



FCC RADIO TEST REPORT

FCC ID : A4RGTF7P
Equipment : Phone
Model Name : GTF7P, G3Y12
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2, 24(E), 27

The product was received on Jul. 10, 2024 and testing was performed from Aug. 02, 2024 to Oct. 25, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG451607B	01	Initial issue of report	Oct. 17, 2024
FG451607B	02	Remove LTE Band 66B and 66C This report is an updated version, replacing the report issued on Oct. 17, 2024.	Oct. 21, 2024
FG451607B	03	Revise Section 1.1, 2.1, and Appendix A This report is an updated version, replacing the report issued on Oct. 21, 2024.	Oct. 22, 2024
FG451607B	04	Revise Appendix A and B This report is an updated version, replacing the report issued on Oct. 22, 2024.	Oct. 25, 2024
FG451607B	05	Revise Appendix B This report is an updated version, replacing the report issued on Oct. 25, 2024.	Oct. 28, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2)	Pass	
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §24.238 (a) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)		
3.6	§2.1051 §24.238 (a) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38)		
3.7	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §24.238 (a) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 66)	Pass	24.69 dB under the limit at 7785.00 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38)		

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.
- The GTF7P and G3Y12 are 100% identical in Hardware / Software to each other, and only have different model names for marketing segmentation. The test sample are all model GTF7P.

Reviewed by: William Chen

Report Producer: Rebecca Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS.
Antenna Type WWAN: <Ant. 0>: ILA Antenna <Ant. 1>: ILA Antenna <Ant. 2>: IFA Antenna <Ant. 5>: IFA Antenna

EUT Information List	
S/N	Performed Test Item
46181JEBF10597	Conducted Measurement EIRP/ERP
46181JERF10992	Radiated Spurious Emission

Support band and evaluated information	
Supported band	B2, B4, B5, B7, B12, B17, B26, B38, B41, B66
Evaluated and Tested band	B2, B4, B7C, B38C, B66
Band covered information	RSE frequency band range covers another band when the power is worse as follows: ■ B66 cover B4 (Part 27)

Antenna information						
Band	Ant0	Ant1	Ant2	Ant5	Main Ant. #	Sub Ant. #
B2	-3.0		-1.1		2	0
B4	-0.7		-1.5		2	0
B7	-1.8		-0.4		2	0
B38	-3.1		-0.5		2	0
B66	-0.6		-1.5		2	0

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
3. 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. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Cotty Hsu
Temperature (°C)	22.5~23.7
Relative Humidity (%)	52.4~54.8

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. 03CH23-HY (TAF Code: 3786)
Test Engineer	Leo Li and Lucifer Jiang
Temperature (°C)	19.4~21.1
Relative Humidity (%)	44.7~65.1
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and 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, 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

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 X Plane with Adapter for LTE Band 7C and LTE Band 38C, Z Plane with Adapter for LTE Band 2, and Z Plane without Accessory for LTE Band 66 as worst plane.

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

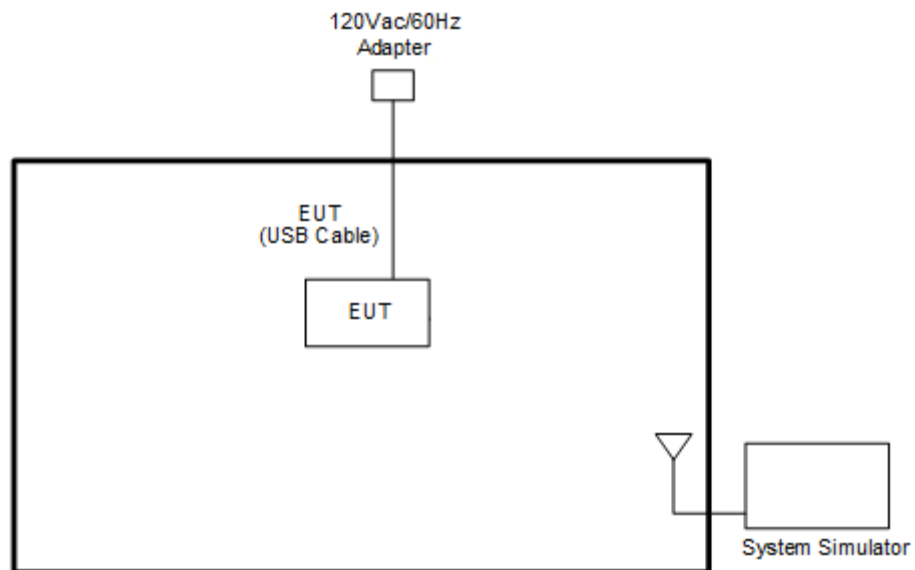
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	20 MHz or less	Full	M
Bandwidth	A, B, C, D	All	Full	M
CBE	A, B, C, D	Minimum	1RB	L, H
		All	Full	L, H
CSE	A	All	1RB	L, M, H
Frequency Stability	A	10 MHz	Full	M
RSE	A	20 MHz or less	1RB	L, M, H

Remark:

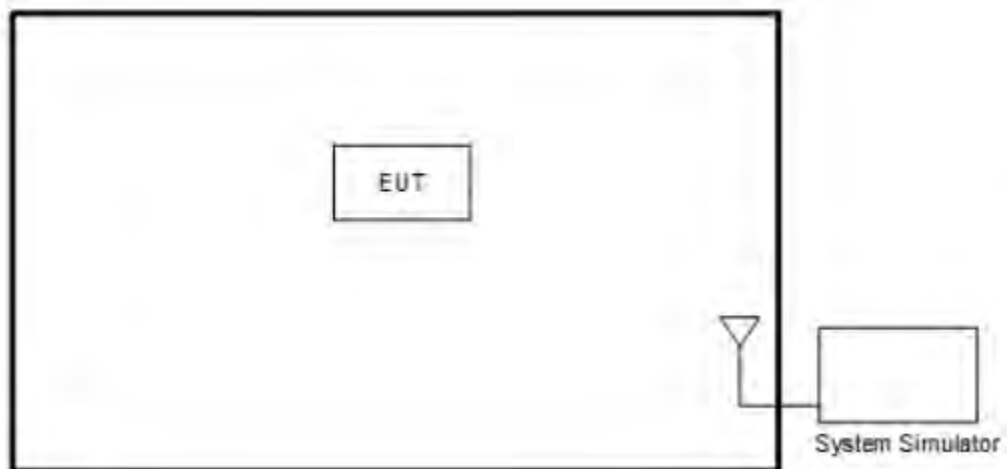
1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only 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.
4. All the radiated test cases were performed USB Cable 2.

2.2 Connection Diagram of Test System

<EUT with Adapter>



<EUT without Accessory>





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).

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3



LTE Band 7C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 38C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

3 Conducted Test Items

3.1 Measuring Instruments

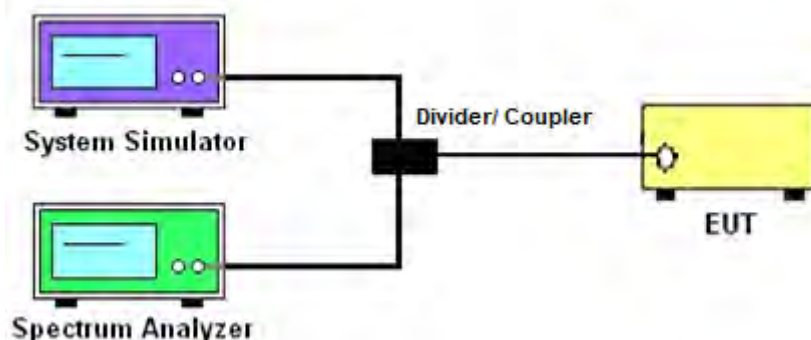
See list of measuring instruments of this test report.

3.1.1 Test Setup

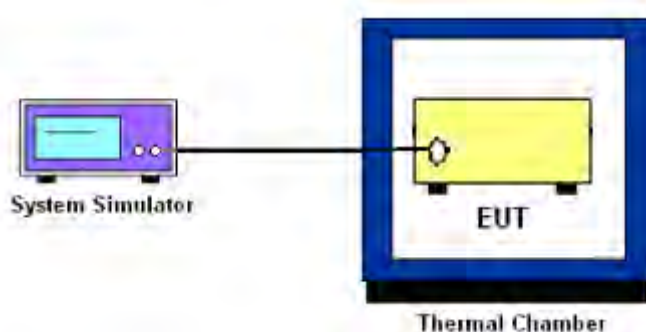
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge 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 EIRP

3.2.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 7, Band 38

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, Band 66

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.



3.3 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

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the 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 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz 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.

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 $\geq 1\%$ 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.

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

For LTE Band 7, 38

The other 40 dB, and 55 dB have additionally applied same calculation above.



3.6 Conducted Spurious Emission

3.6.1 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 LTE Band 7, 38

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.

3.6.2 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 GHz, 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 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.

3.7.3 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.

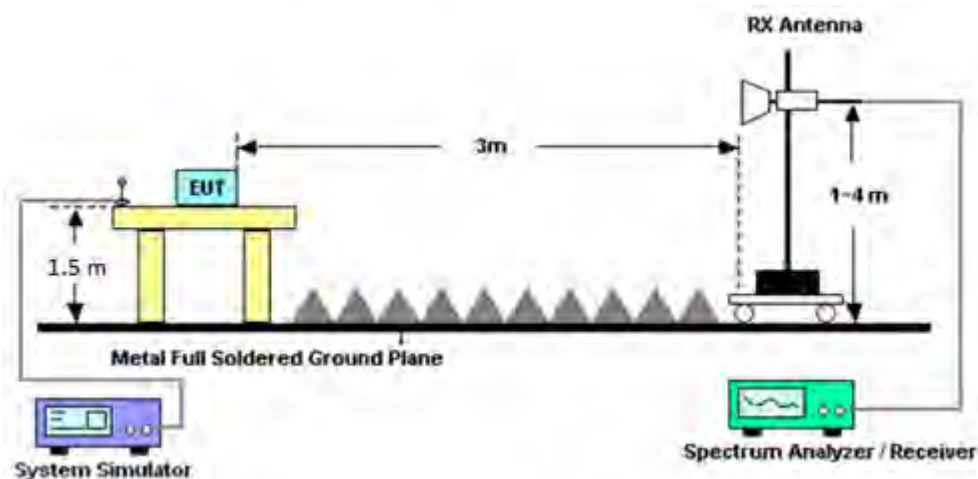
4 Radiated Test Items

4.1 Measuring Instruments

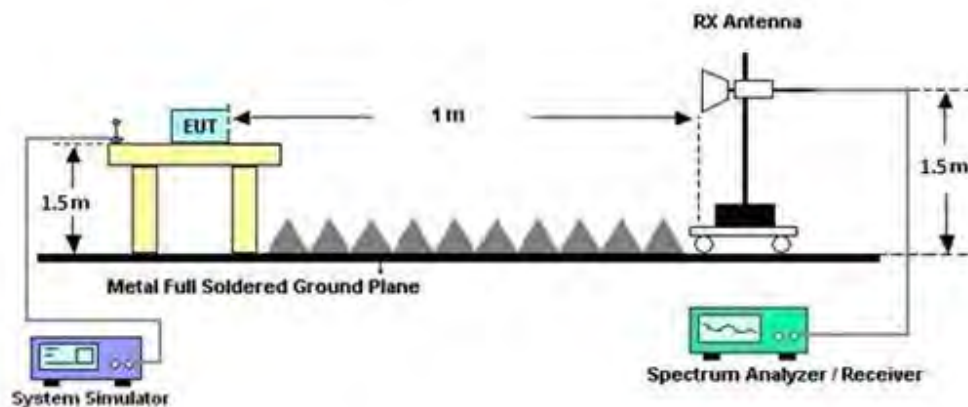
See list of measuring instruments of this test report.

4.1.1 Test Setup

For radiated test 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.

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.

1. 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.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. 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)
For LTE Band 7, 38
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



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	100488	9 kHz~30 MHz	Sep. 12, 2023	Aug. 13, 2024~ Aug. 28, 2024	Sep. 11, 2024	Radiation (03CH23-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Aug. 29, 2024~ Oct. 25, 2024	Aug. 28, 2025	Radiation (03CH23-HY)
Bilog Antenna with 6dB pad	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	N/A	Oct. 15, 2023	Aug. 13, 2024~ Oct. 13, 2024	Oct. 14, 2024	Radiation (03CH23-HY)
Bilog Antenna with 6dB pad	TESEQ & WOKEN	CBL 6111D & 00800N1D01N -06	37059 & 01	N/A	Nov. 03, 2023	Oct. 14, 2024~ Oct. 25, 2024	Nov. 02, 2024	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	N/A	Jul. 14, 2024	Aug. 13, 2024~ Oct. 25, 2024	Jul. 13, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18E N	1GHz~18GHz	Jun. 20, 2024	Aug. 13, 2024~ Oct. 25, 2024	Jun. 19, 2025	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2023	Aug. 13, 2024~ Oct. 25, 2024	Nov. 23, 2024	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	1223	18GHz~40GHz	Jun. 24, 2024	Aug. 13, 2024~ Oct. 25, 2024	Jun. 23, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 28, 2023	Aug. 13, 2024~ Sep. 26, 2024	Sep. 27, 2024	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Sep. 27, 2024~ Oct. 25, 2024	Sep. 26, 2025	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060871	18-40GHz	Sep. 06, 2023	Aug. 13, 2024~ Aug. 19, 2024	Sep. 05, 2024	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	May 27, 2024	Aug. 20, 2024~ Oct. 25, 2024	May 26, 2025	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010A	MY54200485	N/A	May 13, 2024	Aug. 13, 2024~ Oct. 25, 2024	May 12, 2025	Radiation (03CH23-HY)
Switch Box	MVE	MSW-F205	D70001S	N/A	Aug. 08, 2024	Aug. 13, 2024~ Oct. 25, 2024	Aug. 07, 2025	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303B	TP211542	N/A	Oct. 30, 2023	Aug. 13, 2024~ Oct. 25, 2024	Oct. 29, 2024	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 13, 2024~ Oct. 25, 2024	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Aug. 13, 2024~ Oct. 25, 2024	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Aug. 13, 2024~ Oct. 25, 2024	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019 122	RK-002348	N/A	N/A	Aug. 13, 2024~ Oct. 25, 2024	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Aug. 13, 2024~ Oct. 25, 2024	Mar. 05, 2025	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 27, 2023	Aug. 13, 2024~ Oct. 25, 2024	Nov. 26, 2024	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/2311 19/231122	N/A	Nov. 27, 2023	Aug. 13, 2024~ Oct. 25, 2024	Nov. 26, 2024	Radiation (03CH23-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 03, 2023	Aug. 02, 2024~ Sep. 30, 2024	Oct. 02, 2024	Conducted (TH03-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	Oct. 01, 2024~ Oct. 24, 2024	Sep. 30, 2025	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 04, 2023	Aug. 02, 2024~ Sep. 02, 2024	Sep. 03, 2024	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 06, 2024	Sep. 06, 2024~ Oct. 24, 2024	Sep. 05, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V : 0A~6A	Nov. 28, 2023	Aug. 02, 2024~ Oct. 24, 2024	Nov. 27, 2024	Conducted (TH03-HY)
Coupler+10dB + RFCable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+S FL405_1.5M	#A+#1+#1+# 7	1-18GHz	Jan. 02, 2024	Aug. 02, 2024~ Oct. 24, 2024	Jan. 01, 2025	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 11, 2024	Aug. 02, 2024~ Oct. 24, 2024	Jul. 10, 2025	Conducted (TH03-HY)
Software	Anritsu	Auto Test System	N/A	Conducted Test Item	N/A	Aug. 02, 2024~ Oct. 24, 2024	N/A	Conducted (TH03-HY)



6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.56 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.19 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

<Ant. 2>

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.31	23.32	23.27	22.22	0.1667
20	1	49		23.17	23.15	23.08		
20	1	99		23.20	23.16	23.02		
20	50	0		22.30	22.31	22.26		
20	50	24		22.28	22.24	22.20		
20	50	50		22.24	22.25	22.13		
20	100	0		22.29	22.30	22.20		
20	1	0	16-QAM	22.67	22.47	22.49	21.57	0.1435
20	1	49		22.47	22.34	22.29		
20	1	99		22.52	22.52	22.33		
20	50	0		21.33	21.24	21.25		
20	50	24		21.32	21.26	21.24		
20	50	50		21.28	21.31	21.19		
20	100	0		21.29	21.28	21.23		
20	1	0	64-QAM	22.61	21.50	21.62	21.51	0.1416
20	1	49		22.14	21.49	21.46		
20	1	99		21.55	21.59	21.37		
20	50	0		20.41	20.34	20.32		
20	50	24		20.37	20.33	20.30		
20	50	50		20.35	20.29	20.27		
20	100	0		20.36	20.32	20.31		
20	1	0	256-QAM	18.31	18.22	18.42	17.32	0.0540
20	1	49		18.22	18.23	18.26		
20	1	99		18.35	18.29	18.12		
20	50	0		18.31	18.25	18.33		
20	50	24		18.30	18.24	18.25		
20	50	50		18.25	18.26	18.21		
20	100	0		18.35	18.28	18.22		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.30	23.26	23.24	22.20	0.1660
15	1	37		23.23	23.09	23.07		
15	1	74		23.24	23.18	23.02		
15	36	0		22.38	22.25	22.28		
15	36	20		22.33	22.26	22.21		
15	36	39		22.30	22.27	22.18		
15	75	0		22.31	22.30	22.24		
15	1	0	16-QAM	22.58	22.50	22.57	21.48	0.1406
15	1	37		22.48	22.44	22.44		
15	1	74		22.46	22.55	22.41		
15	36	0		21.30	21.26	21.28		
15	36	20		21.30	21.31	21.26		
15	36	39		21.31	21.33	21.23		
15	75	0		21.34	21.35	21.27		
15	1	0	64-QAM	21.64	21.50	21.54	20.54	0.1132
15	1	37		21.51	21.50	21.34		
15	1	74		21.52	21.55	21.36		
15	36	0		20.40	20.36	20.37		
15	36	20		20.36	20.32	20.32		
15	36	39		20.32	20.33	20.29		
15	75	0		20.33	20.36	20.34		
15	1	0	256-QAM	18.23	18.14	18.37	17.27	0.0533
15	1	37		18.16	18.14	18.23		
15	1	74		18.27	18.20	18.08		
15	36	0		18.25	18.24	18.31		
15	36	20		18.28	18.17	18.23		
15	36	39		18.16	18.16	18.11		
15	75	0		18.33	18.19	18.15		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.29	23.28	23.27	22.19	0.1656
10	1	25		23.23	23.17	23.05		
10	1	49		23.22	23.25	23.07		
10	25	0		22.27	22.24	22.26		
10	25	12		22.26	22.24	22.21		
10	25	25		22.23	22.24	22.15		
10	50	0		22.25	22.27	22.24		
10	1	0	16-QAM	22.64	22.55	22.60	21.54	0.1426
10	1	25		22.42	22.50	22.45		
10	1	49		22.47	22.58	22.39		
10	25	0		21.29	21.27	21.27		
10	25	12		21.28	21.27	21.26		
10	25	25		21.24	21.28	21.27		
10	50	0		21.25	21.22	21.29		
10	1	0	64-QAM	21.56	21.47	21.57	20.47	0.1114
10	1	25		21.37	21.40	21.43		
10	1	49		21.44	21.53	21.42		
10	25	0		20.26	20.31	20.31		
10	25	12		20.30	20.31	20.29		
10	25	25		20.27	20.30	20.29		
10	50	0		20.32	20.29	20.34		
10	1	0	256-QAM	18.28	18.13	18.40	17.30	0.0537
10	1	25		18.16	18.15	18.25		
10	1	49		18.34	18.22	18.02		
10	25	0		18.24	18.18	18.32		
10	25	12		18.24	18.14	18.16		
10	25	25		18.19	18.25	18.14		
10	50	0		18.26	18.27	18.20		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.28	23.22	23.22	22.18	0.1652
5	1	12		23.22	23.14	23.08		
5	1	24		23.23	23.22	23.09		
5	12	0		22.35	22.27	22.26		
5	12	7		22.34	22.28	22.24		
5	12	13		22.31	22.29	22.20		
5	25	0		22.24	22.23	22.18		
5	1	0	16-QAM	22.51	22.55	22.52	21.45	0.1396
5	1	12		22.53	22.47	22.51		
5	1	24		22.50	22.53	22.41		
5	12	0		21.28	21.28	21.26		
5	12	7		21.29	21.31	21.31		
5	12	13		21.27	21.34	21.30		
5	25	0		21.30	21.32	21.25		
5	1	0	64-QAM	21.52	21.54	21.60	20.50	0.1122
5	1	12		21.42	21.47	21.47		
5	1	24		21.44	21.59	21.51		
5	12	0		20.33	20.32	20.32		
5	12	7		20.33	20.32	20.28		
5	12	13		20.31	20.30	20.30		
5	25	0		20.31	20.29	20.32		
5	1	0	256-QAM	18.29	18.20	18.37	17.27	0.0533
5	1	12		18.12	18.20	18.24		
5	1	24		18.31	18.27	18.07		
5	12	0		18.22	18.21	18.24		
5	12	7		18.21	18.23	18.24		
5	12	13		18.18	18.22	18.12		
5	25	0		18.25	18.23	18.20		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.24	23.27	23.26	22.17	0.1648
3	1	8		23.11	23.12	23.04		
3	1	14		23.17	23.20	23.08		
3	8	0		22.23	22.25	22.17		
3	8	4		22.24	22.21	22.20		
3	8	7		22.27	22.26	22.21		
3	15	0		22.27	22.25	22.21		
3	1	0	16-QAM	22.57	22.61	22.57	21.51	0.1416
3	1	8		22.44	22.47	22.37		
3	1	14		22.51	22.57	22.47		
3	8	0		21.29	21.25	21.20		
3	8	4		21.27	21.30	21.20		
3	8	7		21.30	21.34	21.22		
3	15	0		21.25	21.31	21.20		
3	1	0	64-QAM	21.50	21.53	21.41	20.43	0.1104
3	1	8		21.41	21.45	21.28		
3	1	14		21.45	21.51	21.36		
3	8	0		20.31	20.28	20.21		
3	8	4		20.31	20.28	20.21		
3	8	7		20.31	20.29	20.23		
3	15	0		20.31	20.28	20.26		
3	1	0	256-QAM	18.25	18.14	18.36	17.26	0.0532
3	1	8		18.20	18.14	18.24		
3	1	14		18.29	18.21	18.05		
3	8	0		18.26	18.24	18.32		
3	8	4		18.24	18.14	18.15		
3	8	7		18.16	18.24	18.20		
3	15	0		18.27	18.18	18.15		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.27	23.17	23.15	22.17	0.1648
1.4	1	3		23.21	23.12	23.01		
1.4	1	5		23.22	23.19	23.04		
1.4	3	0		23.16	23.12	23.02		
1.4	3	1		23.20	23.19	23.03		
1.4	3	3		23.14	23.15	23.00		
1.4	6	0		22.17	22.17	22.07		
1.4	1	0	16-QAM	22.48	22.49	22.39	21.39	0.1377
1.4	1	3		22.40	22.41	22.28		
1.4	1	5		22.42	22.46	22.35		
1.4	3	0		22.17	22.22	22.10		
1.4	3	1		22.28	22.24	22.17		
1.4	3	3		22.25	22.26	22.11		
1.4	6	0		21.22	21.19	21.09		
1.4	1	0	64-QAM	21.39	21.48	21.33	20.38	0.1091
1.4	1	3		21.32	21.35	21.26		
1.4	1	5		21.42	21.48	21.38		
1.4	3	0		21.26	21.32	21.20		
1.4	3	1		21.33	21.29	21.19		
1.4	3	3		21.31	21.34	21.21		
1.4	6	0		20.21	20.22	20.05		
1.4	1	0	256-QAM	18.31	18.21	18.25	17.21	0.0526
1.4	1	3		18.29	18.18	18.11		
1.4	1	5		18.26	18.25	18.20		
1.4	3	0		18.26	18.20	18.12		
1.4	3	1		18.27	18.16	18.12		
1.4	3	3		18.22	18.16	18.11		
1.4	6	0		18.21	18.23	18.12		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.31	24.36	24.28	22.86	0.1932
20	1	49		24.09	24.15	24.15		
20	1	99		23.99	24.11	24.14		
20	50	0		23.29	23.32	23.25		
20	50	24		23.22	23.27	23.24		
20	50	50		23.15	23.21	23.21		
20	100	0		23.23	23.27	23.26		
20	1	0	16-QAM	23.53	23.47	23.40	22.03	0.1596
20	1	49		23.17	23.31	23.21		
20	1	99		23.12	23.31	23.26		
20	50	0		22.26	22.28	22.24		
20	50	24		22.22	22.26	22.22		
20	50	50		22.15	22.19	22.18		
20	100	0		22.20	22.23	22.23		
20	1	0	64-QAM	22.61	22.52	22.44	21.11	0.1291
20	1	49		22.32	22.43	22.33		
20	1	99		22.20	22.43	22.36		
20	50	0		21.30	21.34	21.29		
20	50	24		21.26	21.30	21.28		
20	50	50		21.18	21.25	21.26		
20	100	0		21.23	21.27	21.23		
20	1	0	256-QAM	19.31	19.35	19.15	17.85	0.0610
20	1	49		18.95	19.26	19.08		
20	1	99		19.15	19.26	19.14		
20	50	0		19.22	19.22	19.13		
20	50	24		19.21	19.21	19.20		
20	50	50		19.16	19.20	19.18		
20	100	0		19.21	19.26	19.18		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	24.24	24.24	24.17	22.74	0.1879
15	1	37		23.99	24.01	24.01		
15	1	74		24.00	24.10	24.12		
15	36	0		23.23	23.29	23.24		
15	36	20		23.18	23.24	23.21		
15	36	39		23.13	23.22	23.22		
15	75	0		23.22	23.29	23.26		
15	1	0	16-QAM	23.44	23.51	23.49	22.01	0.1589
15	1	37		23.38	23.38	23.43		
15	1	74		23.28	23.36	23.39		
15	36	0		22.24	22.27	22.25		
15	36	20		22.19	22.25	22.24		
15	36	39		22.16	22.24	22.22		
15	75	0		22.22	22.27	22.24		
15	1	0	64-QAM	22.42	22.42	22.39	20.93	0.1239
15	1	37		22.34	22.26	22.28		
15	1	74		22.28	22.32	22.43		
15	36	0		21.28	21.32	21.29		
15	36	20		21.21	21.27	21.26		
15	36	39		21.17	21.26	21.24		
15	75	0		21.22	21.29	21.26		
15	1	0	256-QAM	19.29	19.34	19.05	17.84	0.0608
15	1	37		18.90	19.16	19.02		
15	1	74		19.08	19.22	19.08		
15	36	0		19.21	19.12	19.07		
15	36	20		19.12	19.15	19.18		
15	36	39		19.11	19.14	19.12		
15	75	0		19.19	19.20	19.11		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.24	24.27	24.24	22.77	0.1892
10	1	25		24.01	24.04	24.01		
10	1	49		24.10	24.17	24.18		
10	25	0		23.24	23.30	23.25		
10	25	12		23.22	23.27	23.24		
10	25	25		23.19	23.24	23.25		
10	50	0		23.20	23.25	23.25		
10	1	0	16-QAM	23.48	23.51	23.44	22.01	0.1589
10	1	25		23.31	23.32	23.34		
10	1	49		23.28	23.38	23.34		
10	25	0		22.23	22.27	22.25		
10	25	12		22.20	22.25	22.26		
10	25	25		22.16	22.25	22.25		
10	50	0		22.16	22.23	22.22		
10	1	0	64-QAM	22.41	22.39	22.40	20.91	0.1233
10	1	25		22.31	22.27	22.21		
10	1	49		22.30	22.36	22.37		
10	25	0		21.22	21.27	21.27		
10	25	12		21.20	21.26	21.26		
10	25	25		21.17	21.25	21.26		
10	50	0		21.21	21.29	21.29		
10	1	0	256-QAM	19.27	19.32	19.05	17.82	0.0605
10	1	25		18.85	19.18	18.98		
10	1	49		19.08	19.18	19.13		
10	25	0		19.14	19.14	19.04		
10	25	12		19.16	19.11	19.14		
10	25	25		19.06	19.11	19.09		
10	50	0		19.20	19.17	19.15		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	24.15	24.22	24.18	22.72	0.1871
5	1	12		24.06	24.18	24.15		
5	1	24		24.13	24.22	24.22		
5	12	0		23.16	23.26	23.21		
5	12	7		23.13	23.24	23.21		
5	12	13		23.12	23.22	23.20		
5	25	0		23.16	23.27	23.22		
5	1	0	16-QAM	23.43	23.54	23.45	22.04	0.1600
5	1	12		23.35	23.47	23.47		
5	1	24		23.34	23.49	23.44		
5	12	0		22.17	22.24	22.19		
5	12	7		22.18	22.24	22.21		
5	12	13		22.13	22.25	22.22		
5	25	0		22.17	22.28	22.24		
5	1	0	64-QAM	22.36	22.35	22.38	20.95	0.1245
5	1	12		22.29	22.35	22.35		
5	1	24		22.31	22.39	22.45		
5	12	0		21.17	21.20	21.17		
5	12	7		21.15	21.18	21.16		
5	12	13		21.14	21.17	21.15		
5	25	0		21.19	21.26	21.23		
5	1	0	256-QAM	19.24	19.29	19.07	17.79	0.0601
5	1	12		18.87	19.23	19.04		
5	1	24		19.11	19.19	19.07		
5	12	0		19.17	19.13	19.10		
5	12	7		19.13	19.16	19.18		
5	12	13		19.12	19.14	19.16		
5	25	0		19.20	19.21	19.14		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	24.18	24.27	24.25	22.77	0.1892
3	1	8		24.01	24.11	24.09		
3	1	14		24.08	24.19	24.17		
3	8	0		23.07	23.20	23.14		
3	8	4		23.05	23.18	23.14		
3	8	7		23.09	23.21	23.19		
3	15	0		23.11	23.22	23.17		
3	1	0	16-QAM	23.47	23.56	23.47	22.06	0.1607
3	1	8		23.26	23.39	23.33		
3	1	14		23.34	23.44	23.43		
3	8	0		22.13	22.18	22.14		
3	8	4		22.15	22.22	22.19		
3	8	7		22.15	22.22	22.21		
3	15	0		22.16	22.21	22.18		
3	1	0	64-QAM	22.27	22.39	22.36	20.89	0.1227
3	1	8		22.22	22.29	22.32		
3	1	14		22.25	22.38	22.34		
3	8	0		21.19	21.22	21.22		
3	8	4		21.20	21.25	21.25		
3	8	7		21.20	21.24	21.24		
3	15	0		21.20	21.24	21.22		
3	1	0	256-QAM	19.26	19.30	19.08	17.80	0.0603
3	1	8		18.93	19.23	19.02		
3	1	14		19.05	19.17	19.05		
3	8	0		19.17	19.15	19.07		
3	8	4		19.12	19.18	19.17		
3	8	7		19.08	19.12	19.13		
3	15	0		19.14	19.24	19.12		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	24.06	24.20	24.18	22.70	0.1862
1.4	1	3		24.00	24.09	24.02		
1.4	1	5		24.05	24.20	24.16		
1.4	3	0		23.97	24.09	24.07		
1.4	3	1		24.03	24.17	24.17		
1.4	3	3		24.03	24.15	24.15		
1.4	6	0		23.04	23.15	23.13		
1.4	1	0	16-QAM	23.33	23.39	23.37	21.89	0.1545
1.4	1	3		23.22	23.31	23.21		
1.4	1	5		23.29	23.37	23.38		
1.4	3	0		23.09	23.22	23.20		
1.4	3	1		23.11	23.21	23.19		
1.4	3	3		23.08	23.18	23.13		
1.4	6	0		22.12	22.17	22.13		
1.4	1	0	64-QAM	22.21	22.29	22.29	20.84	0.1213
1.4	1	3		22.19	22.23	22.15		
1.4	1	5		22.26	22.34	22.31		
1.4	3	0		22.15	22.20	22.22		
1.4	3	1		22.20	22.27	22.22		
1.4	3	3		22.17	22.23	22.16		
1.4	6	0		21.07	21.10	21.08		
1.4	1	0	256-QAM	19.15	19.15	19.12	17.70	0.0589
1.4	1	3		19.12	19.12	19.13		
1.4	1	5		19.14	19.16	19.11		
1.4	3	0		19.12	19.18	19.15		
1.4	3	1		19.15	19.20	19.05		
1.4	3	3		19.18	19.14	19.15		
1.4	6	0		19.14	19.15	19.11		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.35	24.36	24.31	22.86	0.1932
20	1	49		24.16	24.23	24.18		
20	1	99		24.11	24.23	24.06		
20	50	0		23.33	23.34	23.28		
20	50	24		23.28	23.30	23.25		
20	50	50		23.22	23.27	23.17		
20	100	0		23.28	23.29	23.24		
20	1	0	16-QAM	23.62	23.47	23.58	22.12	0.1629
20	1	49		23.26	23.27	23.33		
20	1	99		23.17	23.32	23.30		
20	50	0		22.33	22.29	22.26		
20	50	24		22.26	22.29	22.24		
20	50	50		22.19	22.26	22.17		
20	100	0		22.26	22.26	22.21		
20	1	0	64-QAM	22.54	22.50	22.50	21.04	0.1271
20	1	49		22.26	22.41	22.41		
20	1	99		22.30	22.47	22.28		
20	50	0		21.37	21.34	21.32		
20	50	24		21.32	21.33	21.28		
20	50	50		21.24	21.31	21.21		
20	100	0		21.26	21.26	21.21		
20	1	0	256-QAM	19.31	19.25	19.15	17.81	0.0604
20	1	49		19.21	19.22	19.06		
20	1	99		19.12	19.23	19.01		
20	50	0		19.28	19.20	19.15		
20	50	24		19.20	19.26	19.20		
20	50	50		19.16	19.21	19.12		
20	100	0		19.26	19.20	19.18		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	24.24	24.24	24.22	22.74	0.1879
15	1	37		24.03	24.09	24.03		
15	1	74		24.08	24.22	24.06		
15	36	0		23.31	23.32	23.28		
15	36	20		23.25	23.29	23.23		
15	36	39		23.21	23.28	23.17		
15	75	0		23.29	23.32	23.24		
15	1	0	16-QAM	23.61	23.58	23.58	22.11	0.1626
15	1	37		23.47	23.54	23.45		
15	1	74		23.36	23.50	23.23		
15	36	0		22.30	22.29	22.30		
15	36	20		22.24	22.28	22.23		
15	36	39		22.19	22.28	22.16		
15	75	0		22.29	22.31	22.25		
15	1	0	64-QAM	22.56	22.49	22.50	21.06	0.1276
15	1	37		22.34	22.35	22.33		
15	1	74		22.40	22.56	22.18		
15	36	0		21.33	21.31	21.29		
15	36	20		21.25	21.30	21.23		
15	36	39		21.21	21.31	21.19		
15	75	0		21.25	21.32	21.24		
15	1	0	256-QAM	19.30	19.15	19.08	17.80	0.0603
15	1	37		19.12	19.15	19.04		
15	1	74		19.03	19.19	18.93		
15	36	0		19.26	19.13	19.07		
15	36	20		19.16	19.25	19.13		
15	36	39		19.07	19.12	19.11		
15	75	0		19.23	19.10	19.11		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	24.25	24.26	24.29	22.79	0.1901
10	1	25		24.06	24.05	24.01		
10	1	49		24.14	24.21	24.08		
10	25	0		23.29	23.32	23.27		
10	25	12		23.26	23.29	23.21		
10	25	25		23.24	23.28	23.18		
10	50	0		23.27	23.28	23.23		
10	1	0	16-QAM	23.45	23.52	23.48	22.02	0.1592
10	1	25		23.36	23.45	23.38		
10	1	49		23.30	23.41	23.29		
10	25	0		22.31	22.30	22.28		
10	25	12		22.28	22.30	22.23		
10	25	25		22.22	22.28	22.20		
10	50	0		22.22	22.25	22.21		
10	1	0	64-QAM	22.49	22.52	22.44	21.02	0.1265
10	1	25		22.26	22.33	22.31		
10	1	49		22.29	22.48	22.27		
10	25	0		21.30	21.29	21.28		
10	25	12		21.23	21.28	21.21		
10	25	25		21.21	21.25	21.16		
10	50	0		21.27	21.29	21.23		
10	1	0	256-QAM	19.21	19.23	19.10	17.75	0.0596
10	1	25		19.17	19.18	19.00		
10	1	49		19.05	19.16	18.93		
10	25	0		19.18	19.13	19.14		
10	25	12		19.15	19.21	19.16		
10	25	25		19.13	19.14	19.07		
10	50	0		19.25	19.11	19.13		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	24.22	24.28	24.22	22.82	0.1914
5	1	12		24.17	24.28	24.16		
5	1	24		24.25	24.32	24.17		
5	12	0		23.26	23.32	23.23		
5	12	7		23.24	23.30	23.21		
5	12	13		23.22	23.28	23.19		
5	25	0		23.22	23.29	23.21		
5	1	0	16-QAM	23.51	23.56	23.52	22.09	0.1618
5	1	12		23.52	23.56	23.50		
5	1	24		23.53	23.59	23.42		
5	12	0		22.27	22.28	22.25		
5	12	7		22.26	22.29	22.22		
5	12	13		22.24	22.29	22.19		
5	25	0		22.26	22.31	22.23		
5	1	0	64-QAM	22.52	22.48	22.47	21.07	0.1279
5	1	12		22.46	22.43	22.32		
5	1	24		22.47	22.57	22.26		
5	12	0		21.27	21.25	21.24		
5	12	7		21.25	21.26	21.19		
5	12	13		21.21	21.24	21.15		
5	25	0		21.24	21.27	21.23		
5	1	0	256-QAM	19.26	19.15	19.06	17.77	0.0598
5	1	12		19.13	19.12	19.03		
5	1	24		19.11	19.22	18.94		
5	12	0		19.27	19.12	19.05		
5	12	7		19.13	19.18	19.13		
5	12	13		19.09	19.17	19.06		
5	25	0		19.23	19.12	19.10		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	24.23	24.32	24.21	22.82	0.1914
3	1	8		24.10	24.16	24.02		
3	1	14		24.16	24.26	24.09		
3	8	0		23.16	23.25	23.12		
3	8	4		23.14	23.24	23.15		
3	8	7		23.19	23.30	23.14		
3	15	0		23.18	23.26	23.16		
3	1	0	16-QAM	23.56	23.61	23.60	22.11	0.1626
3	1	8		23.34	23.41	23.37		
3	1	14		23.47	23.56	23.43		
3	8	0		22.22	22.26	22.19		
3	8	4		22.25	22.30	22.21		
3	8	7		22.23	22.30	22.20		
3	15	0		22.23	22.26	22.19		
3	1	0	64-QAM	22.53	22.51	22.43	21.03	0.1268
3	1	8		22.40	22.43	22.30		
3	1	14		22.44	22.51	22.34		
3	8	0		21.26	21.29	21.22		
3	8	4		21.25	21.25	21.20		
3	8	7		21.24	21.24	21.18		
3	15	0		21.22	21.27	21.19		
3	1	0	256-QAM	19.29	19.17	19.14	17.79	0.0601
3	1	8		19.19	19.13	19.04		
3	1	14		19.03	19.20	19.00		
3	8	0		19.27	19.15	19.08		
3	8	4		19.18	19.21	19.10		
3	8	7		19.08	19.19	19.05		
3	15	0		19.21	19.17	19.16		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -1.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	24.16	24.28	24.15	22.78	0.1897
1.4	1	3		24.05	24.16	24.04		
1.4	1	5		24.17	24.26	24.13		
1.4	3	0		24.04	24.14	24.01		
1.4	3	1		24.10	24.28	24.08		
1.4	3	3		24.14	24.27	24.12		
1.4	6	0		23.13	23.25	23.15		
1.4	1	0	16-QAM	23.43	23.50	23.44	22.00	0.1585
1.4	1	3		23.29	23.32	23.23		
1.4	1	5		23.42	23.47	23.38		
1.4	3	0		23.22	23.33	23.21		
1.4	3	1		23.21	23.30	23.25		
1.4	3	3		23.15	23.24	23.16		
1.4	6	0		22.22	22.27	22.19		
1.4	1	0	64-QAM	22.37	22.40	22.33	20.90	0.1230
1.4	1	3		22.14	22.21	22.13		
1.4	1	5		22.35	22.38	22.29		
1.4	3	0		22.18	22.27	22.17		
1.4	3	1		22.27	22.31	22.19		
1.4	3	3		22.28	22.34	22.21		
1.4	6	0		21.16	21.18	21.12		
1.4	1	0	256-QAM	19.15	19.20	19.02	17.71	0.0590
1.4	1	3		19.15	19.13	19.05		
1.4	1	5		19.05	19.21	19.02		
1.4	3	0		19.15	19.14	19.06		
1.4	3	1		19.12	19.16	19.05		
1.4	3	3		19.15	19.21	19.05		
1.4	6	0		19.15	19.15	19.07		
Limit	EIRP < 1W			Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -0.4 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	20.51	20.77	20.75	22.25	0.1679
20+20	1	0	1	99		15.05	15.40	15.38		
20+20	1	99	1	0		22.30	22.40	22.65		
20+20	100	0	100	0	16-QAM	19.52	19.73	19.47	21.59	0.1442
20+20	1	0	1	99		15.38	15.73	15.82		
20+20	1	99	1	0		21.63	21.80	21.99		
20+20	100	0	100	0	64-QAM	19.61	19.78	19.48	19.41	0.0873
20+20	1	0	1	99		15.47	15.72	15.81		
20+20	1	99	1	0		19.70	19.81	19.80		
20+20	100	0	100	0	256-QAM	17.59	17.89	17.62	17.52	0.0565
20+20	1	0	1	99		15.44	15.77	15.83		
20+20	1	99	1	0		17.68	17.88	17.92		
20+15	100	0	75	0	QPSK	20.78	20.81	20.50	22.06	0.1607
20+15	1	0	1	74		15.06	15.48	15.32		
20+15	1	99	1	0		22.26	22.33	22.46		
20+15	100	0	75	0	16-QAM	19.47	19.76	19.49	21.68	0.1472
20+15	1	0	1	74		15.40	15.85	15.61		
20+15	1	99	1	0		21.63	22.08	21.86		
20+15	100	0	75	0	64-QAM	19.46	19.79	19.59	19.55	0.0902
20+15	1	0	1	74		15.46	15.89	15.73		
20+15	1	99	1	0		19.63	19.93	19.95		
20+15	100	0	75	0	256-QAM	17.48	17.88	17.62	17.56	0.0570
20+15	1	0	1	74		15.40	15.82	15.73		
20+15	1	99	1	0		17.80	17.94	17.96		
15+20	75	0	100	0	QPSK	20.90	20.93	20.33	22.23	0.1671
15+20	1	0	1	99		14.95	15.34	15.15		
15+20	1	74	1	0		22.27	22.41	22.63		
15+20	75	0	100	0	16-QAM	19.41	19.76	19.42	21.63	0.1455
15+20	1	0	1	99		15.26	15.85	15.46		
15+20	1	74	1	0		21.79	21.84	22.03		
15+20	75	0	100	0	64-QAM	19.38	19.73	19.41	19.50	0.0891
15+20	1	0	1	99		15.31	15.60	15.46		
15+20	1	74	1	0		19.83	19.90	19.86		
15+20	75	0	100	0	256-QAM	17.46	17.85	17.55	17.51	0.0564
15+20	1	0	1	99		15.26	15.67	15.62		
15+20	1	74	1	0		17.70	17.91	17.70		
Limit	EIRP < 2W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -0.4 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	20.38	20.89	20.58	22.15	0.1641
20+10	1	0	1	49		14.99	15.58	15.24		
20+10	1	99	1	0		22.24	22.41	22.55		
20+10	100	0	50	0	16-QAM	19.55	19.81	19.61	21.47	0.1403
20+10	1	0	1	49		15.45	15.98	15.80		
20+10	1	99	1	0		21.63	21.82	21.87		
20+10	100	0	50	0	64-QAM	19.52	19.86	19.68	19.56	0.0904
20+10	1	0	1	49		15.34	15.89	15.65		
20+10	1	99	1	0		19.79	19.88	19.96		
20+10	100	0	50	0	256-QAM	17.47	18.03	17.73	17.63	0.0579
20+10	1	0	1	49		15.32	15.94	15.72		
20+10	1	99	1	0		17.81	18.02	17.88		
10+20	50	0	100	0	QPSK	20.38	20.78	20.42	22.08	0.1614
10+20	1	0	1	99		14.83	15.35	15.04		
10+20	1	49	1	0		22.48	22.28	22.36		
10+20	50	0	100	0	16-QAM	19.37	19.79	19.45	21.63	0.1455
10+20	1	0	1	99		15.28	15.62	15.43		
10+20	1	49	1	0		21.64	21.77	22.03		
10+20	50	0	100	0	64-QAM	19.39	19.80	19.95	19.70	0.0933
10+20	1	0	1	99		15.09	15.73	15.53		
10+20	1	49	1	0		20.10	19.81	19.90		
10+20	50	0	100	0	256-QAM	17.42	18.02	17.52	17.62	0.0578
10+20	1	0	1	99		15.18	15.70	15.48		
10+20	1	49	1	0		17.77	17.74	17.83		
15+15	75	0	75	0	QPSK	20.43	20.84	20.48	22.00	0.1585
15+15	1	0	1	74		14.94	15.44	15.16		
15+15	1	74	1	0		22.11	22.39	22.40		
15+15	75	0	75	0	16-QAM	19.52	19.77	19.52	21.52	0.1419
15+15	1	0	1	74		15.31	15.74	15.58		
15+15	1	74	1	0		21.82	21.92	21.92		
15+15	75	0	75	0	64-QAM	19.36	19.80	19.59	19.49	0.0889
15+15	1	0	1	74		15.39	15.84	15.62		
15+15	1	74	1	0		19.69	19.84	19.89		
15+15	75	0	75	0	256-QAM	17.43	17.88	17.64	17.48	0.0560
15+15	1	0	1	74		15.24	15.73	15.54		
15+15	1	74	1	0		17.79	17.82	17.88		
Limit	EIRP < 2W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -0.4 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	75	0	50	0	QPSK	20.75	21.21	21.05	22.26	0.1683
15+10	1	0	1	49		14.96	15.52	15.25		
15+10	1	74	1	0		22.49	22.66	22.48		
15+10	75	0	50	0	16-QAM	19.35	19.81	19.67	21.91	0.1552
15+10	1	0	1	49		15.34	15.86	15.70		
15+10	1	74	1	0		21.66	22.29	22.31		
15+10	75	0	50	0	64-QAM	19.52	19.80	19.87	19.67	0.0927
15+10	1	0	1	49		15.24	15.99	15.63		
15+10	1	74	1	0		19.60	20.07	19.87		
15+10	75	0	50	0	256-QAM	17.46	17.93	17.76	17.60	0.0575
15+10	1	0	1	49		15.27	15.88	15.68		
15+10	1	74	1	0		17.80	17.92	18.00		
Limit	EIRP < 2W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = -0.5 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	21.50	21.47	21.52	22.93	0.1963
20+20	1	0	1	99		15.24	15.24	15.26		
20+20	1	99	1	0		23.38	23.40	23.43		
20+20	100	0	100	0	16-QAM	20.56	20.55	20.59	22.67	0.1849
20+20	1	0	1	99		15.65	15.73	15.89		
20+20	1	99	1	0		22.93	22.99	23.17		
20+20	100	0	100	0	64-QAM	20.54	20.51	20.58	20.38	0.1091
20+20	1	0	1	99		15.42	15.62	15.48		
20+20	1	99	1	0		20.64	20.88	20.71		
20+20	100	0	100	0	256-QAM	18.56	18.54	18.56	18.31	0.0678
20+20	1	0	1	99		15.54	15.33	15.42		
20+20	1	99	1	0		18.81	18.54	18.65		
15+15	75	0	75	0	QPSK	21.51	21.50	21.55	22.98	0.1986
15+15	1	0	1	74		15.22	15.25	15.29		
15+15	1	74	1	0		23.40	23.44	23.48		
15+15	75	0	75	0	16-QAM	20.52	20.55	20.57	22.74	0.1879
15+15	1	0	1	74		15.78	15.87	15.93		
15+15	1	74	1	0		23.00	23.16	23.24		
15+15	75	0	75	0	64-QAM	20.54	20.59	20.61	20.43	0.1104
15+15	1	0	1	74		15.61	15.57	15.47		
15+15	1	74	1	0		20.93	20.87	20.71		
15+15	75	0	75	0	256-QAM	18.52	18.55	18.59	18.34	0.0682
15+15	1	0	1	74		15.35	15.55	15.44		
15+15	1	74	1	0		18.57	18.84	18.69		
Limit	EIRP < 2W					Result			Pass	



