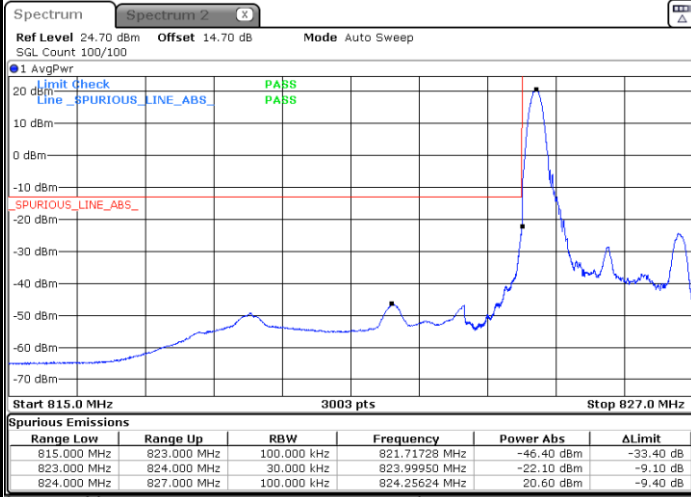


Date: 25 JUN.2025 11:56:47



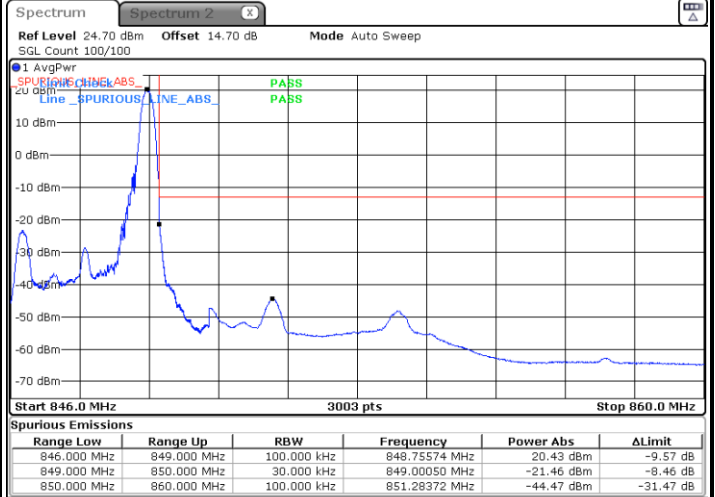
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



