FCC RADIO TEST REPORT

FCC ID	:	**A4RG8V0U**
Equipment	:	**Phone**
Model Name	:	**G8V0U, GF5KQ**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC 47 CFR Part 2, Part 27(D)**

The product was received on Jun. 10, 2021 and testing was started from Jun. 20, 2021 and completed on Jul. 25, 2021. 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 given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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History of this test report

Report No.	Version	Description	Issued Date
FG121931-04D	01	Initial issue of report	Aug. 13, 2021
FG121931-04D	02	Revise Typo	Aug. 18, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§27.50 (a)(3)	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	Pass	-
3.8	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 3.07 dB at 6918.000 MHz for Primary Antenna Under limit 3.71 dB at 6918.000 MHz for ASDIV Antenna

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: William Chen

Report Producer: Celery Wei

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G8V0U, GF5KQ
FCC ID	A4RG8V0U
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ NFC/GNSS/WPC/WPT/UWB WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
15271FDEE00013	Conducted Measurement EIRP
16011FDEE00080	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	2307.5 MHz ~ 2312.5 MHz
Rx Frequency	2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	**<Primary Antenna>:** 24.11 dBm **<ASDIV Antenna>:** 22.62 dBm
Antenna Type	**<Primary Antenna>:** ILA Antenna type **<ASDIV Antenna>:** IFA Antenna type
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B30	Ant 2	-0.7

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B30	Ant 0	-2.1

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

1.3 Modification of EUT

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

1.4 Testing Site

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	Benjamin Lin
Temperature	23.4~25.5℃
Relative Humidity	49.1~52.3%

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.**
	03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	22.6~26.2℃
Relative Humidity	56.6~68.2%
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

1.5 Applied Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
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

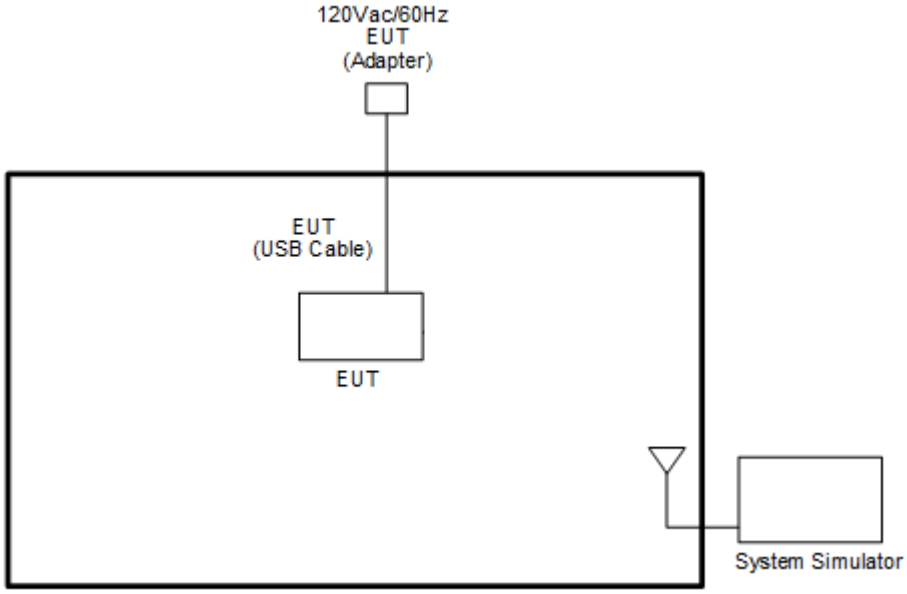
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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 adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find <Primary Antenna>: Y Plane; <ASDIV Antenna>: X Plane with Adapter as worst plane.

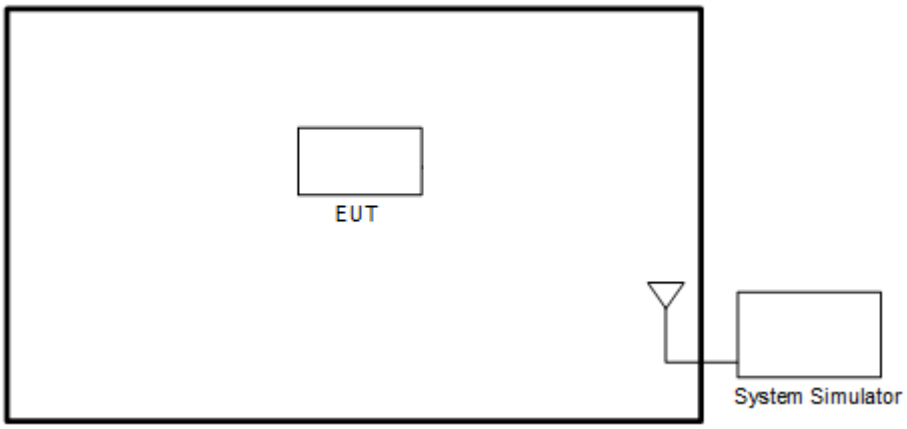
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	30	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	30	-	-		v	-	-	v	v	v	v			v		v	
E.I.R.P	30	-	-	v	v	-	-	v	v	v	v	Max. Power					
26dB and 99% Bandwidth	30	-	-	v	v	-	-	v	v	v	v			v		v	
Conducted Band Edge	30	-	-	v	v	-	-	v	v	v	v	v		v	v		v
Conducted Spurious Emission	30	-	-	v	v	-	-	v				v			v	v	v
Frequency Stability	30	-	-		v	-	-	v						v		v	
Radiated Spurious Emission	30	Worst Case													v	v	v
Remark	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. During the preliminary test, both charging modes (Adapter mode and WPC Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test. 5. All the radiated test cases were performed with Adapter 2 and USB Cable 1.																

2.2 Connection Diagram of Test System

<EUT with Adapter>



<EUT without Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

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

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

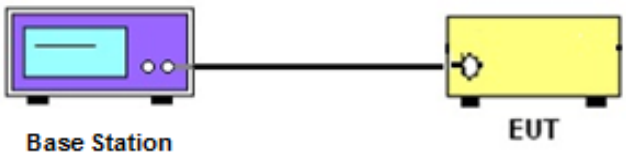
3 Conducted Test Items

3.1 Measuring Instruments

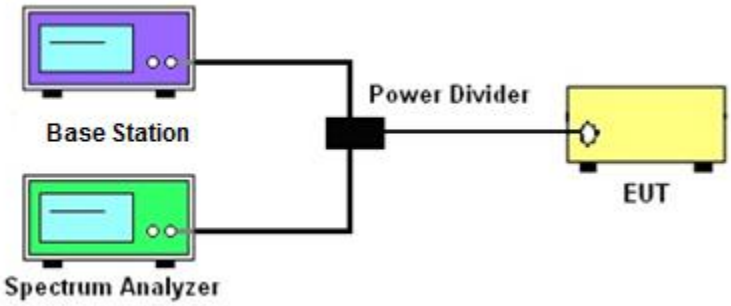
See list of measuring instruments of this test report.

3.1.1 Test Setup

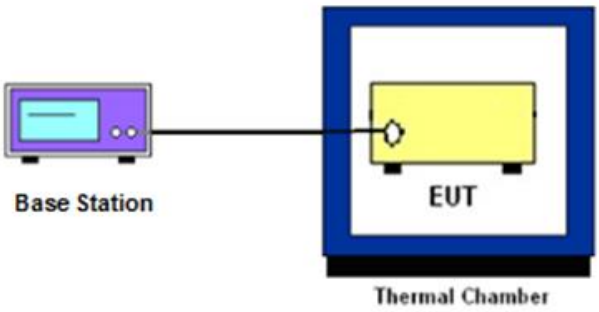
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, 26dB Bandwidth ,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 Measurement

3.2.1 Description of the Conducted Output Power Measurement

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

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 Effective Isotropic Radiated Power

3.4.1 Description of EIRP Power

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Remark: EIRP use worst case measure the total power to cover per 5MHz Power.
According to KDB 412172 D01 Power Approach,
EIRP = $P_T + G_T – L_C$, where
P_T = transmitter output power in dBm
G_T = gain of the transmitting antenna in dBi
L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Determine the EIRP by adding the effective antenna gain to the adjusted power level

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 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.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz.