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LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.30	23.34	23.31	20.34	0.1081
20	1	49		23.19	23.21	23.16		
20	1	99		23.22	23.25	23.09		
20	50	0		22.33	22.36	22.34		
20	50	24		22.32	22.33	22.32		
20	50	50		22.32	22.33	22.25		
20	100	0		22.32	22.34	22.32		
20	1	0	16-QAM	22.68	22.58	22.66	19.68	0.0929
20	1	49		22.56	22.46	22.45		
20	1	99		22.55	22.59	22.41		
20	50	0		21.30	21.31	21.35		
20	50	24		21.26	21.35	21.31		
20	50	50		21.25	21.40	21.24		
20	100	0		21.33	21.38	21.25		
20	1	0	64-QAM	21.64	21.62	21.59	18.68	0.0738
20	1	49		21.51	21.64	21.58		
20	1	99		21.54	21.68	21.43		
20	50	0		20.40	20.41	20.35		
20	50	24		20.36	20.43	20.33		
20	50	50		20.36	20.40	20.29		
20	100	0		20.35	20.37	20.31		
20	1	0	256-QAM	18.71	18.64	18.44	15.71	0.0372
20	1	49		18.55	18.60	18.33		
20	1	99		18.53	18.45	18.14		
20	50	0		18.41	18.57	18.37		
20	50	24		18.38	18.35	18.25		
20	50	50		18.36	18.32	18.22		
20	100	0		18.38	18.39	18.24		
Limit	EIRP < 2W			Result			Pass	



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Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.27	23.22	23.31	20.31	0.1074
15	1	37		23.12	23.17	23.19		
15	1	74		23.20	23.30	23.17		
15	36	0		22.33	22.36	22.39		
15	36	20		22.29	22.37	22.31		
15	36	39		22.29	22.37	22.30		
15	75	0		22.33	22.38	22.38		
15	1	0	16-QAM	22.55	22.56	22.72	19.72	0.0938
15	1	37		22.51	22.63	22.57		
15	1	74		22.45	22.56	22.46		
15	36	0		21.33	21.37	21.40		
15	36	20		21.28	21.36	21.35		
15	36	39		21.27	21.36	21.28		
15	75	0		21.31	21.36	21.34		
15	1	0	64-QAM	21.54	21.56	21.63	18.63	0.0729
15	1	37		21.48	21.41	21.44		
15	1	74		21.40	21.52	21.37		
15	36	0		20.33	20.38	20.42		
15	36	20		20.30	20.38	20.36		
15	36	39		20.32	20.40	20.27		
15	75	0		20.31	20.38	20.30		
15	1	0	256-QAM	18.65	18.57	18.38	15.65	0.0367
15	1	37		18.47	18.52	18.23		
15	1	74		18.48	18.37	18.05		
15	36	0		18.34	18.51	18.31		
15	36	20		18.28	18.28	18.17		
15	36	39		18.28	18.22	18.13		
15	75	0		18.33	18.31	18.18		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.29	23.33	23.33	20.33	0.1079
10	1	25		23.14	23.28	23.23		
10	1	49		23.23	23.31	23.19		
10	25	0		22.37	22.44	22.34		
10	25	12		22.34	22.46	22.38		
10	25	25		22.32	22.47	22.36		
10	50	0		22.32	22.46	22.42		
10	1	0	16-QAM	22.61	22.69	22.68	19.69	0.0931
10	1	25		22.45	22.59	22.56		
10	1	49		22.56	22.69	22.53		
10	25	0		21.41	21.46	21.40		
10	25	12		21.41	21.46	21.40		
10	25	25		21.39	21.49	21.36		
10	50	0		21.38	21.45	21.39		
10	1	0	64-QAM	21.61	21.68	21.61	18.68	0.0738
10	1	25		21.54	21.58	21.52		
10	1	49		21.52	21.68	21.49		
10	25	0		20.45	20.46	20.44		
10	25	12		20.44	20.45	20.43		
10	25	25		20.43	20.51	20.42		
10	50	0		20.43	20.51	20.46		
10	1	0	256-QAM	18.63	18.56	18.37	15.63	0.0366
10	1	25		18.47	18.53	18.28		
10	1	49		18.48	18.38	18.04		
10	25	0		18.31	18.51	18.31		
10	25	12		18.32	18.28	18.17		
10	25	25		18.26	18.24	18.12		
10	50	0		18.29	18.34	18.14		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.33	23.23	23.21	20.33	0.1079
5	1	12		23.21	23.15	23.09		
5	1	24		23.21	23.21	23.09		
5	12	0		22.23	22.23	22.18		
5	12	7		22.24	22.25	22.18		
5	12	13		22.21	22.24	22.18		
5	25	0		22.21	22.23	22.16		
5	1	0	16-QAM	22.45	22.46	22.47	19.47	0.0885
5	1	12		22.33	22.40	22.31		
5	1	24		22.36	22.44	22.33		
5	12	0		21.24	21.26	21.21		
5	12	7		21.24	21.30	21.26		
5	12	13		21.21	21.28	21.24		
5	25	0		21.22	21.30	21.20		
5	1	0	64-QAM	21.46	21.49	21.39	18.49	0.0706
5	1	12		21.31	21.49	21.29		
5	1	24		21.36	21.49	21.37		
5	12	0		20.22	20.29	20.24		
5	12	7		20.20	20.29	20.23		
5	12	13		20.20	20.27	20.27		
5	25	0		20.25	20.31	20.27		
5	1	0	256-QAM	18.66	18.54	18.36	15.66	0.0368
5	1	12		18.47	18.54	18.26		
5	1	24		18.47	18.40	18.04		
5	12	0		18.33	18.48	18.27		
5	12	7		18.30	18.29	18.17		
5	12	13		18.28	18.24	18.16		
5	25	0		18.33	18.31	18.17		
Limit	EIRP < 2W			Result			Pass	



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Report No. : FG451607B

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.20	23.32	23.26	20.32	0.1076
3	1	8		23.04	23.18	23.06		
3	1	14		23.11	23.25	23.08		
3	8	0		22.15	22.20	22.13		
3	8	4		22.13	22.26	22.14		
3	8	7		22.16	22.27	22.14		
3	15	0		22.18	22.28	22.16		
3	1	0	16-QAM	22.49	22.59	22.55	19.59	0.0910
3	1	8		22.38	22.44	22.33		
3	1	14		22.47	22.53	22.45		
3	8	0		21.21	21.30	21.13		
3	8	4		21.26	21.33	21.17		
3	8	7		21.26	21.35	21.21		
3	15	0		21.24	21.32	21.23		
3	1	0	64-QAM	21.41	21.45	21.44	18.45	0.0700
3	1	8		21.40	21.40	21.33		
3	1	14		21.38	21.44	21.29		
3	8	0		20.22	20.29	20.23		
3	8	4		20.24	20.28	20.18		
3	8	7		20.20	20.30	20.20		
3	15	0		20.23	20.32	20.23		
3	1	0	256-QAM	18.66	18.57	18.37	15.66	0.0368
3	1	8		18.47	18.53	18.23		
3	1	14		18.44	18.37	18.06		
3	8	0		18.35	18.50	18.28		
3	8	4		18.30	18.27	18.15		
3	8	7		18.31	18.27	18.17		
3	15	0		18.32	18.34	18.15		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.31	23.26	23.18	20.31	0.1074
1.4	1	3		23.24	23.25	23.09		
1.4	1	5		23.24	23.27	23.09		
1.4	3	0		23.10	23.12	23.01		
1.4	3	1		23.19	23.21	23.08		
1.4	3	3		23.15	23.19	22.99		
1.4	6	0		22.16	22.20	22.05		
1.4	1	0	16-QAM	22.47	22.57	22.45	19.58	0.0908
1.4	1	3		22.34	22.44	22.38		
1.4	1	5		22.47	22.58	22.45		
1.4	3	0		22.17	22.26	22.14		
1.4	3	1		22.27	22.31	22.24		
1.4	3	3		22.27	22.30	22.16		
1.4	6	0		21.23	21.29	21.16		
1.4	1	0	64-QAM	21.41	21.50	21.37	18.50	0.0708
1.4	1	3		21.37	21.45	21.31		
1.4	1	5		21.42	21.49	21.36		
1.4	3	0		21.26	21.36	21.17		
1.4	3	1		21.32	21.41	21.24		
1.4	3	3		21.29	21.31	21.22		
1.4	6	0		20.19	20.27	20.09		
1.4	1	0	256-QAM	18.66	18.58	18.38	15.66	0.0368
1.4	1	3		18.46	18.55	18.23		
1.4	1	5		18.43	18.40	18.05		
1.4	3	0		18.33	18.48	18.32		
1.4	3	1		18.33	18.26	18.17		
1.4	3	3		18.28	18.23	18.17		
1.4	6	0		18.32	18.32	18.16		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.94	24.01	23.97	23.31	0.2143
20	1	49		23.74	23.82	23.81		
20	1	99		23.61	23.74	23.75		
20	50	0		22.94	23.02	22.93		
20	50	24		22.88	22.97	22.88		
20	50	50		22.80	22.89	22.84		
20	100	0		22.86	22.96	22.87		
20	1	0	16-QAM	23.29	23.26	23.17	22.59	0.1816
20	1	49		23.11	23.14	23.15		
20	1	99		22.88	23.11	23.11		
20	50	0		21.93	21.97	21.88		
20	50	24		21.86	21.92	21.88		
20	50	50		21.79	21.86	21.86		
20	100	0		21.84	21.94	21.88		
20	1	0	64-QAM	22.23	22.17	22.10	21.53	0.1422
20	1	49		22.14	22.12	22.05		
20	1	99		21.87	22.08	22.04		
20	50	0		20.97	21.02	20.94		
20	50	24		20.91	20.95	20.92		
20	50	50		20.82	20.90	20.89		
20	100	0		20.86	20.95	20.90		
20	1	0	256-QAM	19.03	19.10	18.95	18.40	0.0692
20	1	49		18.99	18.97	19.05		
20	1	99		18.82	19.06	18.96		
20	50	0		18.79	18.86	18.81		
20	50	24		18.82	18.89	18.74		
20	50	50		18.79	18.90	18.84		
20	100	0		18.87	18.87	18.73		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.86	23.95	23.86	23.25	0.2113
15	1	37		23.58	23.77	23.70		
15	1	74		23.67	23.77	23.78		
15	36	0		22.88	22.99	22.90		
15	36	20		22.83	22.91	22.85		
15	36	39		22.78	22.87	22.82		
15	75	0		22.84	22.98	22.87		
15	1	0	16-QAM	23.18	23.19	23.10	22.49	0.1774
15	1	37		23.09	23.13	23.10		
15	1	74		22.90	23.02	23.01		
15	36	0		21.91	21.96	21.90		
15	36	20		21.83	21.92	21.88		
15	36	39		21.79	21.86	21.85		
15	75	0		21.84	21.96	21.89		
15	1	0	64-QAM	22.21	22.17	22.17	21.51	0.1416
15	1	37		22.03	22.13	22.04		
15	1	74		21.91	22.07	22.04		
15	36	0		20.96	20.96	20.96		
15	36	20		20.87	20.94	20.91		
15	36	39		20.81	20.91	20.92		
15	75	0		20.82	20.96	20.91		
15	1	0	256-QAM	18.94	19.04	18.90	18.34	0.0682
15	1	37		18.90	18.91	18.95		
15	1	74		18.72	18.99	18.89		
15	36	0		18.70	18.76	18.72		
15	36	20		18.74	18.79	18.68		
15	36	39		18.73	18.85	18.75		
15	75	0		18.77	18.82	18.63		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.84	23.96	23.86	23.26	0.2118
10	1	25		23.65	23.76	23.68		
10	1	49		23.67	23.82	23.78		
10	25	0		22.83	22.99	22.90		
10	25	12		22.81	22.98	22.87		
10	25	25		22.78	22.96	22.86		
10	50	0		22.81	22.96	22.87		
10	1	0	16-QAM	23.08	23.14	23.13	22.44	0.1754
10	1	25		22.96	22.99	22.99		
10	1	49		22.86	22.97	22.94		
10	25	0		21.86	21.98	21.94		
10	25	12		21.85	21.93	21.91		
10	25	25		21.83	21.92	21.91		
10	50	0		21.81	21.91	21.89		
10	1	0	64-QAM	22.11	22.17	22.05	21.47	0.1403
10	1	25		21.89	21.97	21.89		
10	1	49		21.95	22.00	21.96		
10	25	0		20.88	20.98	20.92		
10	25	12		20.84	20.95	20.90		
10	25	25		20.80	20.92	20.89		
10	50	0		20.86	20.94	20.93		
10	1	0	256-QAM	18.93	19.04	18.90	18.34	0.0682
10	1	25		18.91	18.88	18.99		
10	1	49		18.74	18.97	18.88		
10	25	0		18.72	18.77	18.74		
10	25	12		18.74	18.79	18.68		
10	25	25		18.70	18.84	18.76		
10	50	0		18.79	18.79	18.67		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.77	23.91	23.80	23.21	0.2094
5	1	12		23.72	23.85	23.78		
5	1	24		23.74	23.89	23.82		
5	12	0		22.76	22.92	22.82		
5	12	7		22.75	22.90	22.80		
5	12	13		22.75	22.89	22.80		
5	25	0		22.78	22.96	22.82		
5	1	0	16-QAM	23.10	23.12	23.11	22.42	0.1746
5	1	12		23.01	22.99	23.02		
5	1	24		22.99	23.03	23.03		
5	12	0		21.84	21.92	21.85		
5	12	7		21.83	21.93	21.89		
5	12	13		21.80	21.91	21.88		
5	25	0		21.79	21.94	21.87		
5	1	0	64-QAM	22.04	22.10	22.00	21.40	0.1380
5	1	12		21.94	22.04	21.92		
5	1	24		21.88	22.00	21.96		
5	12	0		20.86	20.89	20.88		
5	12	7		20.82	20.89	20.89		
5	12	13		20.75	20.85	20.86		
5	25	0		20.80	20.95	20.88		
5	1	0	256-QAM	18.95	19.01	18.87	18.31	0.0678
5	1	12		18.91	18.88	18.97		
5	1	24		18.73	19.01	18.88		
5	12	0		18.73	18.79	18.76		
5	12	7		18.73	18.80	18.64		
5	12	13		18.71	18.85	18.74		
5	25	0		18.81	18.82	18.64		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.77	23.96	23.83	23.26	0.2118
3	1	8		23.58	23.77	23.68		
3	1	14		23.70	23.85	23.75		
3	8	0		22.66	22.82	22.71		
3	8	4		22.65	22.79	22.71		
3	8	7		22.68	22.85	22.76		
3	15	0		22.70	22.86	22.76		
3	1	0	16-QAM	23.10	23.17	23.09	22.47	0.1766
3	1	8		22.93	22.99	22.94		
3	1	14		23.02	23.10	23.02		
3	8	0		21.71	21.80	21.74		
3	8	4		21.75	21.84	21.79		
3	8	7		21.70	21.83	21.80		
3	15	0		21.75	21.83	21.77		
3	1	0	64-QAM	21.93	22.02	21.91	21.32	0.1355
3	1	8		21.83	21.92	21.87		
3	1	14		21.91	21.98	21.89		
3	8	0		20.77	20.82	20.83		
3	8	4		20.75	20.81	20.82		
3	8	7		20.73	20.81	20.81		
3	15	0		20.76	20.85	20.85		
3	1	0	256-QAM	18.98	19.02	18.90	18.32	0.0679
3	1	8		18.90	18.90	18.99		
3	1	14		18.77	18.96	18.86		
3	8	0		18.72	18.78	18.71		
3	8	4		18.72	18.80	18.65		
3	8	7		18.72	18.83	18.75		
3	15	0		18.82	18.82	18.64		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.7 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.71	23.91	23.79	23.21	0.2094
1.4	1	3		23.62	23.81	23.66		
1.4	1	5		23.70	23.88	23.79		
1.4	3	0		23.61	23.79	23.69		
1.4	3	1		23.69	23.91	23.82		
1.4	3	3		23.65	23.86	23.75		
1.4	6	0		22.65	22.83	22.73		
1.4	1	0	16-QAM	22.99	23.15	23.07	22.45	0.1758
1.4	1	3		22.81	22.97	22.87		
1.4	1	5		22.96	23.11	23.05		
1.4	3	0		22.74	22.88	22.83		
1.4	3	1		22.83	22.96	22.84		
1.4	3	3		22.74	22.86	22.81		
1.4	6	0		21.78	21.85	21.82		
1.4	1	0	64-QAM	21.90	22.02	21.94	21.32	0.1355
1.4	1	3		21.82	21.88	21.79		
1.4	1	5		21.89	22.00	21.89		
1.4	3	0		21.77	21.92	21.88		
1.4	3	1		21.82	21.93	21.87		
1.4	3	3		21.85	21.94	21.90		
1.4	6	0		20.75	20.80	20.80		
1.4	1	0	256-QAM	18.98	19.05	18.89	18.35	0.0684
1.4	1	3		18.93	18.88	19.00		
1.4	1	5		18.75	18.99	18.86		
1.4	3	0		18.70	18.80	18.76		
1.4	3	1		18.76	18.84	18.65		
1.4	3	3		18.74	18.85	18.76		
1.4	6	0		18.81	18.78	18.64		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	24.07	24.08	24.00	23.48	0.2228
20	1	49		23.85	23.90	23.80		
20	1	99		23.76	23.89	23.65		
20	50	0		23.00	23.01	22.91		
20	50	24		22.94	22.97	22.84		
20	50	50		22.88	22.91	22.73		
20	100	0		22.94	22.97	22.82		
20	1	0	16-QAM	23.33	23.27	23.14	22.73	0.1875
20	1	49		23.11	23.07	23.03		
20	1	99		22.97	23.11	22.87		
20	50	0		22.01	21.98	21.87		
20	50	24		21.93	21.95	21.82		
20	50	50		21.85	21.92	21.74		
20	100	0		21.93	21.95	21.81		
20	1	0	64-QAM	22.21	22.30	21.98	21.70	0.1479
20	1	49		22.07	22.20	21.96		
20	1	99		22.05	22.14	21.86		
20	50	0		21.04	21.01	20.88		
20	50	24		20.97	20.99	20.84		
20	50	50		20.90	20.97	20.76		
20	100	0		20.92	20.95	20.82		
20	1	0	256-QAM	19.08	19.07	18.99	18.49	0.0706
20	1	49		18.96	18.98	19.01		
20	1	99		18.88	19.09	18.98		
20	50	0		18.92	18.85	18.88		
20	50	24		18.84	18.89	18.73		
20	50	50		18.76	18.83	18.78		
20	100	0		18.86	18.86	18.80		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.94	23.98	23.87	23.38	0.2178
15	1	37		23.78	23.86	23.67		
15	1	74		23.73	23.86	23.62		
15	36	0		22.97	23.02	22.90		
15	36	20		22.92	22.95	22.83		
15	36	39		22.88	22.94	22.73		
15	75	0		22.97	22.99	22.84		
15	1	0	16-QAM	23.41	23.15	23.14	22.81	0.1910
15	1	37		23.26	23.18	23.10		
15	1	74		23.04	23.15	22.92		
15	36	0		22.00	21.99	21.89		
15	36	20		21.93	21.99	21.83		
15	36	39		21.86	21.96	21.78		
15	75	0		21.95	22.02	21.85		
15	1	0	64-QAM	22.21	22.18	22.20	21.61	0.1449
15	1	37		22.05	22.12	22.02		
15	1	74		21.97	22.08	21.92		
15	36	0		21.02	21.00	20.91		
15	36	20		20.95	20.97	20.82		
15	36	39		20.90	20.97	20.79		
15	75	0		20.93	20.98	20.83		
15	1	0	256-QAM	19.03	19.00	18.89	18.43	0.0697
15	1	37		18.90	18.93	18.95		
15	1	74		18.81	19.00	18.93		
15	36	0		18.85	18.77	18.80		
15	36	20		18.75	18.82	18.66		
15	36	39		18.67	18.78	18.69		
15	75	0		18.76	18.79	18.70		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.87	23.95	23.87	23.35	0.2163
10	1	25		23.67	23.76	23.57		
10	1	49		23.74	23.87	23.62		
10	25	0		22.90	22.98	22.84		
10	25	12		22.89	22.94	22.77		
10	25	25		22.87	22.93	22.72		
10	50	0		22.88	22.95	22.76		
10	1	0	16-QAM	23.18	23.21	23.03	22.61	0.1824
10	1	25		23.05	23.07	22.93		
10	1	49		22.96	23.02	22.80		
10	25	0		21.95	21.98	21.84		
10	25	12		21.91	21.96	21.80		
10	25	25		21.88	21.96	21.76		
10	50	0		21.87	21.91	21.76		
10	1	0	64-QAM	22.15	22.08	22.05	21.55	0.1429
10	1	25		21.95	21.95	21.80		
10	1	49		21.96	22.04	21.80		
10	25	0		20.91	20.93	20.83		
10	25	12		20.89	20.95	20.79		
10	25	25		20.87	20.92	20.73		
10	50	0		20.91	20.97	20.82		
10	1	0	256-QAM	19.02	18.99	18.90	18.42	0.0695
10	1	25		18.88	18.88	18.95		
10	1	49		18.82	19.02	18.92		
10	25	0		18.85	18.77	18.78		
10	25	12		18.75	18.83	18.67		
10	25	25		18.67	18.78	18.68		
10	50	0		18.80	18.76	18.70		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.81	23.84	23.73	23.26	0.2118
5	1	12		23.77	23.79	23.64		
5	1	24		23.80	23.86	23.67		
5	12	0		22.86	22.96	22.80		
5	12	7		22.86	22.96	22.77		
5	12	13		22.85	22.94	22.75		
5	25	0		22.83	22.94	22.72		
5	1	0	16-QAM	23.10	23.15	23.12	22.55	0.1799
5	1	12		23.00	23.09	23.08		
5	1	24		22.99	23.15	23.04		
5	12	0		21.93	21.96	21.84		
5	12	7		21.92	21.99	21.82		
5	12	13		21.90	21.97	21.80		
5	25	0		21.85	21.96	21.78		
5	1	0	64-QAM	22.13	22.14	22.02	21.54	0.1426
5	1	12		22.08	22.06	21.91		
5	1	24		22.04	22.08	21.91		
5	12	0		20.92	20.98	20.85		
5	12	7		20.88	20.93	20.83		
5	12	13		20.85	20.91	20.79		
5	25	0		20.84	20.94	20.76		
5	1	0	256-QAM	19.03	18.97	18.91	18.43	0.0697
5	1	12		18.91	18.88	18.96		
5	1	24		18.78	19.01	18.90		
5	12	0		18.85	18.79	18.83		
5	12	7		18.77	18.84	18.67		
5	12	13		18.67	18.73	18.69		
5	25	0		18.77	18.81	18.70		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.89	23.99	23.81	23.39	0.2183
3	1	8		23.73	23.85	23.64		
3	1	14		23.83	23.96	23.71		
3	8	0		22.80	22.92	22.72		
3	8	4		22.78	22.93	22.71		
3	8	7		22.83	22.92	22.74		
3	15	0		22.83	22.92	22.71		
3	1	0	16-QAM	23.23	23.28	23.15	22.68	0.1854
3	1	8		23.06	23.11	22.94		
3	1	14		23.16	23.20	23.04		
3	8	0		21.87	21.92	21.78		
3	8	4		21.89	21.94	21.79		
3	8	7		21.89	21.96	21.77		
3	15	0		21.84	21.94	21.78		
3	1	0	64-QAM	22.03	22.02	21.97	21.44	0.1393
3	1	8		21.94	21.98	21.82		
3	1	14		21.97	22.04	21.84		
3	8	0		20.92	20.94	20.83		
3	8	4		20.86	20.94	20.82		
3	8	7		20.89	20.95	20.84		
3	15	0		20.90	20.96	20.81		
3	1	0	256-QAM	18.98	18.98	18.89	18.42	0.0695
3	1	8		18.86	18.92	18.93		
3	1	14		18.81	19.02	18.92		
3	8	0		18.82	18.79	18.82		
3	8	4		18.78	18.82	18.63		
3	8	7		18.68	18.76	18.70		
3	15	0		18.77	18.76	18.72		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.79	23.94	23.72	23.34	0.2158
1.4	1	3		23.63	23.81	23.61		
1.4	1	5		23.74	23.94	23.70		
1.4	3	0		23.62	23.80	23.58		
1.4	3	1		23.77	23.92	23.72		
1.4	3	3		23.77	23.92	23.69		
1.4	6	0		22.77	22.88	22.70		
1.4	1	0	16-QAM	23.11	23.16	23.06	22.56	0.1803
1.4	1	3		22.98	22.98	22.83		
1.4	1	5		23.05	23.15	22.97		
1.4	3	0		22.90	22.95	22.81		
1.4	3	1		22.82	22.98	22.77		
1.4	3	3		22.80	22.93	22.71		
1.4	6	0		21.89	21.94	21.83		
1.4	1	0	64-QAM	21.96	22.04	21.96	21.44	0.1393
1.4	1	3		21.83	21.87	21.76		
1.4	1	5		21.95	21.99	21.83		
1.4	3	0		21.85	21.91	21.74		
1.4	3	1		21.84	21.90	21.74		
1.4	3	3		21.89	21.96	21.79		
1.4	6	0		20.83	20.93	20.78		
1.4	1	0	256-QAM	19.00	18.97	18.90	18.44	0.0698
1.4	1	3		18.87	18.89	18.94		
1.4	1	5		18.78	19.04	18.92		
1.4	3	0		18.86	18.75	18.81		
1.4	3	1		18.74	18.82	18.65		
1.4	3	3		18.68	18.74	18.73		
1.4	6	0		18.81	18.79	18.74		
Limit	EIRP < 1W			Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -1.8 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	20.17	20.42	20.25	20.22	0.1052
20+20	1	0	1	99		14.63	15.08	15.19		
20+20	1	99	1	0		21.89	22.02	22.00		
20+20	100	0	100	0	16-QAM	19.17	19.44	19.31	19.78	0.0951
20+20	1	0	1	99		15.05	15.34	15.51		
20+20	1	99	1	0		21.58	21.56	21.54		
20+20	100	0	100	0	64-QAM	19.13	19.37	19.30	17.82	0.0605
20+20	1	0	1	99		15.00	15.40	15.61		
20+20	1	99	1	0		19.41	19.51	19.62		
20+20	100	0	100	0	256-QAM	17.15	17.48	17.42	15.72	0.0373
20+20	1	0	1	99		14.96	15.39	15.48		
20+20	1	99	1	0		17.36	17.47	17.52		
20+15	100	0	75	0	QPSK	20.11	20.41	20.27	20.51	0.1125
20+15	1	0	1	74		14.69	15.15	15.09		
20+15	1	99	1	0		22.17	21.99	22.31		
20+15	100	0	75	0	16-QAM	19.10	19.45	19.25	19.98	0.0995
20+15	1	0	1	74		14.86	15.42	15.33		
20+15	1	99	1	0		21.33	21.77	21.78		
20+15	100	0	75	0	64-QAM	19.09	19.42	19.33	17.86	0.0611
20+15	1	0	1	74		14.97	15.51	15.64		
20+15	1	99	1	0		19.40	19.56	19.66		
20+15	100	0	75	0	256-QAM	17.13	17.49	17.40	15.74	0.0375
20+15	1	0	1	74		14.90	15.46	15.42		
20+15	1	99	1	0		17.34	17.49	17.54		
15+20	75	0	100	0	QPSK	20.00	20.82	20.18	20.51	0.1125
15+20	1	0	1	99		14.45	14.99	14.90		
15+20	1	74	1	0		21.95	22.02	22.31		
15+20	75	0	100	0	16-QAM	19.09	19.53	19.19	19.71	0.0935
15+20	1	0	1	99		14.84	15.41	15.20		
15+20	1	74	1	0		21.51	21.43	21.50		
15+20	75	0	100	0	64-QAM	19.05	19.40	19.28	17.75	0.0596
15+20	1	0	1	99		14.79	15.36	15.33		
15+20	1	74	1	0		19.36	19.54	19.55		
15+20	75	0	100	0	256-QAM	17.04	17.46	17.30	15.73	0.0374
15+20	1	0	1	99		14.88	15.38	15.39		
15+20	1	74	1	0		17.47	17.53	17.41		
Limit	EIRP < 2W					Result			Pass	



LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -1.8 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	20.43	20.44	20.27	20.52	0.1127
20+10	1	0	1	49		14.61	15.21	15.06		
20+10	1	99	1	0		21.99	22.01	22.32		
20+10	100	0	50	0	16-QAM	19.08	19.51	19.30	19.95	0.0989
20+10	1	0	1	49		15.04	15.61	15.50		
20+10	1	99	1	0		21.49	21.49	21.75		
20+10	100	0	50	0	64-QAM	19.09	19.49	19.35	17.76	0.0597
20+10	1	0	1	49		15.00	15.54	15.54		
20+10	1	99	1	0		19.49	19.46	19.56		
20+10	100	0	50	0	256-QAM	17.13	17.51	17.39	15.74	0.0375
20+10	1	0	1	49		14.93	15.62	15.46		
20+10	1	99	1	0		17.43	17.50	17.54		
10+20	50	0	100	0	QPSK	19.92	20.38	20.17	20.42	0.1102
10+20	1	0	1	99		14.36	14.93	14.83		
10+20	1	49	1	0		21.91	22.22	21.98		
10+20	50	0	100	0	16-QAM	18.97	19.37	19.19	19.66	0.0925
10+20	1	0	1	99		14.72	15.39	15.28		
10+20	1	49	1	0		21.24	21.46	21.44		
10+20	50	0	100	0	64-QAM	19.01	19.36	19.26	17.72	0.0592
10+20	1	0	1	99		14.65	15.33	15.27		
10+20	1	49	1	0		19.35	19.52	19.51		
10+20	50	0	100	0	256-QAM	16.96	17.37	17.32	15.75	0.0376
10+20	1	0	1	99		14.73	15.40	15.23		
10+20	1	49	1	0		17.43	17.51	17.55		
15+15	75	0	75	0	QPSK	19.99	18.85	20.18	20.46	0.1112
15+15	1	0	1	74		14.52	15.12	14.99		
15+15	1	74	1	0		22.16	22.26	21.95		
15+15	75	0	75	0	16-QAM	19.00	19.41	19.19	19.75	0.0944
15+15	1	0	1	74		14.94	15.50	15.45		
15+15	1	74	1	0		21.39	21.55	21.52		
15+15	75	0	75	0	64-QAM	19.01	19.41	19.27	17.78	0.0600
15+15	1	0	1	74		14.79	15.48	15.39		
15+15	1	74	1	0		19.39	19.58	19.51		
15+15	75	0	75	0	256-QAM	17.02	17.41	17.35	15.75	0.0376
15+15	1	0	1	74		14.75	15.42	15.34		
15+15	1	74	1	0		17.42	17.50	17.55		
Limit	EIRP < 2W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = -1.8 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	75	0	50	0	QPSK	20.02	20.41	20.24	20.26	0.1062
15+10	1	0	1	49		14.49	15.18	14.99		
15+10	1	74	1	0		21.93	22.05	22.06		
15+10	75	0	50	0	16-QAM	19.00	19.46	19.28	19.88	0.0973
15+10	1	0	1	49		14.93	15.49	15.41		
15+10	1	74	1	0		21.68	21.59	21.47		
15+10	75	0	50	0	64-QAM	19.04	19.47	19.37	17.76	0.0597
15+10	1	0	1	49		14.87	15.54	15.48		
15+10	1	74	1	0		19.29	19.50	19.56		
15+10	75	0	50	0	256-QAM	17.07	17.49	17.42	15.79	0.0379
15+10	1	0	1	49		14.83	15.53	15.41		
15+10	1	74	1	0		17.28	17.56	17.59		
Limit	EIRP < 2W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451607B

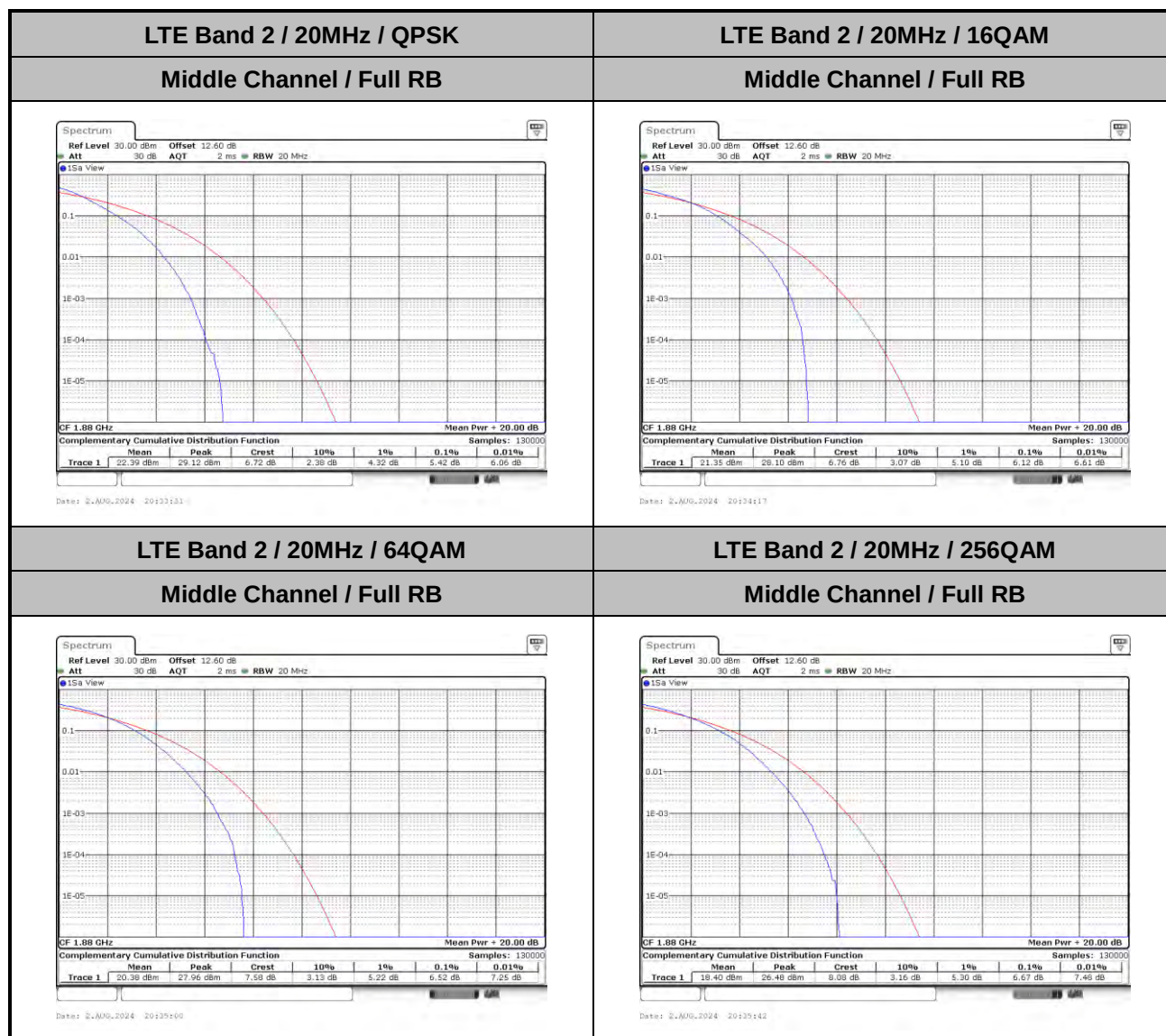
LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = -3.1 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	21.23	21.27	21.30	20.12	0.1028
20+20	1	0	1	99		14.99	15.03	15.06		
20+20	1	99	1	0		23.17	23.21	23.22		
20+20	100	0	100	0	16-QAM	20.31	20.33	20.36	19.84	0.0964
20+20	1	0	1	99		15.52	15.46	15.69		
20+20	1	99	1	0		22.76	22.72	22.94		
20+20	100	0	100	0	64-QAM	20.26	20.32	20.34	17.59	0.0574
20+20	1	0	1	99		15.33	15.30	15.30		
20+20	1	99	1	0		20.59	20.69	20.48		
20+20	100	0	100	0	256-QAM	18.32	18.33	18.37	15.32	0.0340
20+20	1	0	1	99		15.36	15.06	15.21		
20+20	1	99	1	0		18.31	18.27	18.42		
15+15	75	0	75	0	QPSK	21.27	21.34	21.37	20.21	0.1050
15+15	1	0	1	74		14.97	15.06	15.10		
15+15	1	74	1	0		23.18	23.24	23.31		
15+15	75	0	75	0	16-QAM	20.27	20.35	20.41	19.91	0.0979
15+15	1	0	1	74		15.59	15.48	15.73		
15+15	1	74	1	0		22.87	22.75	23.01		
15+15	75	0	75	0	64-QAM	20.29	20.39	20.42	17.61	0.0577
15+15	1	0	1	74		15.30	15.26	15.36		
15+15	1	74	1	0		20.61	20.71	20.61		
15+15	75	0	75	0	256-QAM	18.30	18.38	18.44	15.34	0.0342
15+15	1	0	1	74		15.25	15.01	15.08		
15+15	1	74	1	0		18.44	18.23	18.38		
Limit	EIRP < 2W					Result			Pass	



LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.42	6.12	6.52	6.67	PASS



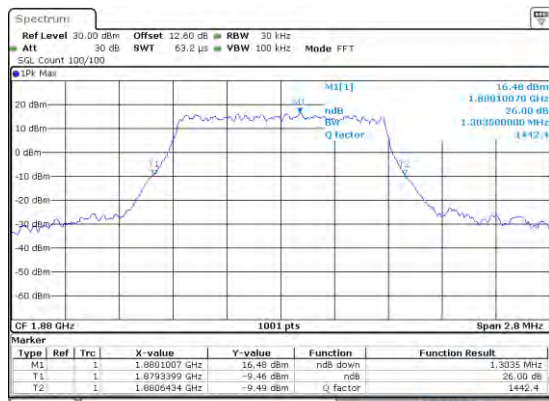
**26dB Bandwidth**

Mode	LTE Band 2 : 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	1.30	1.32	3.15	3.15	5.16	5.01	10.31	10.31	14.26	14.23	18.94	19.14
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.29	1.28	3.12	3.09	5.16	5.04	10.00	10.25	14.59	14.41	18.90	19.34



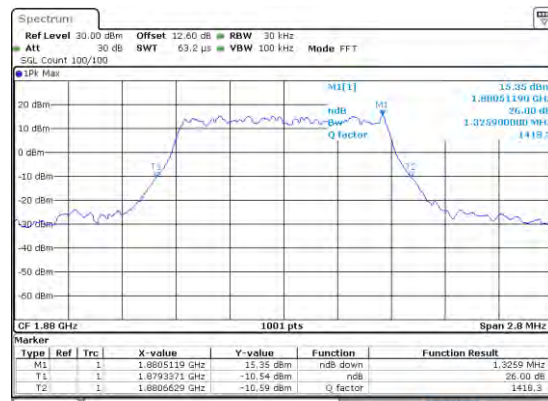
LTE Band 2

Middle Channel / 1.4MHz / QPSK



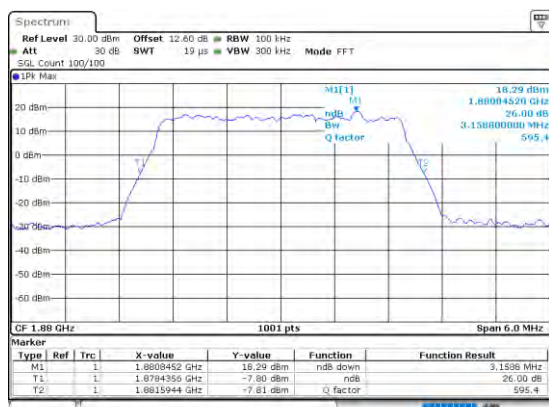
Datum: 2. MAR. 2024 IP: 194.112

Middle Channel / 1.4MHz / 16QAM



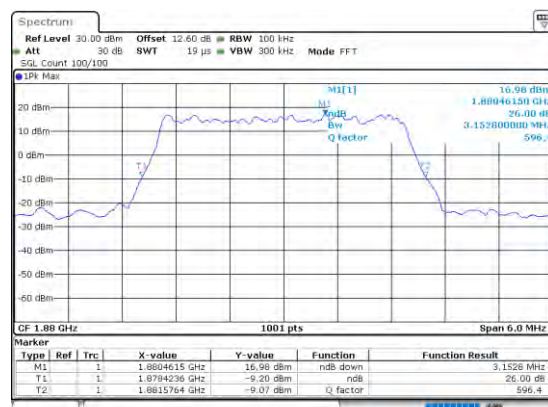
Datum: 2. MAR. 2024 IP: 194.112

Middle Channel / 3MHz / QPSK



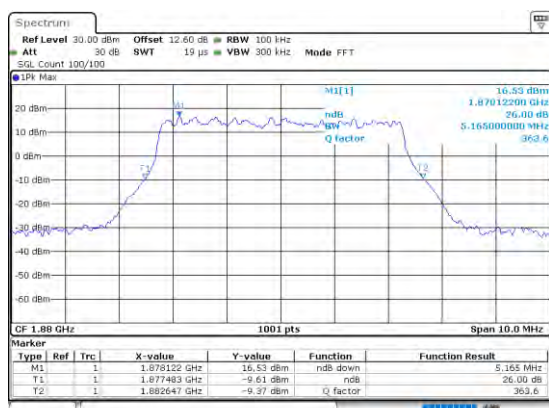
Datum: 2. MAR. 2024 IP: 194.112

Middle Channel / 3MHz / 16QAM



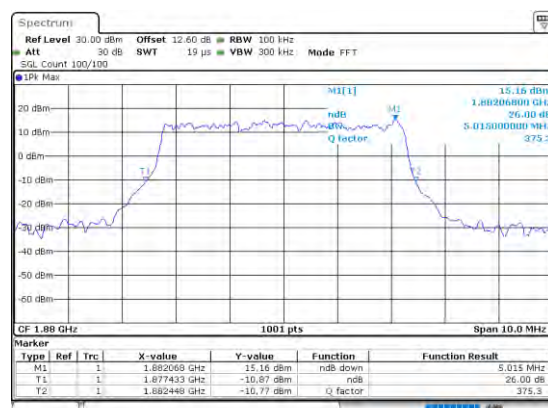
Datum: 2. MAR. 2024 IP: 194.112

Middle Channel / 5MHz / QPSK



Datum: 2. MAR. 2024 IP: 194.112

Middle Channel / 5MHz / 16QAM

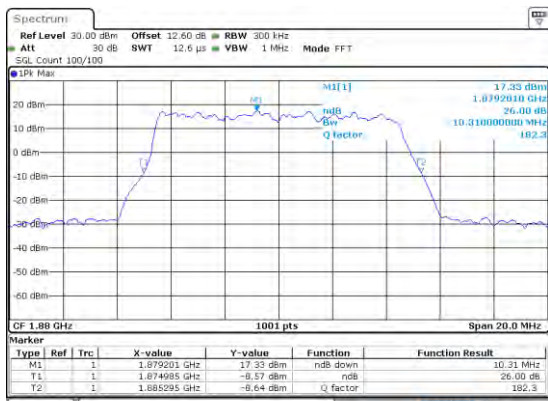


Datum: 2. MAR. 2024 IP: 194.112



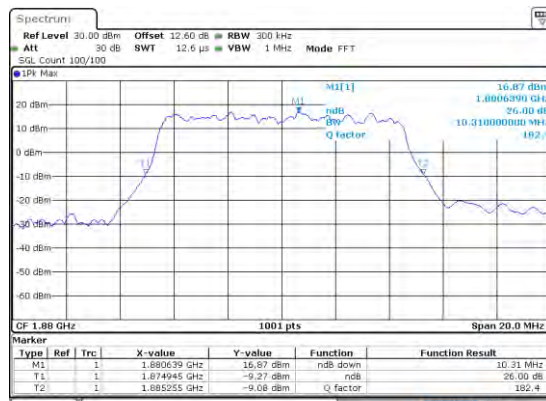
LTE Band 2

Middle Channel / 10MHz / QPSK



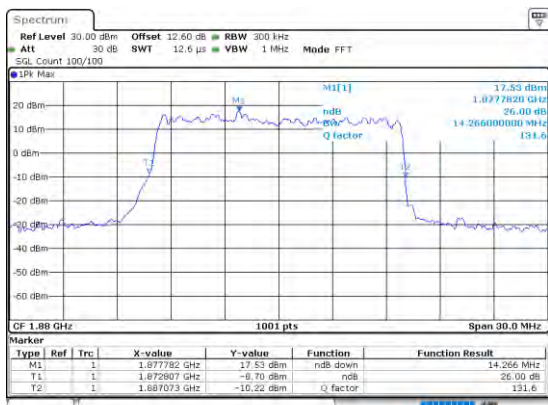
Data: 2024-09-24 18:29:43

Middle Channel / 10MHz / 16QAM



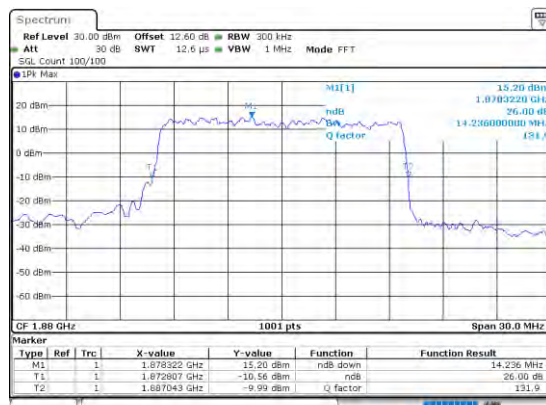
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Middle Channel / 15MHz / QPSK



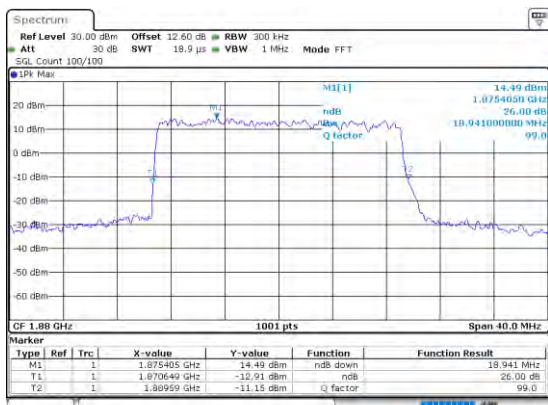
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Middle Channel / 15MHz / 16QAM



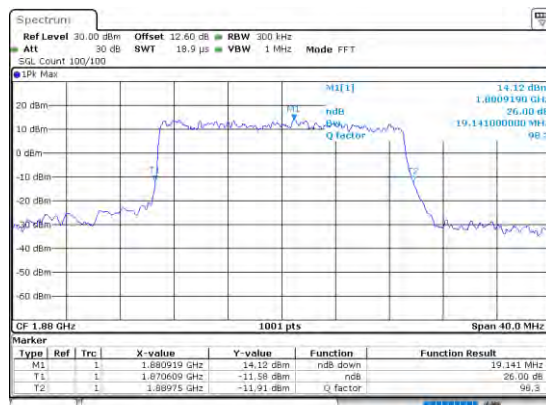
Data: 2024-09-24 18:39:17

Middle Channel / 20MHz / QPSK



Data: 2024-09-24 20:26:02

Middle Channel / 20MHz / 16QAM

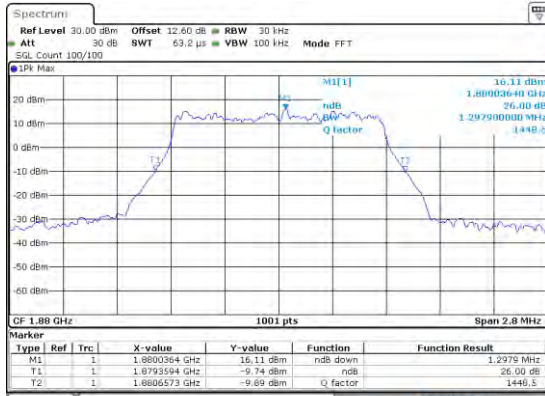


Data: 2024-09-24 20:26:47



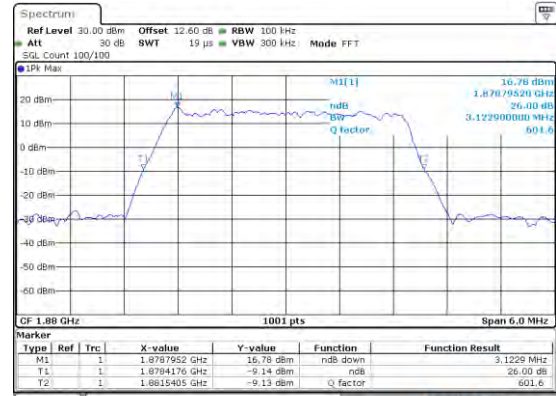
LTE Band 2

Middle Channel / 1.4MHz / 64QAM



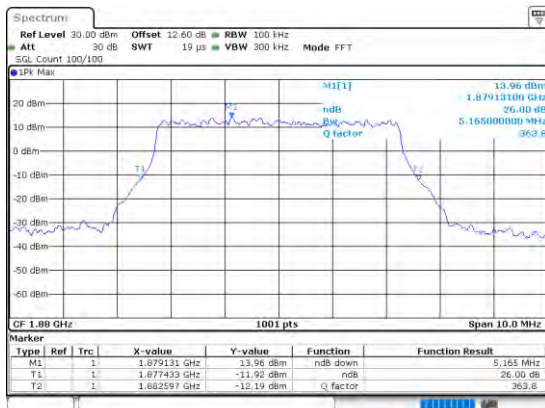
Datum: 2. MAR. 2024 18:07:38

Middle Channel / 3MHz / 64QAM



Datum: 2. MAR. 2024 18:29:13

Middle Channel / 5MHz / 64QAM



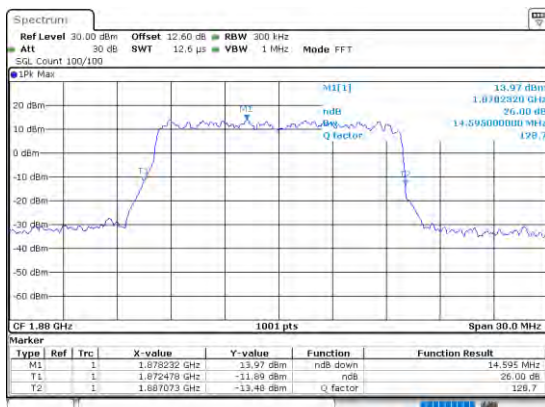
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Middle Channel / 10MHz / 64QAM



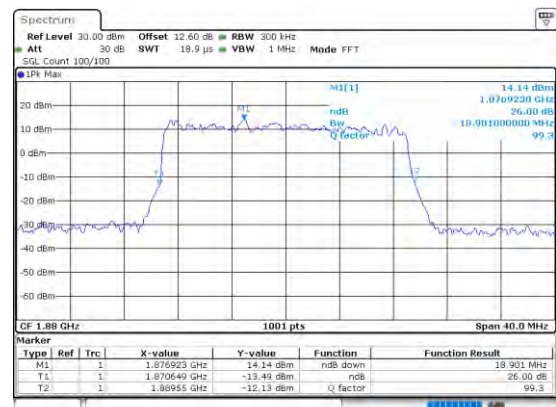
Datum: 2. MAR. 2024 18:22:00

Middle Channel / 15MHz / 64QAM



Datum: 2. MAR. 2024 18:59:56

Middle Channel / 20MHz / 64QAM

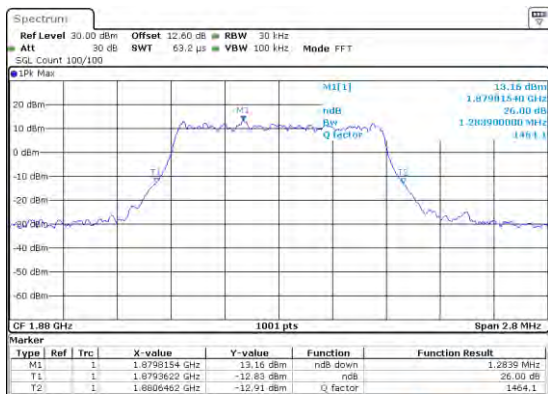


Datum: 2. MAR. 2024 20:21:32



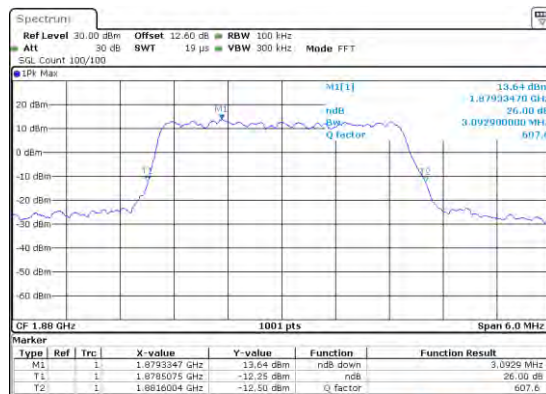
LTE Band 2

Middle Channel / 1.4MHz / 256QAM



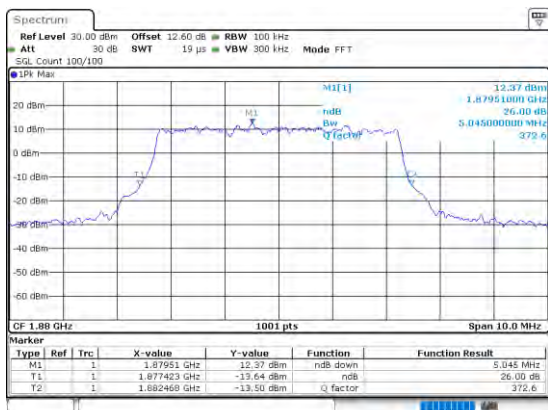
Date: 2024-09-13 13:24

Middle Channel / 3MHz / 256QAM



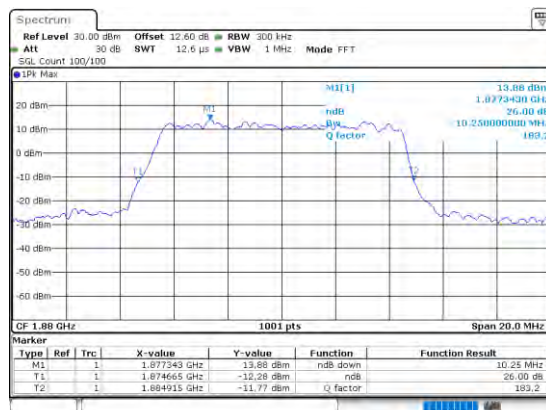
Date: 2024-09-13 13:25

Middle Channel / 5MHz / 256QAM



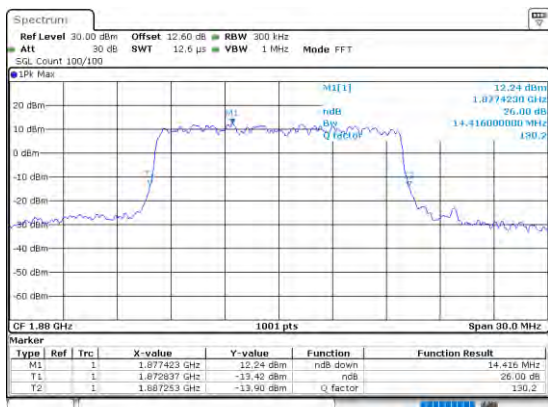
Date: 2024-09-13 13:25

Middle Channel / 10MHz / 256QAM



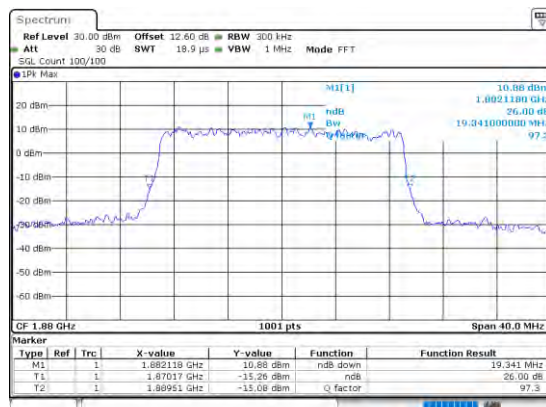
Date: 2024-09-13 13:26

Middle Channel / 15MHz / 256QAM



Date: 2024-09-13 13:26

Middle Channel / 20MHz / 256QAM



Date: 2024-09-13 13:26

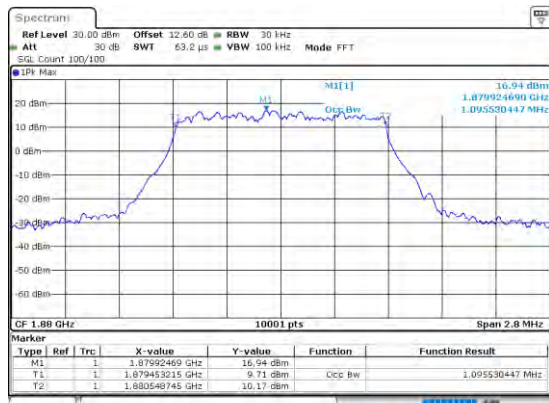
**Occupied Bandwidth**

Mode	LTE Band 2 : 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	1.10	2.72	2.70	4.47	4.49	9.10	9.08	13.40	13.43	17.90	17.93
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	1.10	2.72	2.71	4.47	4.49	9.04	9.08	13.44	13.43	17.89	17.85



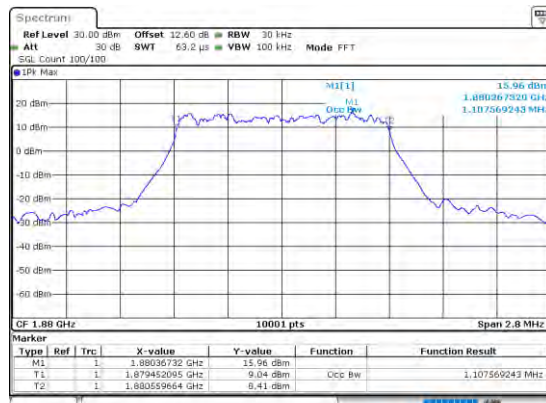
LTE Band 2

Middle Channel / 1.4MHz / QPSK



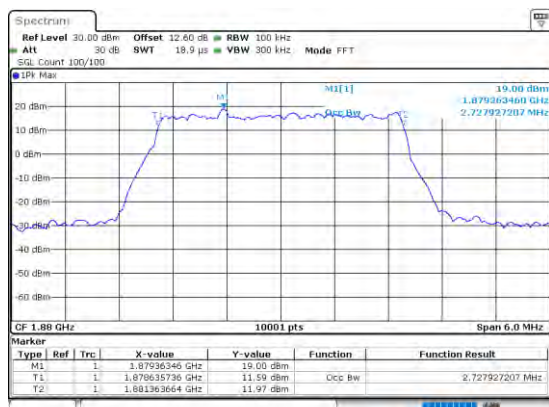
Datum: 2.10.2024 18:02:22

Middle Channel / 1.4MHz / 16QAM



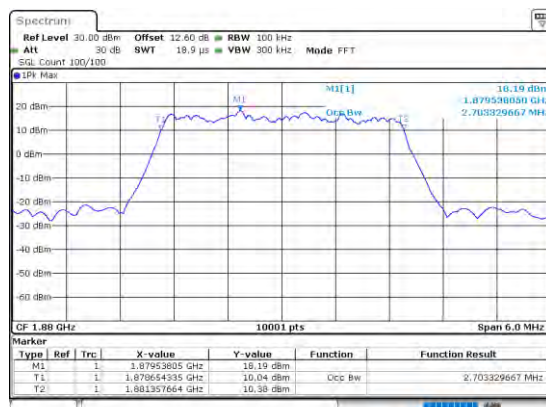
Datum: 2.10.2024 18:04:02

Middle Channel / 3MHz / QPSK



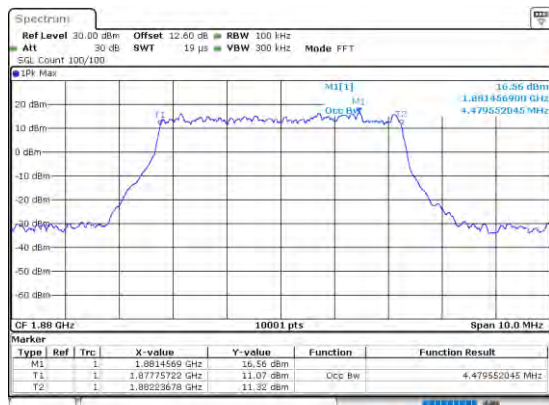
Datum: 2.10.2024 18:11:43

Middle Channel / 3MHz / 16QAM



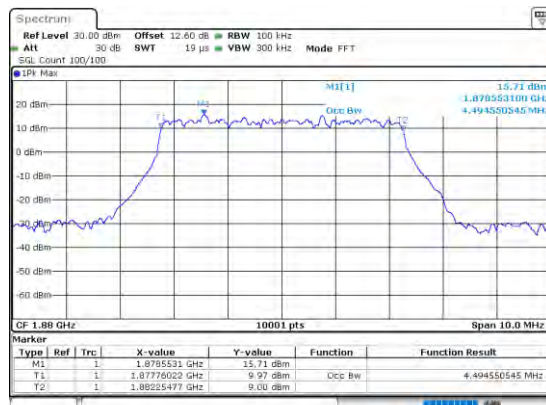
Datum: 2.10.2024 18:13:00

Middle Channel / 5MHz / QPSK



Datum: 2.10.2024 18:09:28

Middle Channel / 5MHz / 16QAM

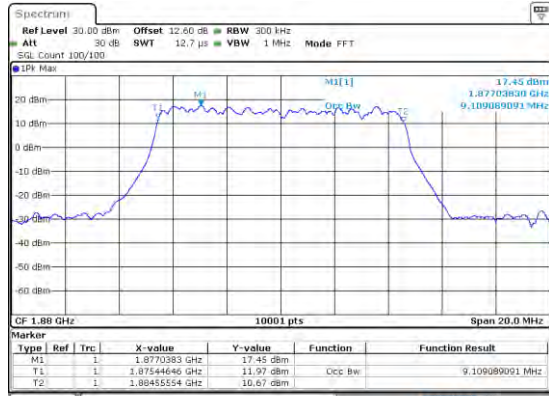


Datum: 2.10.2024 18:01:18



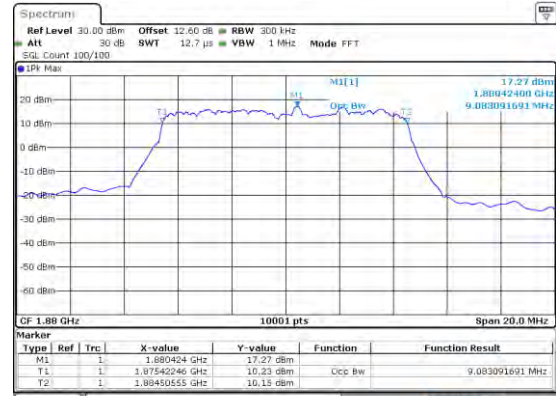
LTE Band 2

Middle Channel / 10MHz / QPSK



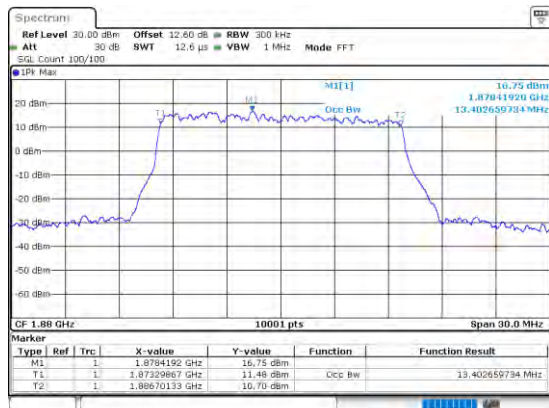
Date: 2024-09-24 18:21:50

Middle Channel / 10MHz / 16QAM



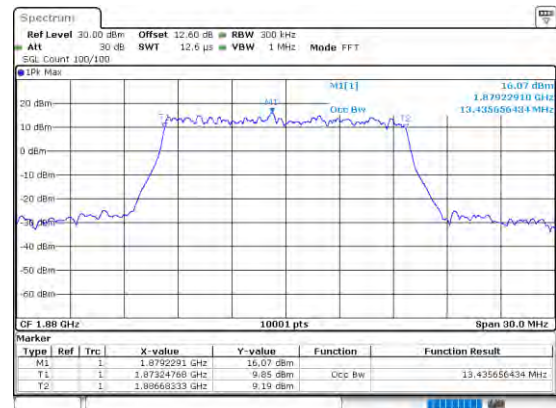
Date: 2024-09-24 18:28:24

Middle Channel / 15MHz / QPSK



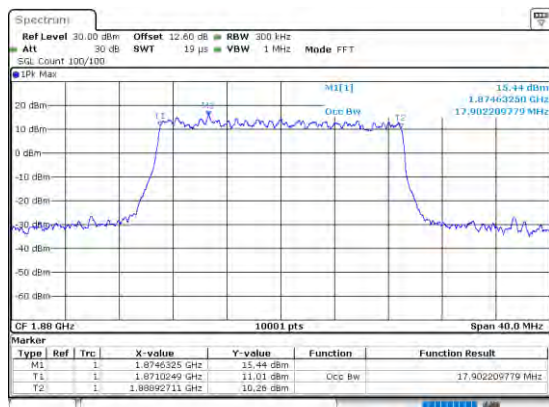
Date: 2024-09-24 18:59:12

Middle Channel / 15MHz / 16QAM



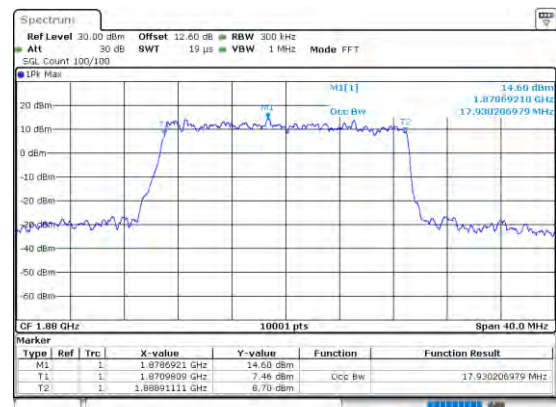
Date: 2024-09-24 19:04:12

Middle Channel / 20MHz / QPSK



Date: 2024-09-24 20:52:11

Middle Channel / 20MHz / 16QAM

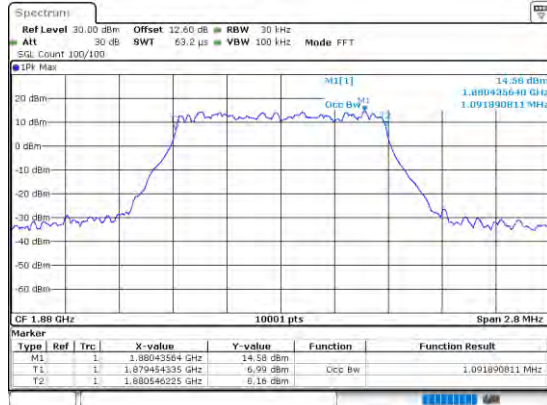


Date: 2024-09-24 20:52:50

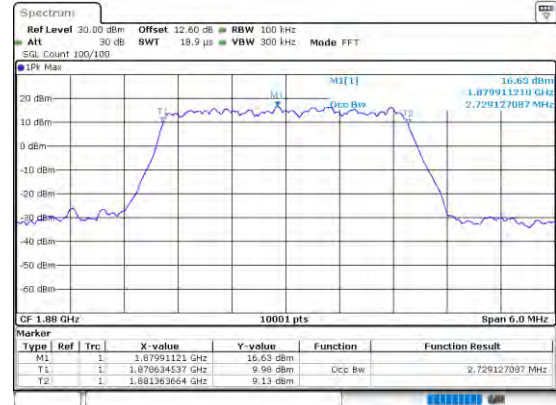


LTE Band 2

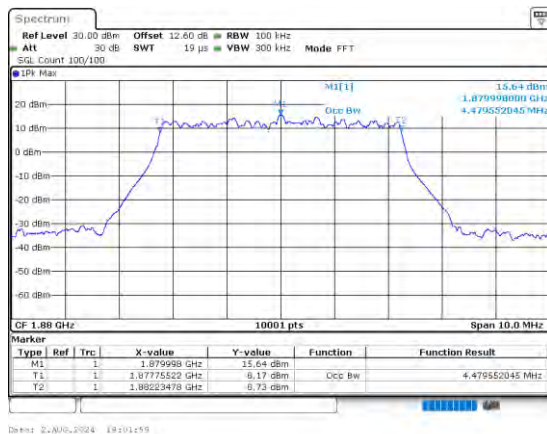
Middle Channel / 1.4MHz / 64QAM



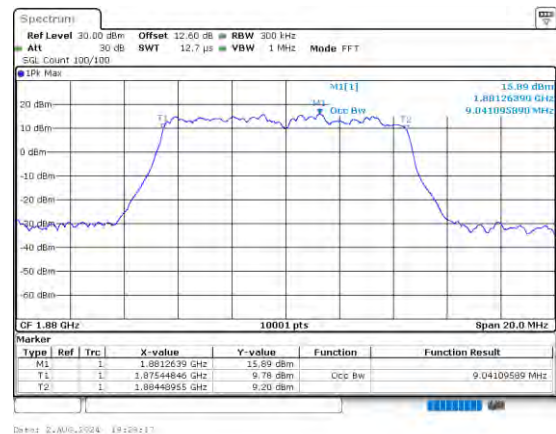
Middle Channel / 3MHz / 64QAM



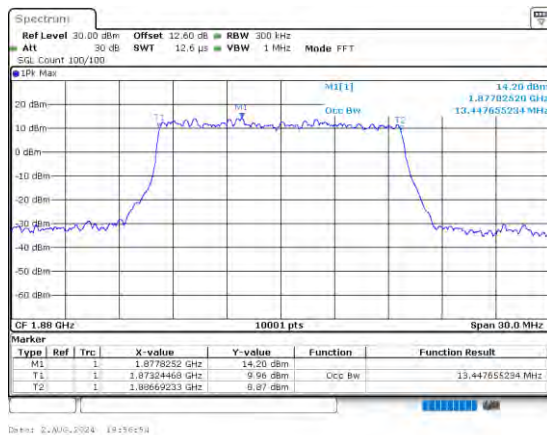
Middle Channel / 5MHz / 64QAM



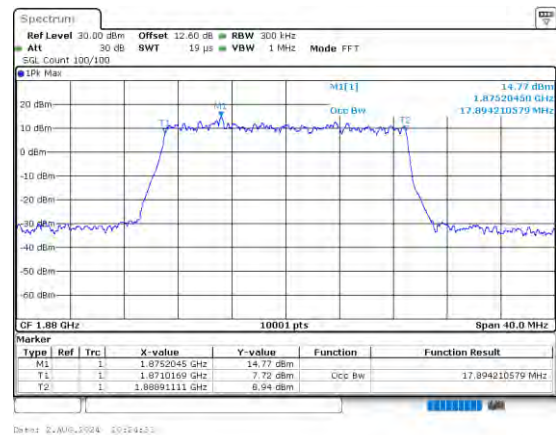
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