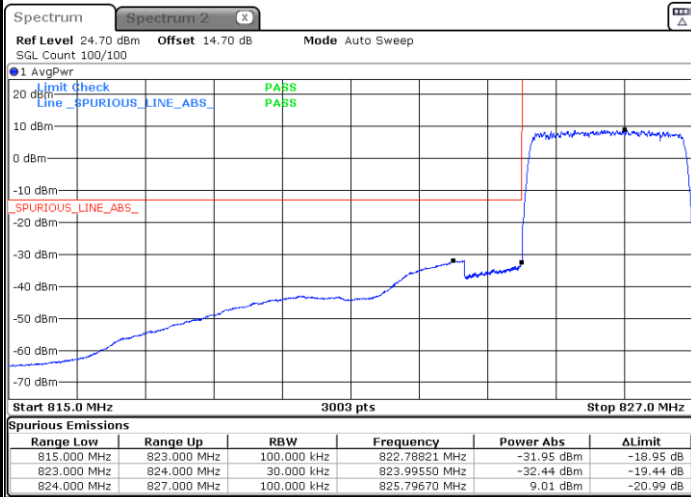
Date: 25 JUN.2025 11:59:58

Highest Band Edge / 1 RB



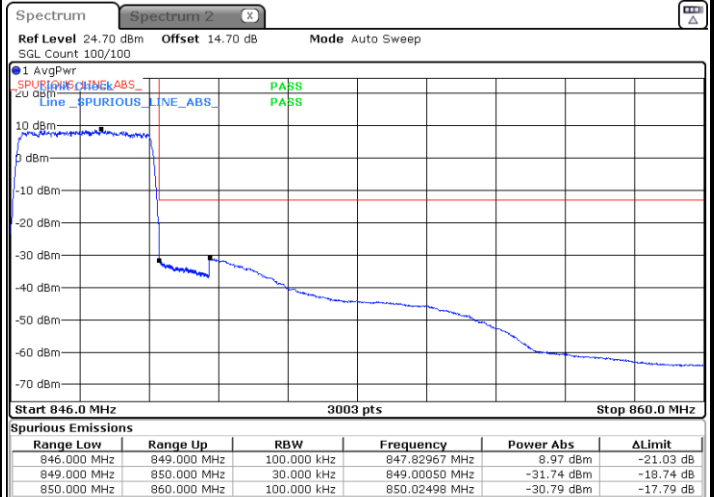
Date: 25 JUN.2025 12:13:38

Lowest Band Edge / Full RB



Date: 25 JUN.2025 12:05:28

Highest Band Edge / Full RB

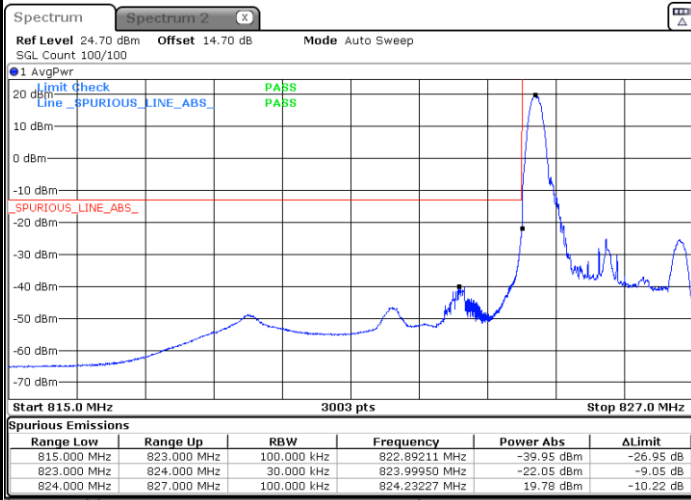


Date: 25 JUN.2025 12:19:07



LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



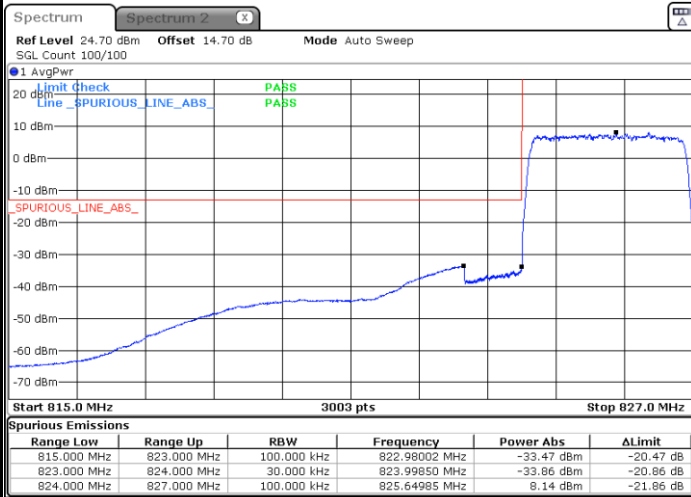
Date: 25 JUN.2025 12:01:48

Highest Band Edge / 1 RB



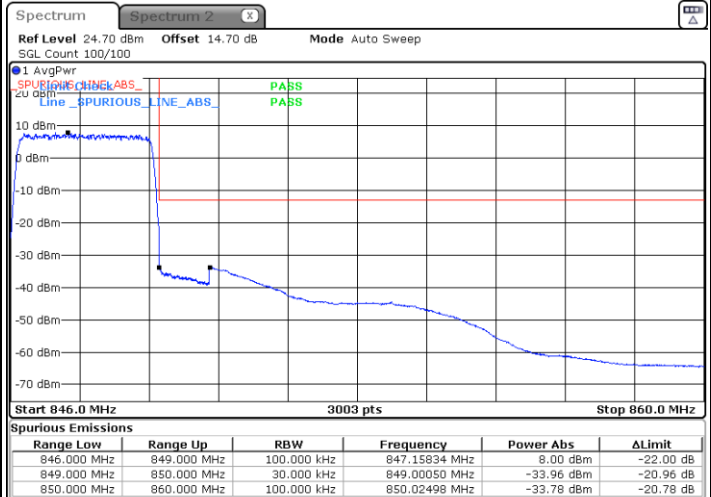
Date: 25 JUN.2025 12:15:28

Lowest Band Edge / Full RB



Date: 25 JUN.2025 12:07:18

Highest Band Edge / Full RB

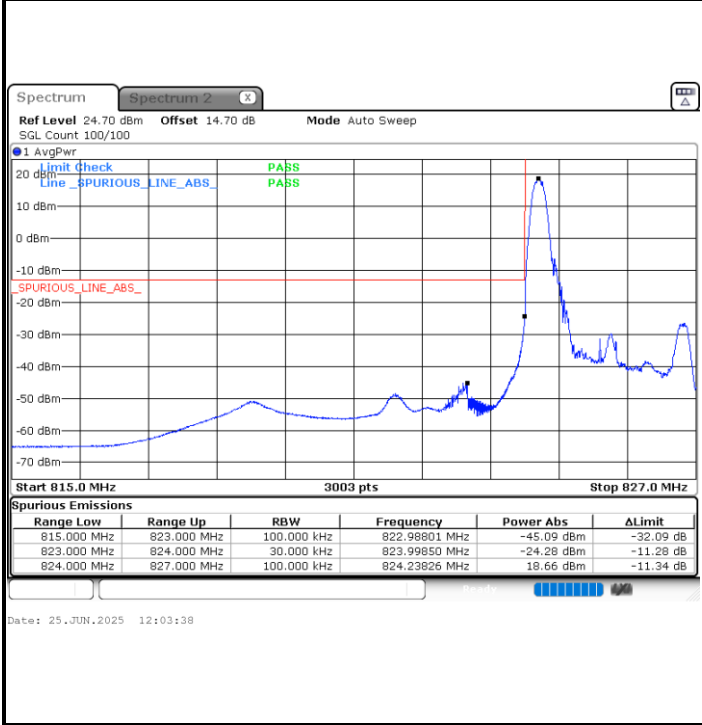


Date: 25 JUN.2025 12:20:58

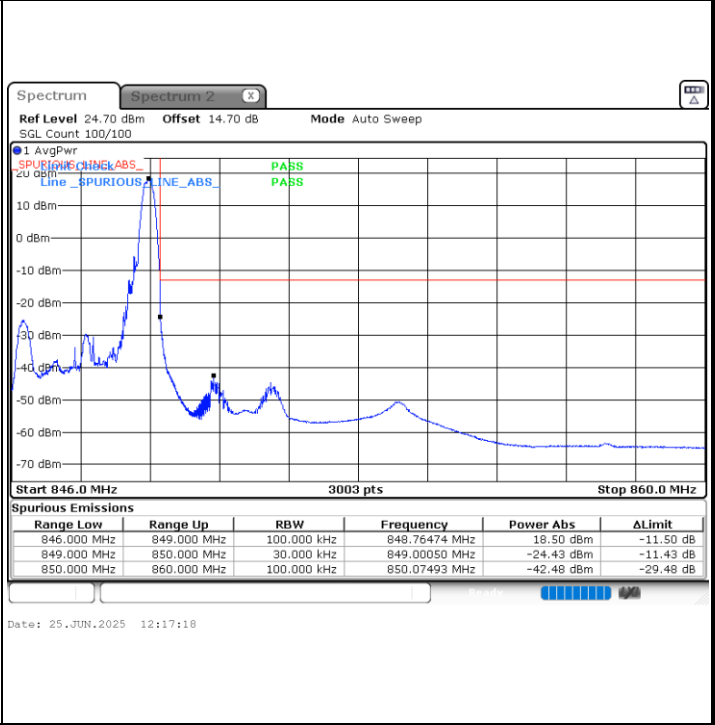


LTE Band 5 / 3MHz / 64QAM

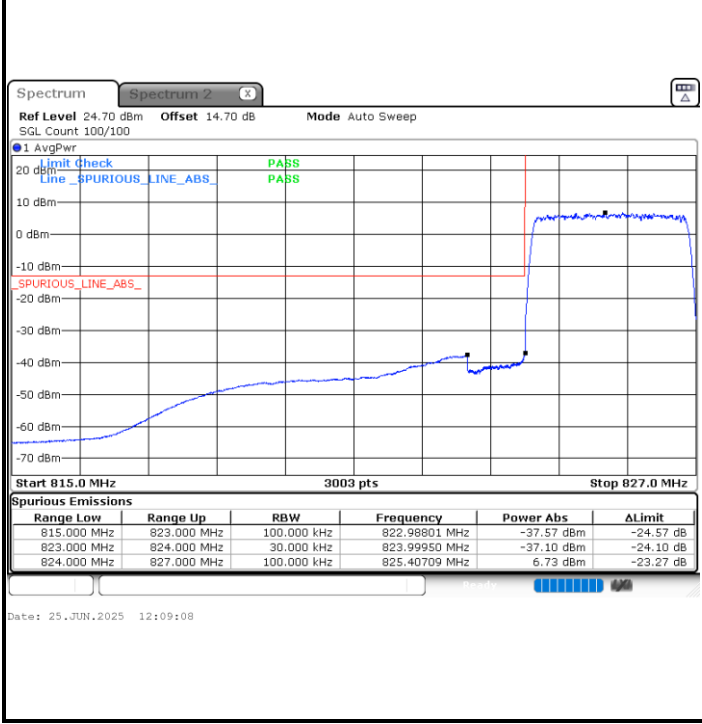
Lowest Band Edge / 1 RB



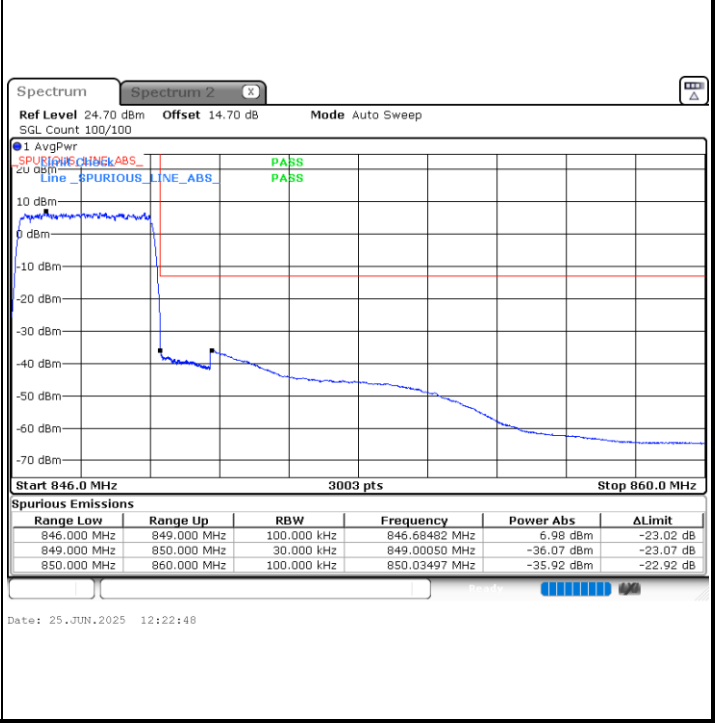
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



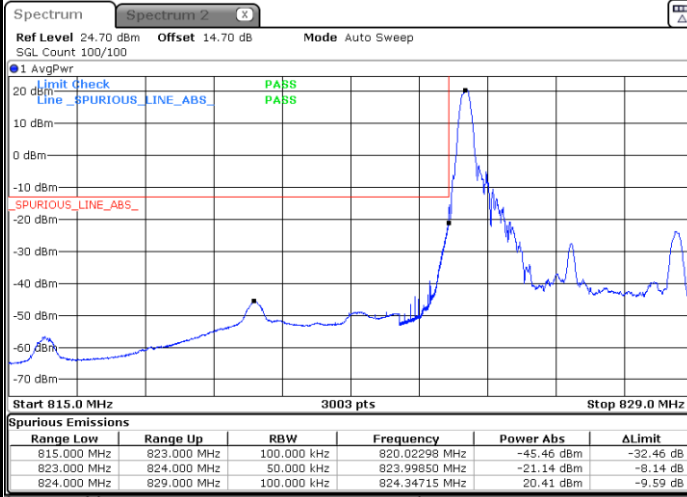
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

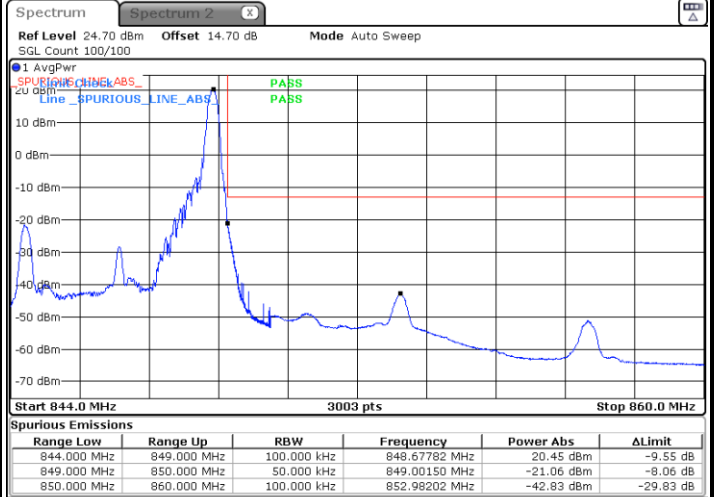
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	820.02298 MHz	-45.46 dBm	-32.46 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99850 MHz	-21.14 dBm	-8.14 dB
824.000 MHz	829.000 MHz	100.000 kHz	824.34715 MHz	20.41 dBm	-9.59 dB

Date: 25 JUN.2025 12:25:58

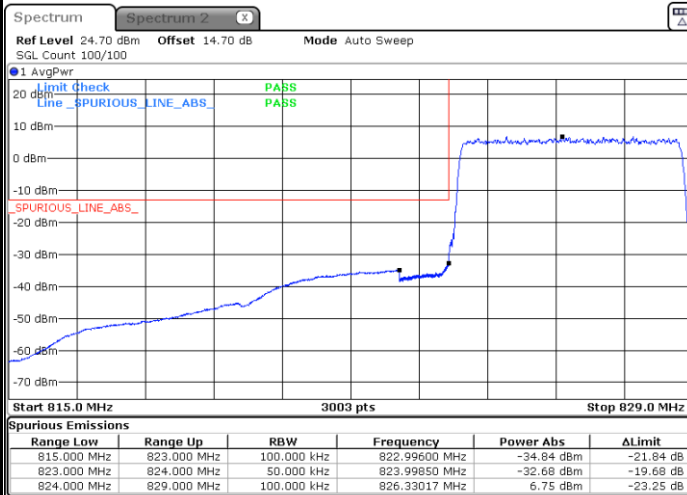
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	848.67782 MHz	20.45 dBm	-9.55 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00150 MHz	-21.06 dBm	-8.06 dB
850.000 MHz	860.000 MHz	100.000 kHz	852.98202 MHz	-42.83 dBm	-29.83 dB