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz.

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

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 band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10^{th} harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

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

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

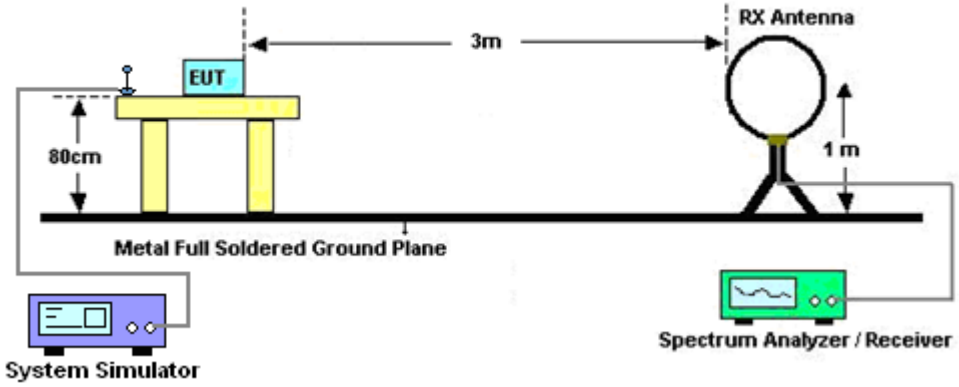
4 Radiated Test Items

4.1 Measuring Instruments

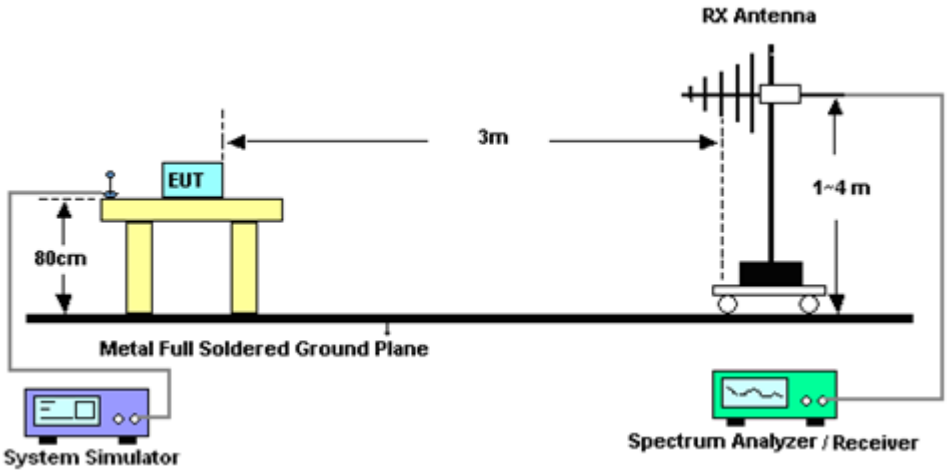
See list of measuring instruments of this test report.

4.1.1 Test Setup

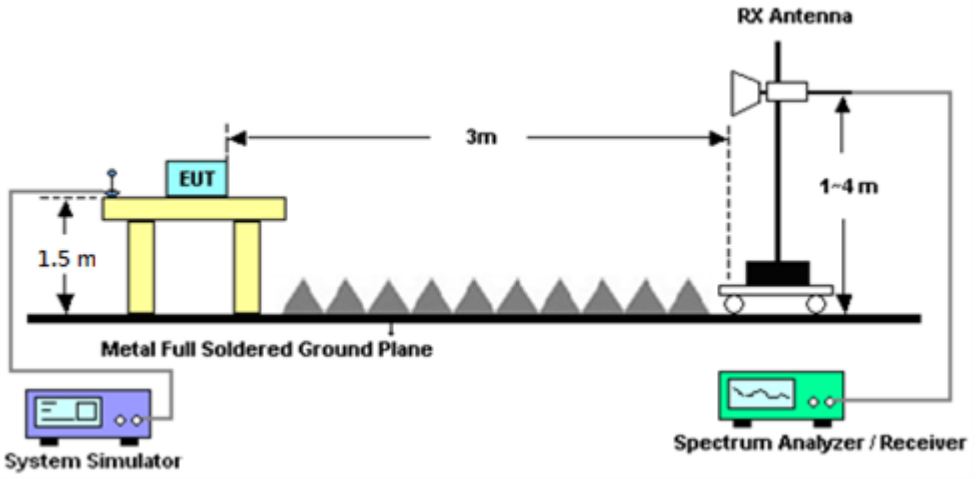
For radiated test below 30MHz



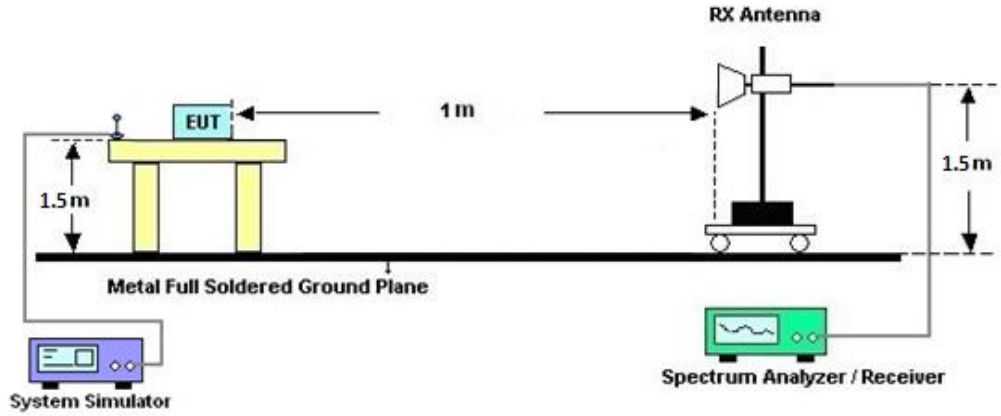
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

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

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E

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 70 + 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 / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 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 70 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [70 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
   = -40dBm.

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jul. 09, 2021~ Jul. 14, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Jul. 09, 2021~ Jul. 14, 2021	Oct. 10, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Jul. 09, 2021~ Jul. 14, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 05, 2021	Jul. 09, 2021~ Jul. 14, 2021	May 04, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 19, 2020	Jul. 09, 2021~ Jul. 14, 2021	Nov. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Jul. 09, 2021~ Jul. 14, 2021	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Jul. 09, 2021~ Jul. 14, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Jul. 09, 2021~ Jul. 14, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 05, 2020	Jul. 09, 2021~ Jul. 14, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Jul. 09, 2021~ Jul. 14, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Jul. 09, 2021~ Jul. 14, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jul. 09, 2021~ Jul. 14, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Jul. 09, 2021~ Jul. 14, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Jul. 09, 2021~ Jul. 14, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Jul. 09, 2021~ Jul. 14, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 09, 2021~ Jul. 14, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 09, 2021~ Jul. 14, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jul. 09, 2021~ Jul. 14, 2021	N/A	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Jul. 09, 2021~ Jul. 14, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Jul. 14, 2020	Jul. 09, 2021~ Jul. 12, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Jul. 09, 2021~ Jul. 14, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	626200253 41	LTE FDD/TDD LTE-2CC ULCA/DLCA	Oct. 06, 2020	Jun. 20, 2021~ Jul. 25, 2021	Oct. 05, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	Jun. 20, 2021~ Jul. 25, 2021	Nov. 26, 2021	Conducted (TH03-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Aug. 05, 2020	Jun. 20, 2021~ Jul. 25, 2021	Aug. 04, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 05, 2020	Jun. 20, 2021~ Jul. 25, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	Jun. 20, 2021~ Jul. 25, 2021	Jan. 08, 2022	Conducted (TH03-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.10 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.39 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.34 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