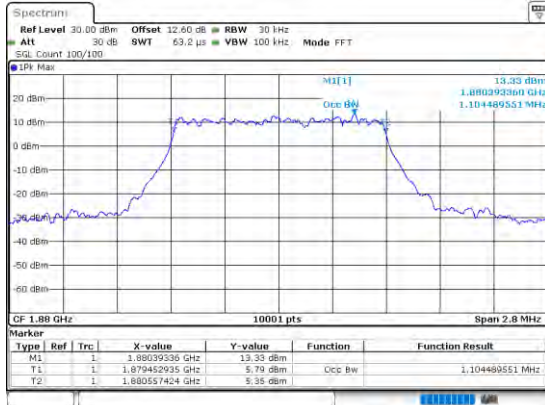
Middle Channel / 20MHz / 64QAM



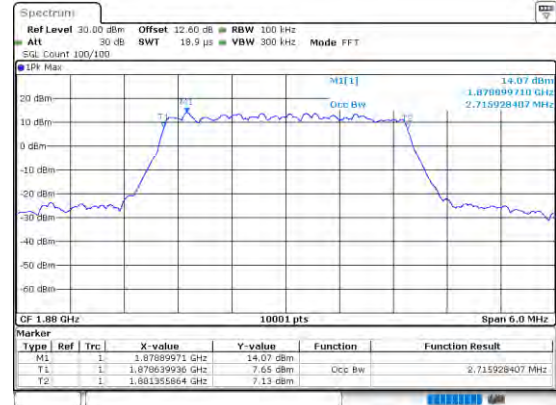


LTE Band 2

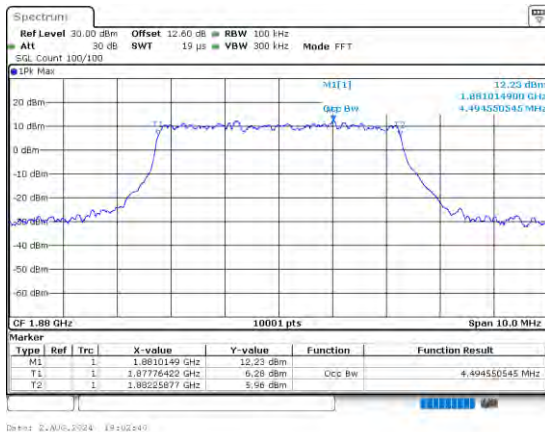
Middle Channel / 1.4MHz / 256QAM



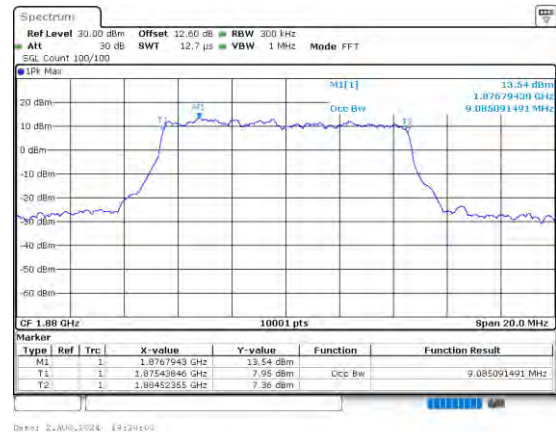
Middle Channel / 3MHz / 256QAM



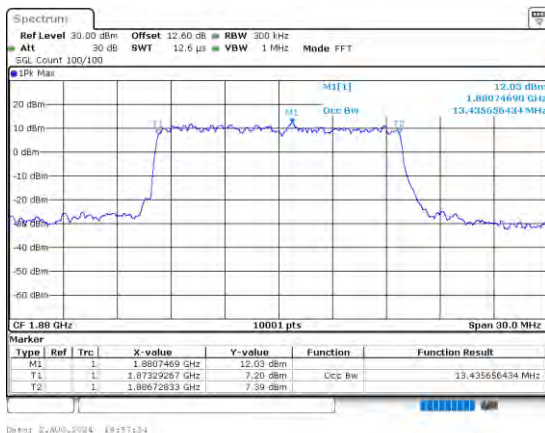
Middle Channel / 5MHz / 256QAM



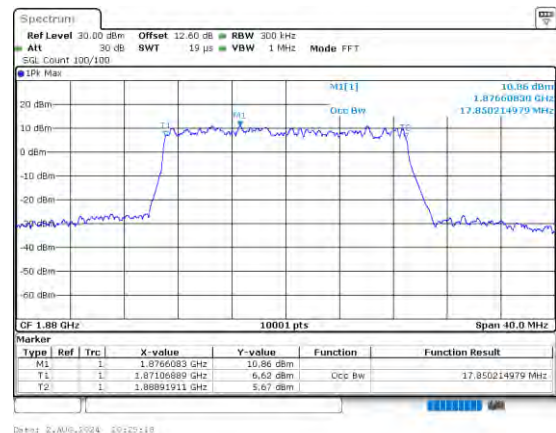
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

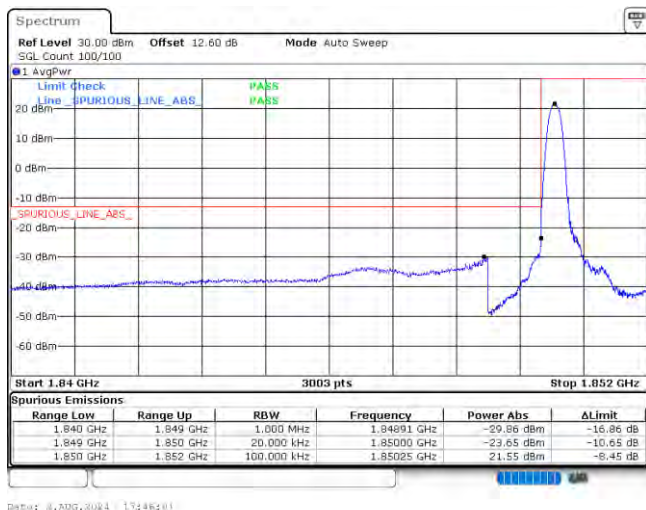




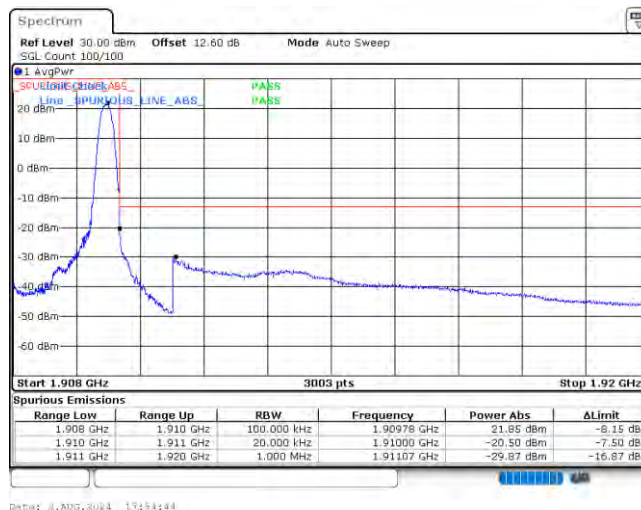
Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

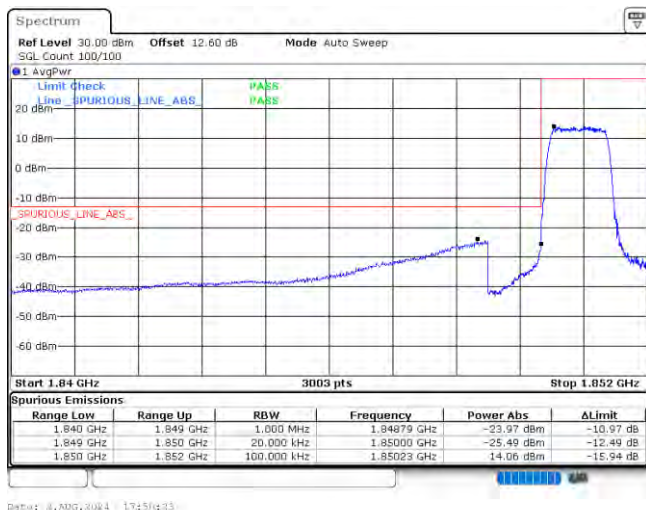
Lowest Band Edge / 1RB



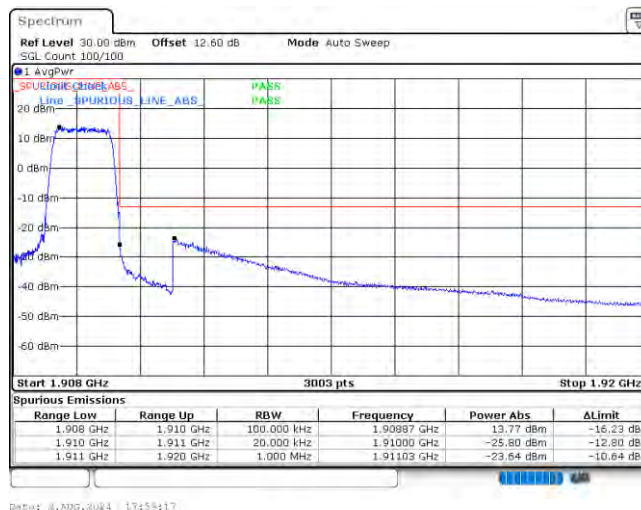
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

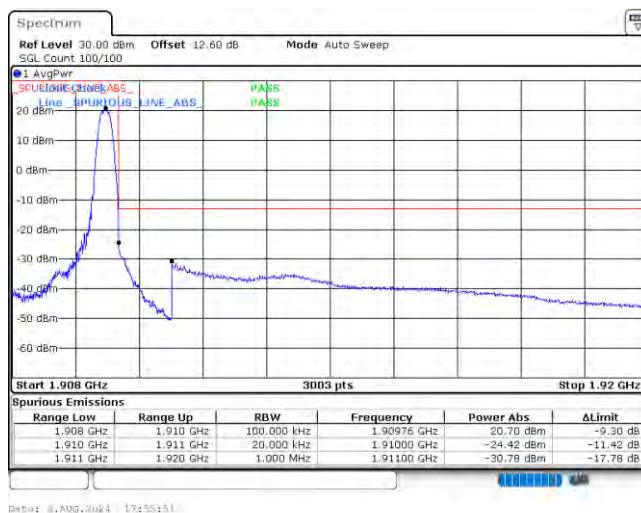
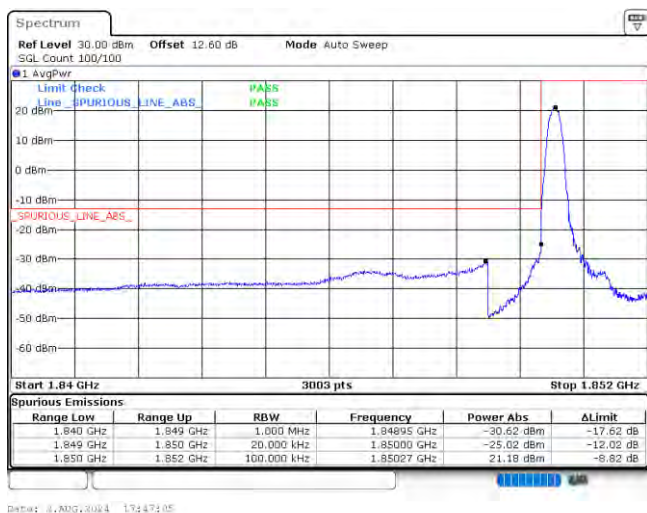




LTE Band 2 / 1.4MHz / 16QAM

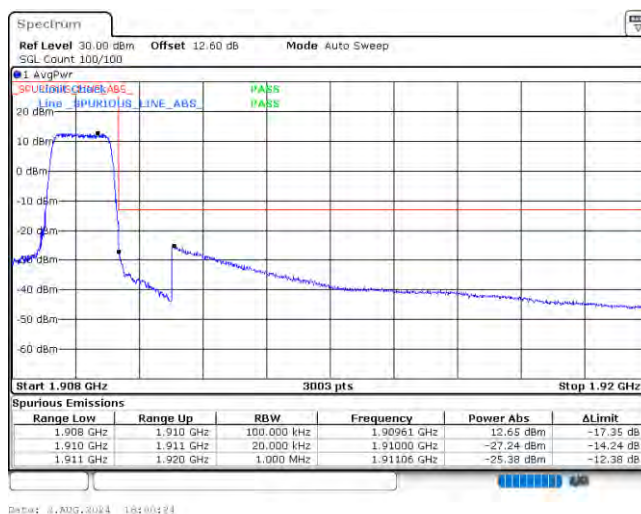
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

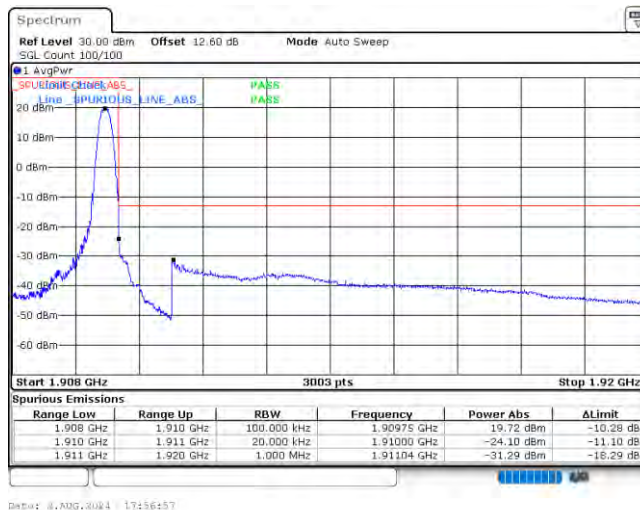
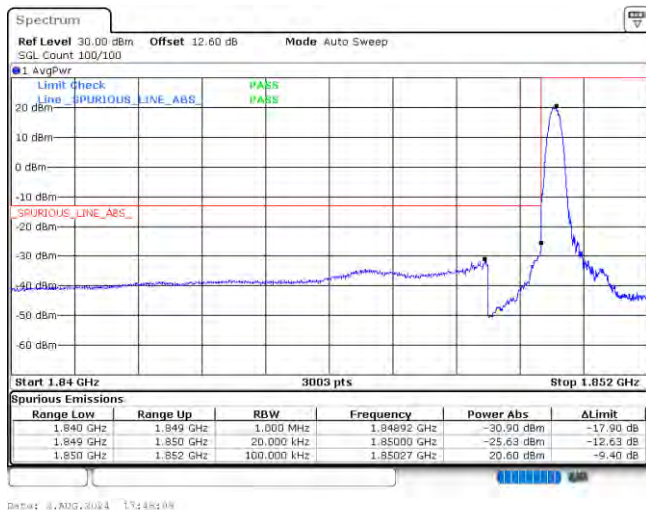




LTE Band 2 / 1.4MHz / 64QAM

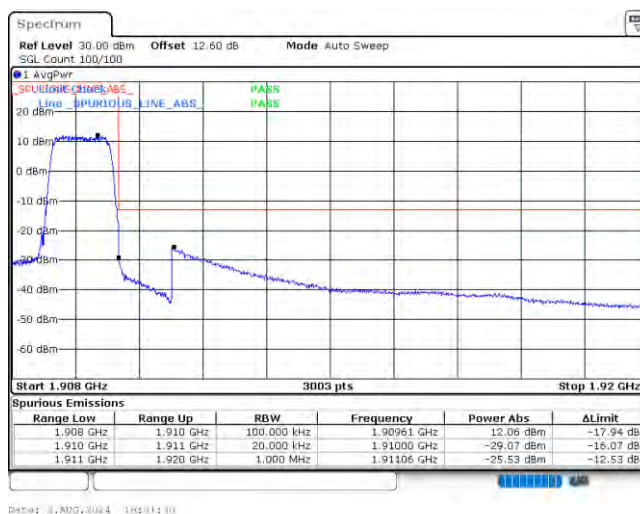
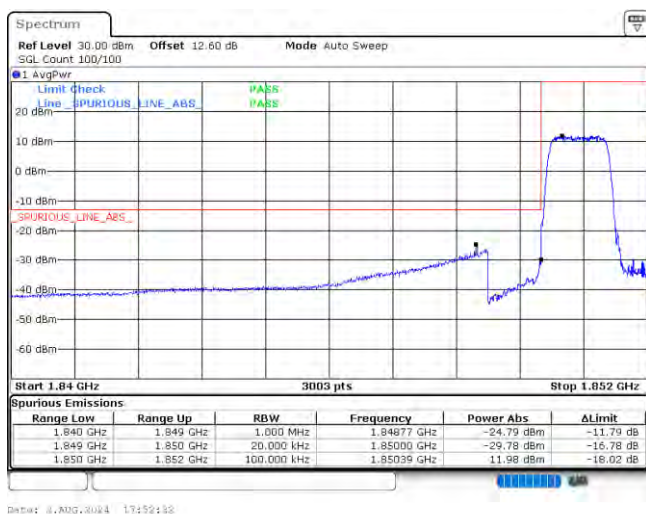
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

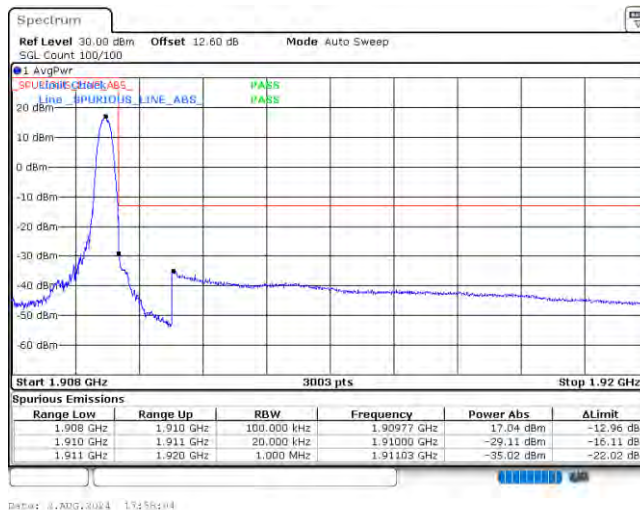
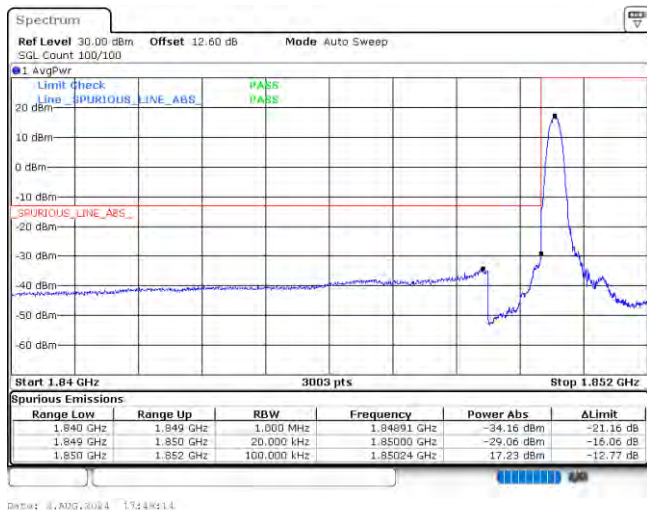




LTE Band 2 / 1.4MHz / 256QAM

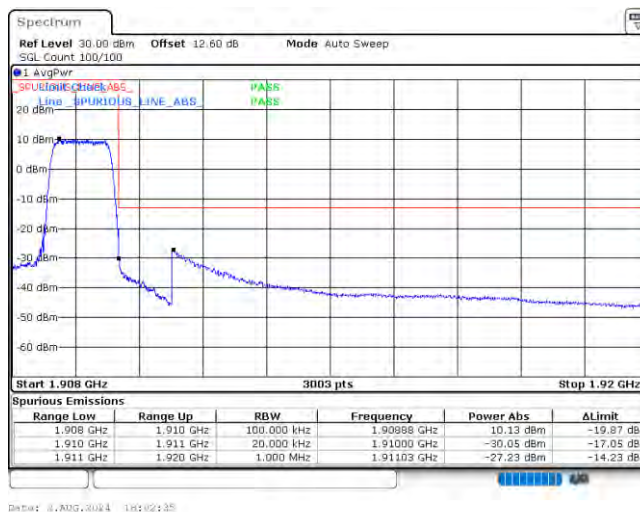
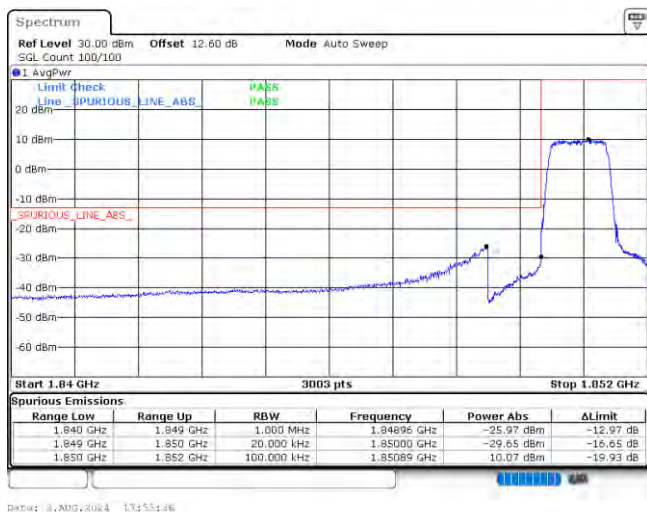
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