Date: 25 JUN.2025 12:39:37

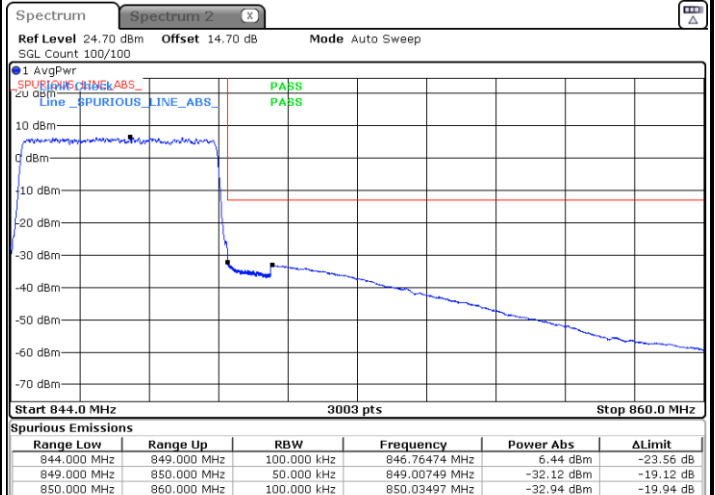
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-34.84 dBm	-21.84 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99850 MHz	-32.68 dBm	-19.68 dB
824.000 MHz	829.000 MHz	100.000 kHz	826.33017 MHz	6.75 dBm	-23.25 dB

Date: 25 JUN.2025 12:31:28

Highest Band Edge / Full RB



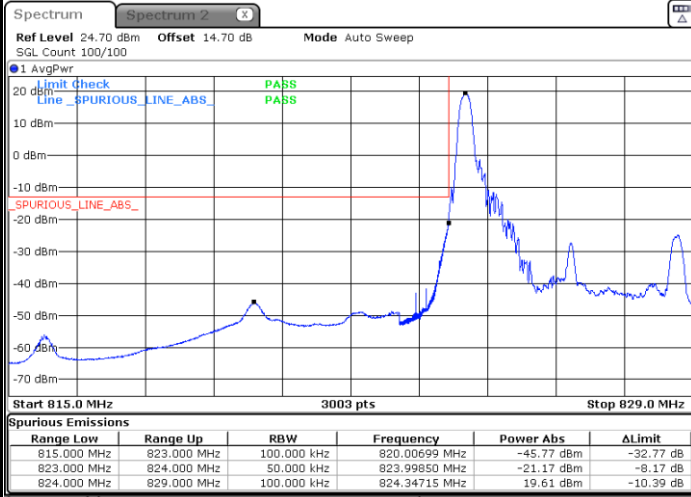
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	846.76474 MHz	6.44 dBm	-23.56 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00749 MHz	-32.12 dBm	-19.12 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.03497 MHz	-32.94 dBm	-19.94 dB

Date: 25 JUN.2025 12:45:07

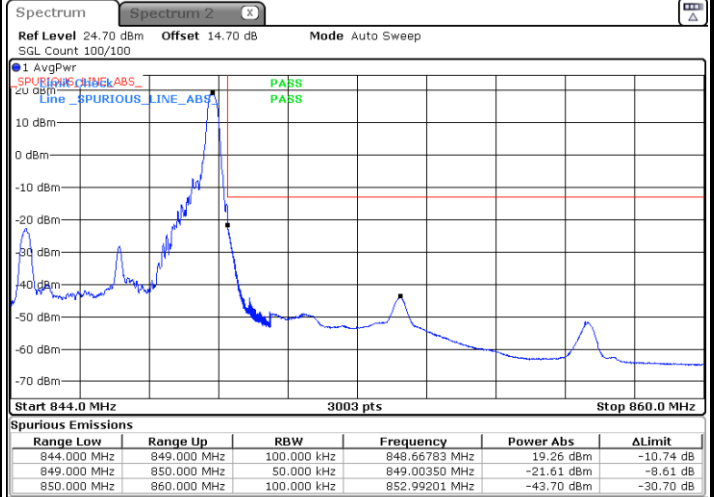


LTE Band 5 / 5MHz / 16QAM

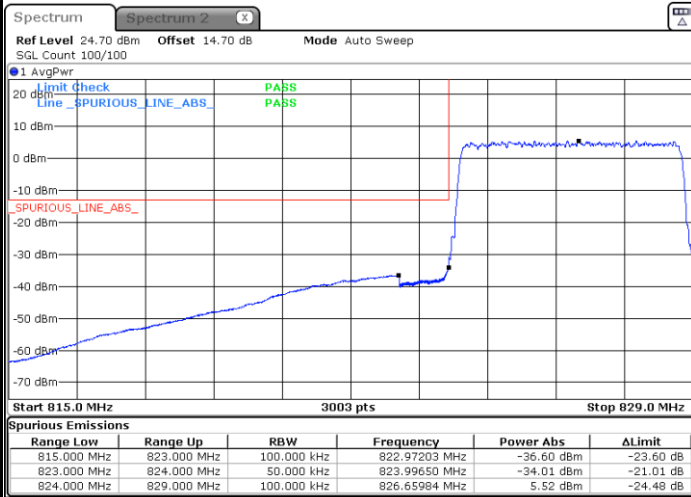
Lowest Band Edge / 1RB



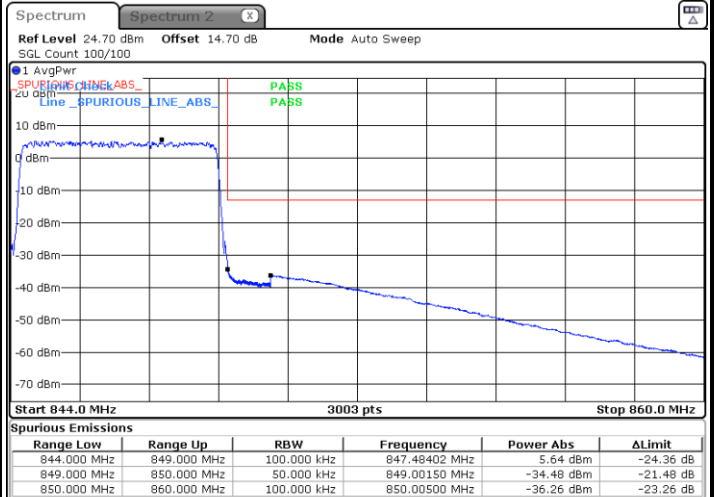
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