<Primary Antenna>

LTE Band 30 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	-	24.11	-	23.41	0.2193
10	1	25			23.92			
10	1	49			23.96			
10	25	0			23.16			
10	25	12			23.14			
10	25	25			23.10			
10	50	0			23.14			
10	1	0	16-QAM		23.60		23.07	0.2028
10	1	25			23.77			
10	1	49			23.70			
10	25	0			22.12			
10	25	12			22.09			
10	25	25			22.07			
10	50	0			22.17			
10	1	0	64-QAM		22.35		21.81	0.1517
10	1	25			22.51			
10	1	49			22.17			
10	25	0			21.10			
10	25	12			21.03			
10	25	25			21.02			
10	50	0			21.18			
10	1	0	256-QAM		19.51		18.81	0.0760
10	1	25			19.36			
10	1	49			19.36			
10	25	0			19.36			
10	25	12			19.34			
10	25	25			19.26			
10	50	0			19.34			
Limit	EIRP < 250mW/5MHz			Result			Pass	

LTE Band 30 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	24.08	24.05	24.10	23.40	0.2188
5	1	12		24.09	24.02	24.09		
5	1	24		24.08	24.00	23.94		
5	12	0		23.13	23.07	23.15		
5	12	7		23.20	23.15	23.05		
5	12	13		23.04	23.19	23.14		
5	25	0		23.17	23.22	23.11		
5	1	0	16-QAM	23.08	23.10	23.16	22.81	0.1910
5	1	12		23.41	23.40	23.51		
5	1	24		23.35	23.49	23.11		
5	12	0		22.22	22.17	22.18		
5	12	7		22.08	22.13	22.15		
5	12	13		22.14	22.03	22.00		
5	25	0		22.19	22.09	22.15		
5	1	0	64-QAM	22.14	22.22	21.89	21.60	0.1445
5	1	12		22.00	22.11	21.83		
5	1	24		22.20	22.10	22.30		
5	12	0		21.03	20.99	21.12		
5	12	7		21.04	21.25	21.08		
5	12	13		21.10	21.08	21.10		
5	25	0		21.10	21.08	21.11		
5	1	0	256-QAM	19.43	19.46	19.42	18.76	0.0752
5	1	12		19.36	19.26	19.27		
5	1	24		19.36	19.34	19.26		
5	12	0		19.32	19.26	19.34		
5	12	7		19.30	19.32	19.31		
5	12	13		19.22	19.23	19.25		
5	25	0		19.26	19.25	19.32		
Limit	EIRP < 250mW/5MHz			Result			Pass	

<ASDIV Antenna>

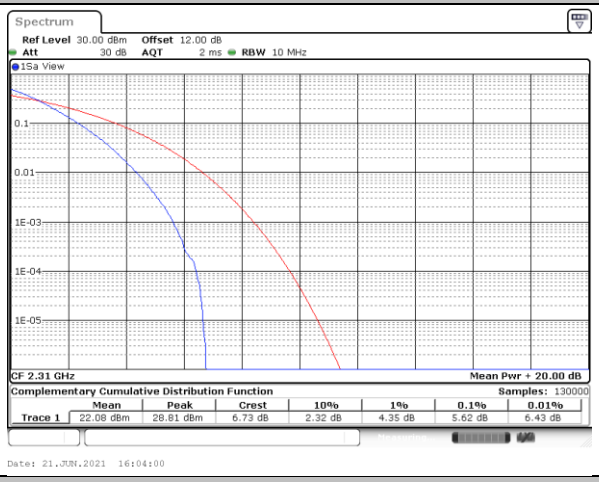
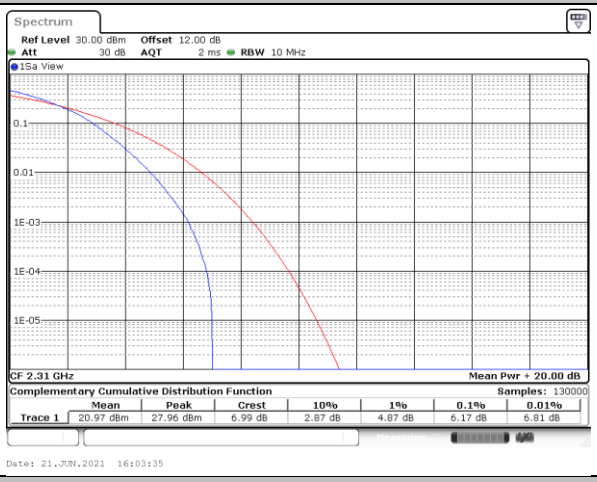
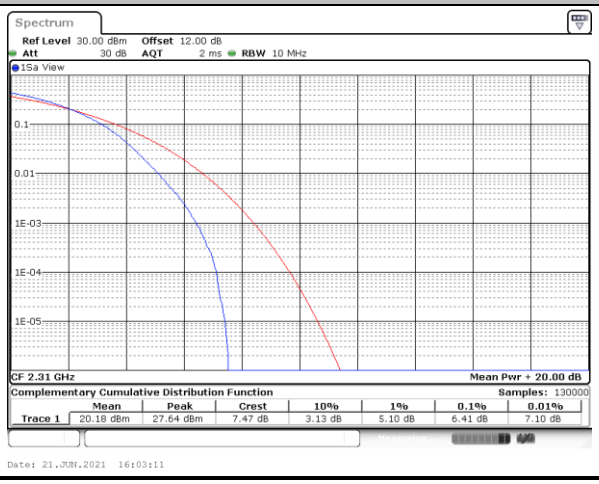
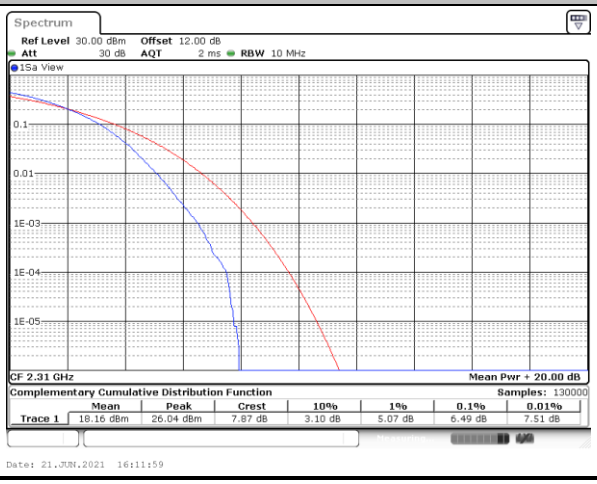
LTE Band 30 Maximum Average Power [dBm] (GT - LC = -2.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	-	22.59	-	20.52	0.1127
10	1	25			22.62			
10	1	49			22.56			
10	25	0			21.69			
10	25	12			21.68			
10	25	25			21.62			
10	50	0			21.74			
10	1	0	16-QAM		21.98		19.88	0.0973
10	1	25			21.94			
10	1	49			21.81			
10	25	0			20.78			
10	25	12			20.59			
10	25	25			20.61			
10	50	0			20.71			
10	1	0	64-QAM		20.72		18.62	0.0728
10	1	25			20.70			
10	1	49			20.64			
10	25	0			19.72			
10	25	12			19.68			
10	25	25			19.65			
10	50	0			19.76			
10	1	0	256-QAM		17.81		15.79	0.0379
10	1	25			17.73			
10	1	49			17.89			
10	25	0			17.85			
10	25	12			17.84			
10	25	25			17.77			
10	50	0			17.84			
Limit	EIRP < 250mW/5MHz			Result			Pass	