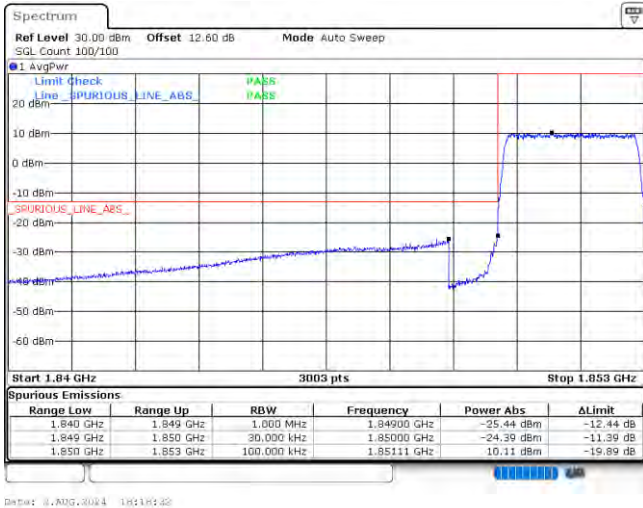
Highest Band Edge / Full RB



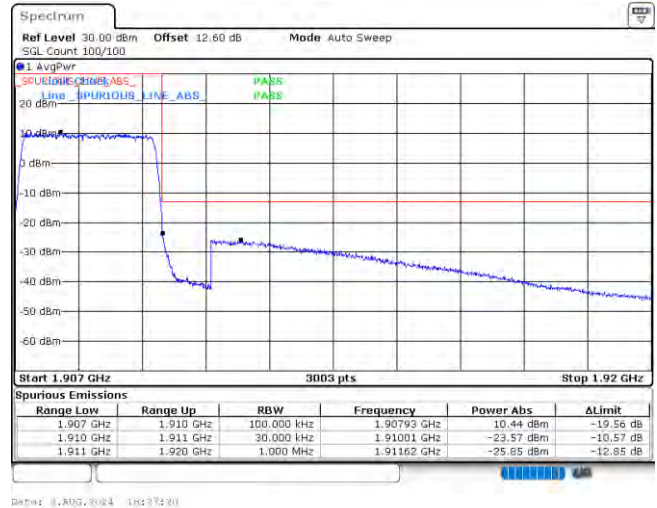


LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / Full RB

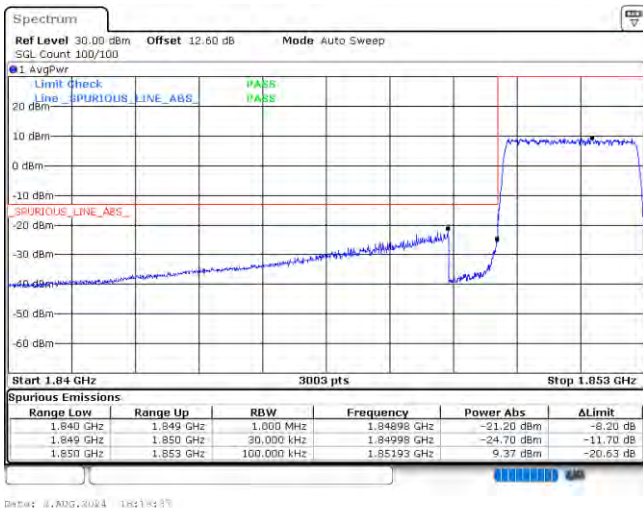


Highest Band Edge / Full RB

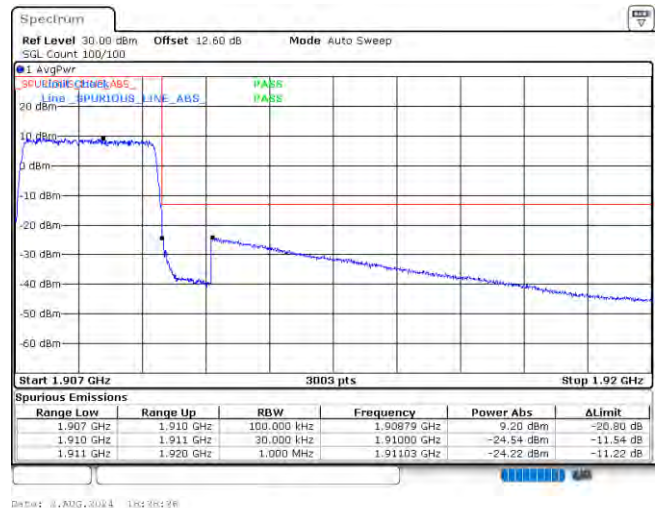


LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / Full RB



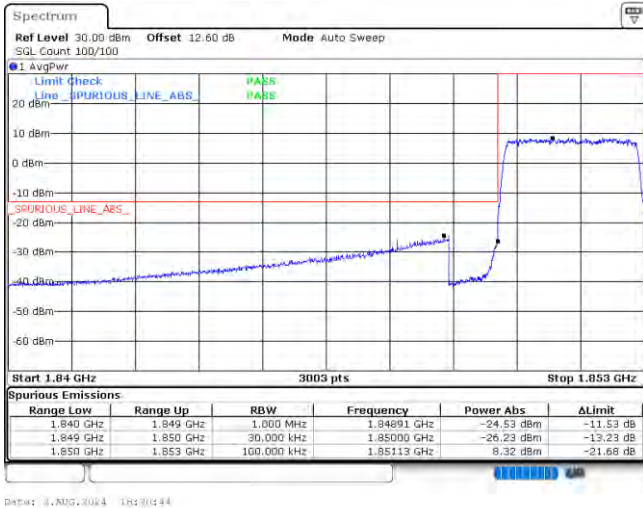
Highest Band Edge / Full RB



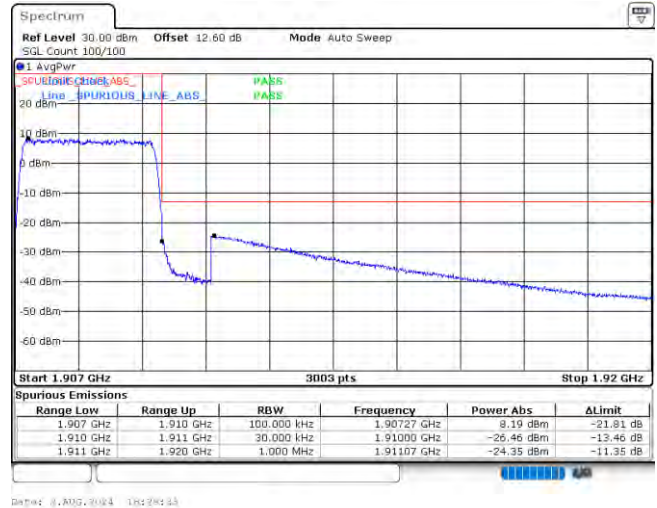


LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / Full RB

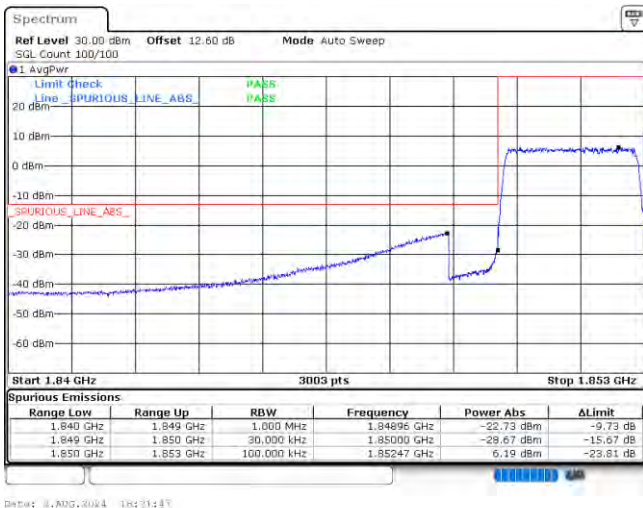


Highest Band Edge / Full RB

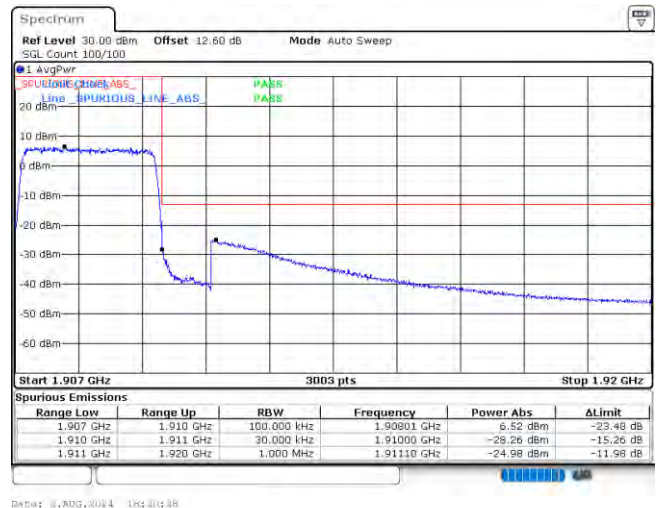


LTE Band 2 / 3MHz / 256QAM

Lowest Band Edge / Full RB



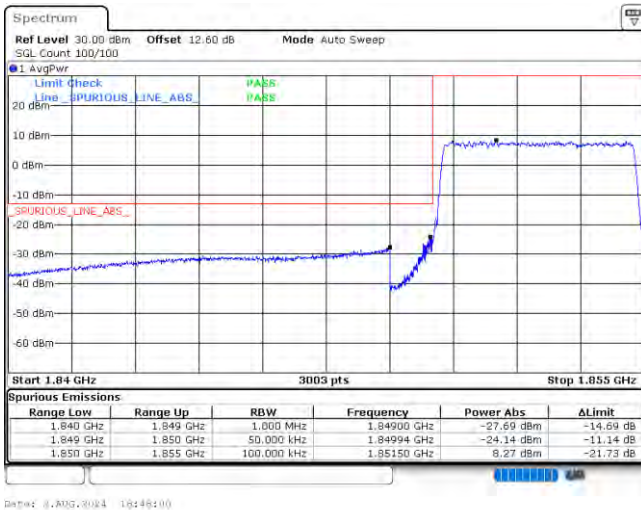
Highest Band Edge / Full RB



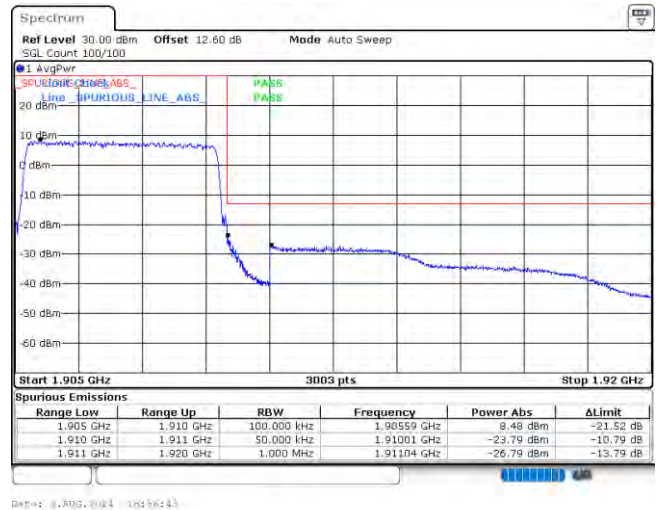


LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / Full RB

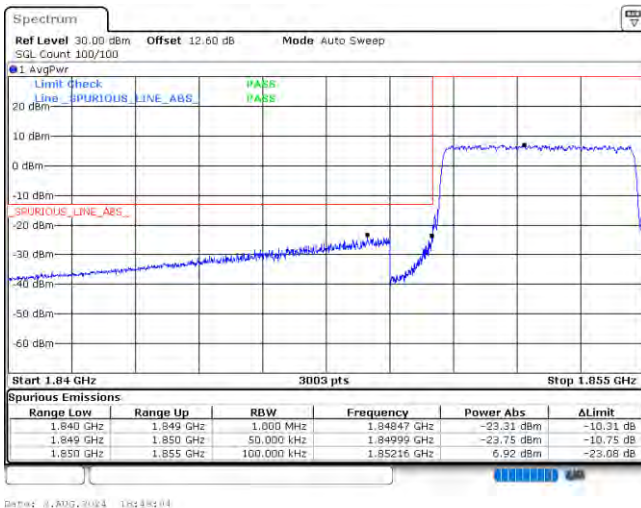


Highest Band Edge / Full RB

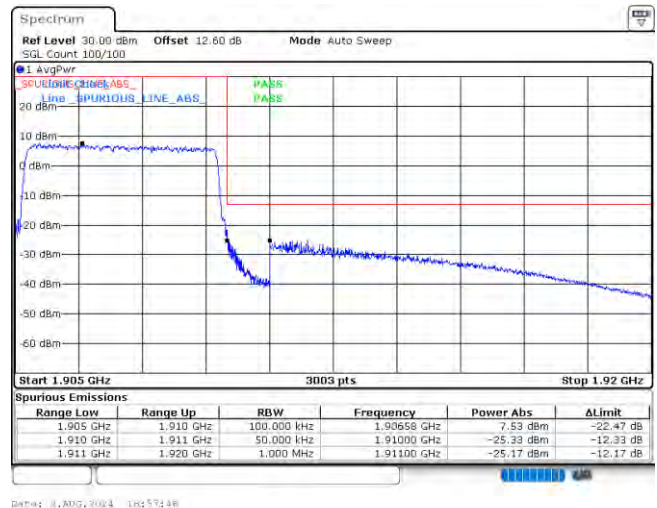


LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / Full RB



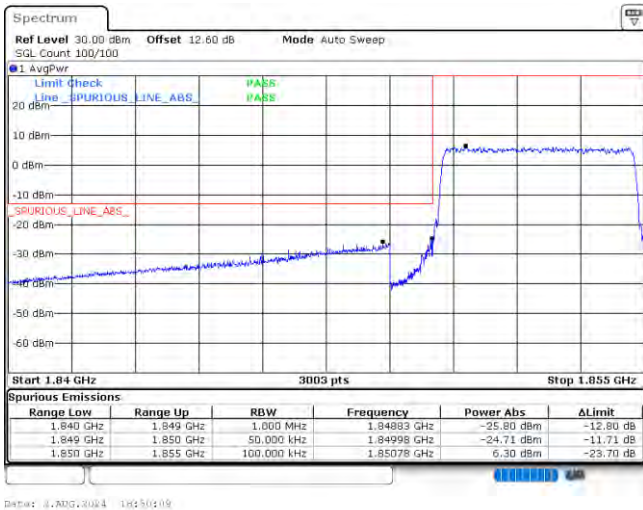
Highest Band Edge / Full RB



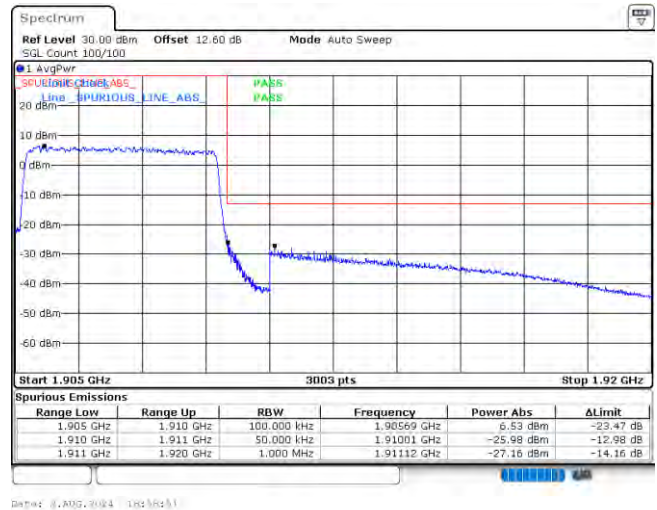


LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / Full RB

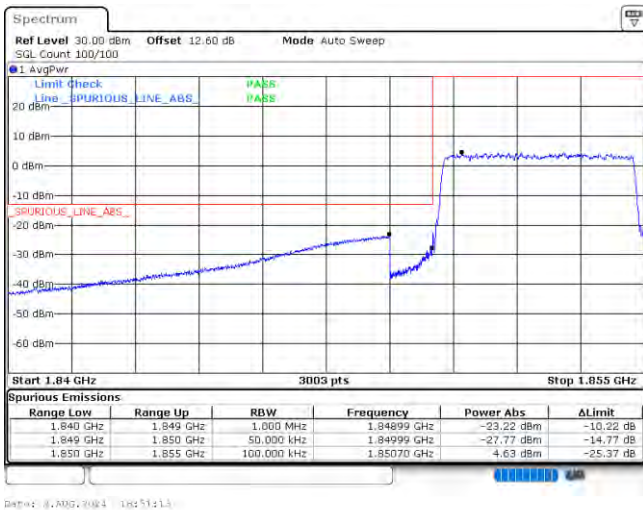


Highest Band Edge / Full RB

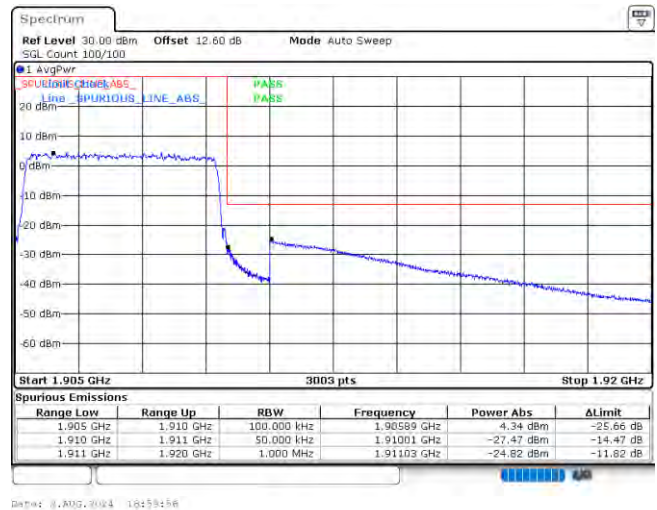


LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / Full RB



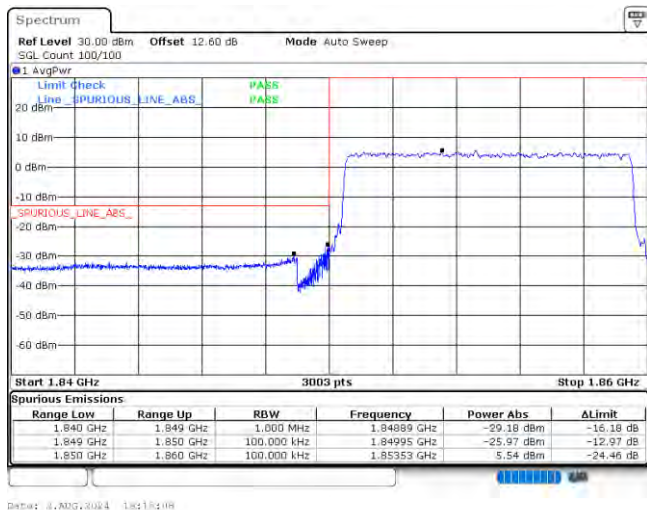
Highest Band Edge / Full RB



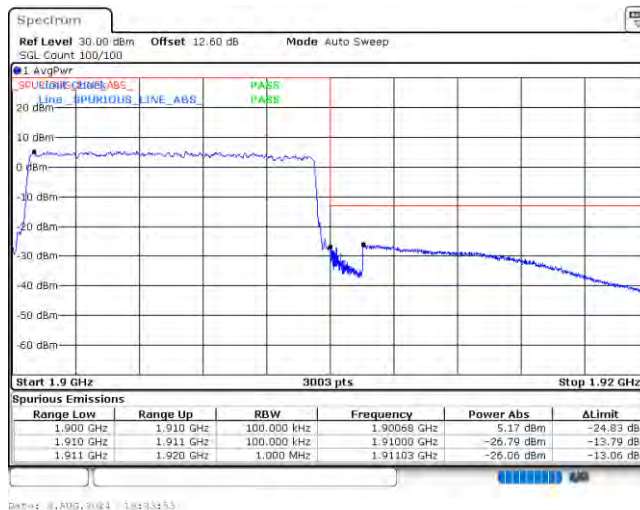


LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB

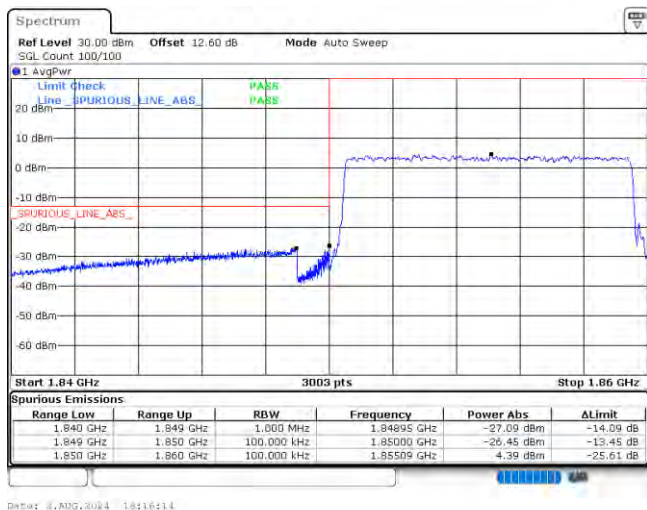


Highest Band Edge / Full RB

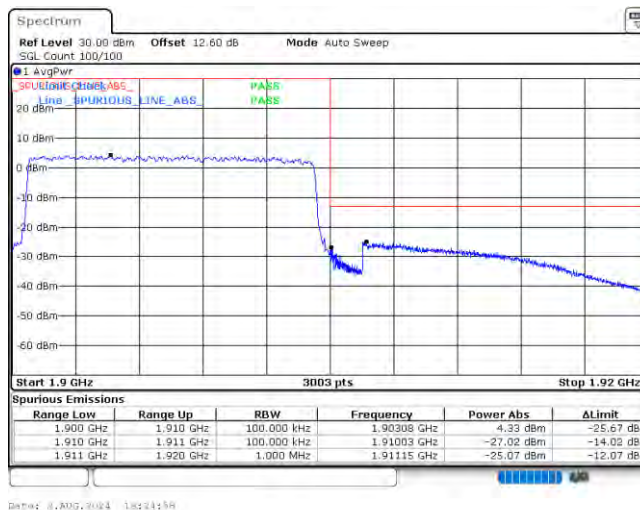


LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / Full RB



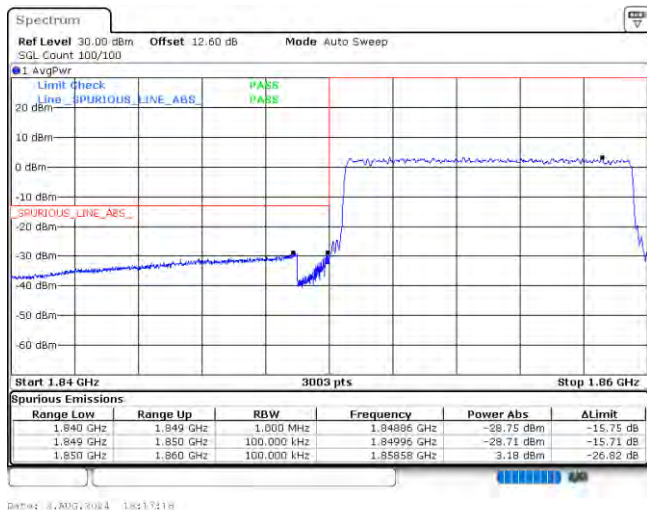
Highest Band Edge / Full RB



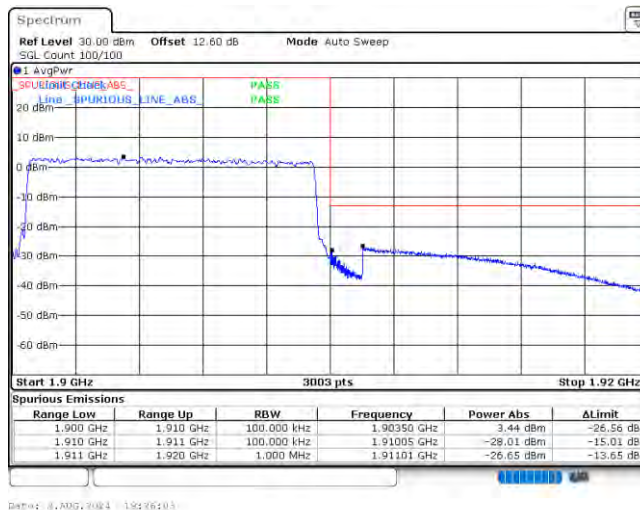


LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / Full RB

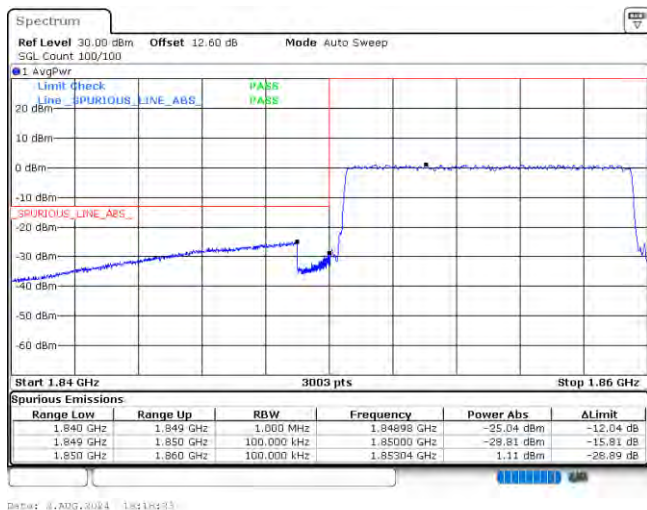


Highest Band Edge / Full RB

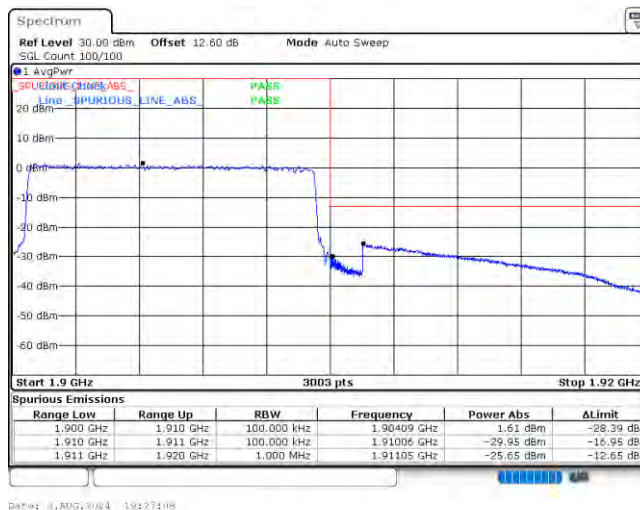


LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / Full RB



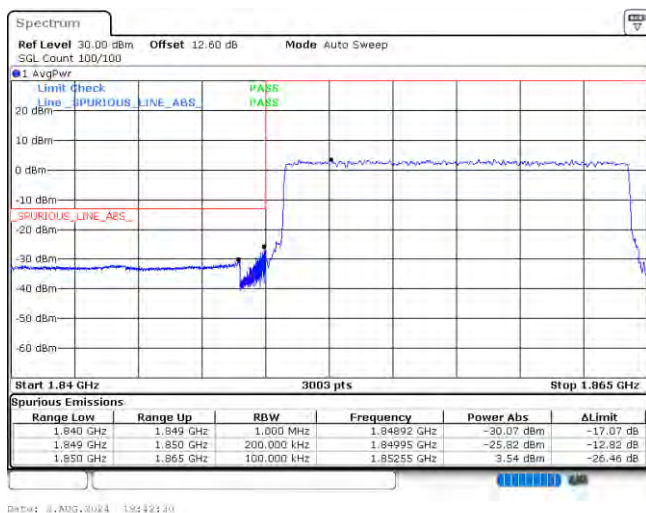
Highest Band Edge / Full RB



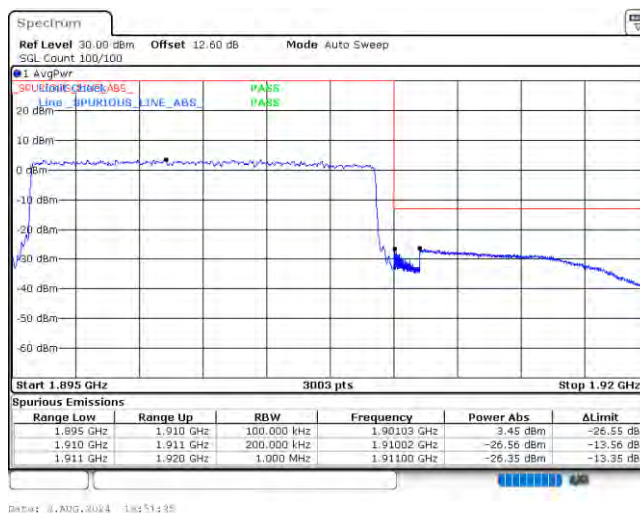


LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB

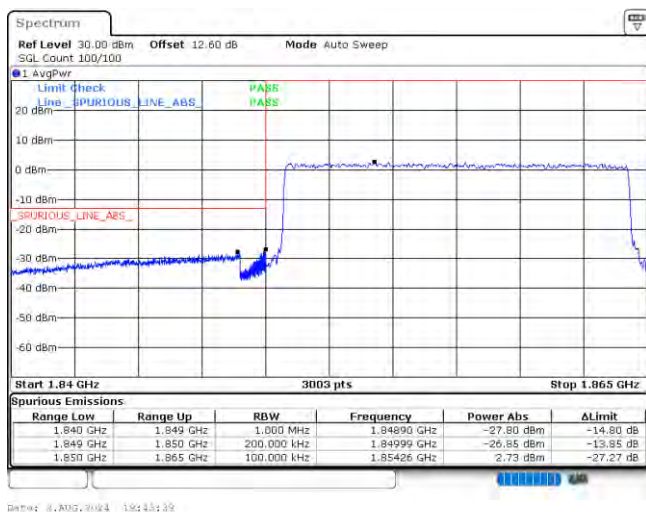


Highest Band Edge / Full RB

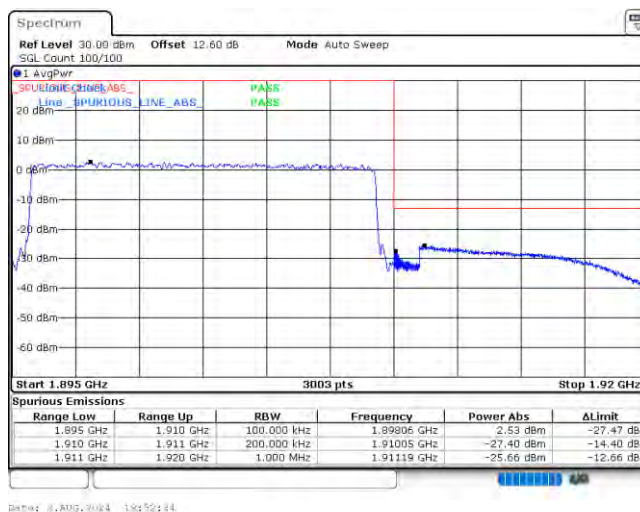


LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / Full RB



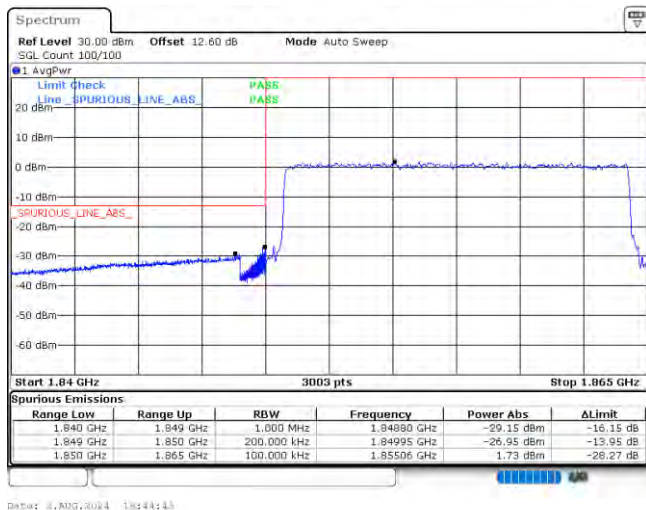
Highest Band Edge / Full RB



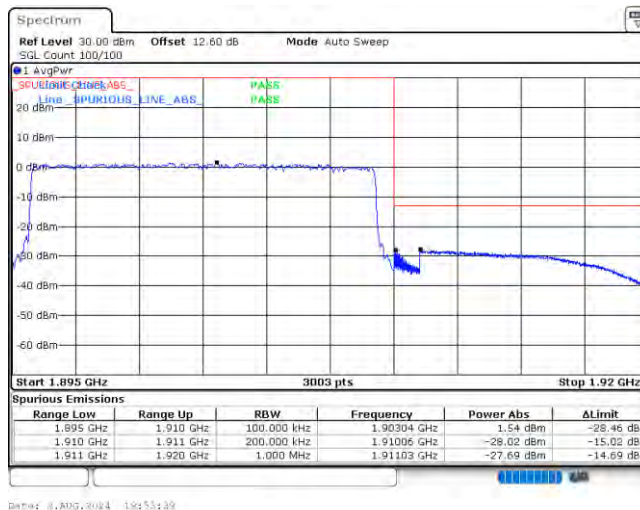


LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / Full RB

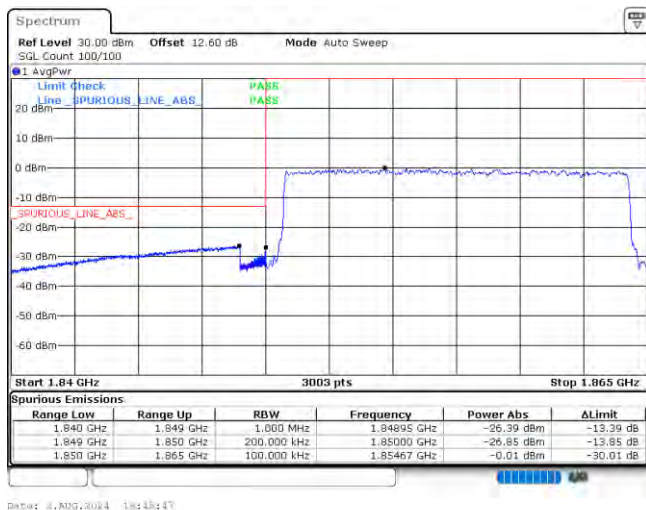


Highest Band Edge / Full RB

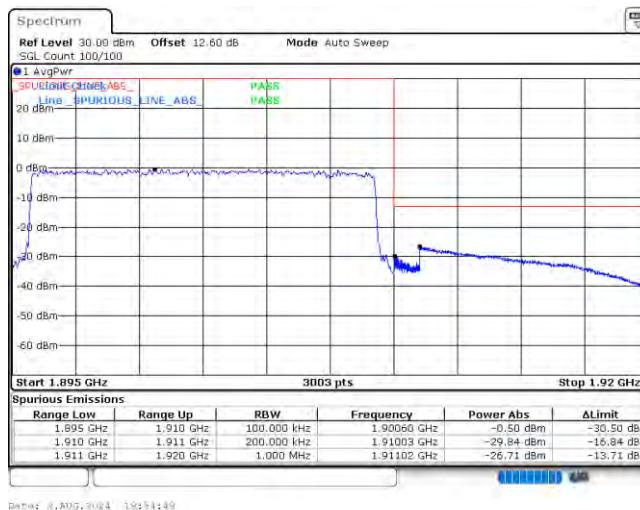


LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / Full RB



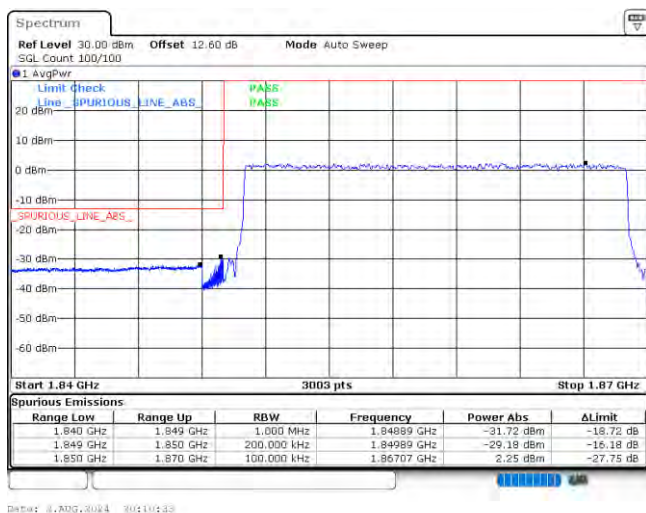
Highest Band Edge / Full RB



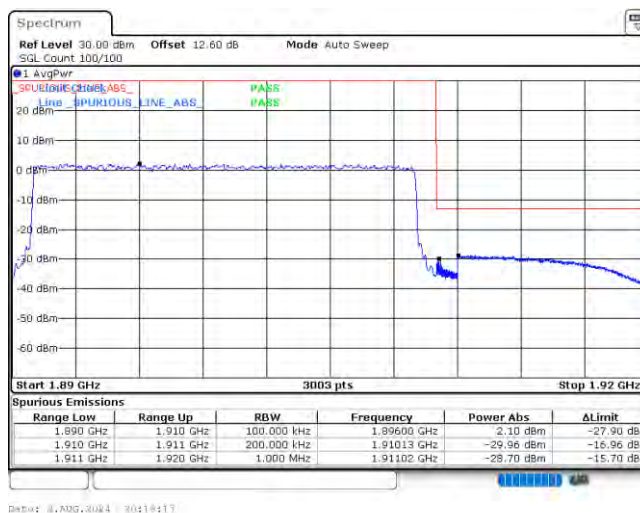


LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB

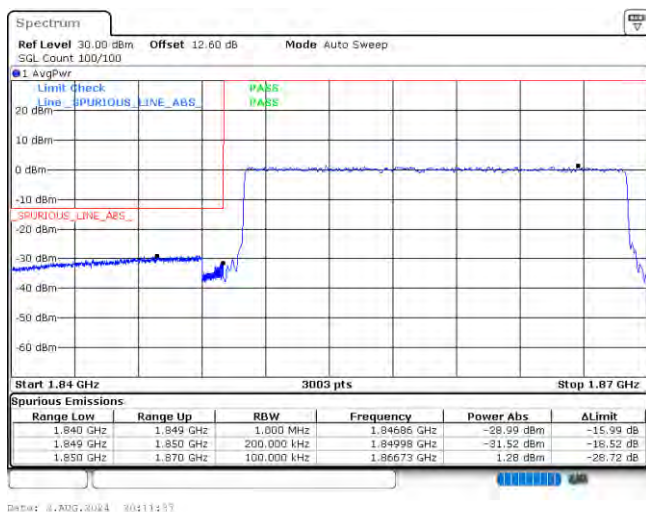


Highest Band Edge / Full RB

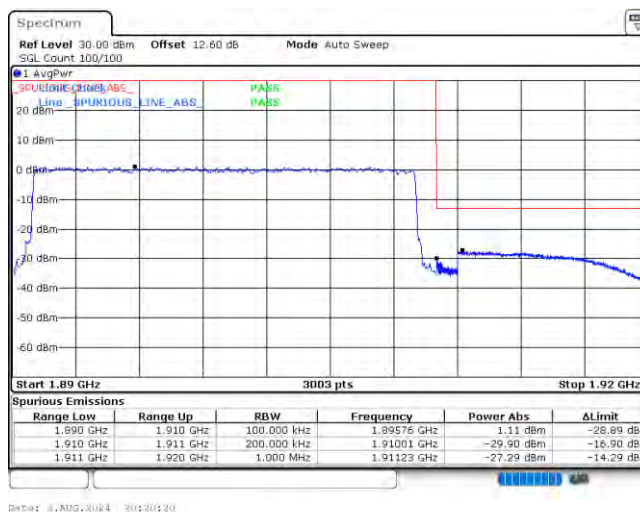


LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / Full RB



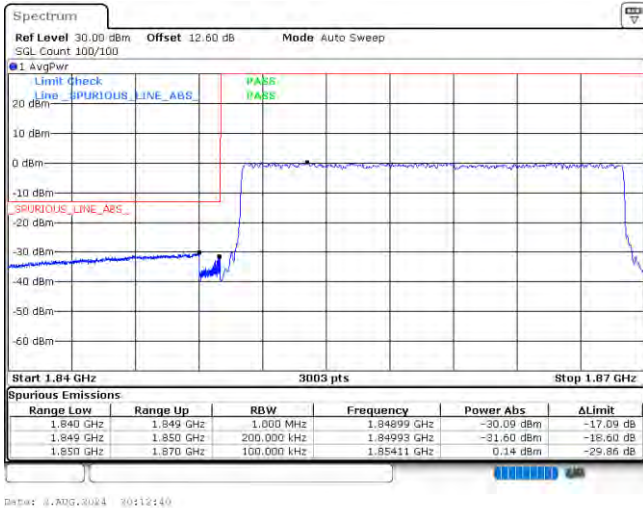
Highest Band Edge / Full RB



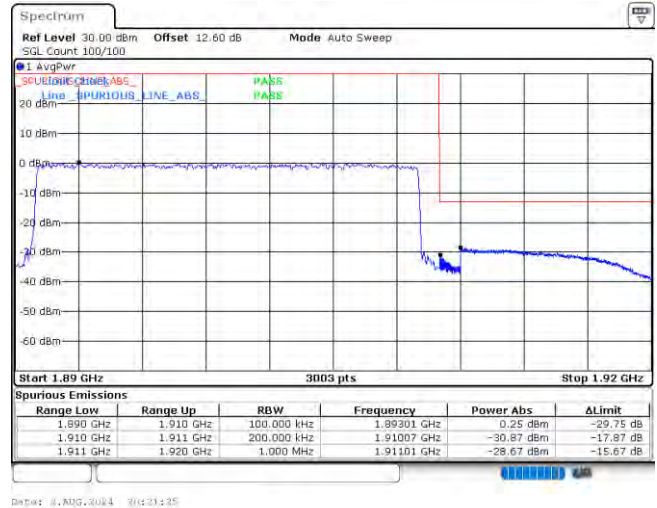


LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / Full RB

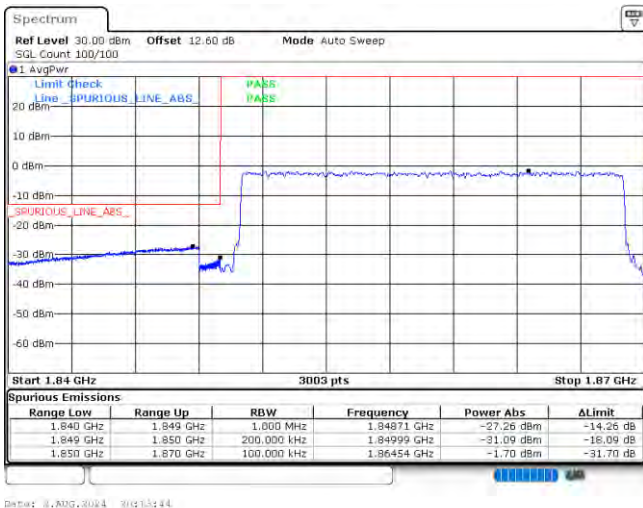


Highest Band Edge / Full RB

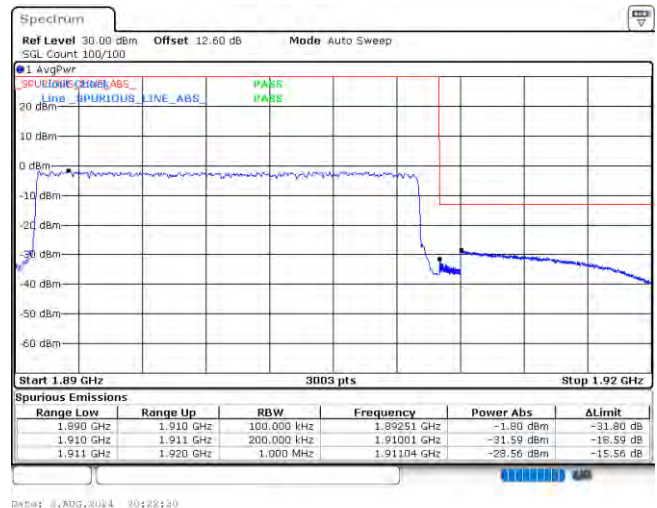


LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

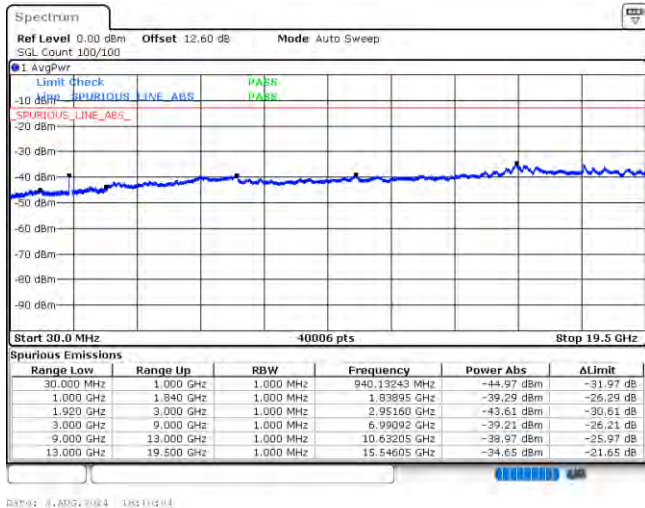




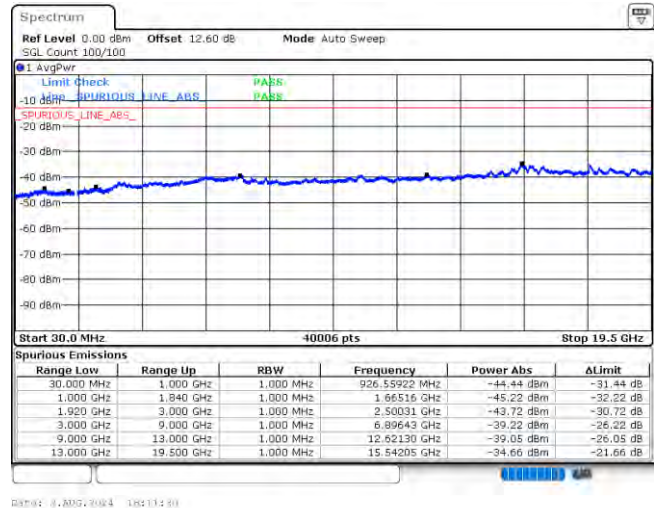
Conducted Spurious Emission

LTE Band 2 / 1.4MHz

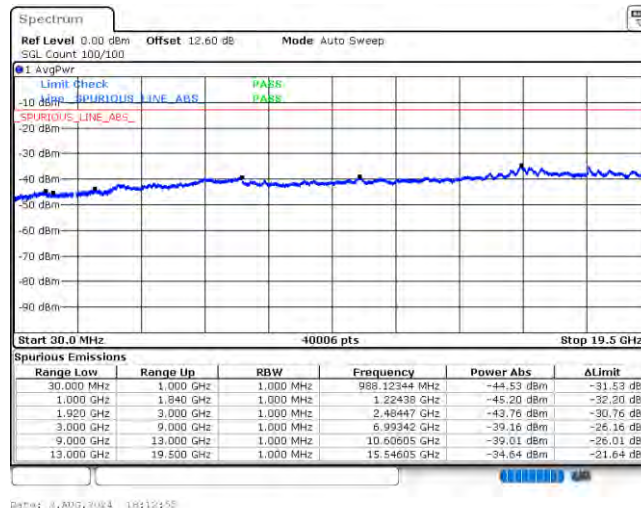
Lowest Channel / QPSK



Middle Channel / QPSK

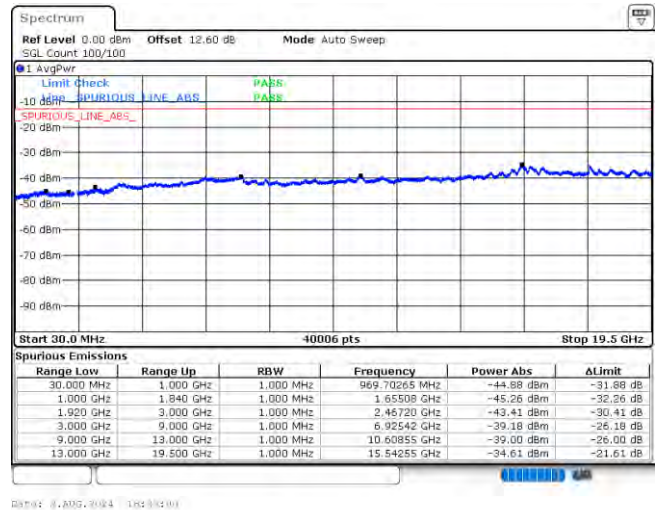


Highest Channel / QPSK





Middle Channel / QPSK



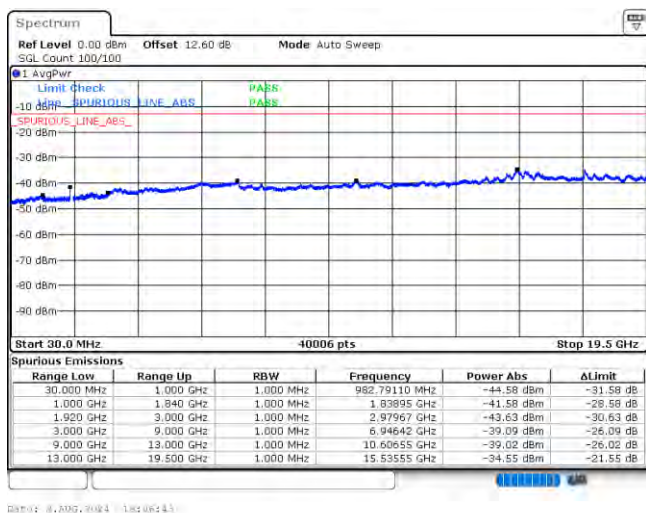
Highest Channel / QPSK



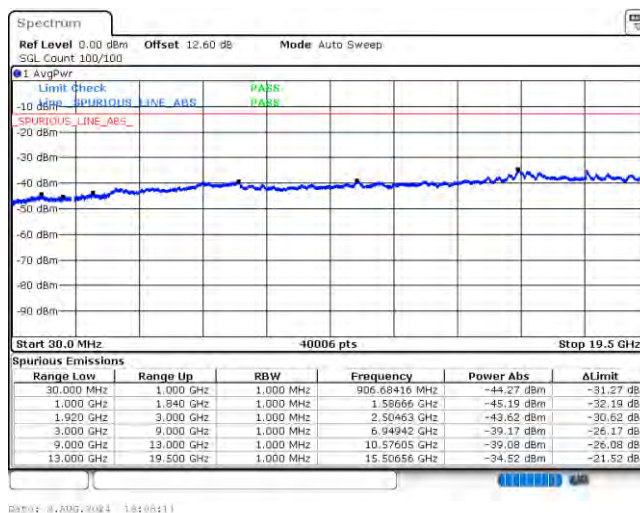


LTE Band 2 / 5MHz