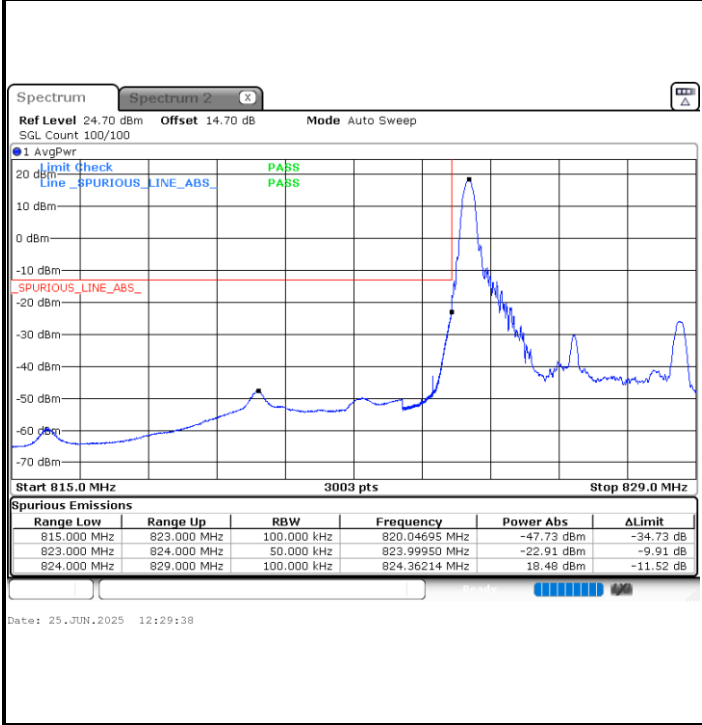
Highest Band Edge / Full RB



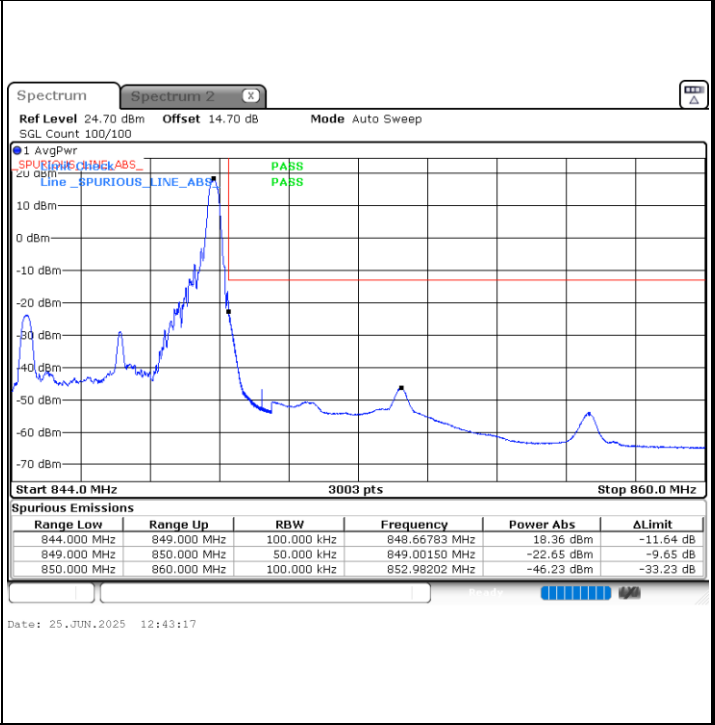


LTE Band 5 / 5MHz / 64QAM

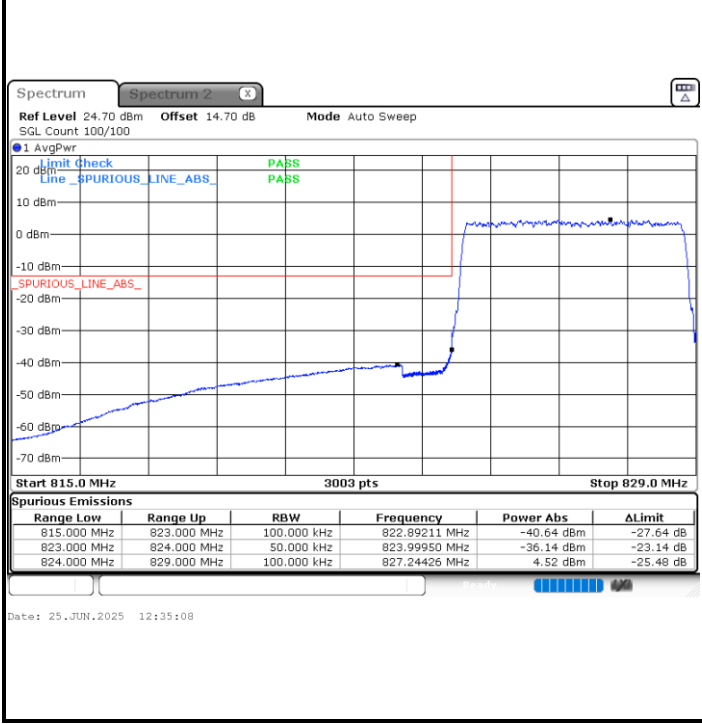
Lowest Band Edge / 1RB



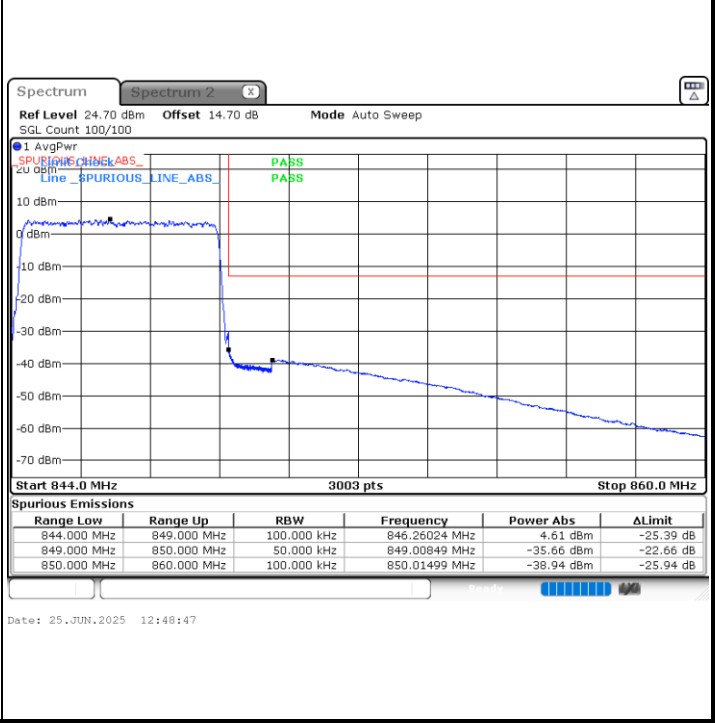
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



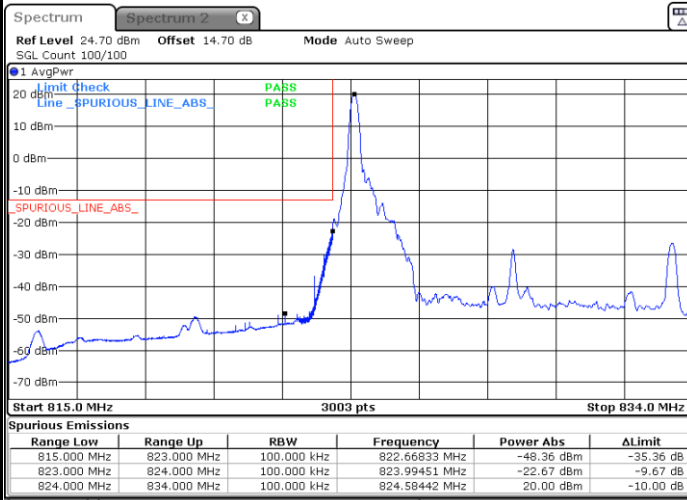
Highest Band Edge / Full RB





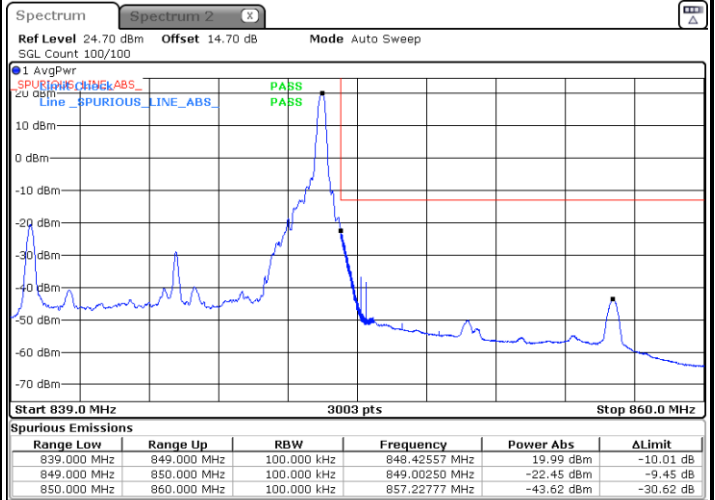
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



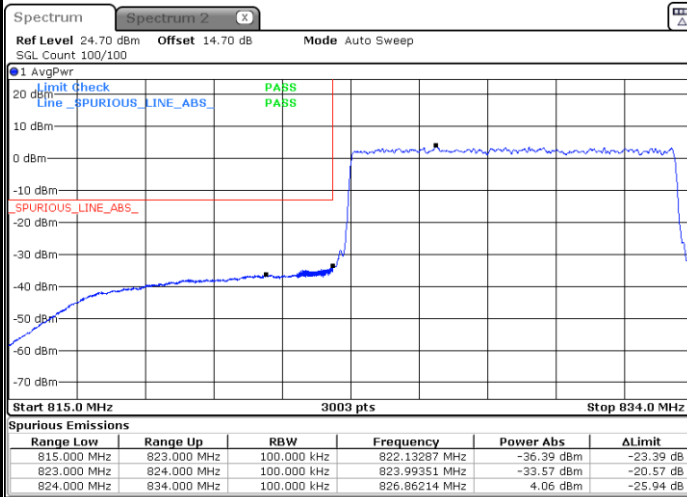
Date: 25 JUN.2025 12:51:58

Highest Band Edge / 1 RB



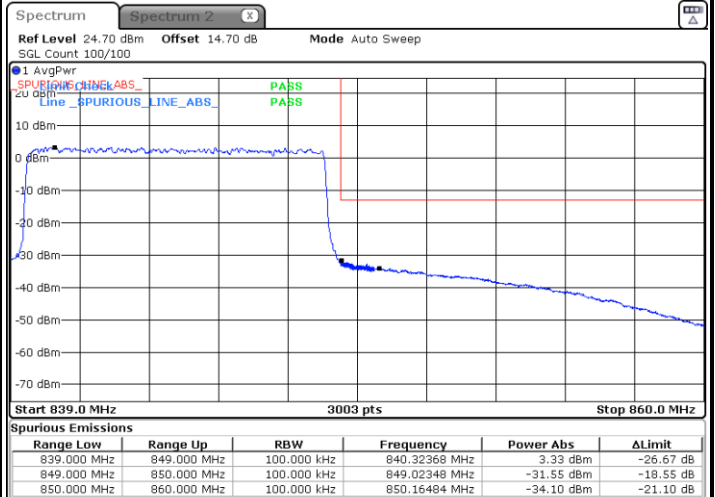
Date: 25 JUN.2025 13:05:38

Lowest Band Edge / Full RB



Date: 25 JUN.2025 12:57:28

Highest Band Edge / Full RB

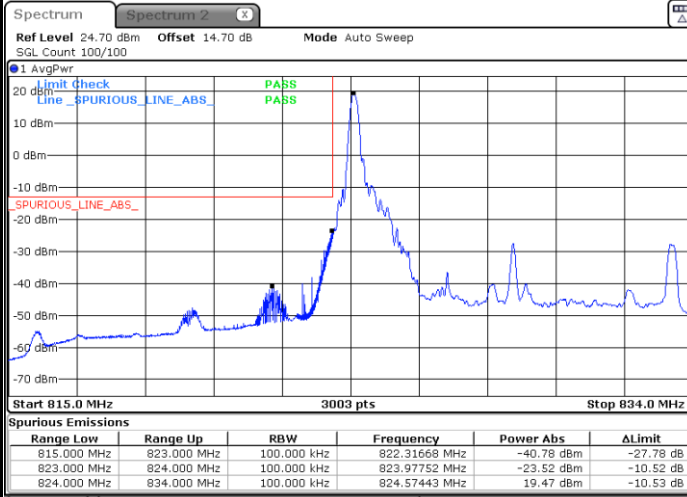


Date: 25 JUN.2025 13:11:09



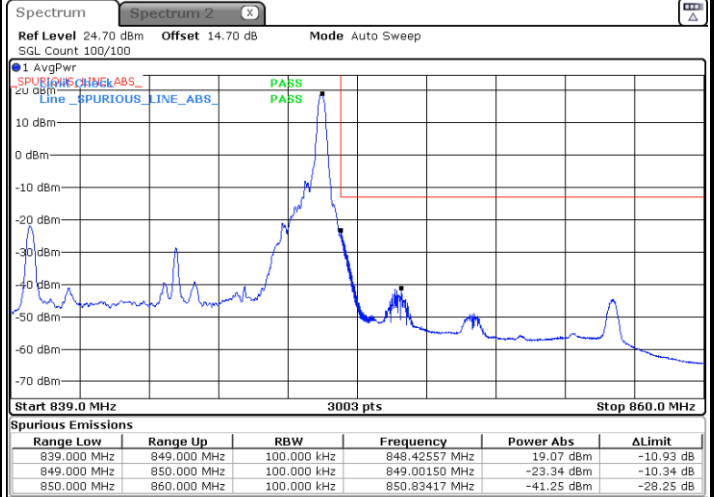
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