LTE Band 30 Maximum Average Power [dBm] (GT - LC = -2.1 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.59	22.60	22.57	20.51	0.1125
5	1	12		22.54	22.61	22.59		
5	1	24		22.56	22.56	22.47		
5	12	0		21.65	21.64	21.55		
5	12	7		21.61	21.66	21.64		
5	12	13		21.67	21.59	21.53		
5	25	0		21.74	21.71	21.61		
5	1	0	16-QAM	22.08	21.92	22.44	20.34	0.1081
5	1	12		22.02	21.85	22.07		
5	1	24		22.22	22.06	21.74		
5	12	0		20.64	20.54	20.72		
5	12	7		20.62	20.71	20.71		
5	12	13		20.56	20.69	20.61		
5	25	0		20.69	20.71	20.64		
5	1	0	64-QAM	20.68	20.95	20.81	18.85	0.0767
5	1	12		20.89	20.89	20.70		
5	1	24		20.82	20.70	20.55		
5	12	0		19.69	19.68	19.78		
5	12	7		19.65	19.57	19.68		
5	12	13		19.63	19.58	19.61		
5	25	0		19.59	19.70	19.59		
5	1	0	256-QAM	17.73	17.76	17.84	15.76	0.0377
5	1	12		17.68	17.71	17.81		
5	1	24		17.74	17.86	17.69		
5	12	0		17.75	17.85	17.83		
5	12	7		17.78	17.77	17.77		
5	12	13		17.77	17.76	17.73		
5	25	0		17.83	17.77	17.79		
Limit	EIRP < 250mW/5MHz			Result			Pass	

LTE Band 30

Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.62	6.17	6.41	6.49	PASS

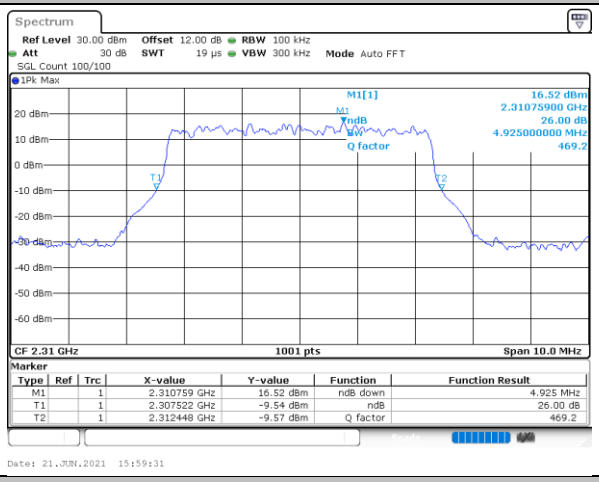
LTE Band 30 / 10MHz / QPSK	LTE Band 30 / 10MHz / 16QAM
Middle Channel / Full RB	Middle Channel / Full RB
	
LTE Band 30 / 10MHz / 64QAM	LTE Band 30 / 10MHz / 256QAM
Middle Channel / Full RB	Middle Channel / Full RB
	

26dB Bandwidth

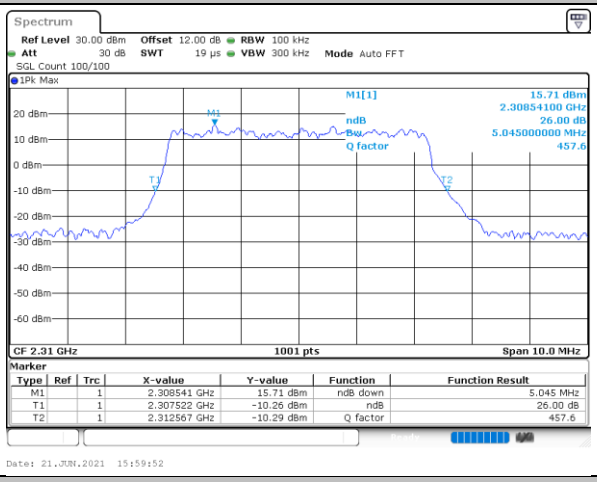
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.93	5.05	10.47	10.15	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	5.21	5.34	10.21	10.25	-	-	-	-