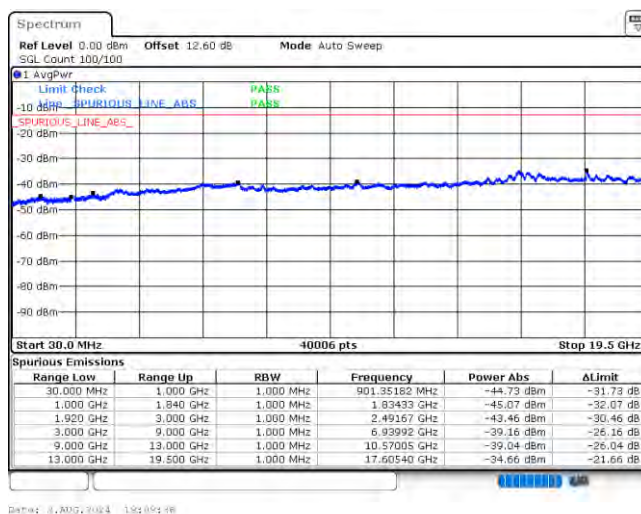
Lowest Channel / QPSK



Middle Channel / QPSK



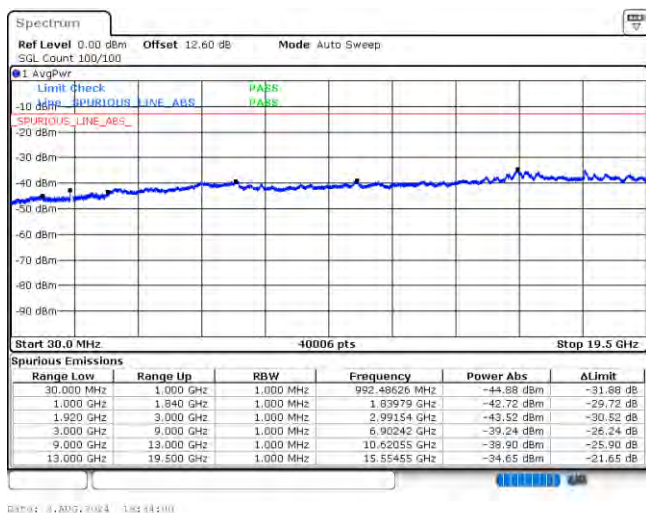
Highest Channel / QPSK



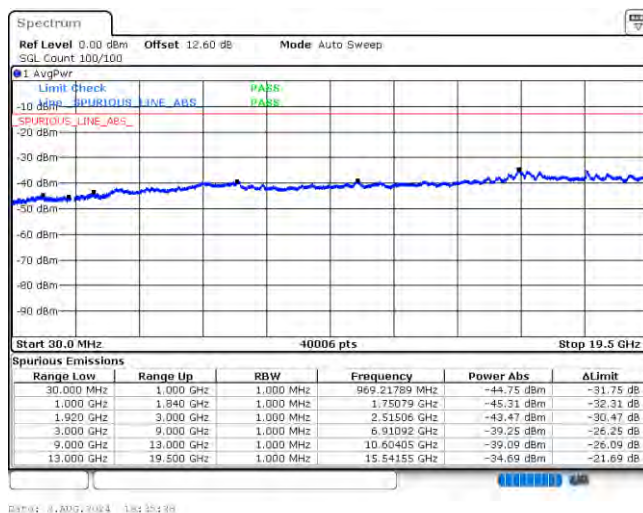


LTE Band 2 / 10MHz

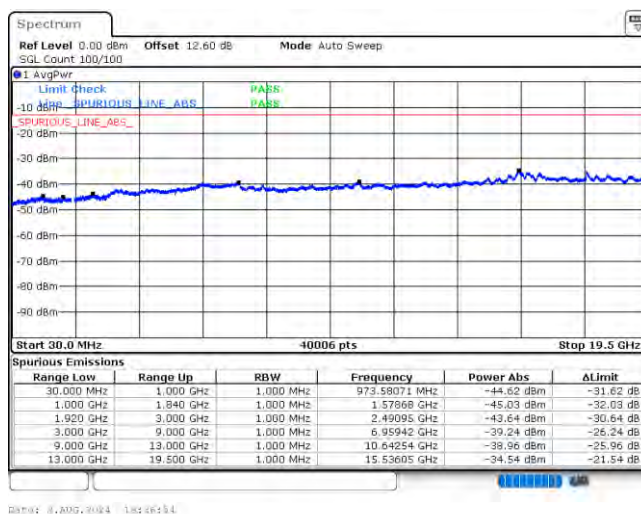
Lowest Channel / QPSK



Middle Channel / QPSK



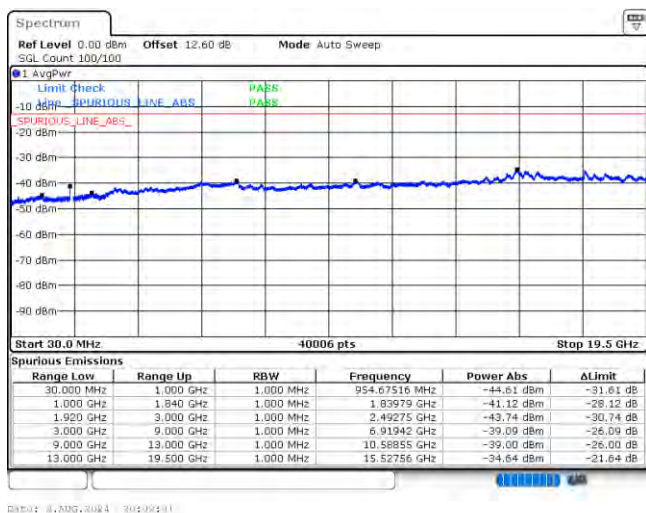
Highest Channel / QPSK



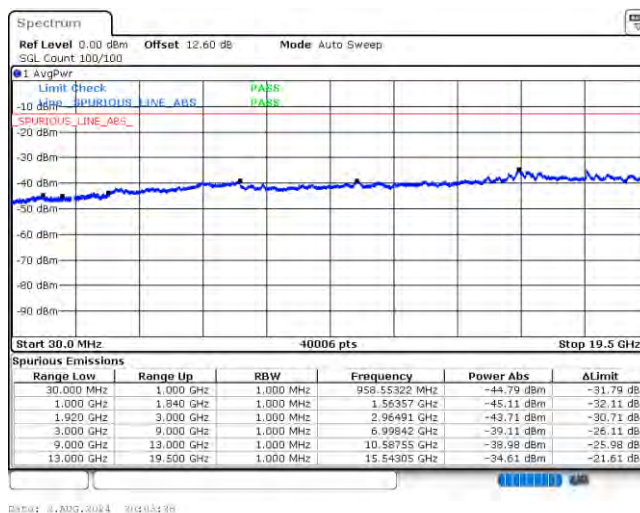


LTE Band 2 / 15MHz

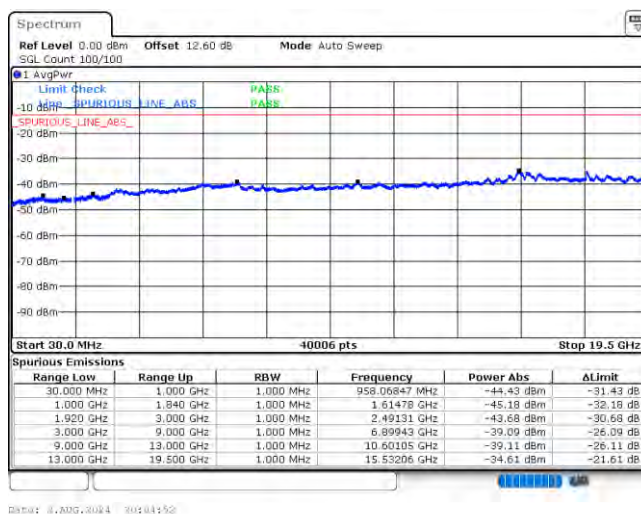
Lowest Channel / QPSK



Middle Channel / QPSK



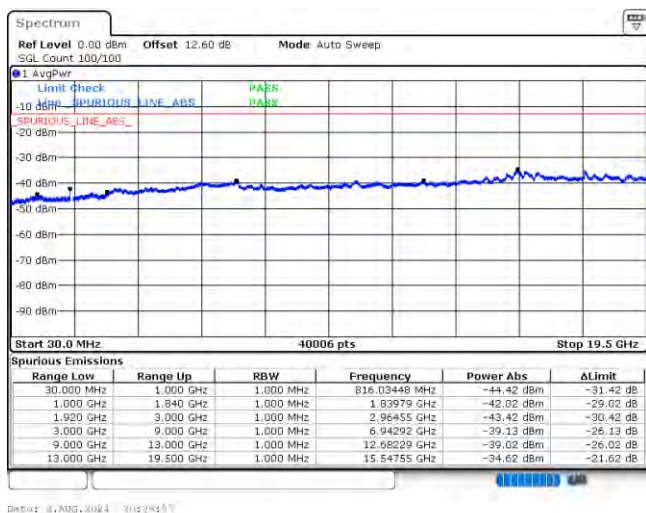
Highest Channel / QPSK



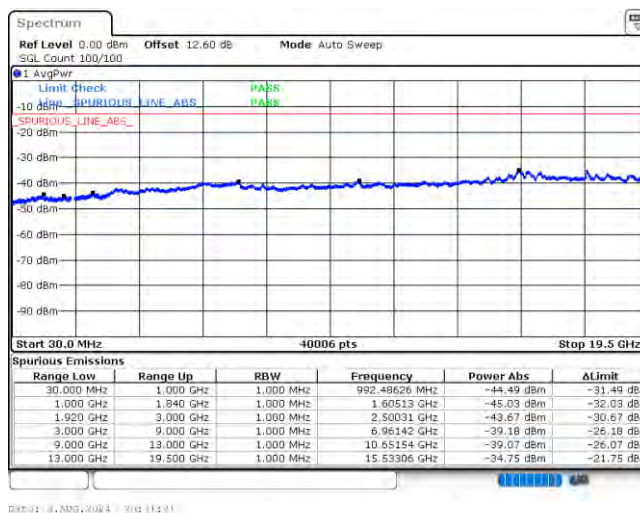


LTE Band 2 / 20MHz

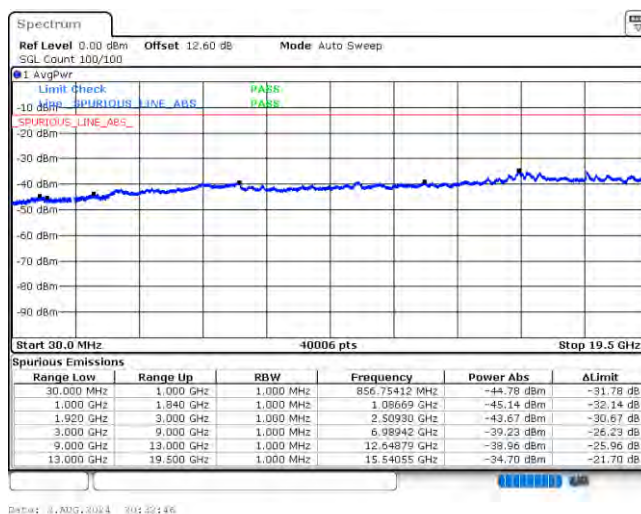
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0041	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

Note:

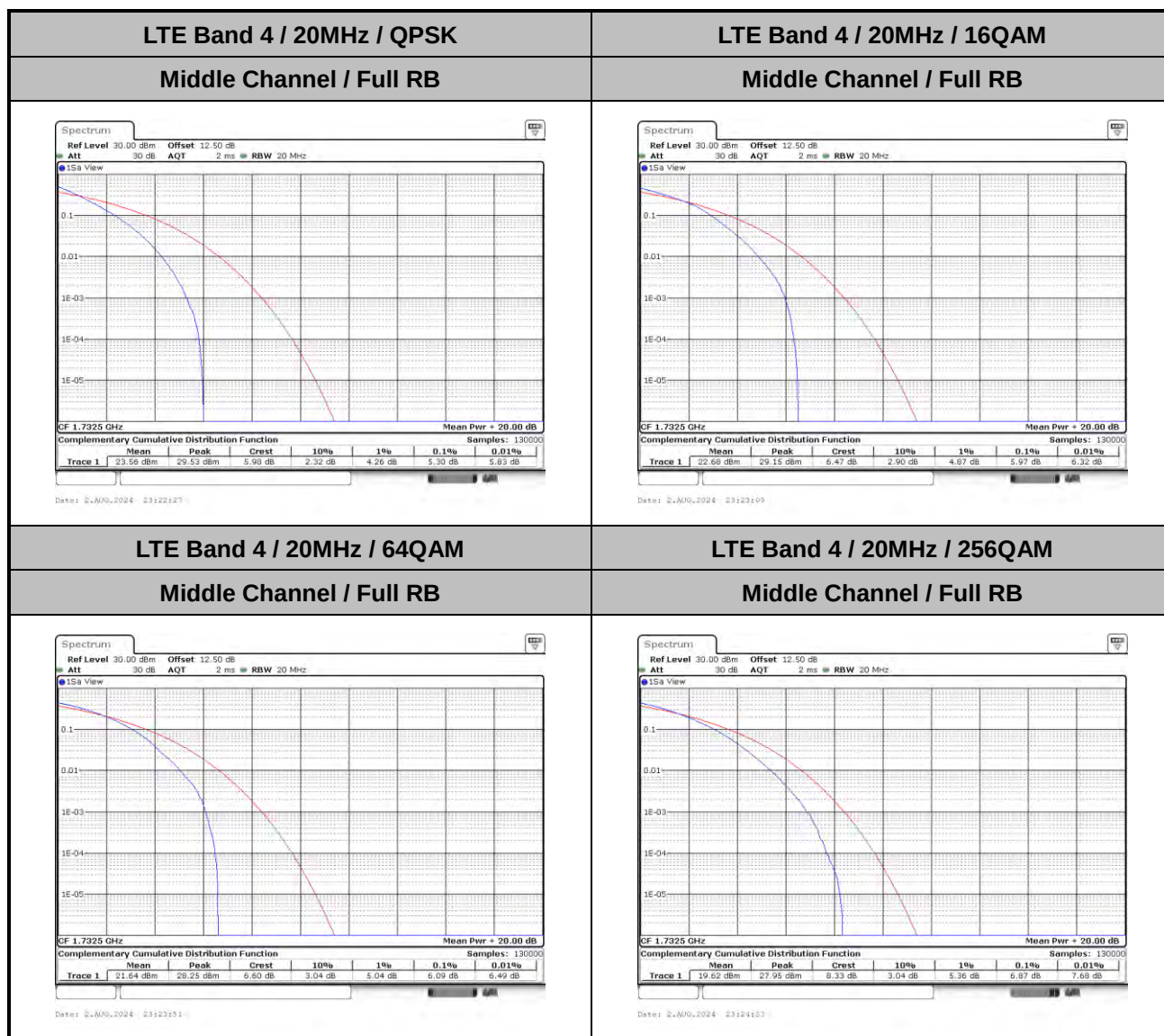
1. Normal Voltage = 3.9 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.30	5.97	6.09	6.87	PASS



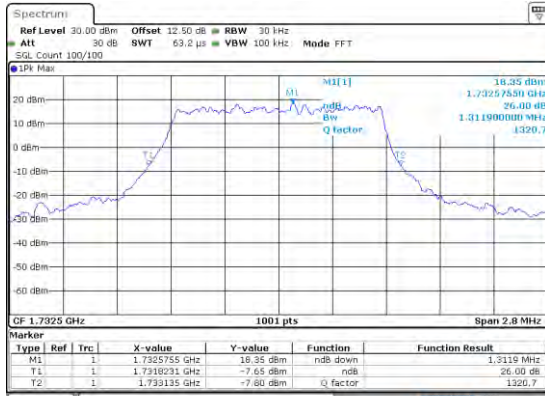
**26dB Bandwidth**

Mode	LTE Band 4 : 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	1.31	1.31	3.14	3.14	5.31	5.13	9.76	9.78	14.77	14.17	19.18	19.30
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.28	1.30	3.11	3.06	5.05	5.21	9.71	9.68	14.29	14.23	19.18	19.26



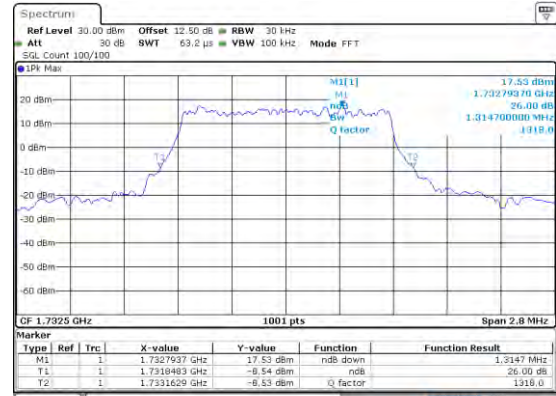
LTE Band 4

Middle Channel / 1.4MHz / QPSK



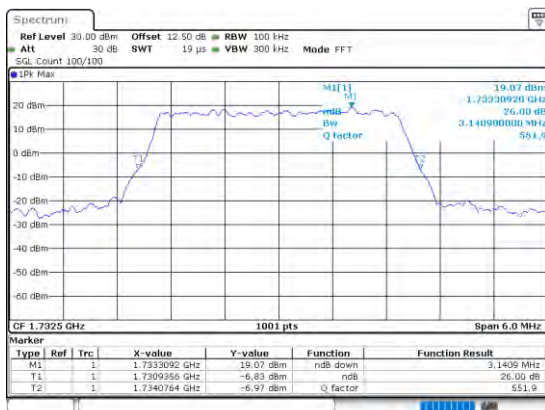
Date: 21/06/2024 20:19:42

Middle Channel / 1.4MHz / 16QAM



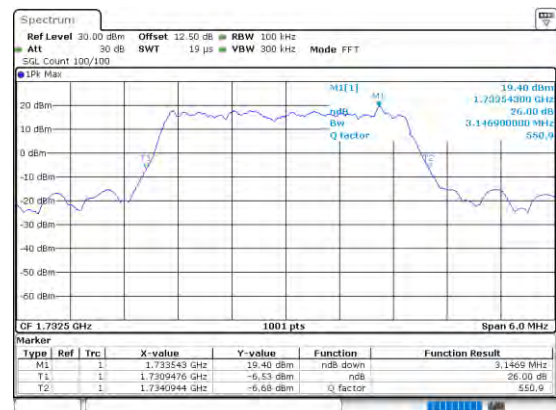
Date: 21/06/2024 20:19:12

Middle Channel / 3MHz / QPSK



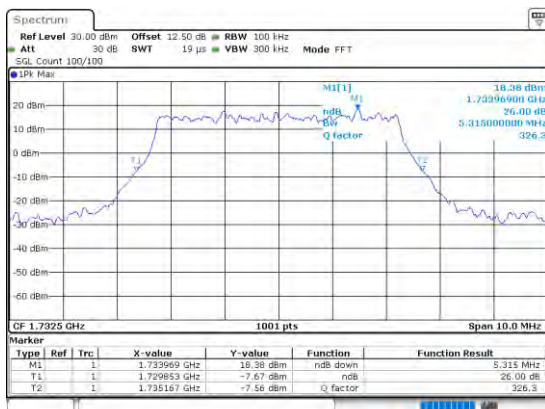
Date: 21/06/2024 21:25:21

Middle Channel / 3MHz / 16QAM



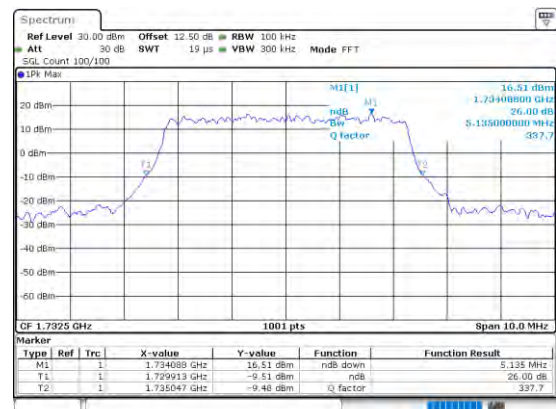
Date: 21/06/2024 21:25:10

Middle Channel / 5MHz / QPSK



Date: 21/06/2024 21:55:22

Middle Channel / 5MHz / 16QAM

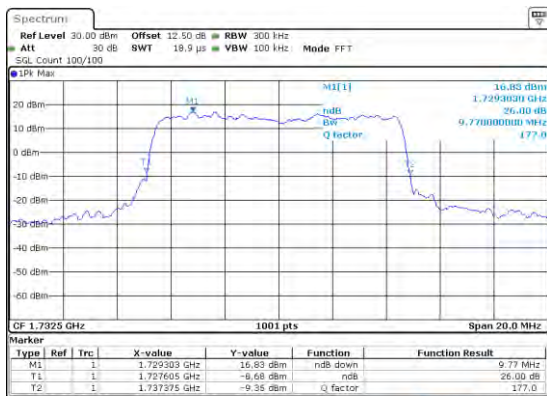


Date: 21/06/2024 21:57:06



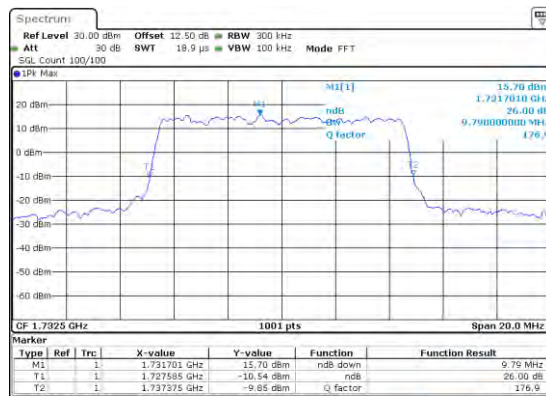
LTE Band 4

Middle Channel / 10MHz / QPSK



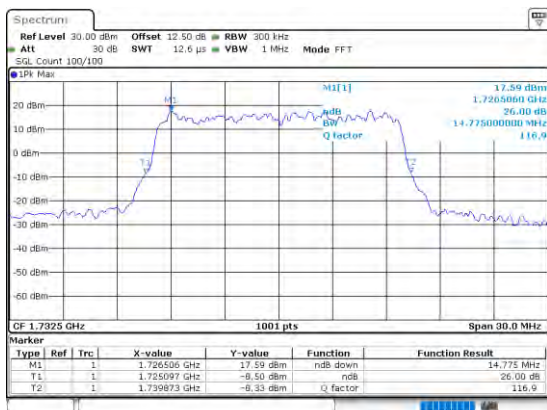
Data: 2024-02-19 14:33

Middle Channel / 10MHz / 16QAM



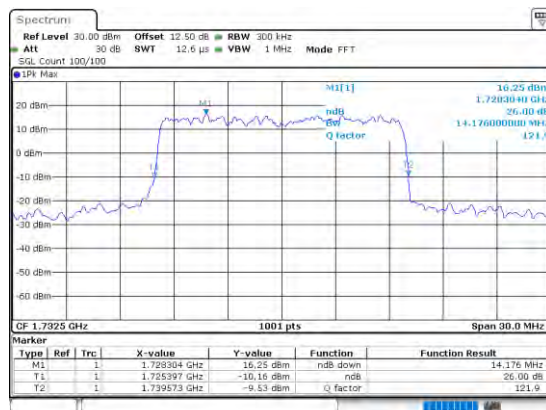
Data: 2024-02-19 14:22

Middle Channel / 15MHz / QPSK



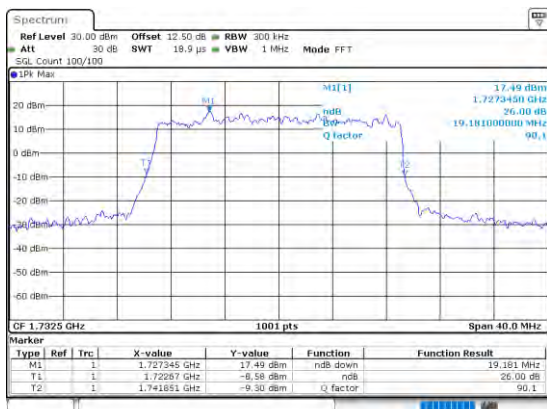
Data: 2024-02-19 14:16

Middle Channel / 15MHz / 16QAM



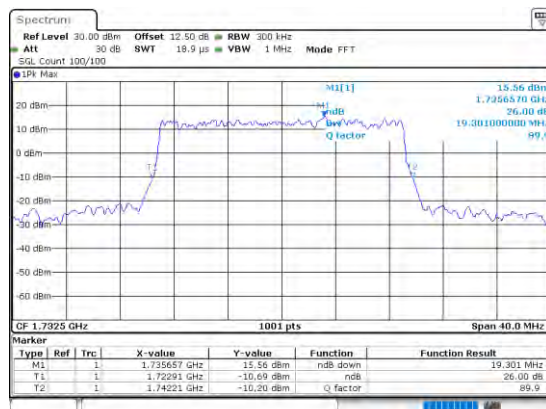
Data: 2024-02-19 14:16

Middle Channel / 20MHz / QPSK



Data: 2024-02-19 14:30

Middle Channel / 20MHz / 16QAM

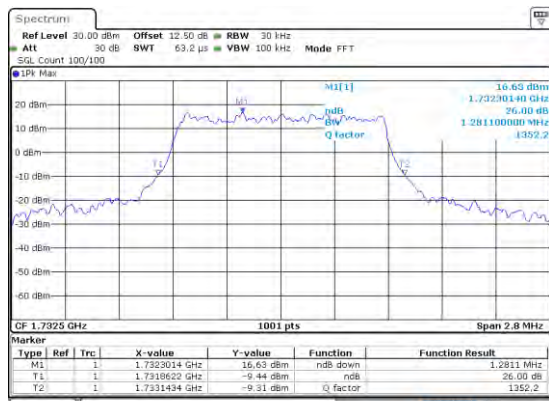


Data: 2024-02-19 14:09



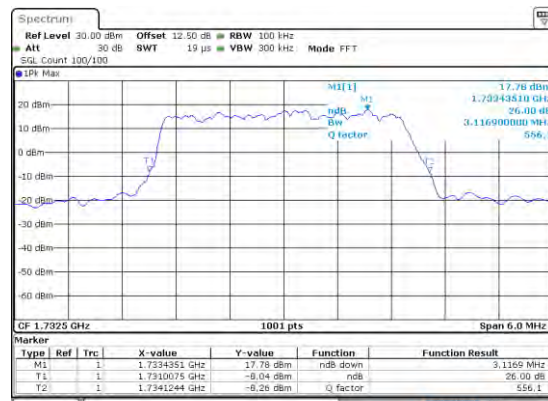
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



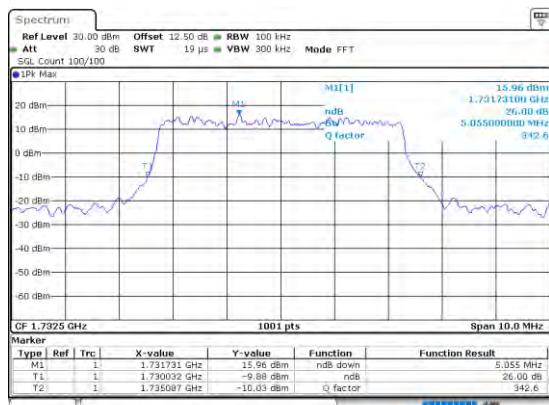
Date: 2024-02-24 10:19:10

Middle Channel / 3MHz / 64QAM



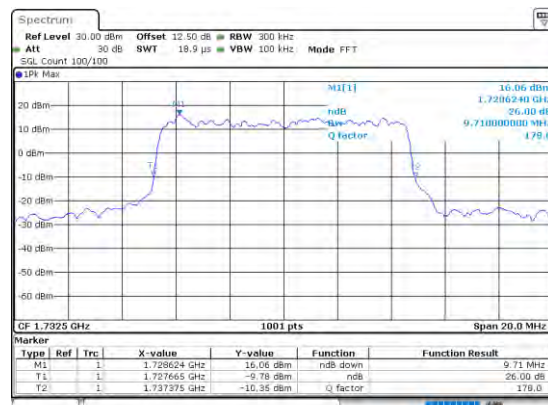
Date: 2024-02-24 11:25:55

Middle Channel / 5MHz / 64QAM



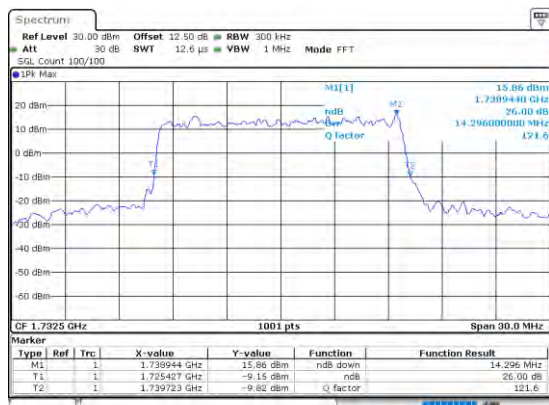
Date: 2024-02-24 11:31:43

Middle Channel / 10MHz / 64QAM



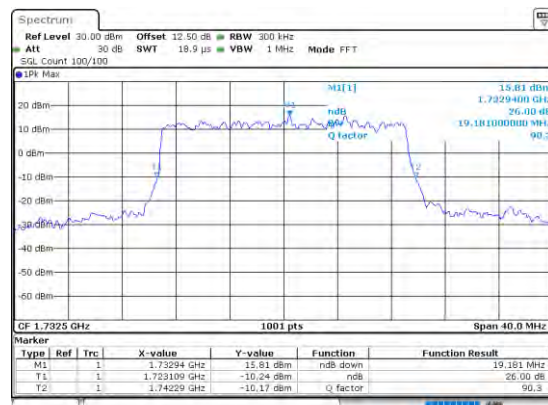
Date: 2024-02-24 11:31:01

Middle Channel / 15MHz / 64QAM



Date: 2024-02-24 11:49:18

Middle Channel / 20MHz / 64QAM

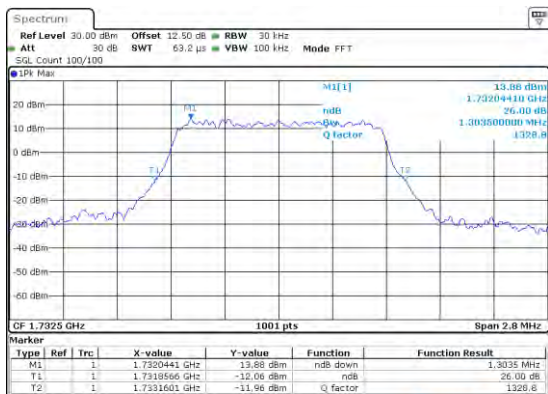


Date: 2024-02-24 11:49:59



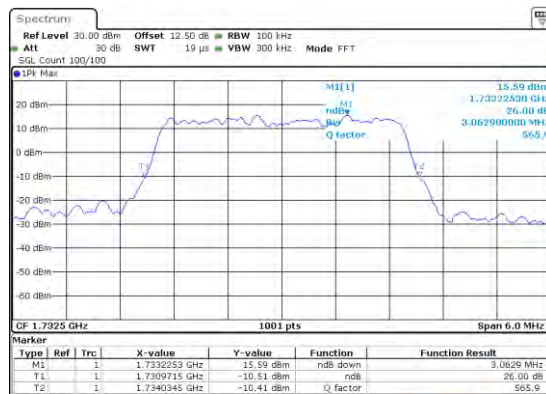
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



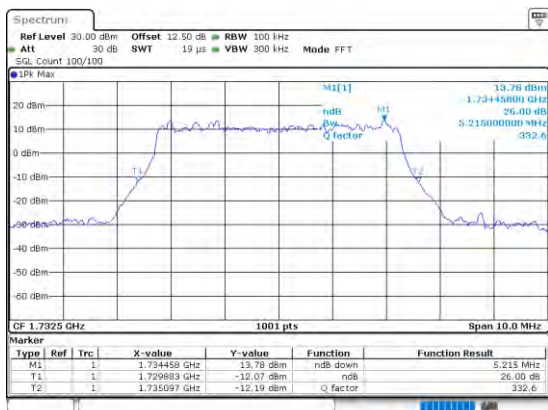
Date: 2024-02-29 14:46

Middle Channel / 3MHz / 256QAM



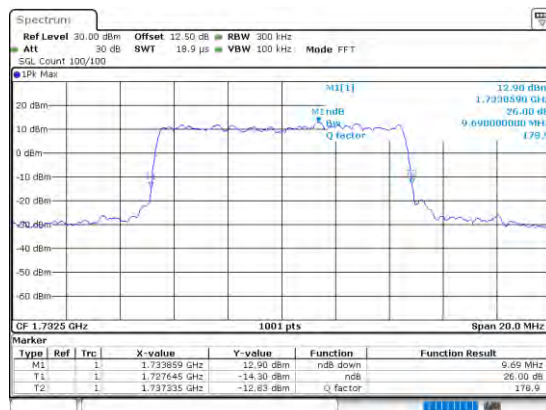
Date: 2024-02-29 14:49

Middle Channel / 5MHz / 256QAM



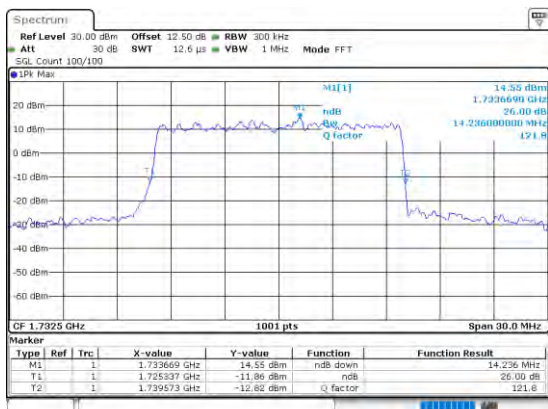
Date: 2024-02-29 14:29

Middle Channel / 10MHz / 256QAM



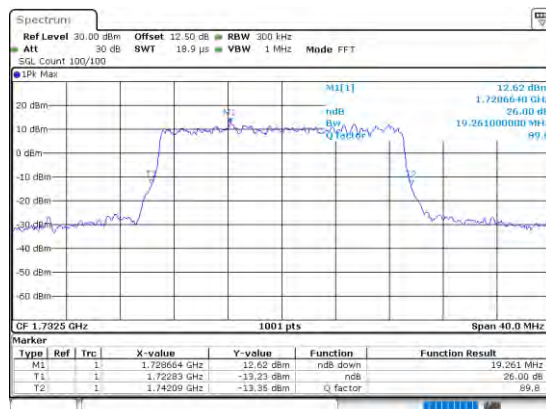
Date: 2024-02-29 14:43

Middle Channel / 15MHz / 256QAM



Date: 2024-02-29 14:19

Middle Channel / 20MHz / 256QAM



Date: 2024-02-29 14:34

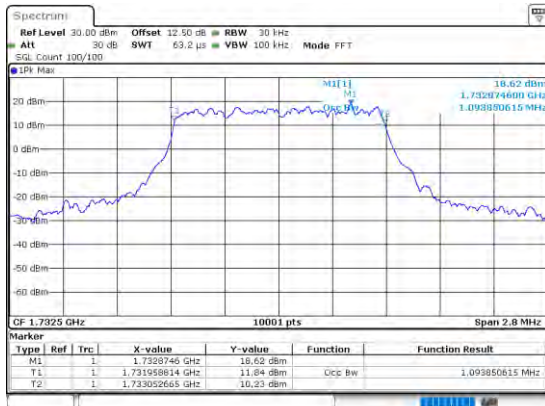
**Occupied Bandwidth**

Mode	LTE Band 4 : 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	1.09	2.74	2.74	4.50	4.46	9.03	9.08	13.47	13.41	17.87	17.89
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.08	1.10	2.74	2.73	4.50	4.49	9.12	9.05	13.37	13.45	17.88	17.84