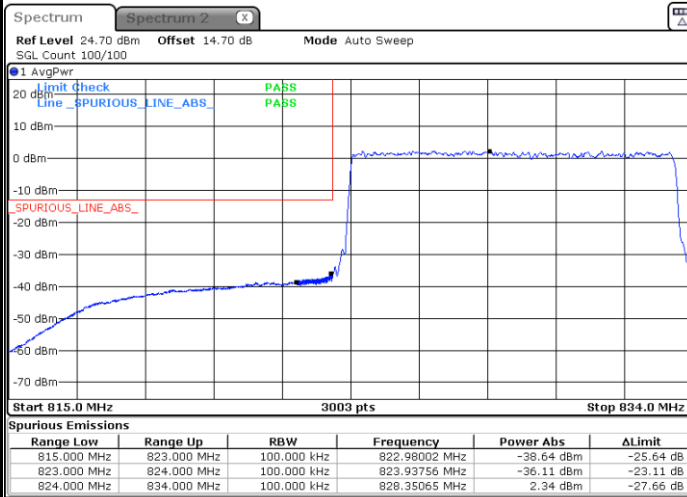
Date: 25 JUN.2025 12:53:48

Highest Band Edge / 1 RB



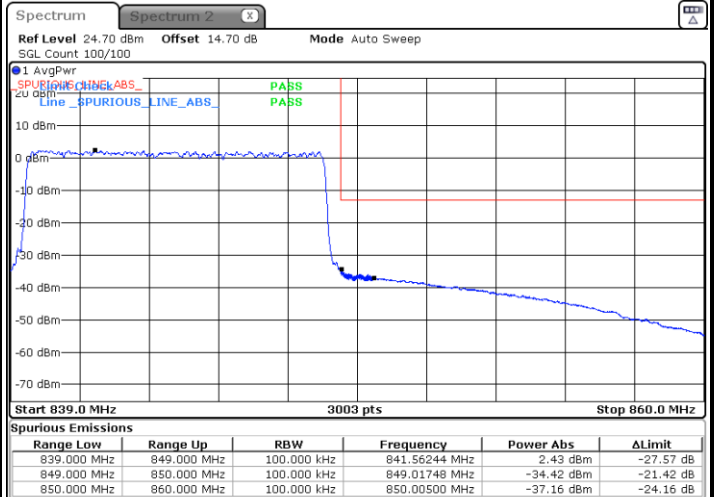
Date: 25 JUN.2025 13:07:28

Lowest Band Edge / Full RB



Date: 25 JUN.2025 12:59:18

Highest Band Edge / Full RB

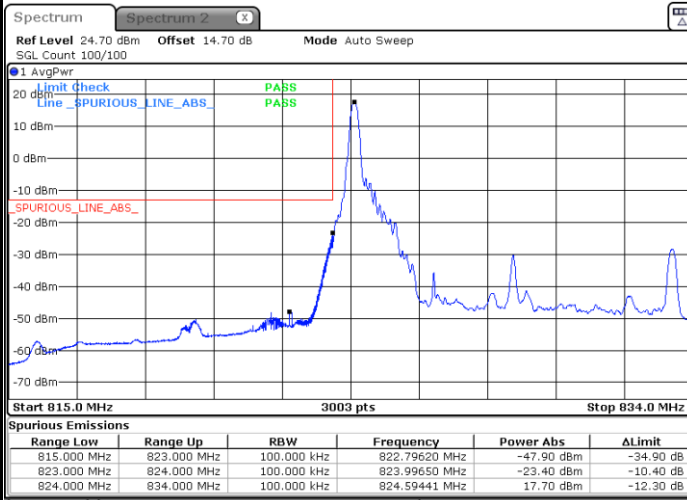


Date: 25 JUN.2025 13:12:59



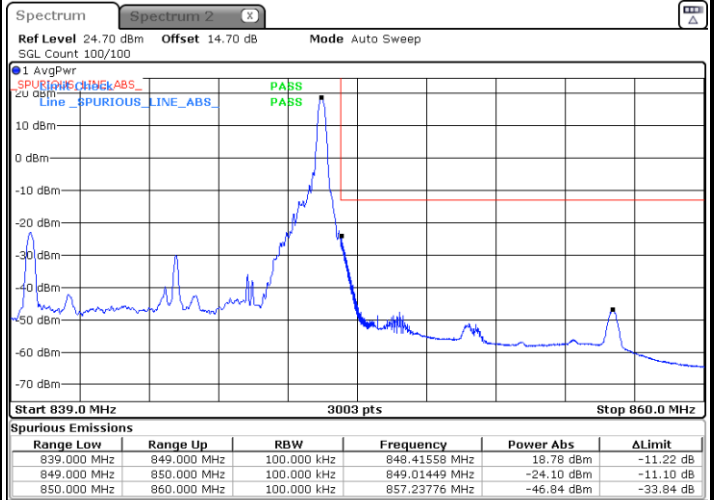
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



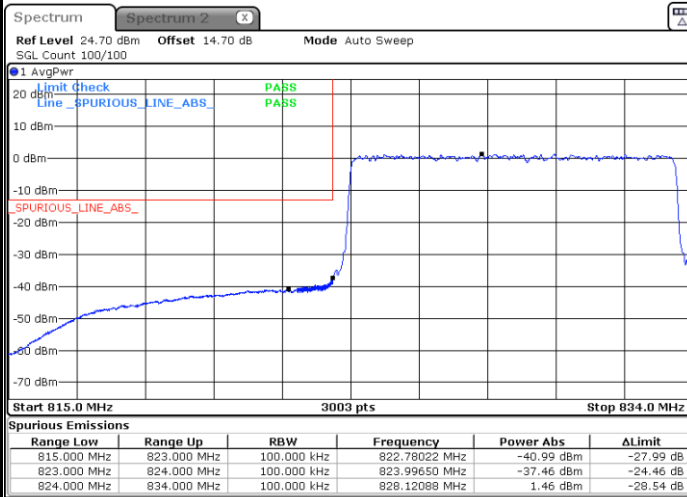
Date: 25 JUN.2025 12:55:38

Highest Band Edge / 1 RB



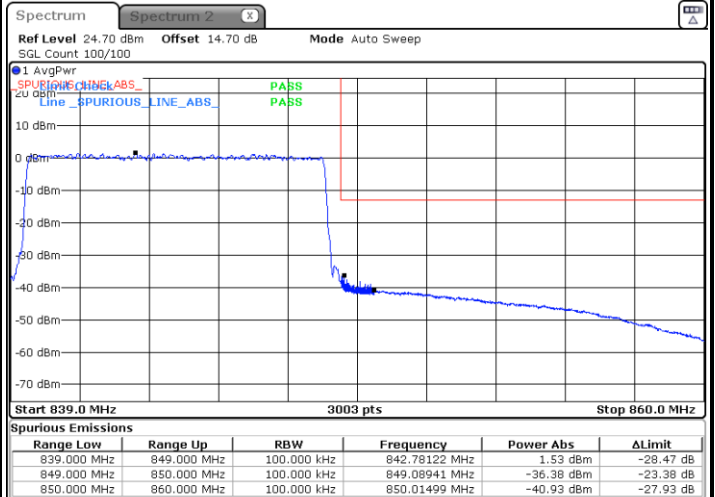
Date: 25 JUN.2025 13:09:18

Lowest Band Edge / Full RB



Date: 25 JUN.2025 13:01:08

Highest Band Edge / Full RB



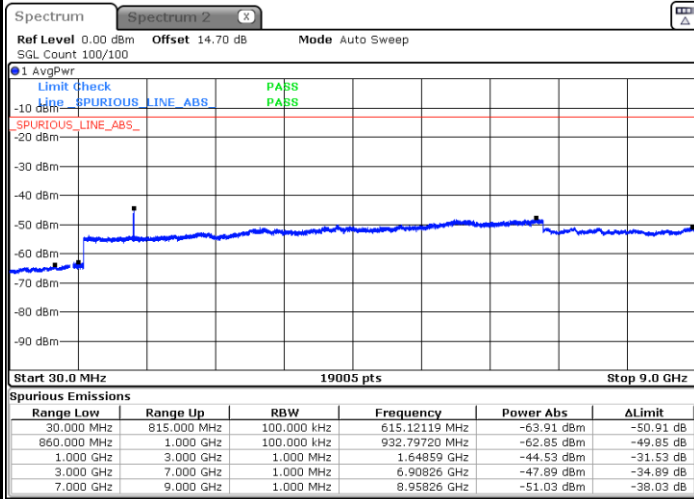
Date: 25 JUN.2025 13:14:49



Conducted Spurious Emission

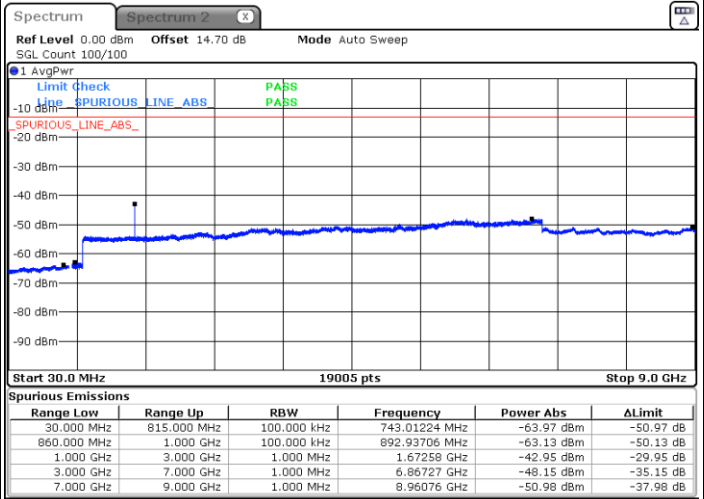
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