LTE Band 30

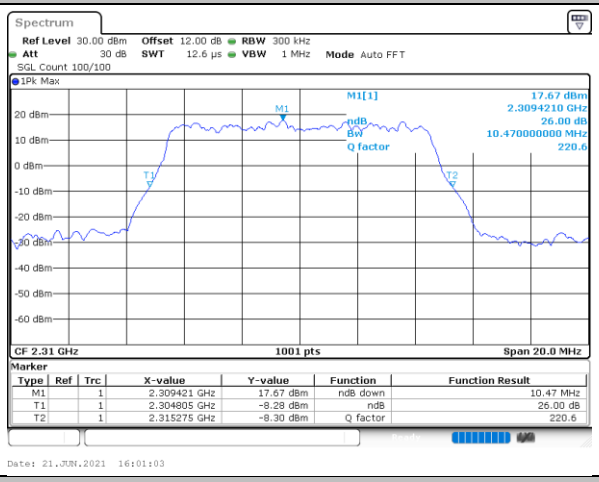
Middle Channel / 5MHz / QPSK



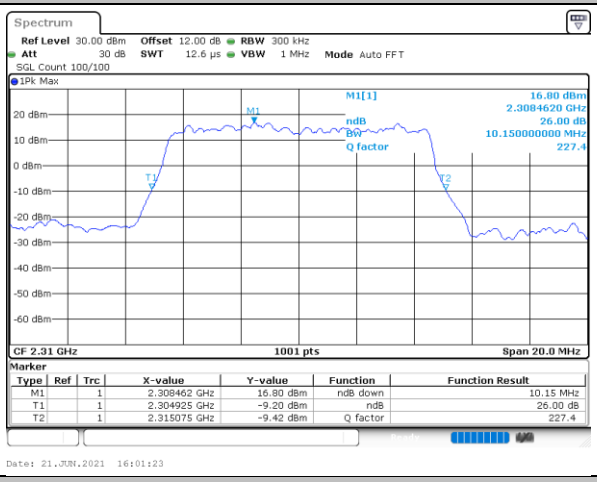
Middle Channel / 5MHz / 16QAM



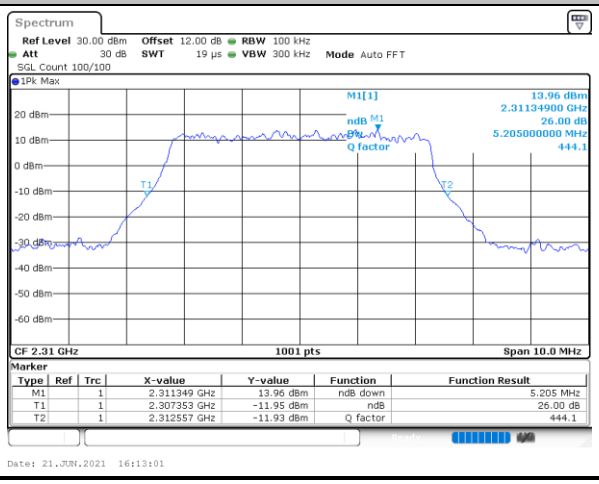
Middle Channel / 10MHz / QPSK



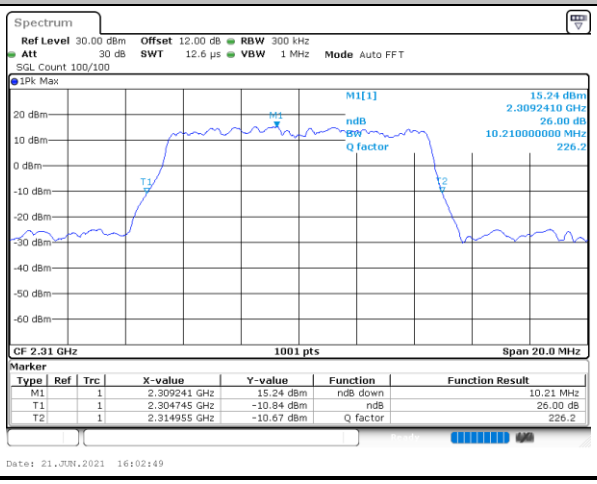
Middle Channel / 10MHz / 16QAM

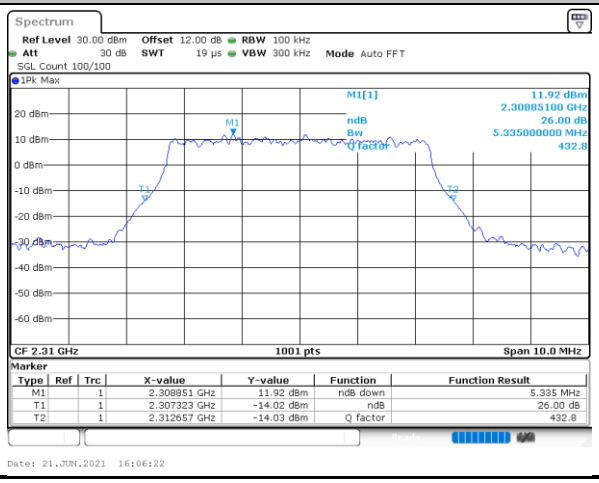
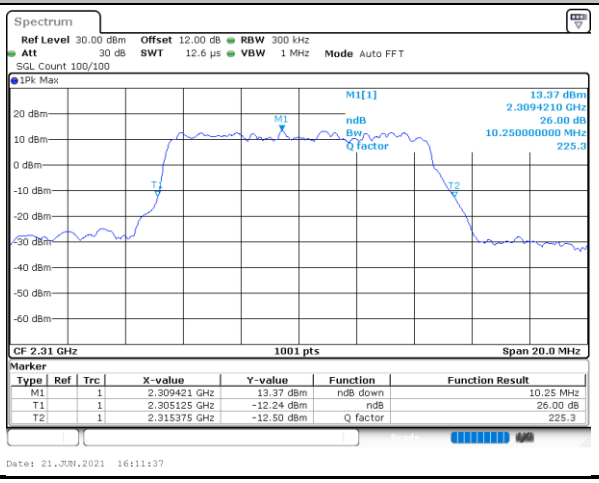


Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



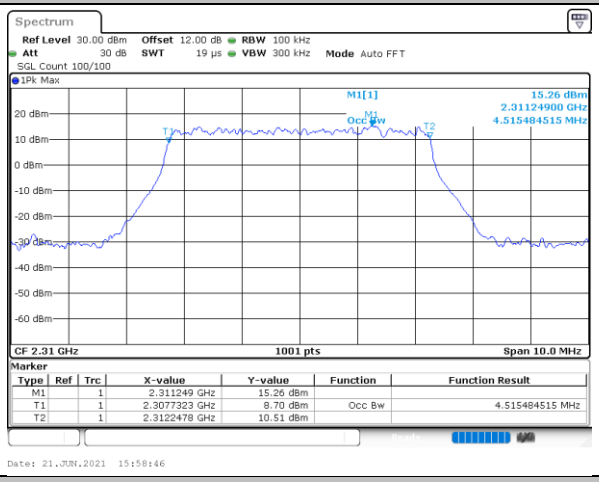
LTE Band 30	
Middle Channel / 5MHz / 256QAM	**Middle Channel / 10MHz / 256QAM**
	

Occupied Bandwidth

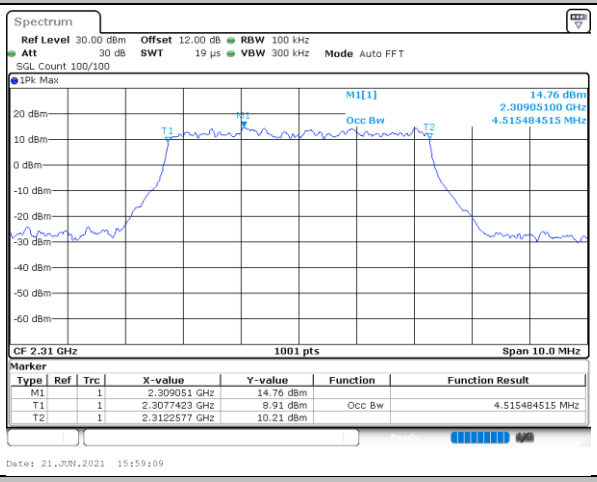
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.52	4.52	9.07	9.09	-	-	-	-
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.51	4.51	9.09	9.01	-	-	-	-