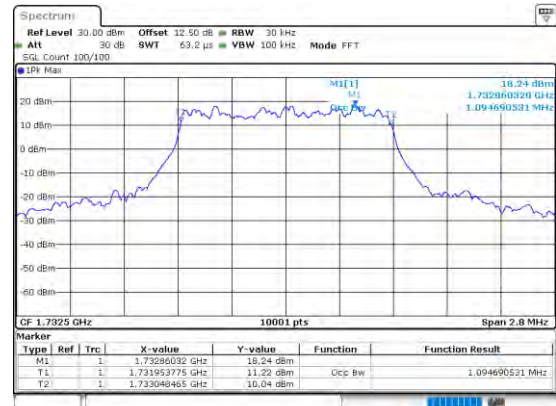
LTE Band 4

Middle Channel / 1.4MHz / QPSK



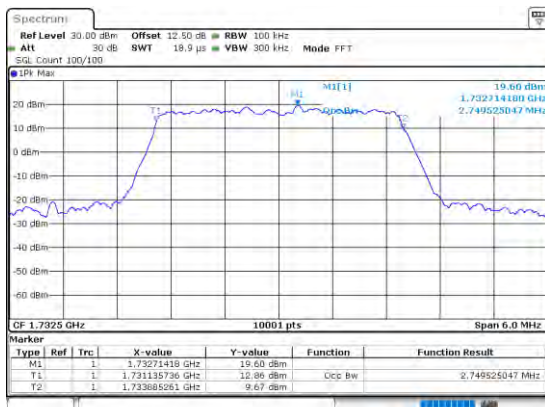
Datum: 2. MAR. 2024 09:17:24.8

Middle Channel / 1.4MHz / 16QAM



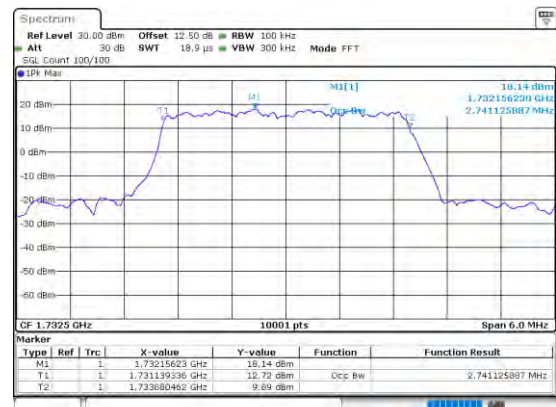
Datum: 2. MAR. 2024 09:14:52.7

Middle Channel / 3MHz / QPSK



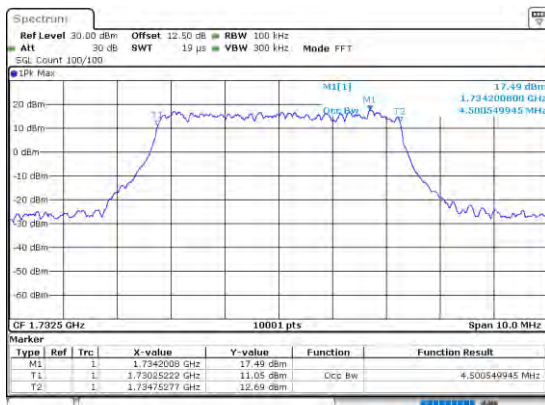
Datum: 2. MAR. 2024 09:13:53.9

Middle Channel / 3MHz / 16QAM



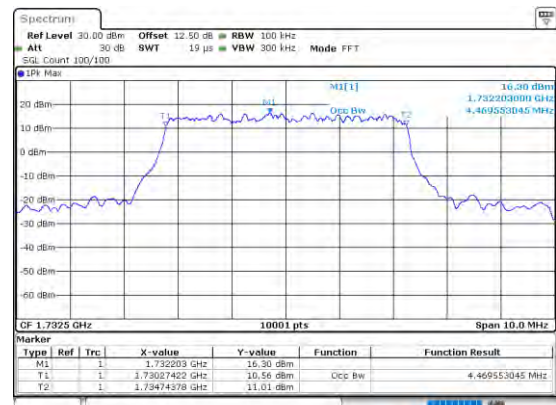
Datum: 2. MAR. 2024 09:13:52.3

Middle Channel / 5MHz / QPSK



Datum: 2. MAR. 2024 09:14:03.8

Middle Channel / 5MHz / 16QAM

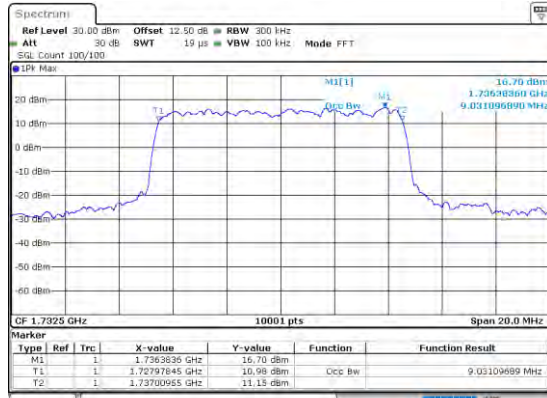


Datum: 2. MAR. 2024 09:15:13.9



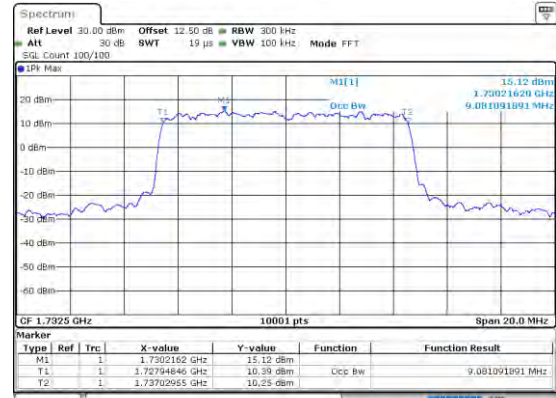
LTE Band 4

Middle Channel / 10MHz / QPSK



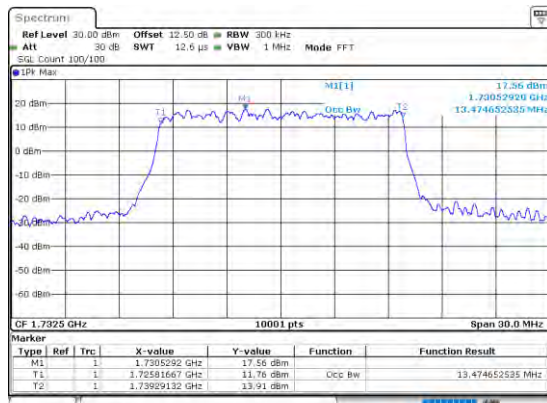
Data: 2, MAR, 2024 02:11:03

Middle Channel / 10MHz / 16QAM



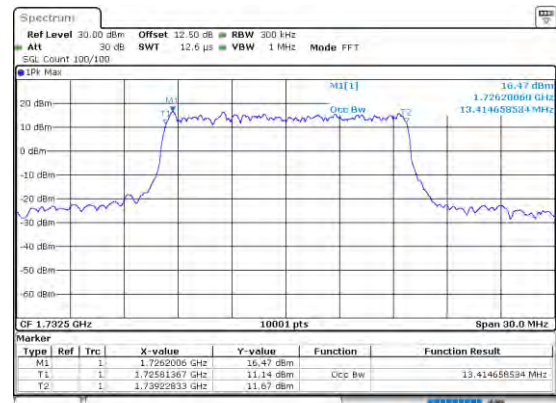
Data: 2, MAR, 2024 02:11:43

Middle Channel / 15MHz / QPSK



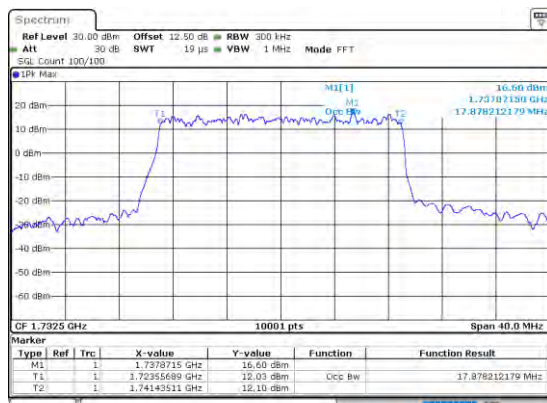
Data: 2, MAR, 2024 02:44:33

Middle Channel / 15MHz / 16QAM



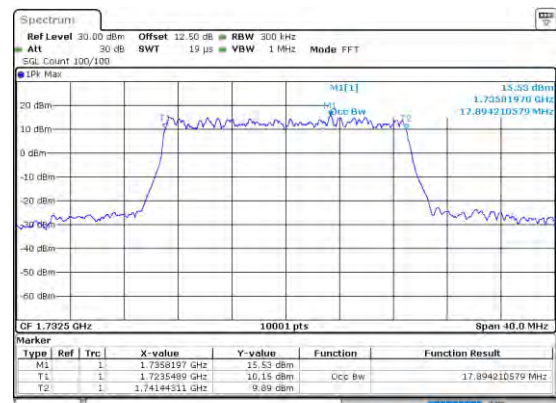
Data: 2, MAR, 2024 02:45:17

Middle Channel / 20MHz / QPSK



Data: 2, MAR, 2024 02:11:58

Middle Channel / 20MHz / 16QAM

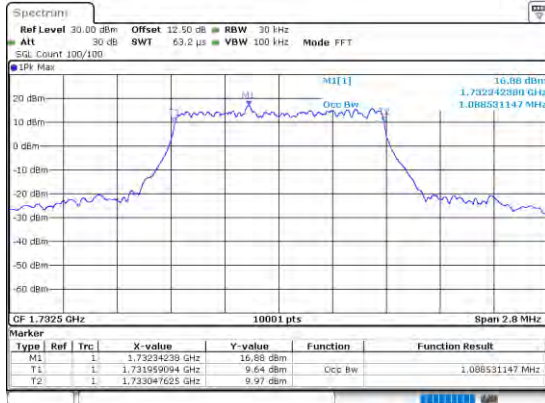


Data: 2, MAR, 2024 02:12:01



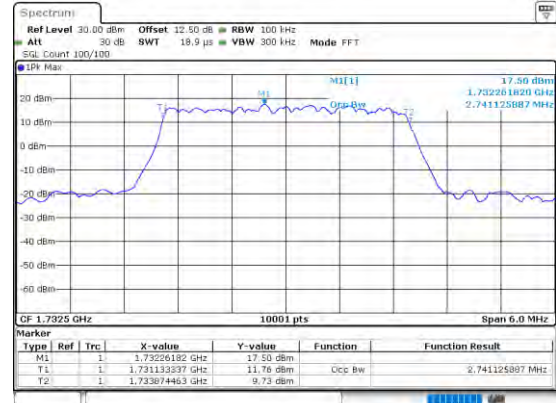
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



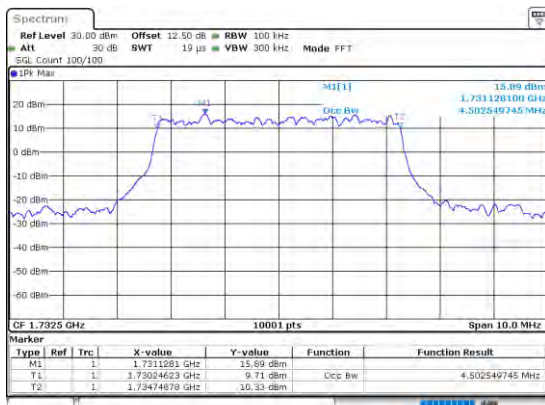
Datum: 2.10.2024 09:55:17

Middle Channel / 3MHz / 64QAM



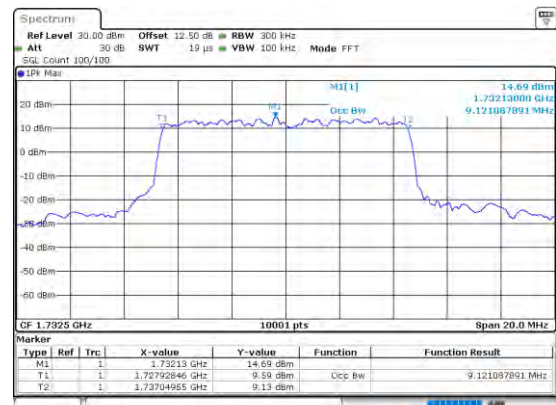
Datum: 2.10.2024 09:53:08

Middle Channel / 5MHz / 64QAM



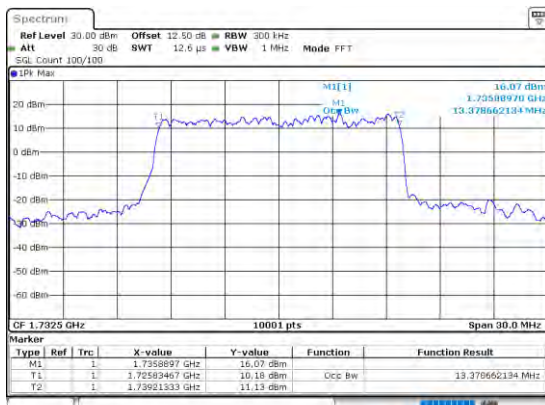
Datum: 2.10.2024 09:51:00

Middle Channel / 10MHz / 64QAM



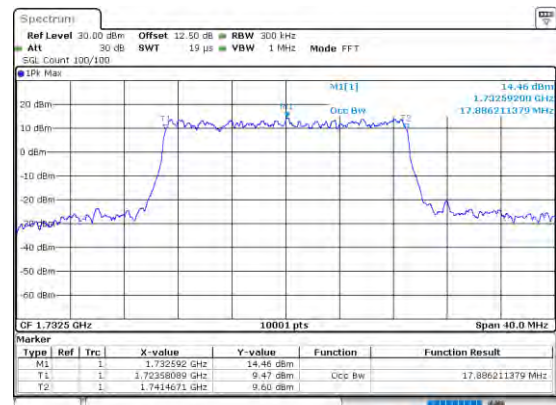
Datum: 2.10.2024 09:50:24

Middle Channel / 15MHz / 64QAM



Datum: 2.10.2024 09:45:58

Middle Channel / 20MHz / 64QAM

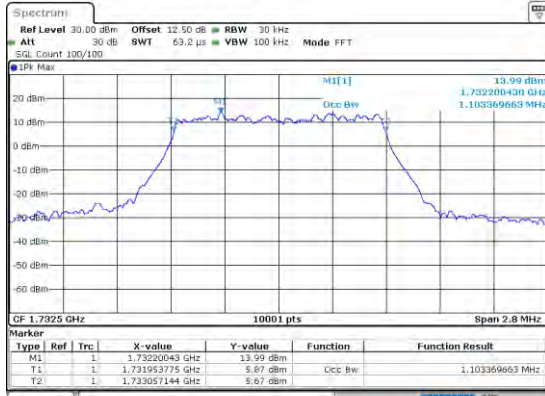


Datum: 2.10.2024 09:52:47

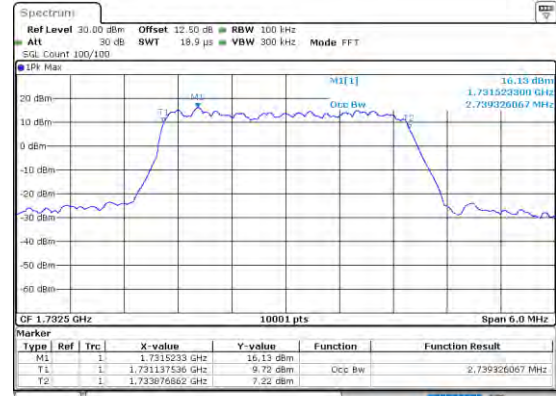


LTE Band 4

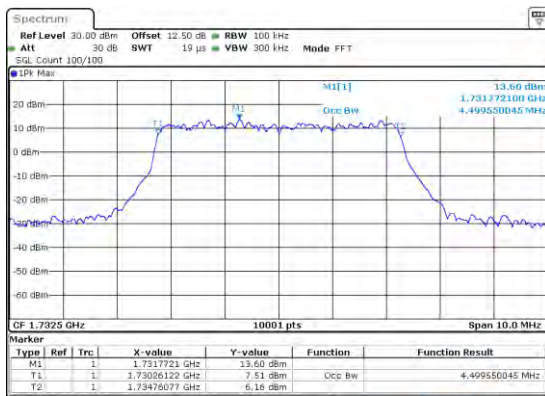
Middle Channel / 1.4MHz / 256QAM



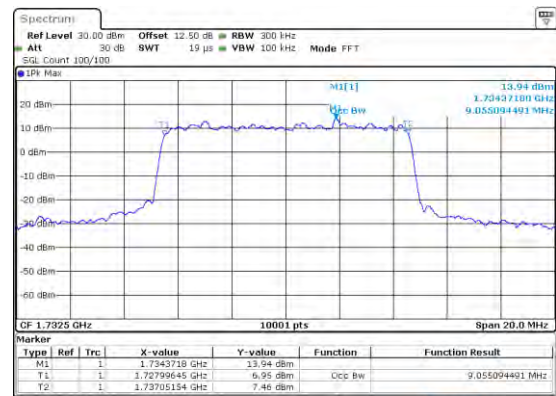
Middle Channel / 3MHz / 256QAM



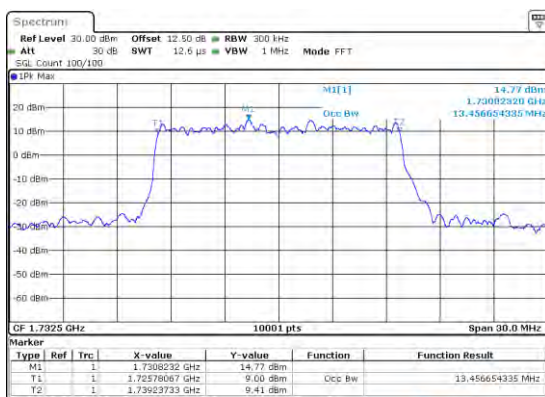
Middle Channel / 5MHz / 256QAM



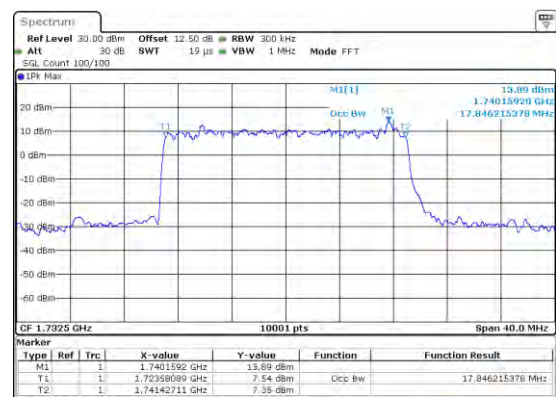
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

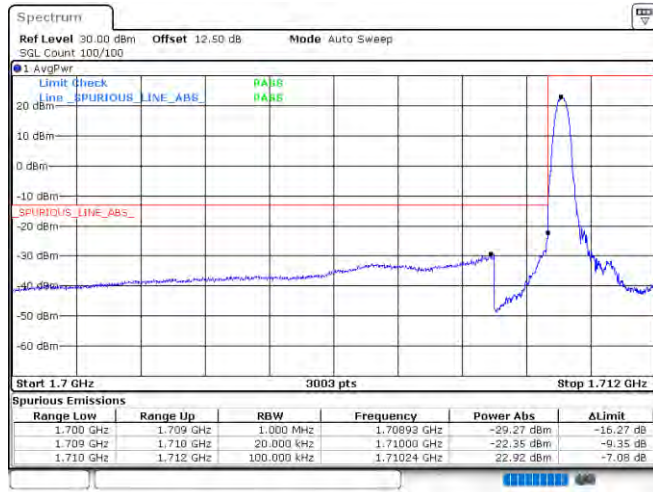




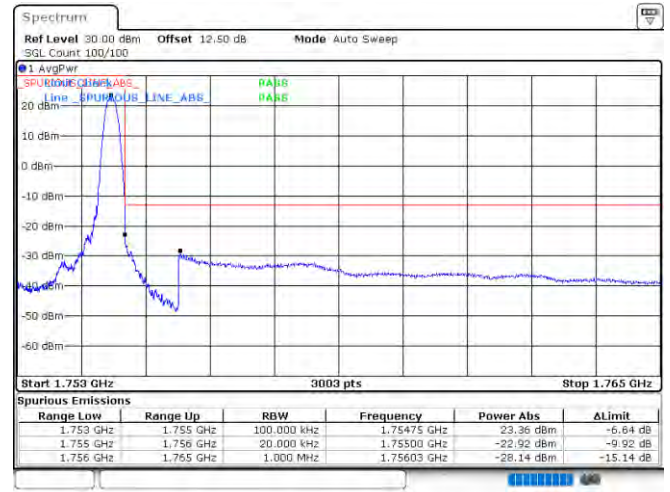
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

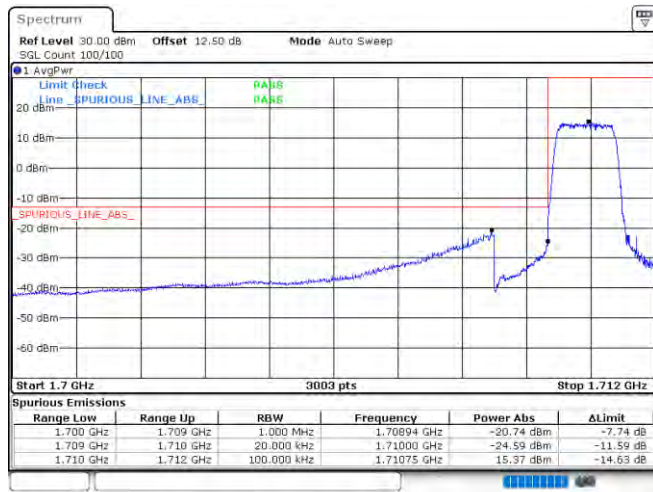
Lowest Band Edge / 1RB



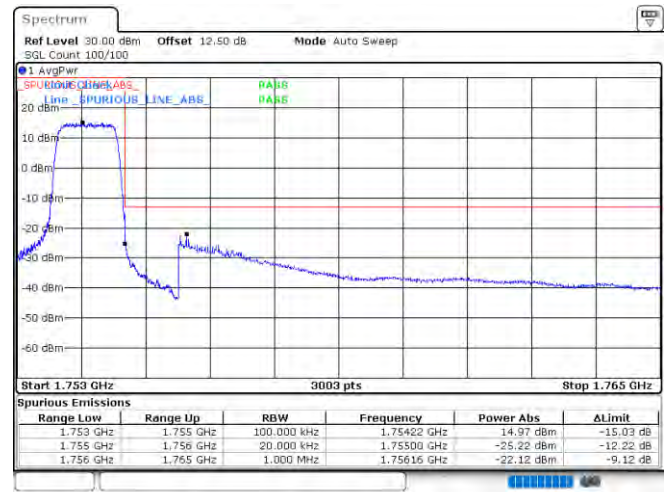
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

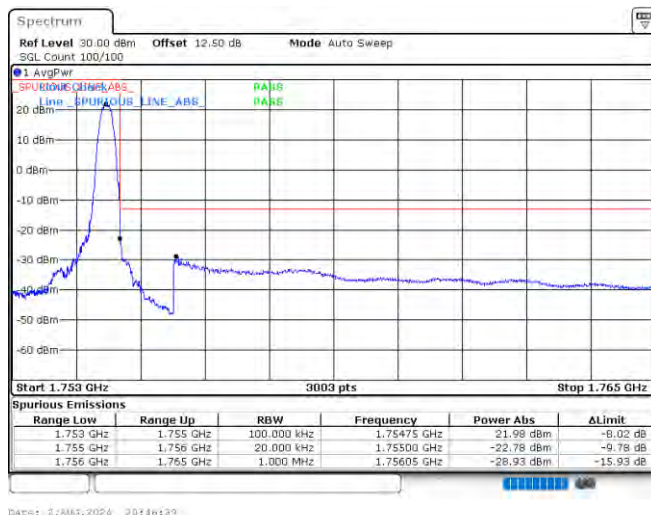
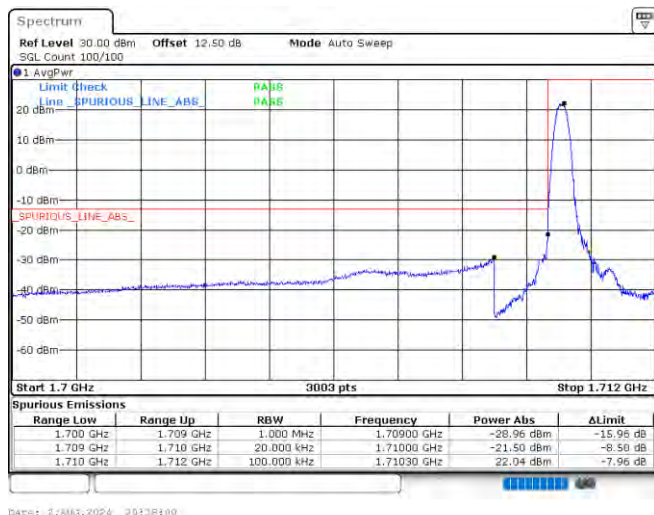




LTE Band 4 / 1.4MHz / 16QAM

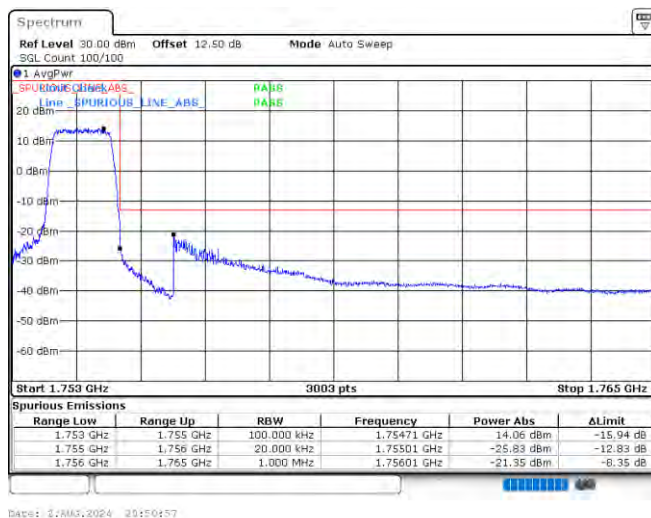
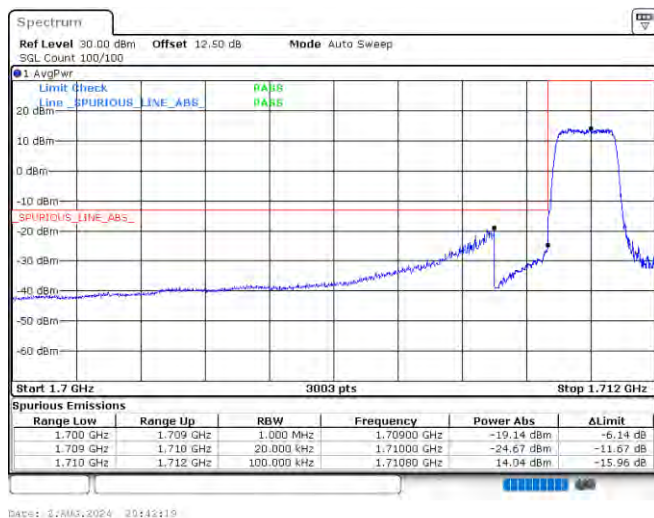
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

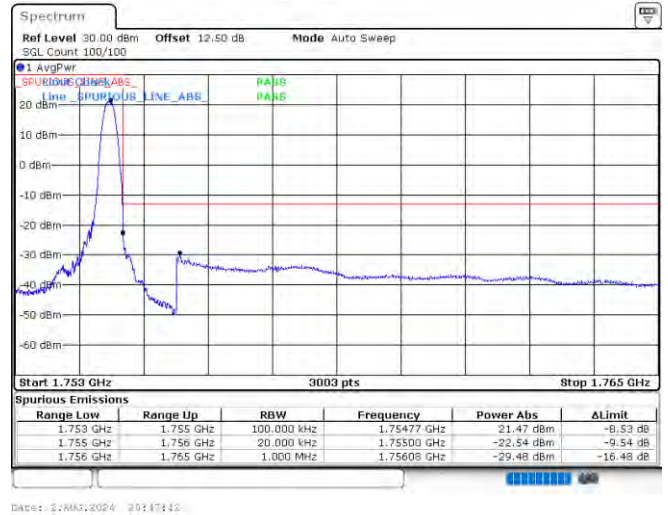
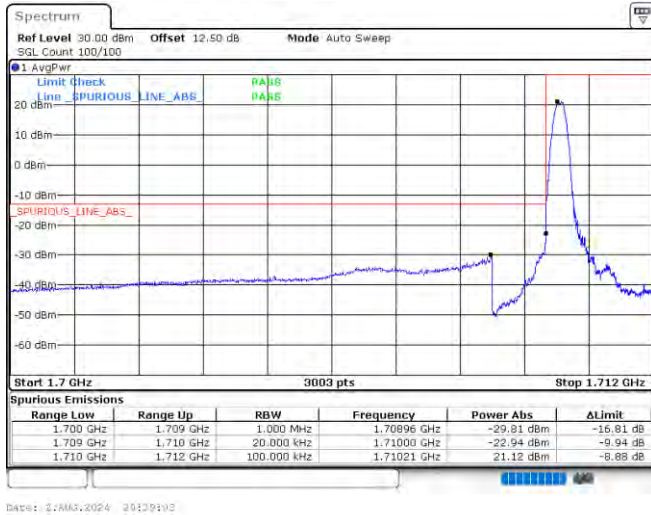




LTE Band 4 / 1.4MHz / 64QAM

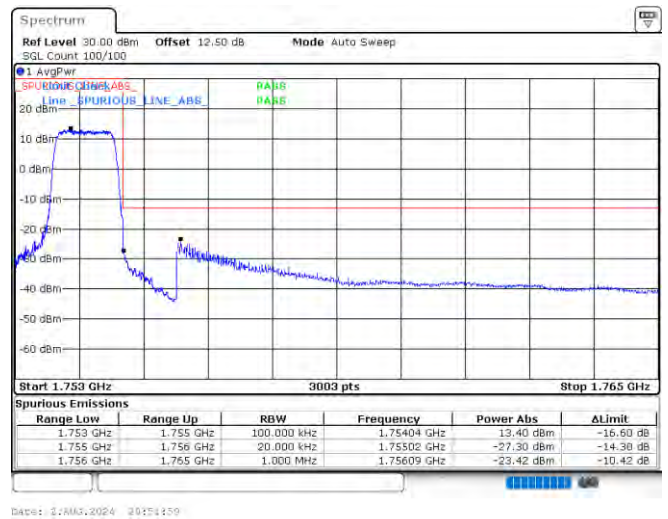
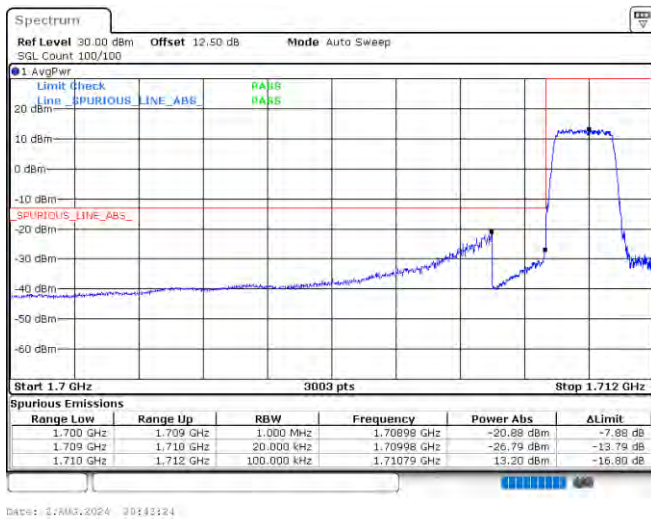
Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

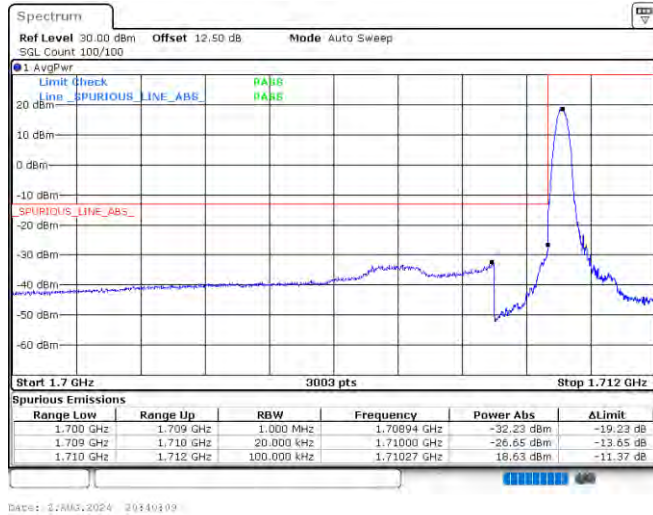
Highest Band Edge / Full RB



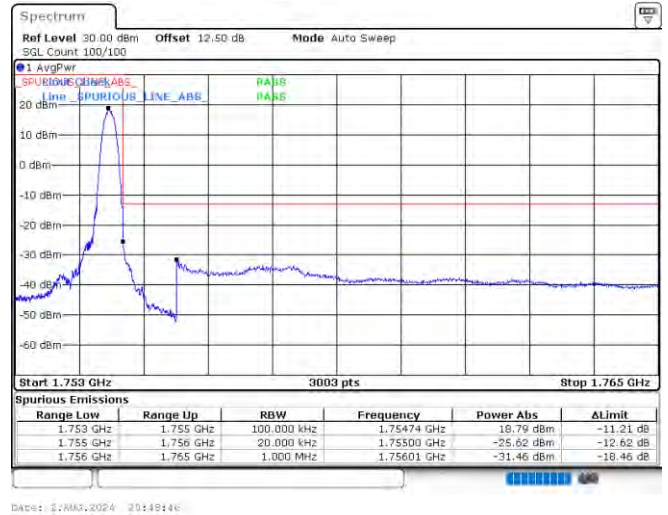


LTE Band 4 / 1.4MHz / 256QAM

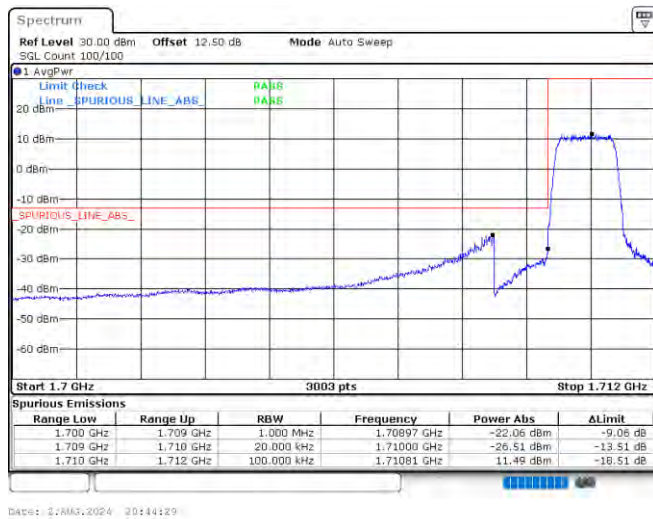
Lowest Band Edge / 1 RB



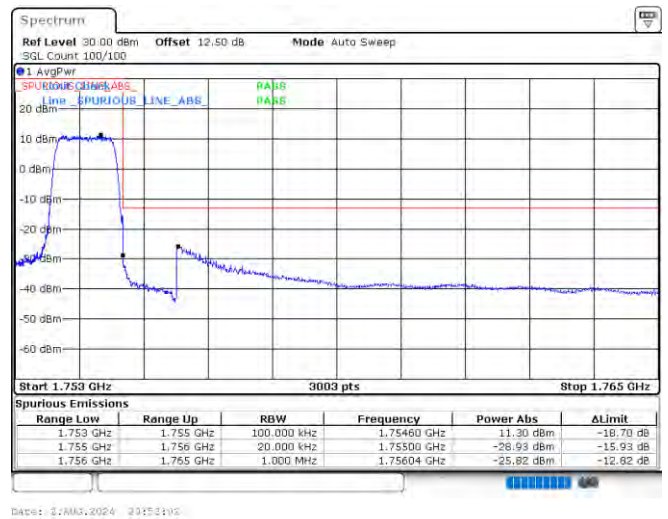
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