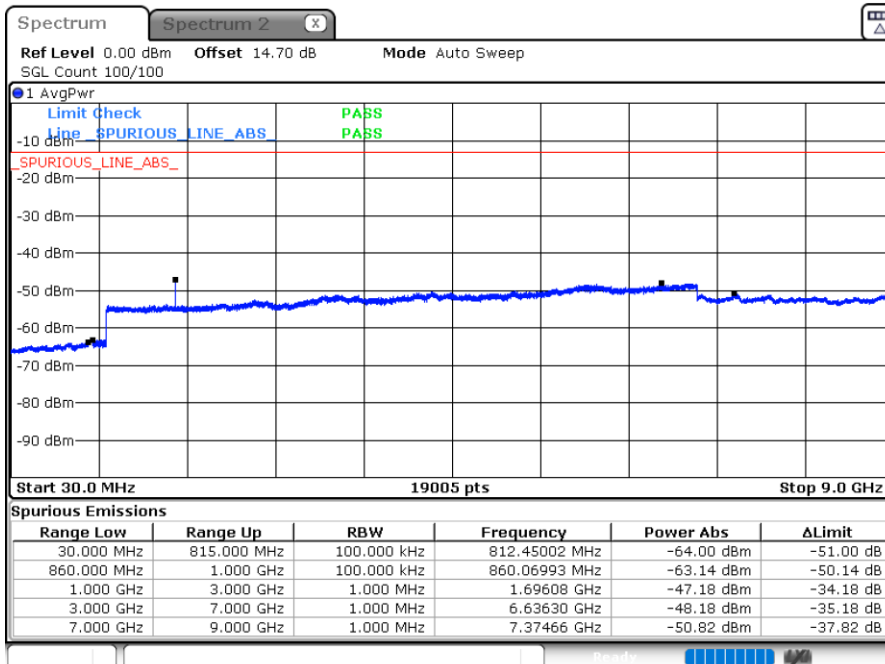
Date: 25 JUN 2025 11:31:54

Middle Channel / QPSK



Date: 25 JUN 2025 11:44:14

Highest Channel / QPSK

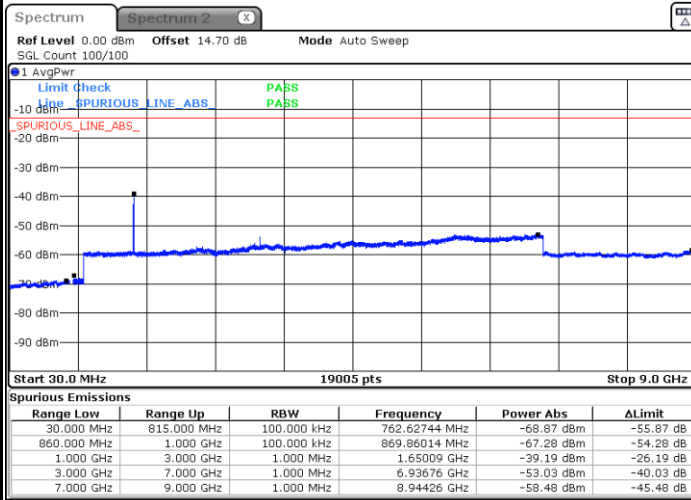


Date: 25 JUN 2025 11:45:34



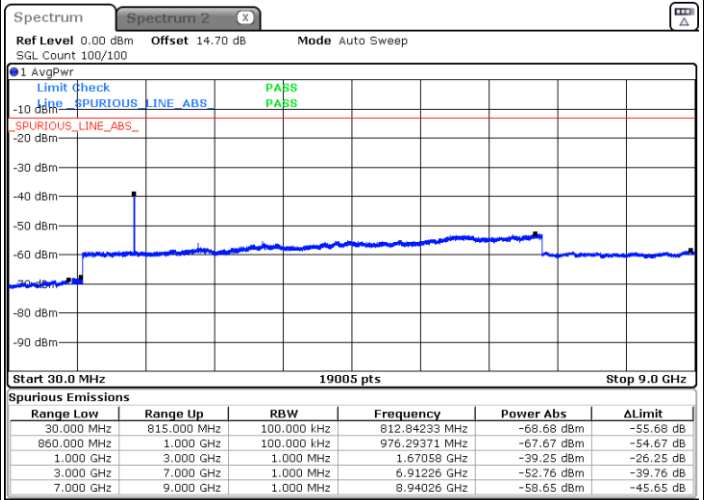
LTE Band 5 / 3MHz

Lowest Channel / QPSK



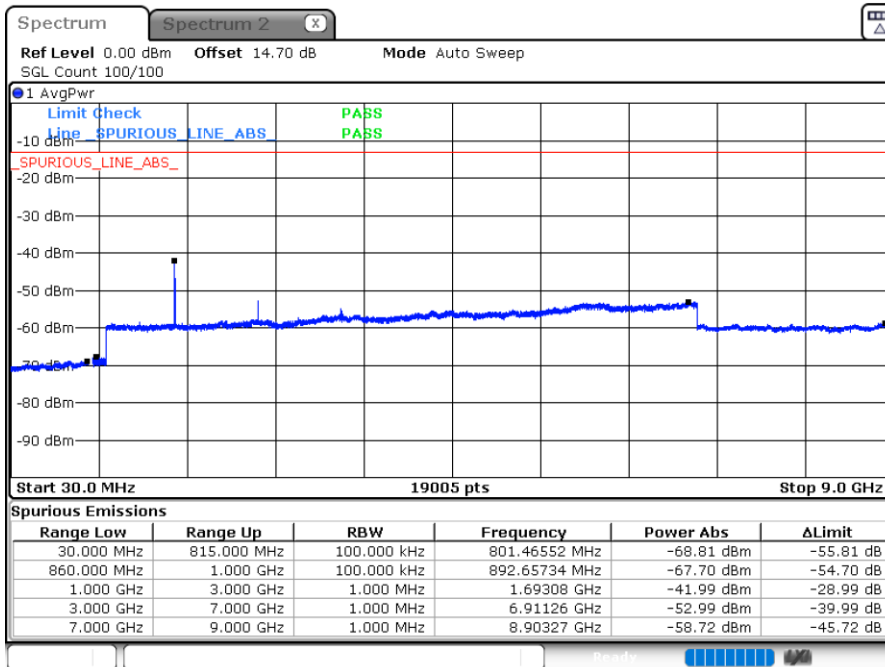
Date: 25 JUN 2025 11:58:08

Middle Channel / QPSK



Date: 25 JUN 2025 12:10:28

Highest Channel / QPSK



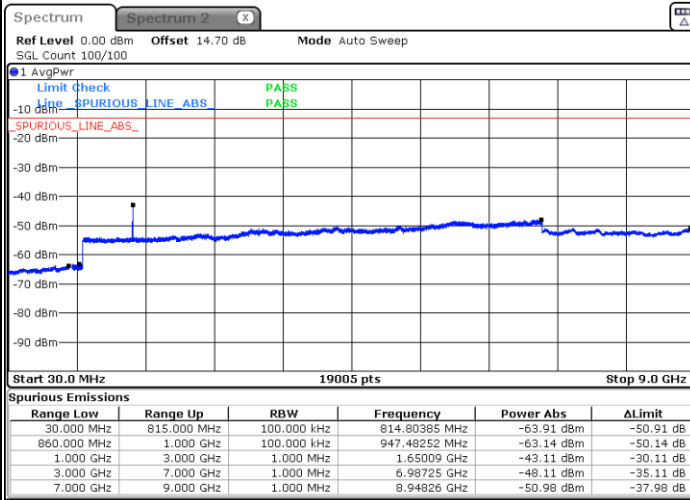
Date: 25 JUN 2025 12:11:47



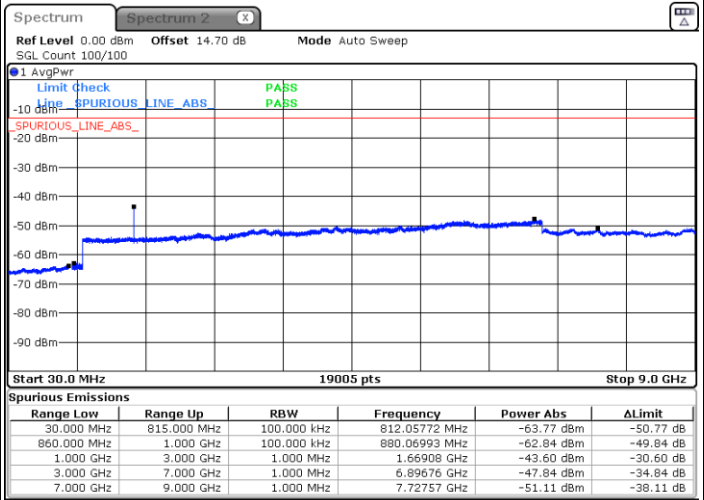
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