LTE Band 30

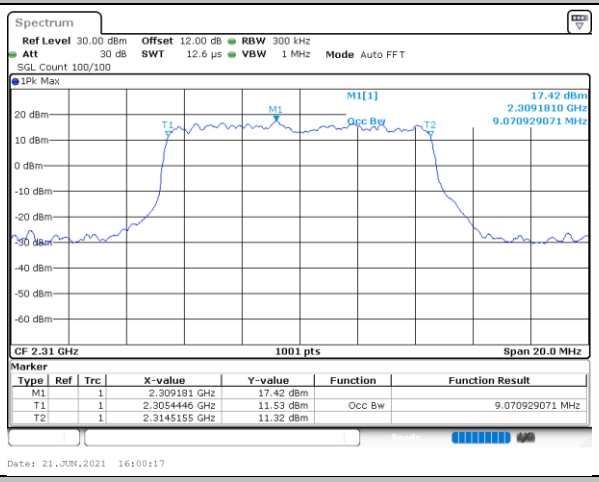
Middle Channel / 5MHz / QPSK



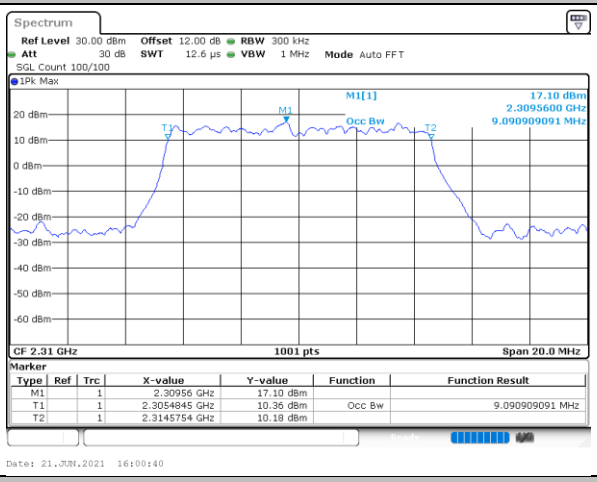
Middle Channel / 5MHz / 16QAM



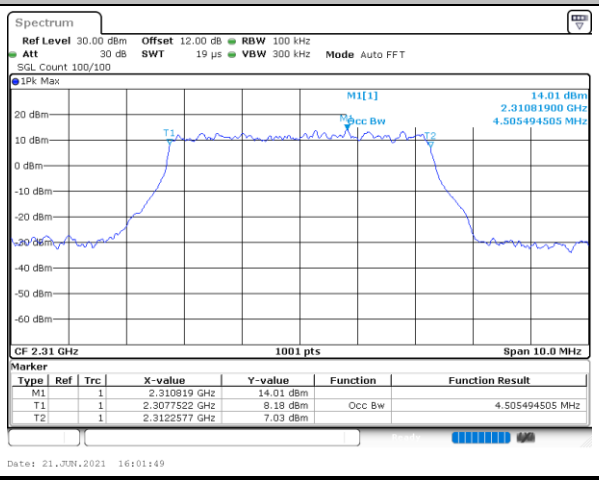
Middle Channel / 10MHz / QPSK



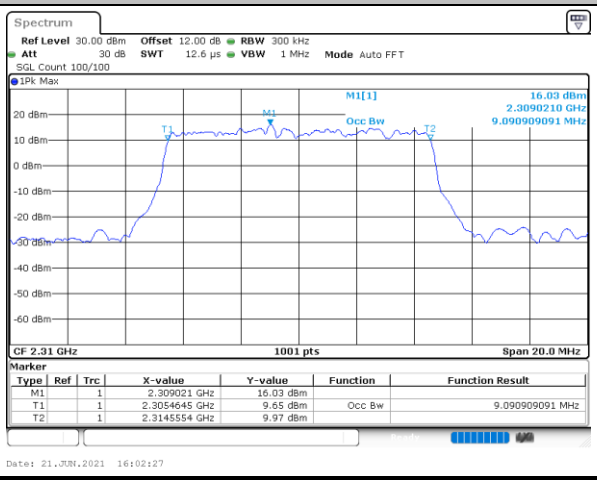
Middle Channel / 10MHz / 16QAM



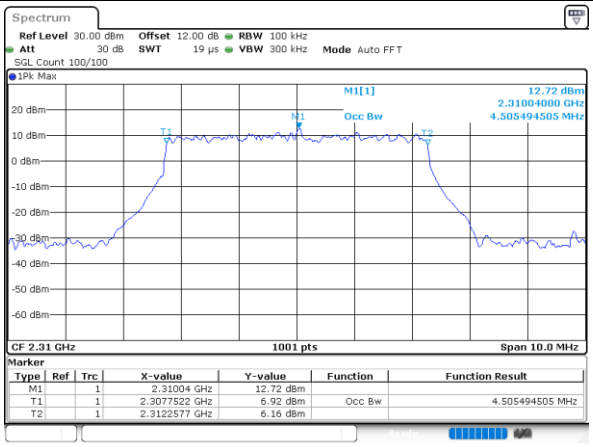
Middle Channel / 5MHz / 64QAM

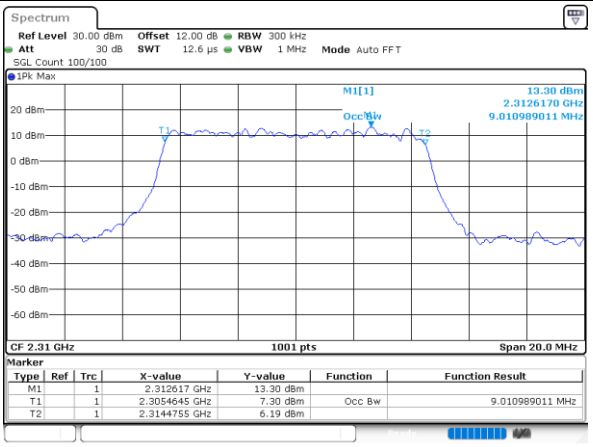


Middle Channel / 10MHz / 64QAM



LTE Band 30	
Middle Channel / 5MHz / 256QAM	**Middle Channel / 10MHz / 256QAM**

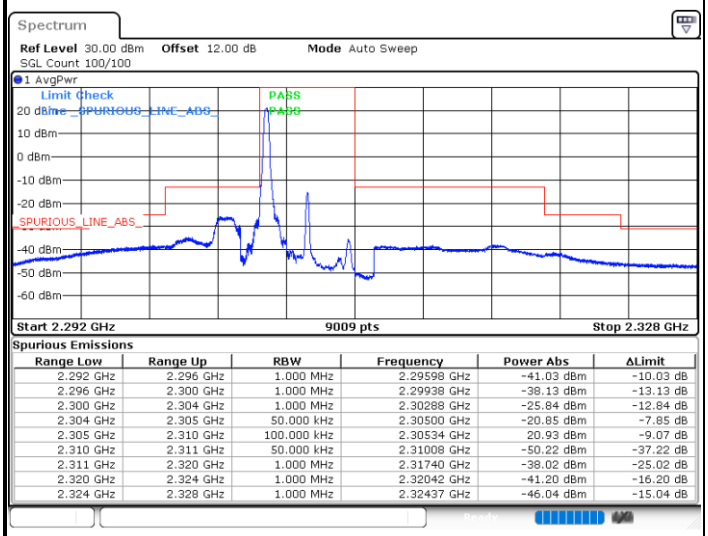




Conducted Band Edge

LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-41.03 dBm	-10.03 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29938 GHz	-38.13 dBm	-13.13 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30288 GHz	-25.84 dBm	-12.84 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-20.85 dBm	-7.85 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30534 GHz	20.93 dBm	-9.07 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31008 GHz	-50.22 dBm	-37.22 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31740 GHz	-38.02 dBm	-25.02 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32042 GHz	-41.20 dBm	-16.20 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32437 GHz	-46.04 dBm	-15.04 dB

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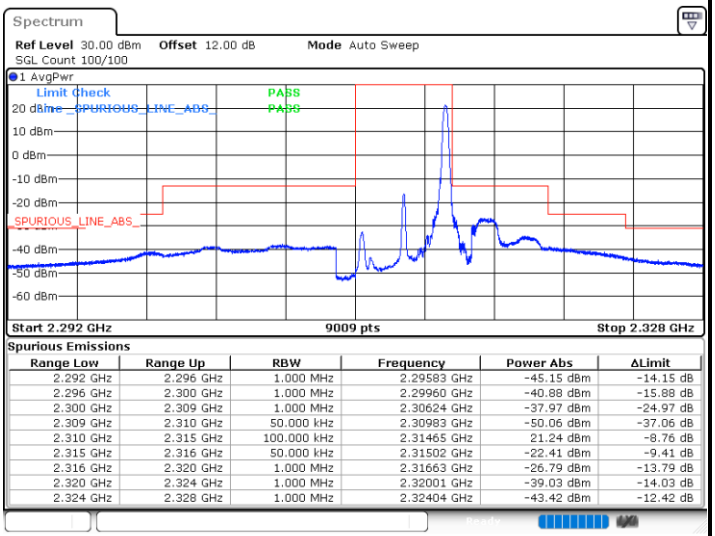
Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29583 GHz	-45.15 dBm	-14.15 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29960 GHz	-40.88 dBm	-15.88 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30624 GHz	-37.97 dBm	-24.97 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30983 GHz	-50.06 dBm	-37.06 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31465 GHz	21.24 dBm	-8.76 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31502 GHz	-22.41 dBm	-9.41 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31663 GHz	-26.79 dBm	-13.79 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32001 GHz	-39.03 dBm	-14.03 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-43.42 dBm	-12.42 dB

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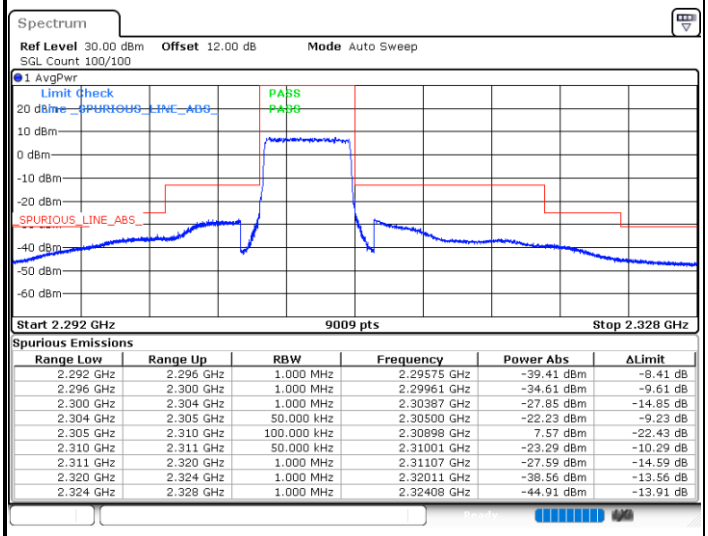
Lowest Band Edge / Full RB