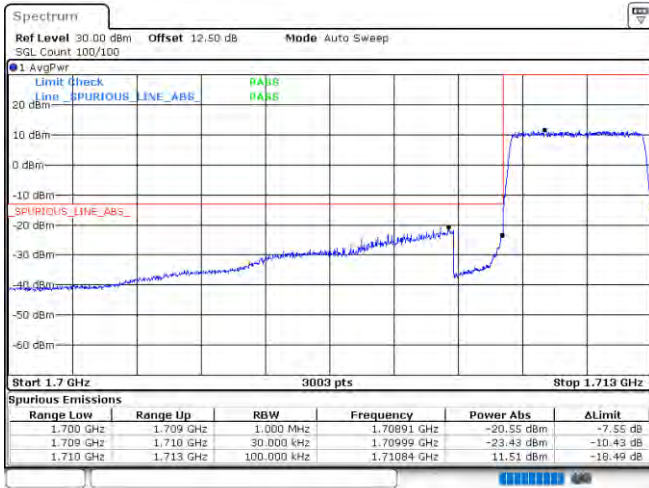
Highest Band Edge / Full RB



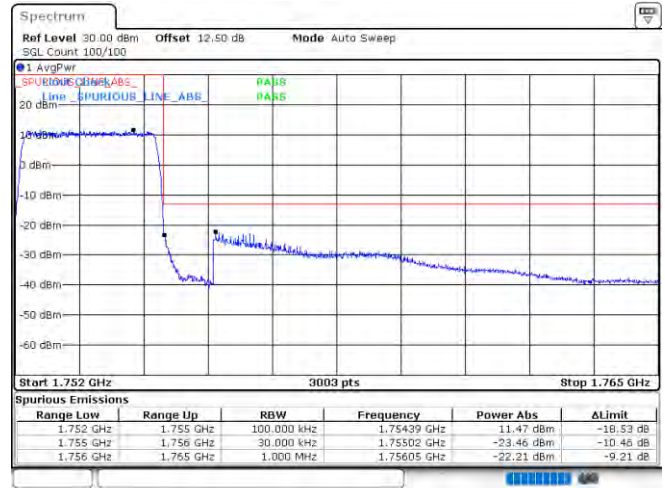


LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / Full RB

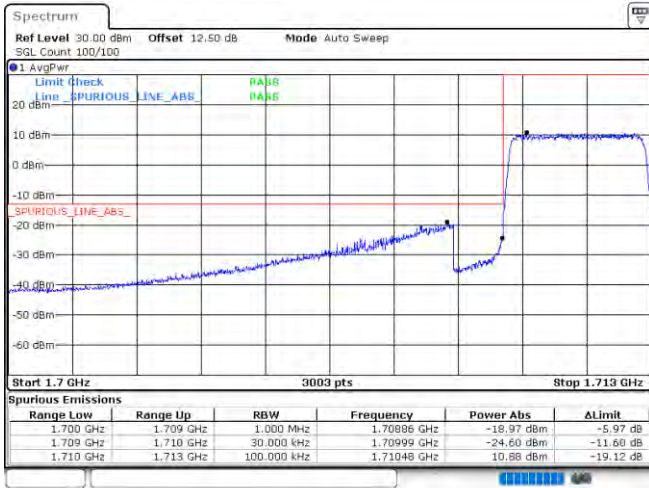


Highest Band Edge / Full RB

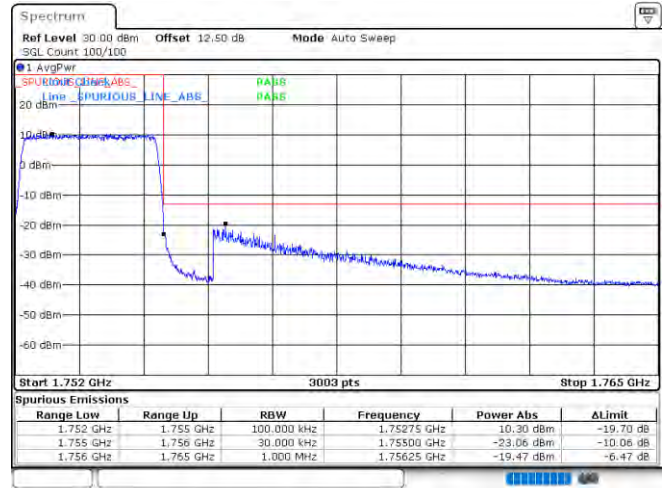


LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / Full RB



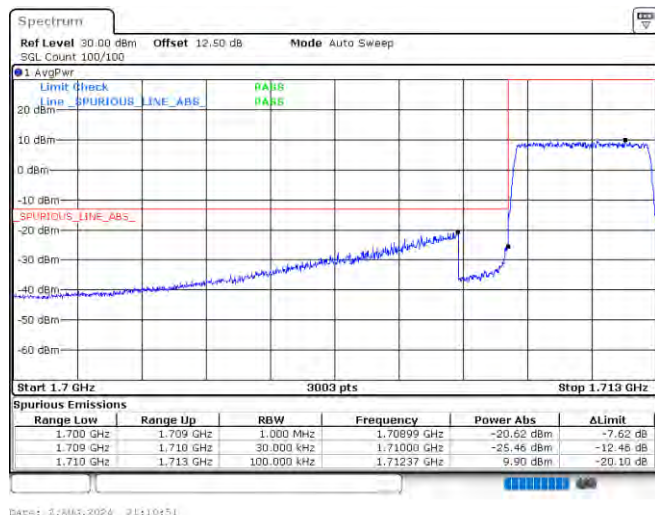
Highest Band Edge / Full RB



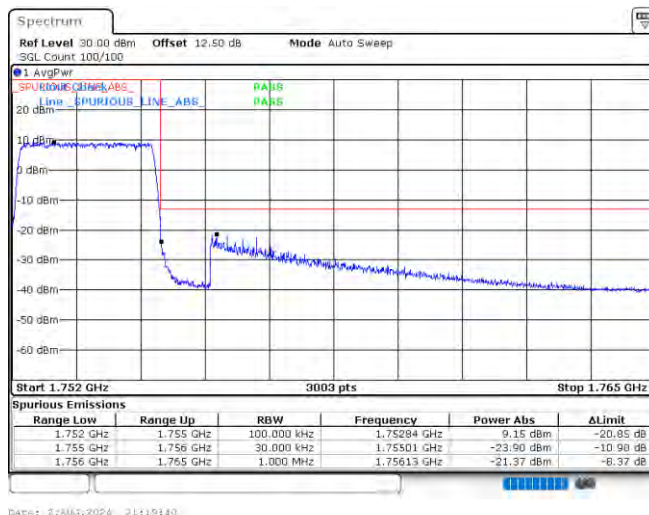


LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / Full RB

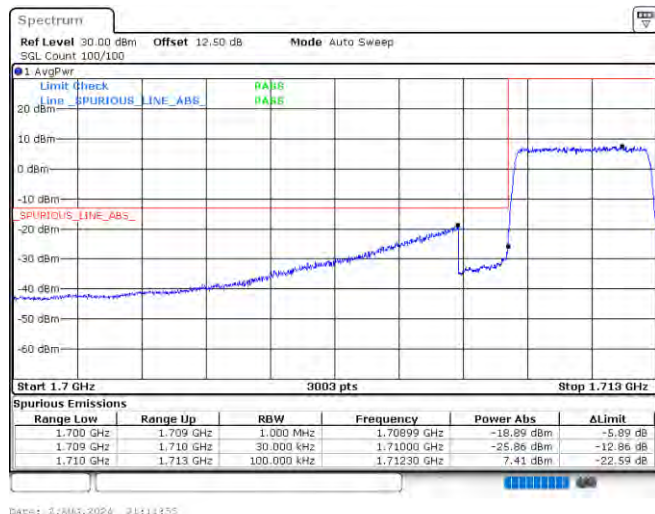


Highest Band Edge / Full RB

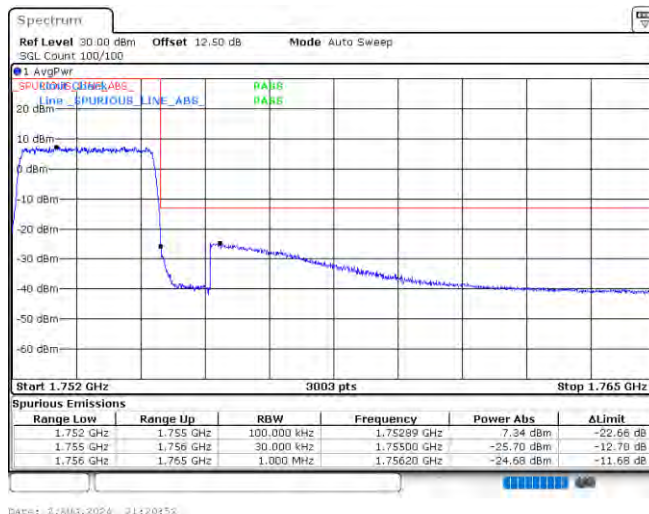


LTE Band 4 / 3MHz / 256QAM

Lowest Band Edge / Full RB



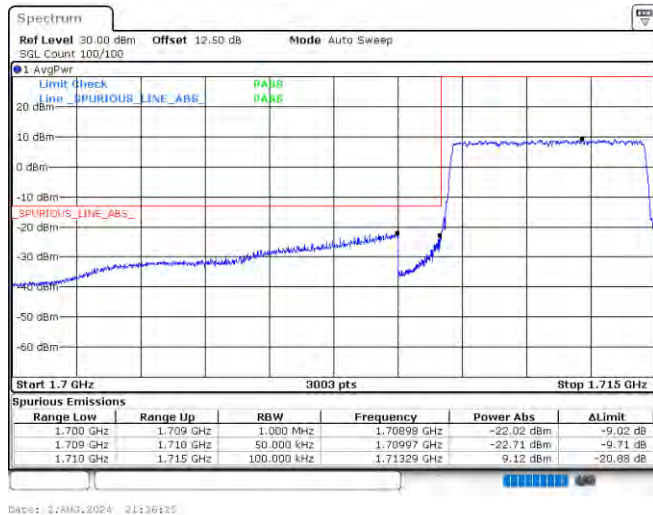
Highest Band Edge / Full RB



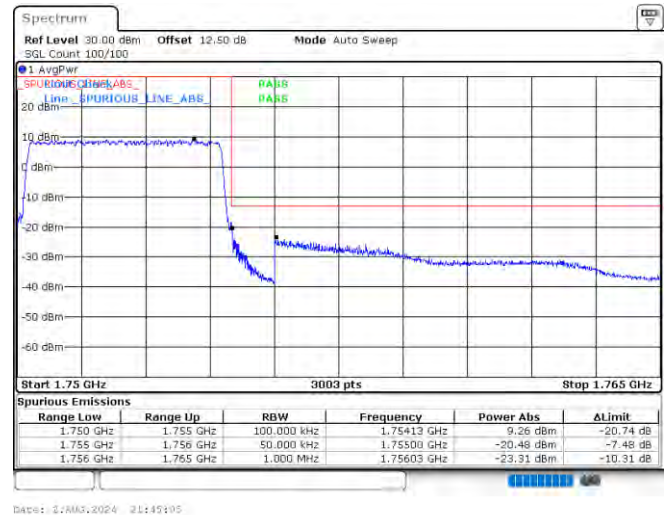


LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / Full RB

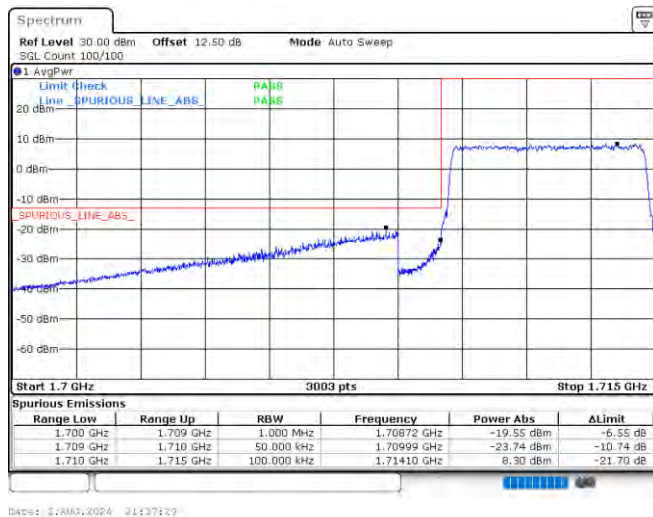


Highest Band Edge / Full RB

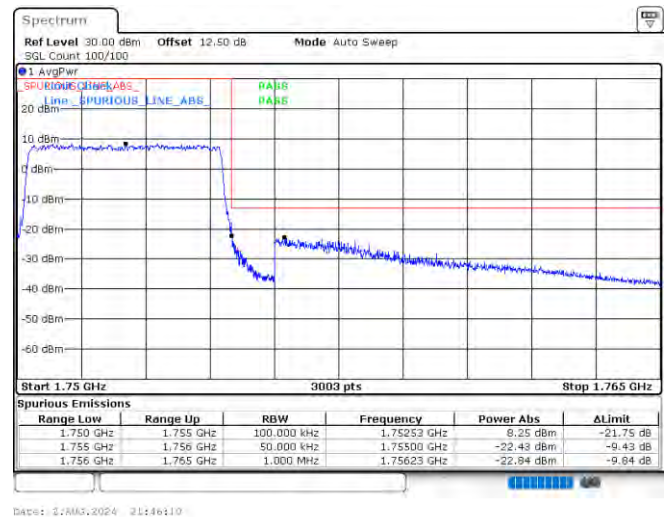


LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / Full RB



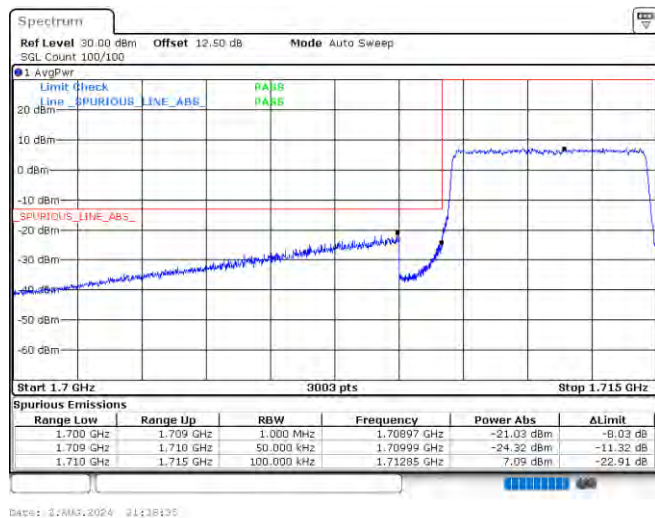
Highest Band Edge / Full RB



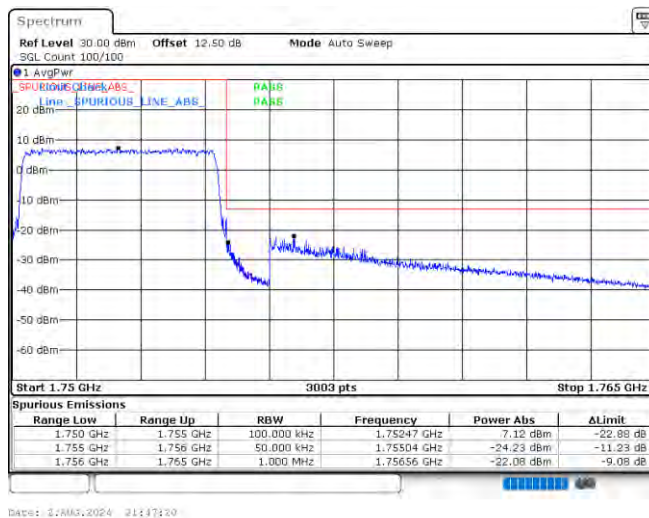


LTE Band 4 / 5MHz / 64QAM

Lowest Band Edge / Full RB

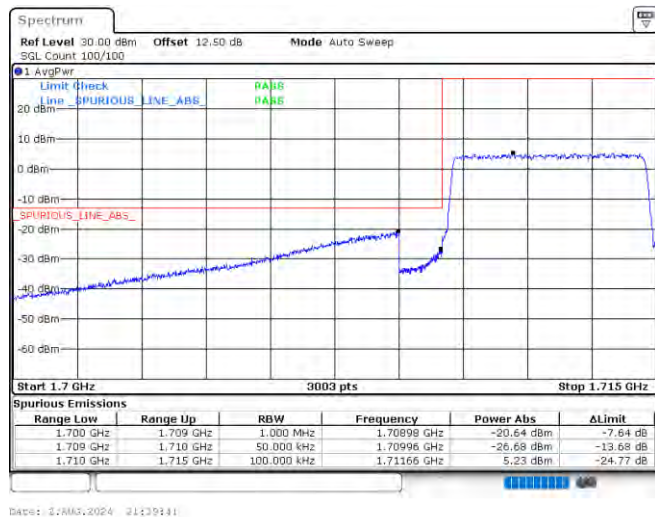


Highest Band Edge / Full RB

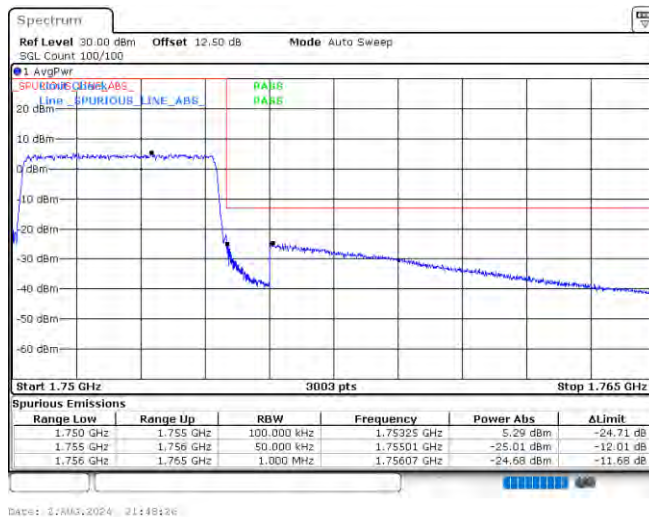


LTE Band 4 / 5MHz / 256QAM

Lowest Band Edge / Full RB



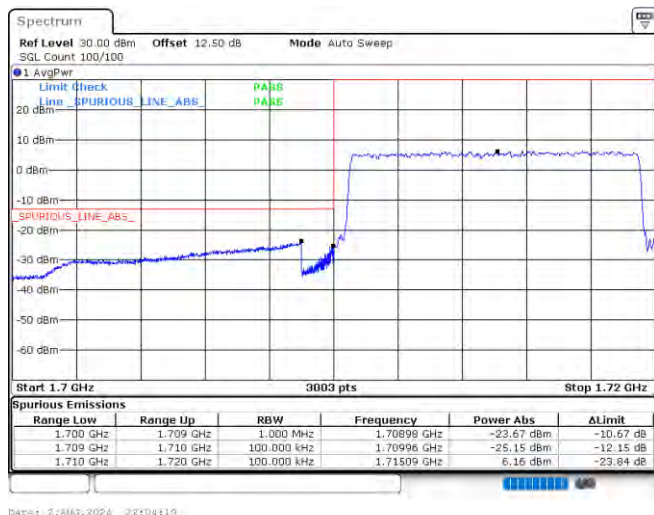
Highest Band Edge / Full RB



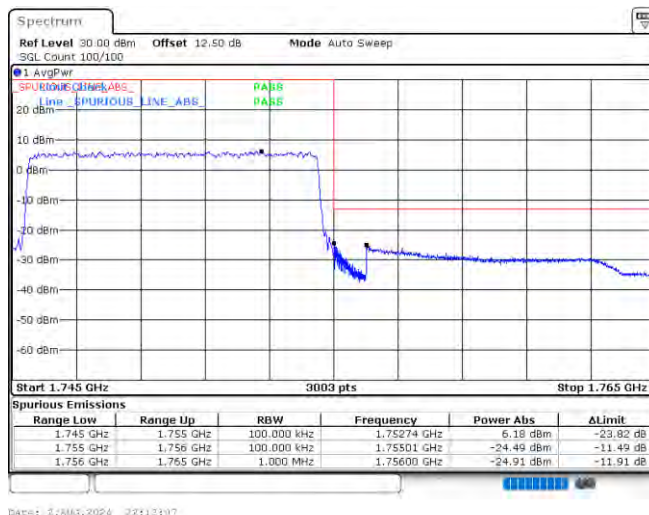


LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / Full RB

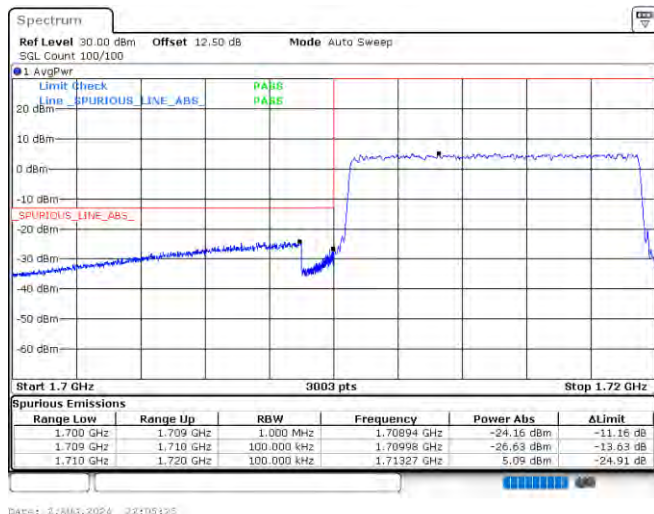


Highest Band Edge / Full RB

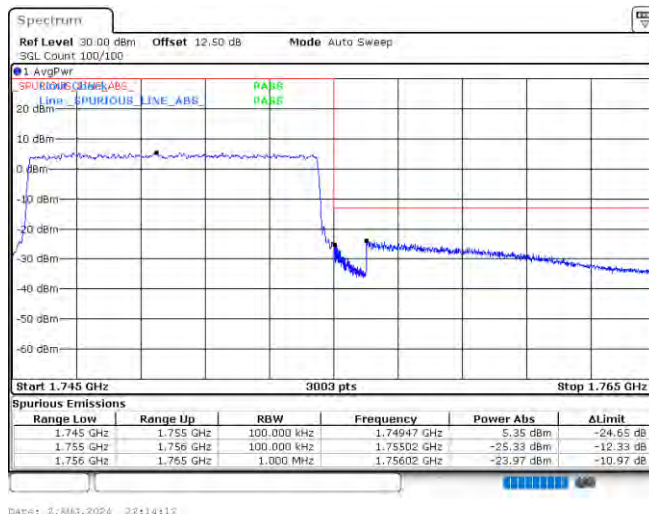


LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / Full RB



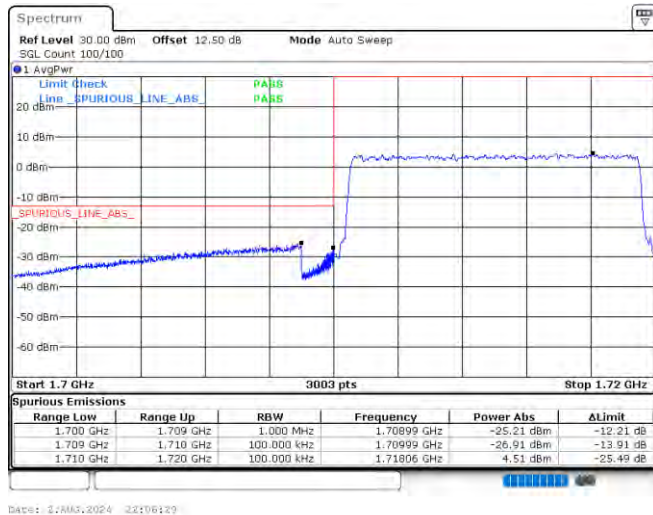
Highest Band Edge / Full RB



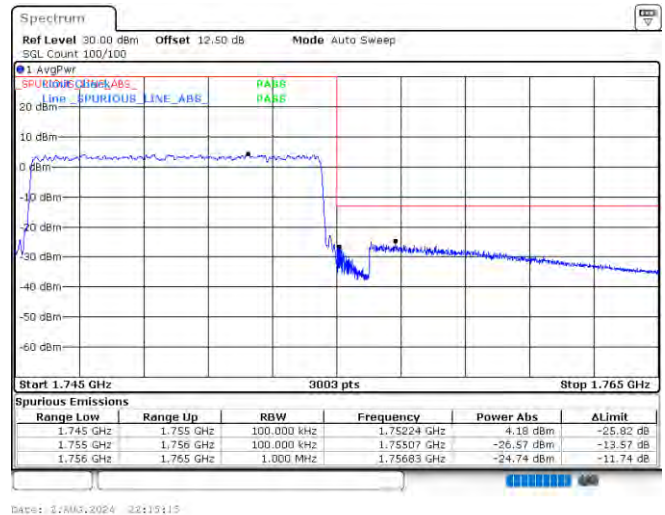


LTE Band 4 / 10MHz / 64QAM

Lowest Band Edge / Full RB

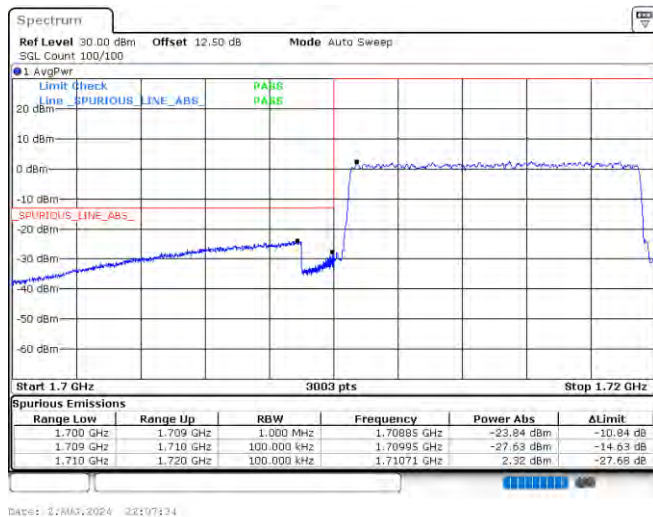


Highest Band Edge / Full RB

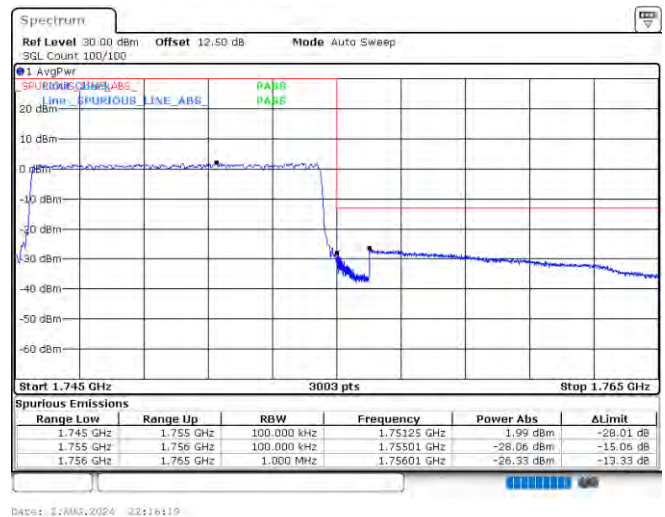


LTE Band 4 / 10MHz / 256QAM

Lowest Band Edge / Full RB



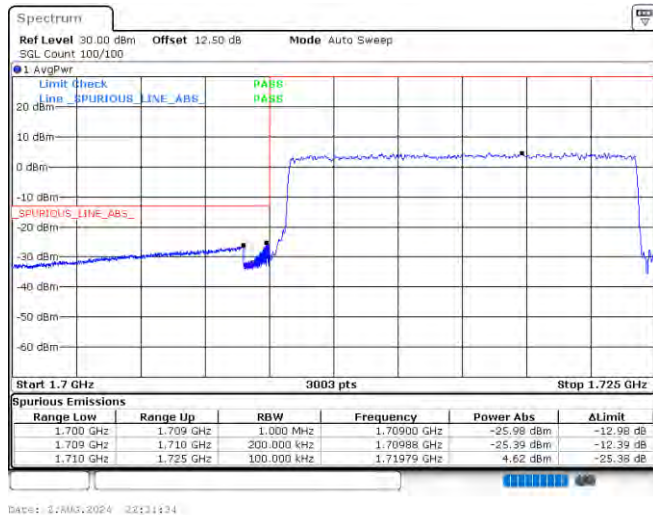
Highest Band Edge / Full RB



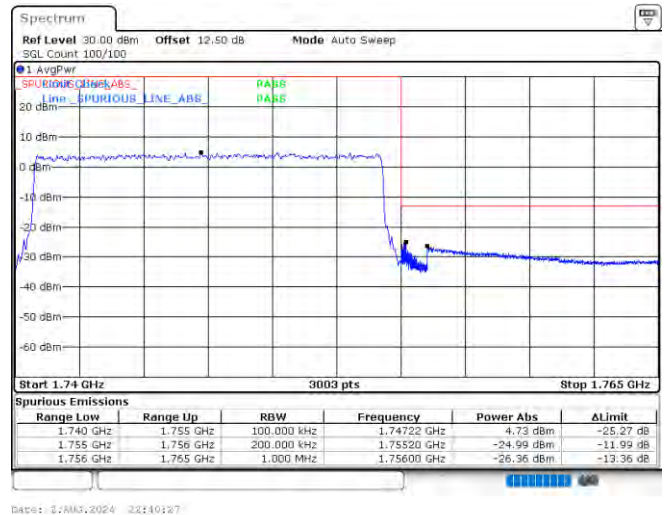


LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / Full RB

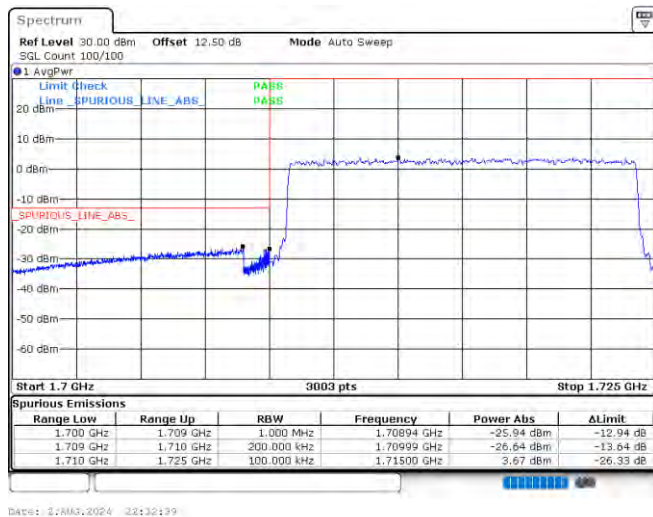


Highest Band Edge / Full RB

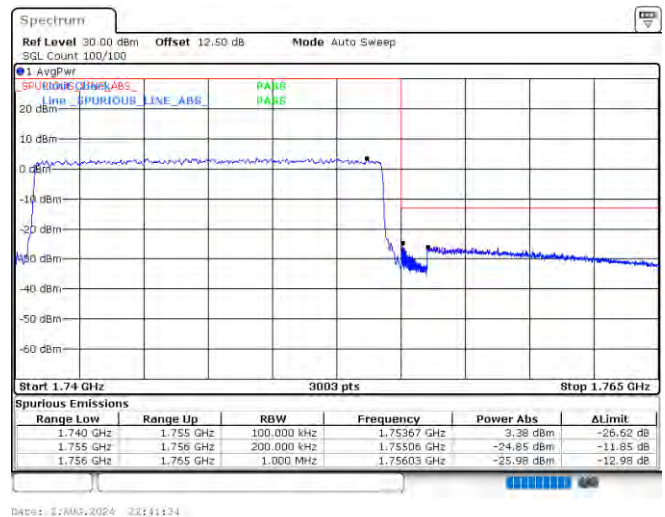


LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / Full RB



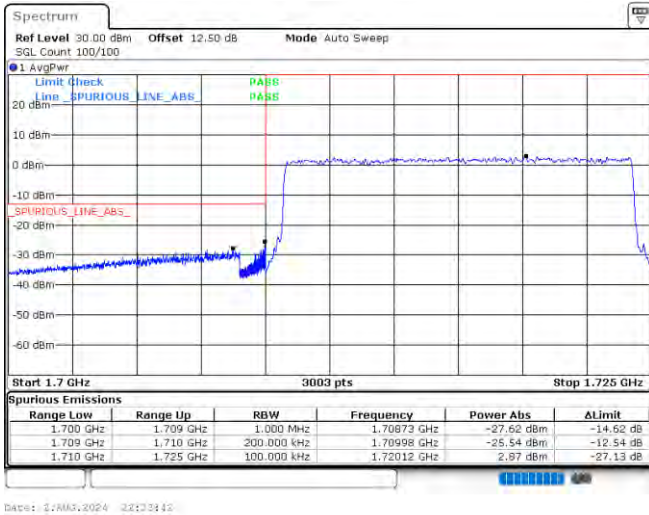
Highest Band Edge / Full RB



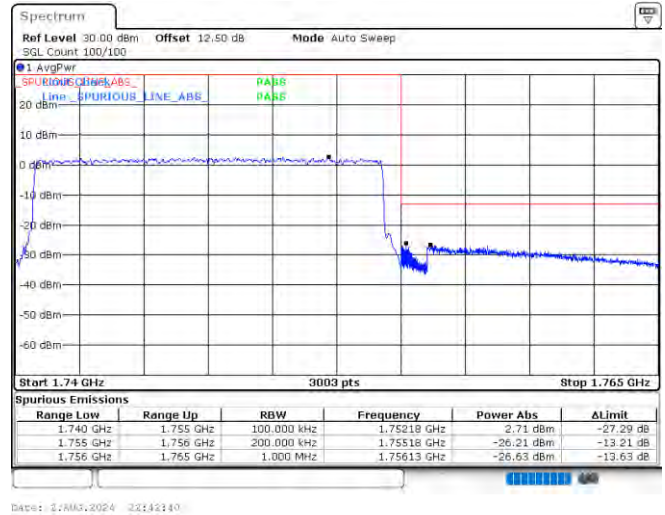


LTE Band 4 / 15MHz / 64QAM

Lowest Band Edge / Full RB

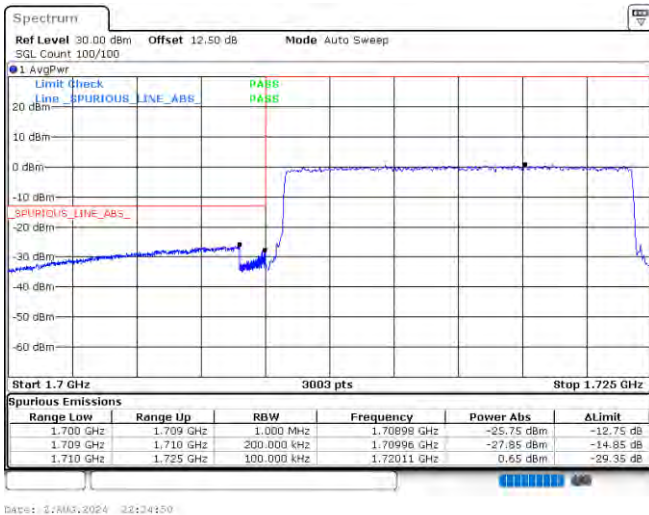


Highest Band Edge / Full RB

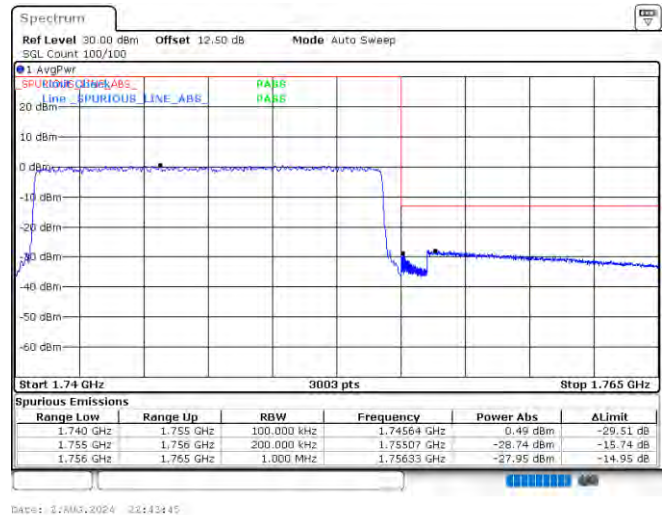


LTE Band 4 / 15MHz / 256QAM

Lowest Band Edge / Full RB



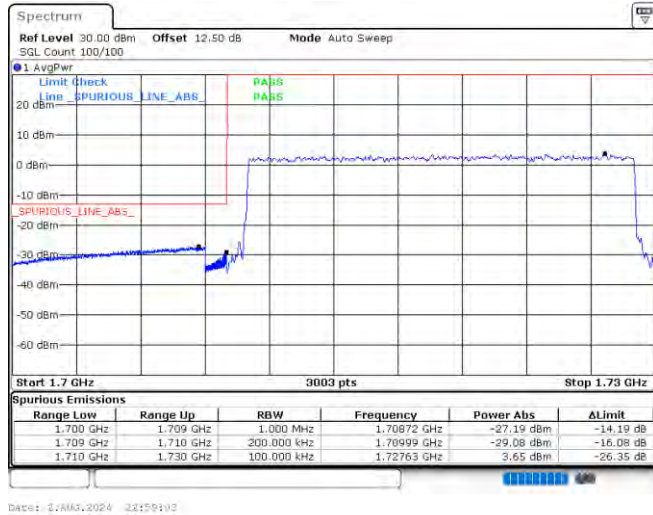
Highest Band Edge / Full RB



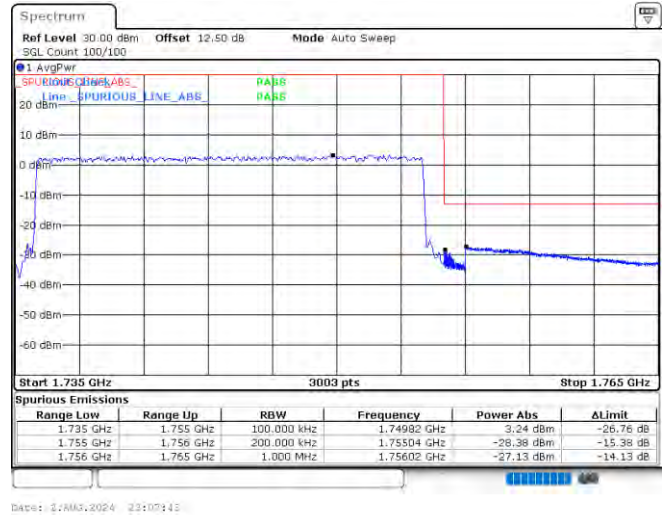


LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / Full RB

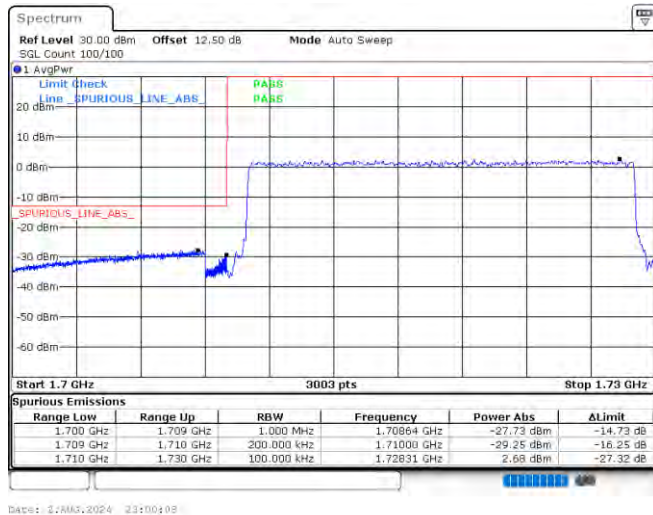


Highest Band Edge / Full RB

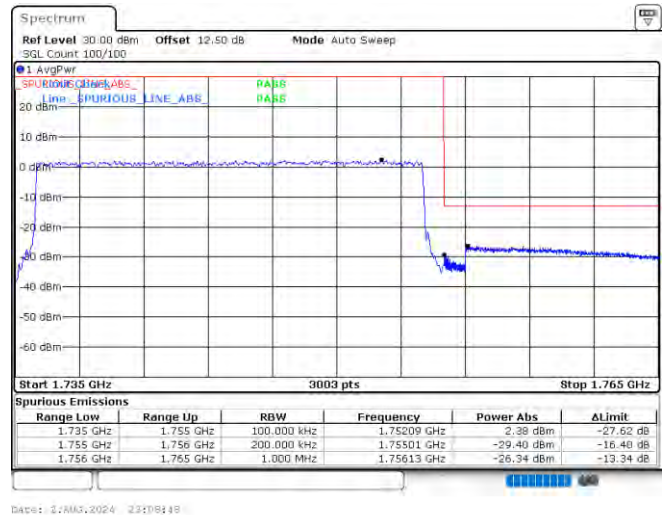


LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / Full RB



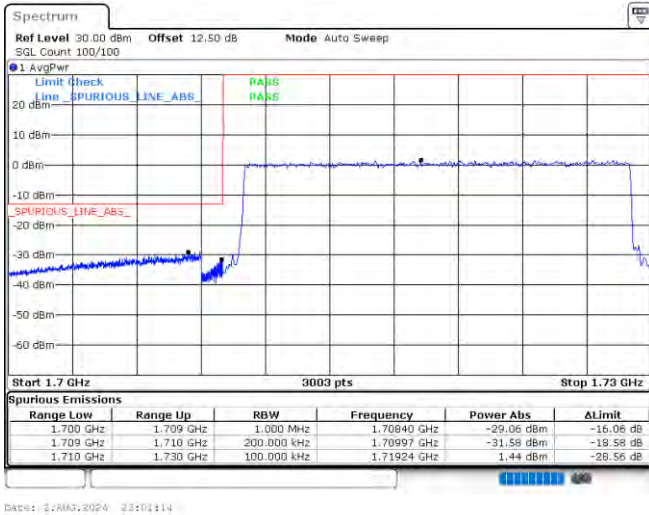
Highest Band Edge / Full RB



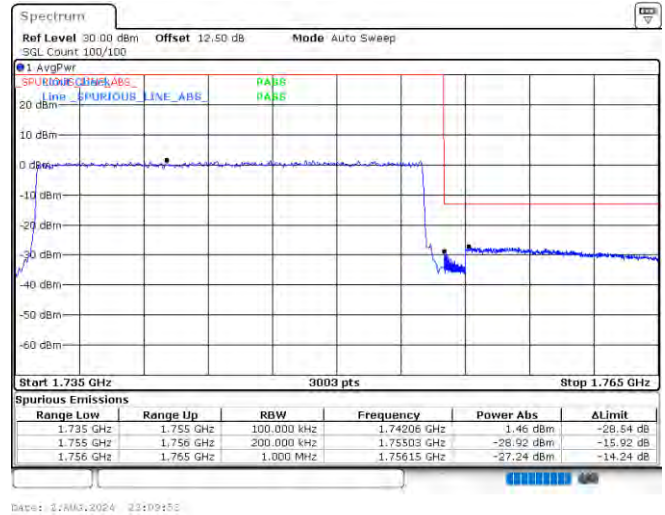


LTE Band 4 / 20MHz / 64QAM

Lowest Band Edge / Full RB

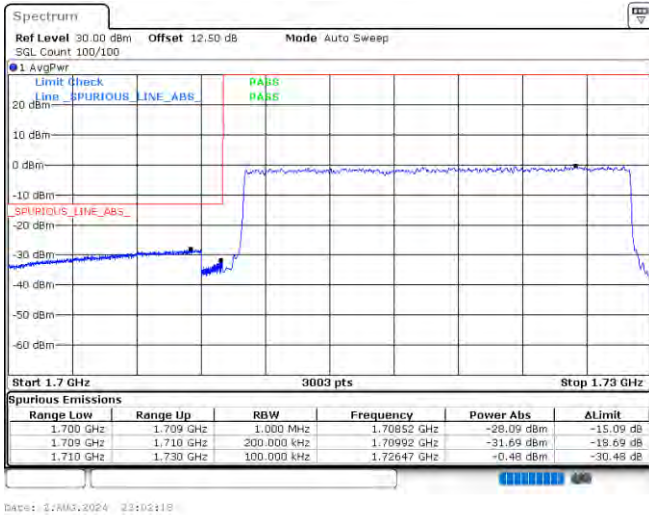


Highest Band Edge / Full RB



LTE Band 4 / 20MHz / 256QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