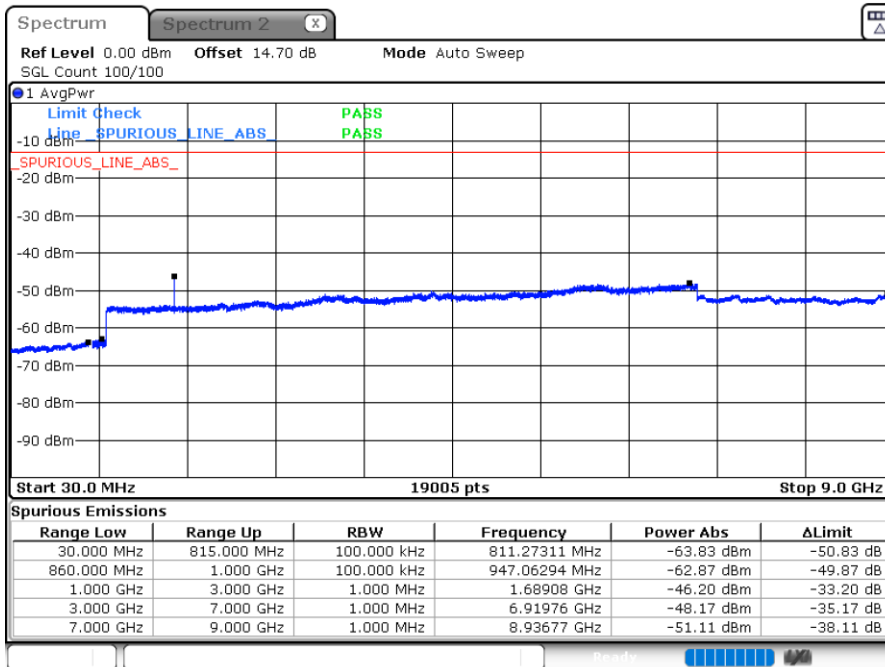


Date: 25 JUN 2025 12:24:08



Date: 25 JUN 2025 12:36:27

Highest Channel / QPSK



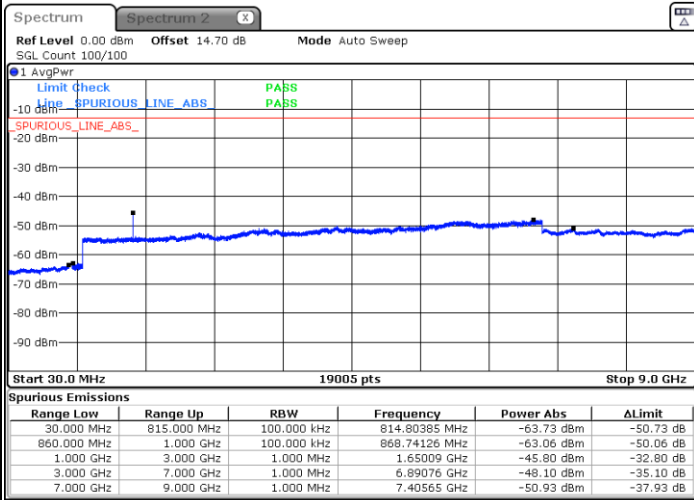
Date: 25 JUN 2025 12:37:47



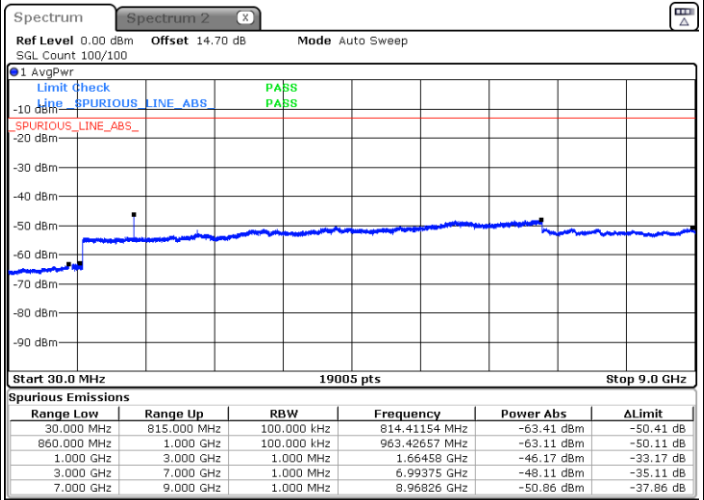
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

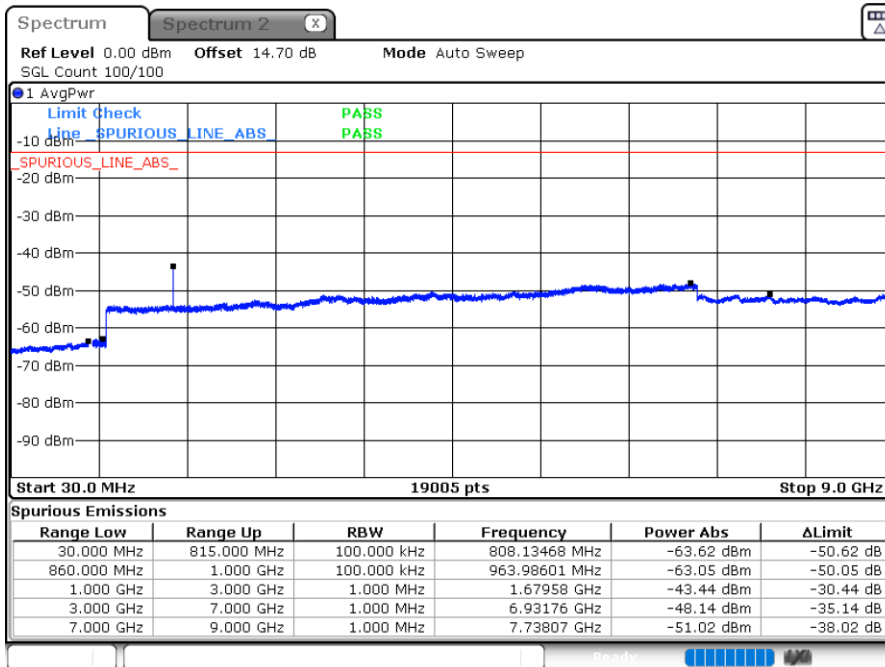


Date: 25 JUN 2025 12:50:08



Date: 25 JUN 2025 13:02:28

Highest Channel / QPSK



Date: 25 JUN 2025 13:03:49



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0031	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0012	

Note:

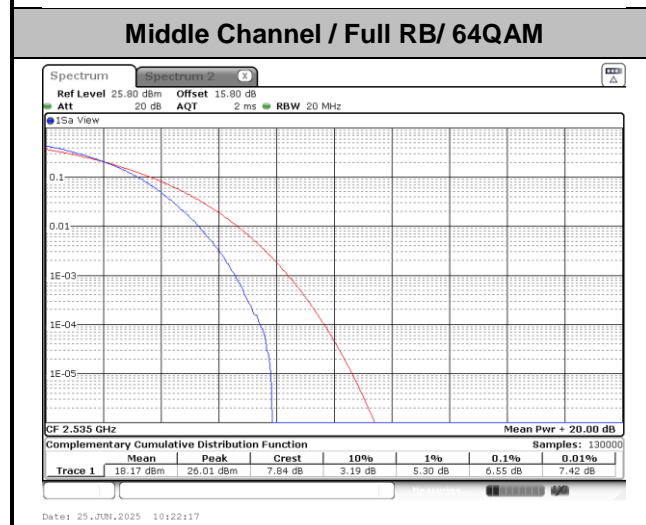
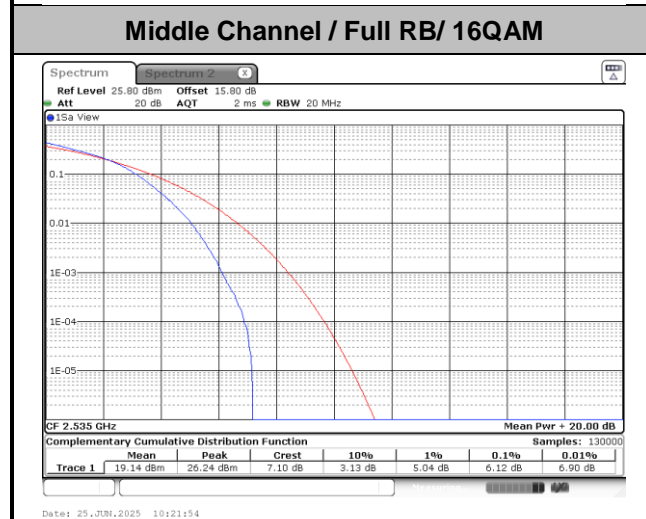
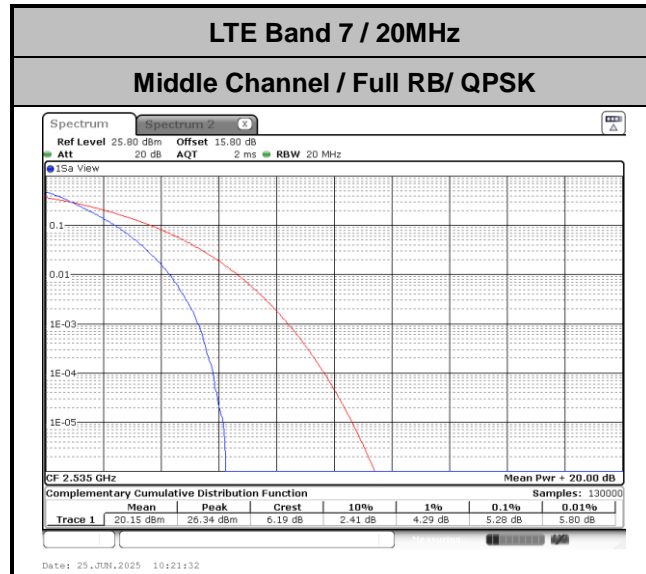
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.5 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