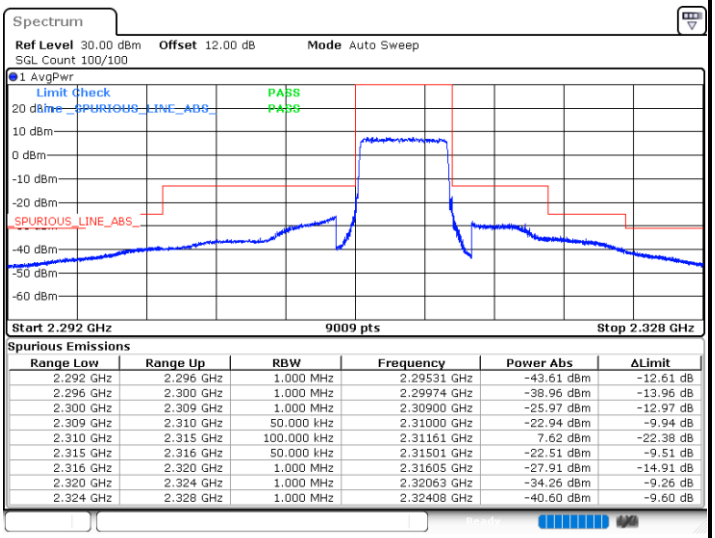


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29575 GHz	-39.41 dBm	-8.41 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29961 GHz	-34.61 dBm	-9.61 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30387 GHz	-27.85 dBm	-14.85 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-22.23 dBm	-9.23 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30898 GHz	7.57 dBm	-22.43 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-23.29 dBm	-10.29 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31107 GHz	-27.59 dBm	-14.59 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32011 GHz	-38.56 dBm	-13.56 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32408 GHz	-44.91 dBm	-13.91 dB

Date: 21.JUN.2021 15:45:42

Highest Band Edge / Full RB



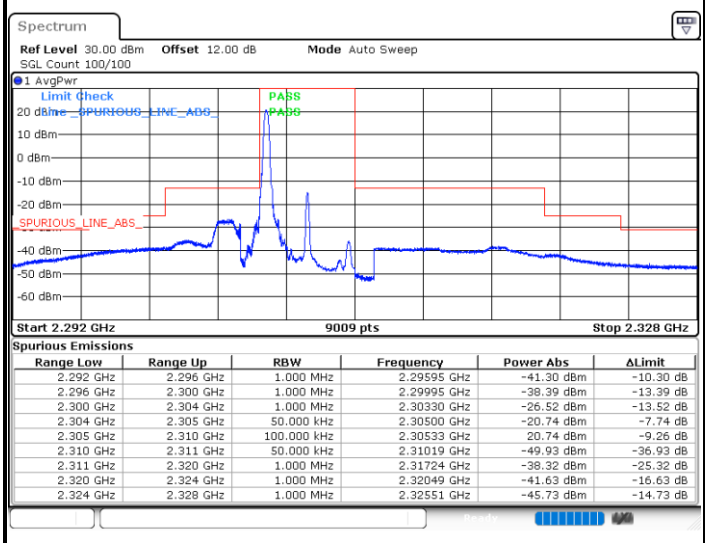
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29531 GHz	-43.61 dBm	-12.61 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29974 GHz	-38.96 dBm	-13.96 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30900 GHz	-25.97 dBm	-12.97 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-22.94 dBm	-9.94 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31161 GHz	7.62 dBm	-22.38 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-22.51 dBm	-9.51 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31605 GHz	-27.91 dBm	-14.91 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32063 GHz	-34.26 dBm	-9.26 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32408 GHz	-40.60 dBm	-9.60 dB

Date: 21.JUN.2021 15:48:16

LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

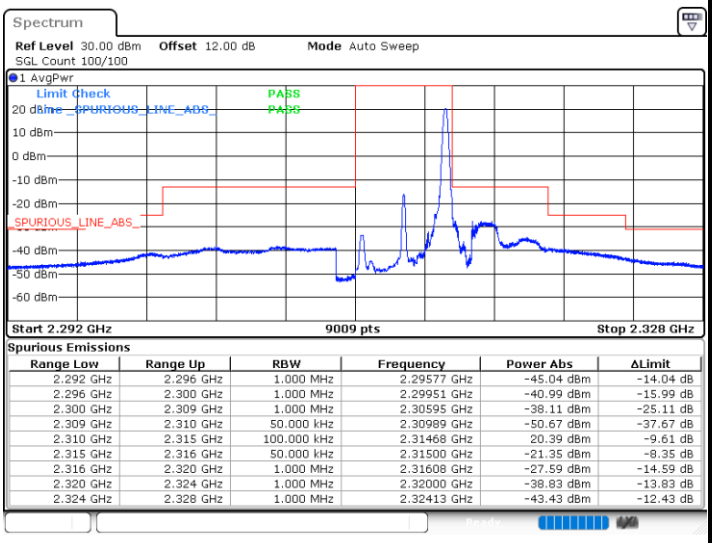


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29595 GHz	-41.30 dBm	-10.30 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29995 GHz	-38.39 dBm	-13.39 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30330 GHz	-26.52 dBm	-13.52 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-20.74 dBm	-7.74 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30533 GHz	20.74 dBm	-9.26 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31019 GHz	-49.93 dBm	-36.93 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31724 GHz	-38.32 dBm	-25.32 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32049 GHz	-41.63 dBm	-16.63 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32551 GHz	-45.73 dBm	-14.73 dB

Date: 21.JUN.2021 15:44:50

Highest Band Edge / 1 RB

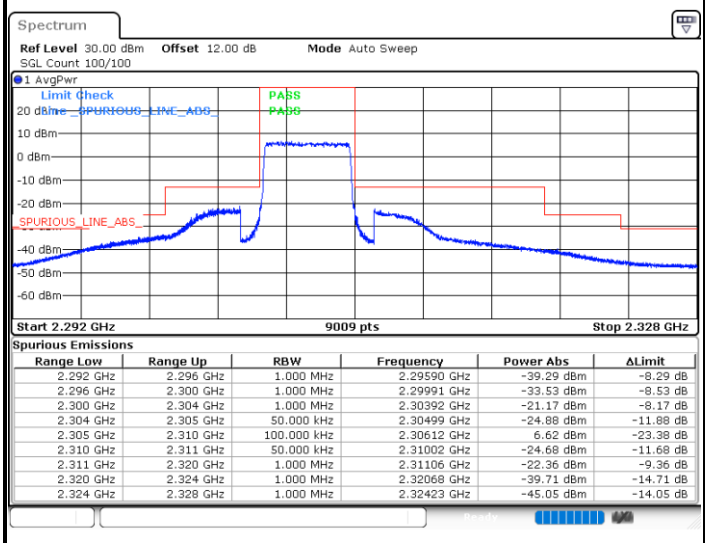


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29577 GHz	-45.04 dBm	-14.04 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29951 GHz	-40.99 dBm	-15.99 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30595 GHz	-38.11 dBm	-25.11 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30989 GHz	-50.67 dBm	-37.67 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	20.39 dBm	-9.61 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-21.35 dBm	-8.35 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31608 GHz	-27.59 dBm	-14.59 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32000 GHz	-38.83 dBm	-13.83 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32413 GHz	-43.43 dBm	-12.43 dB

Date: 21.JUN.2021 15:47:24

Lowest Band Edge / Full RB

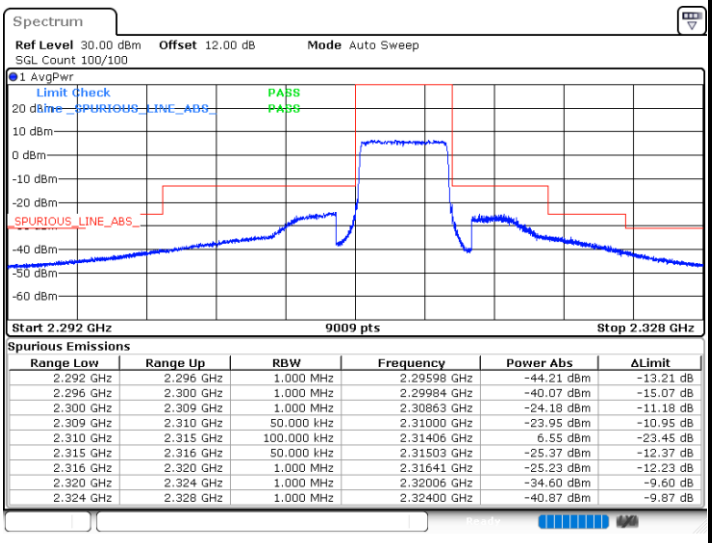


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29590 GHz	-39.29 dBm	-8.29 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29991 GHz	-33.53 dBm	-8.53 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30392 GHz	-21.17 dBm	-8.17 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-24.88 dBm	-11.88 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30612 GHz	6.62 dBm	-23.38 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31002 GHz	-24.68 dBm	-11.68 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31106 GHz	-22.36 dBm	-9.36 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32068 GHz	-39.71 dBm	-14.71 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32423 GHz	-45.05 dBm	-14.05 dB