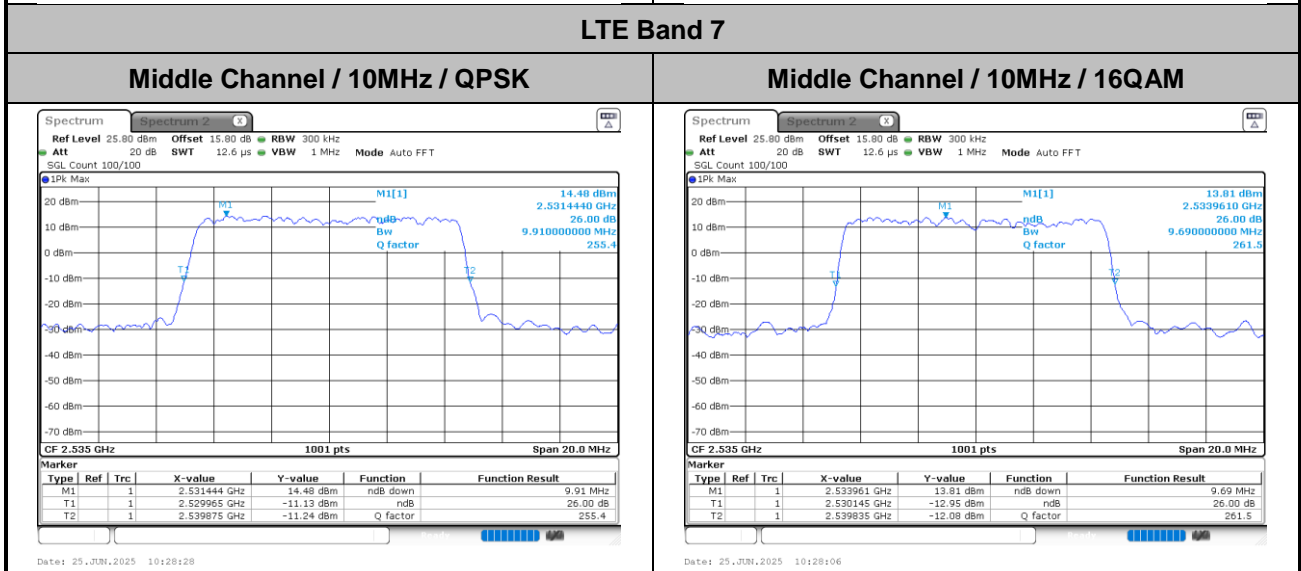
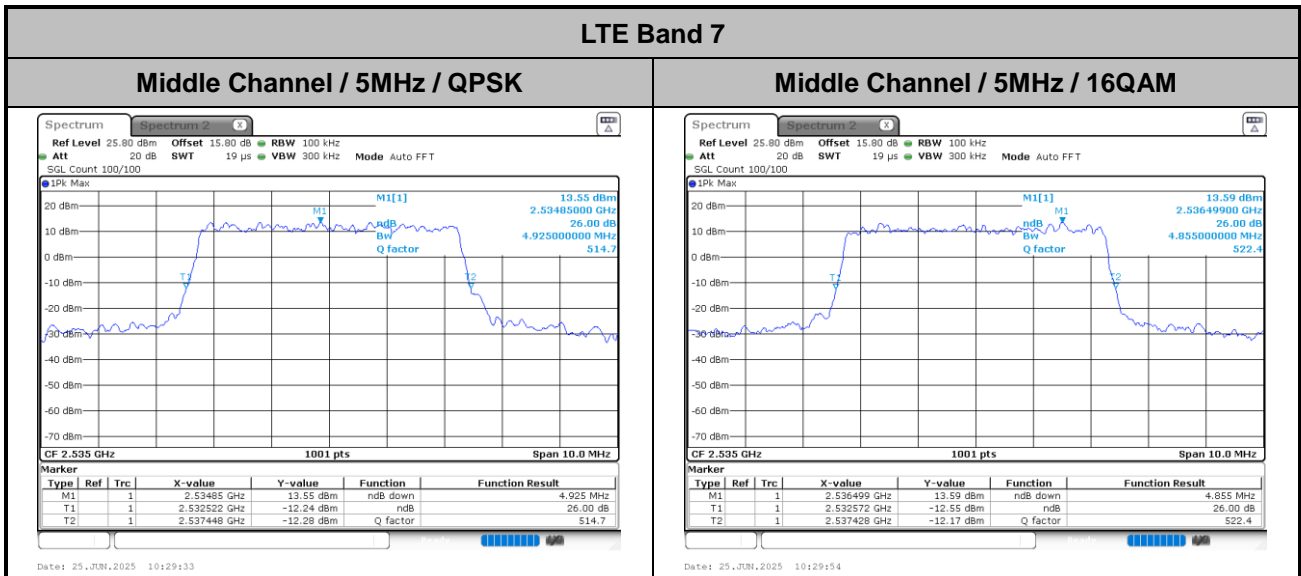
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.28	6.12	6.55	PASS





26dB Bandwidth

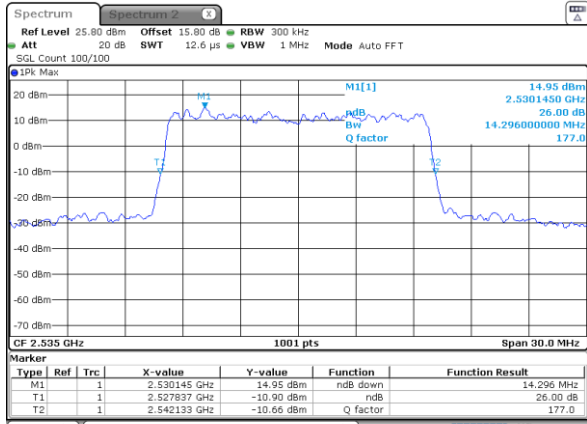
Mode	LTE Band 7 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.93	4.86	9.91	9.69	14.30	14.42	18.98	18.98





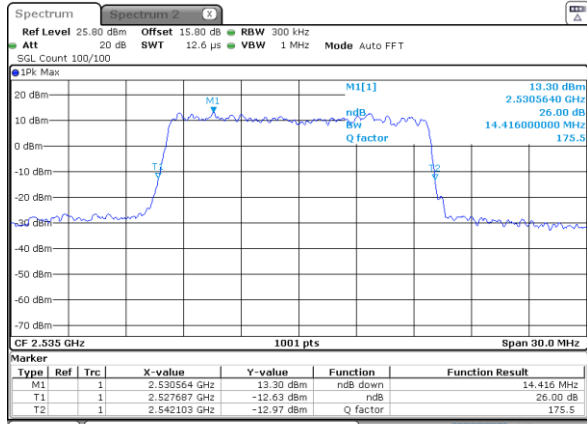
LTE Band 7

Middle Channel / 15MHz / QPSK



Date: 25 JUN 2025 10:26:39

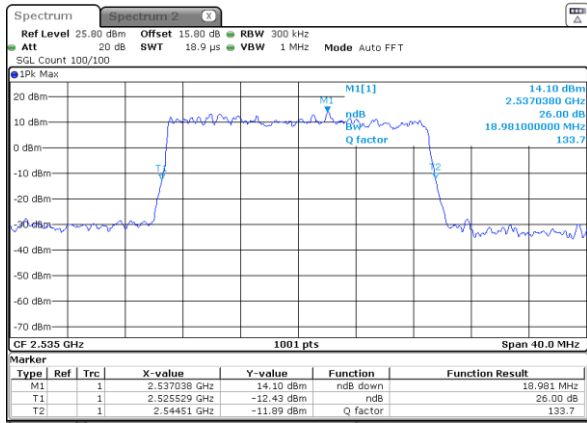
Middle Channel / 15MHz / 16QAM



Date: 25 JUN 2025 10:27:01

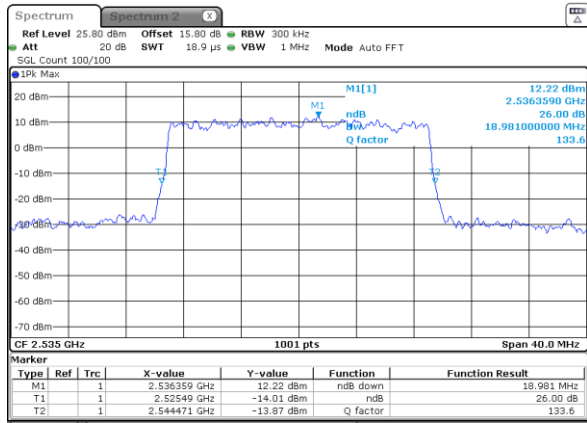
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 25 JUN 2025 10:20:05

Middle Channel / 20MHz / 16QAM



Date: 25 JUN 2025 10:21:09