Date: 21.JUN.2021 15:46:07

Highest Band Edge / Full RB



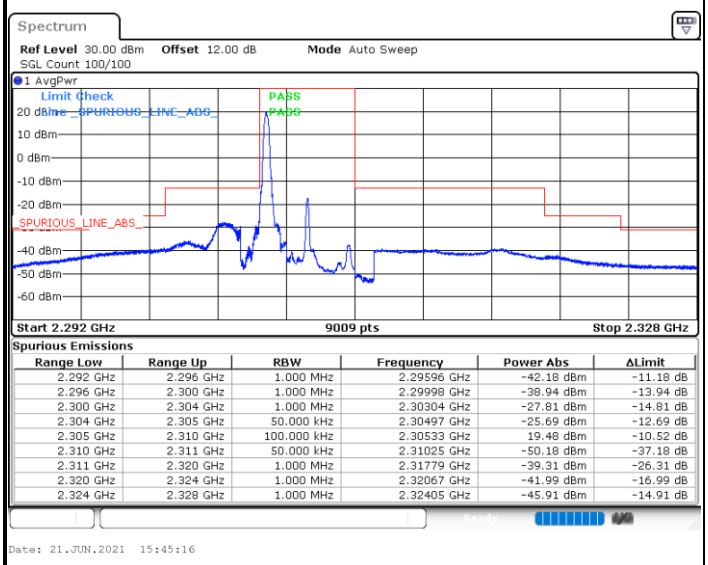
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-44.21 dBm	-13.21 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29984 GHz	-40.07 dBm	-15.07 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30863 GHz	-24.18 dBm	-11.18 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-23.95 dBm	-10.95 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31406 GHz	6.55 dBm	-23.45 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31503 GHz	-25.37 dBm	-12.37 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31641 GHz	-25.23 dBm	-12.23 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32006 GHz	-34.60 dBm	-9.60 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-40.87 dBm	-9.87 dB

Date: 21.JUN.2021 15:48:41

LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

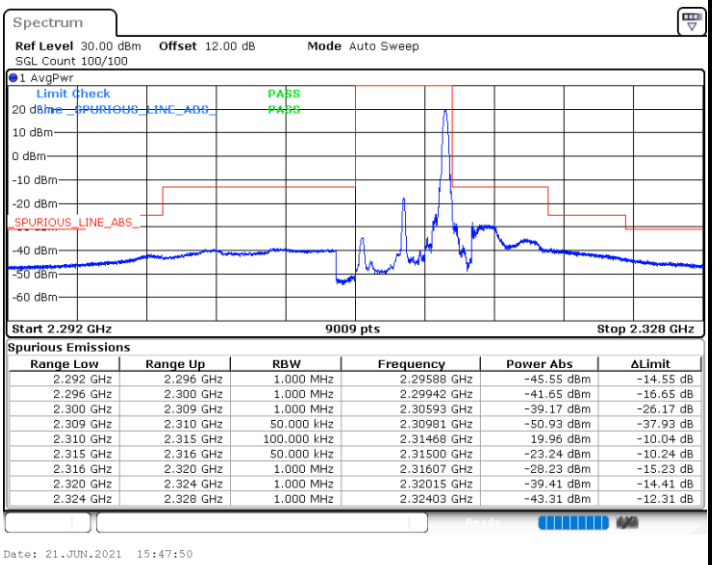


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29596 GHz	-42.18 dBm	-11.18 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29998 GHz	-38.94 dBm	-13.94 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30304 GHz	-27.81 dBm	-14.81 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30497 GHz	-25.69 dBm	-12.69 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30533 GHz	19.48 dBm	-10.52 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31025 GHz	-50.18 dBm	-37.18 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31779 GHz	-39.31 dBm	-26.31 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32067 GHz	-41.99 dBm	-16.99 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-45.91 dBm	-14.91 dB

Date: 21.JUN.2021 15:45:16

Highest Band Edge / 1 RB

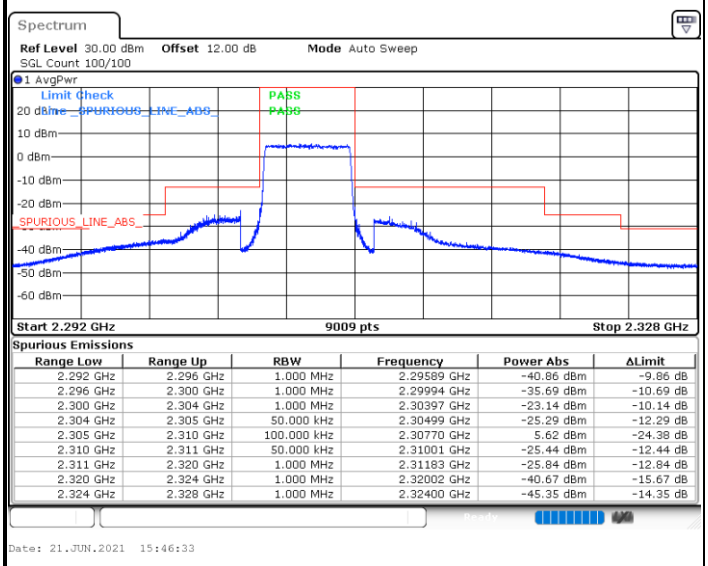


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29588 GHz	-45.55 dBm	-14.55 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29942 GHz	-41.65 dBm	-16.65 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30593 GHz	-39.17 dBm	-26.17 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30981 GHz	-50.93 dBm	-37.93 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	19.96 dBm	-10.04 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-23.24 dBm	-10.24 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31607 GHz	-28.23 dBm	-15.23 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32015 GHz	-39.41 dBm	-14.41 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-43.31 dBm	-12.31 dB

Date: 21.JUN.2021 15:47:50

Lowest Band Edge / Full RB

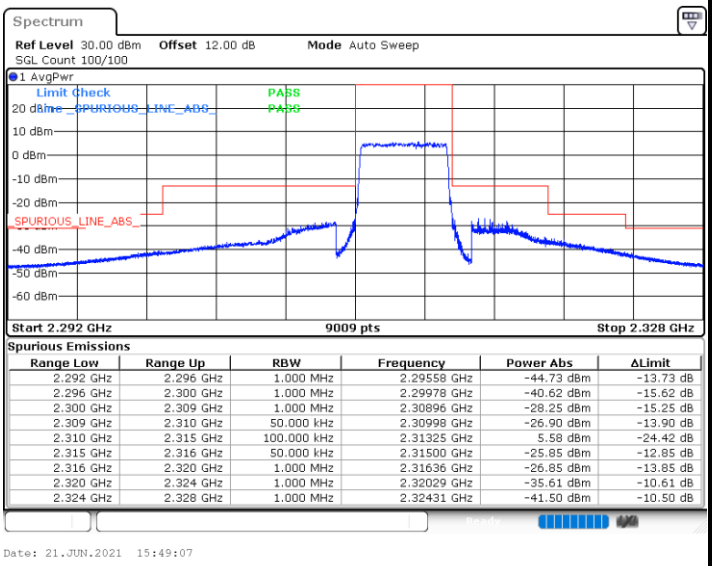


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29589 GHz	-40.86 dBm	-9.86 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29994 GHz	-35.69 dBm	-10.69 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30397 GHz	-23.14 dBm	-10.14 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-25.29 dBm	-12.29 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30770 GHz	5.62 dBm	-24.38 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-25.44 dBm	-12.44 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31183 GHz	-25.84 dBm	-12.84 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-40.67 dBm	-15.67 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-45.35 dBm	-14.35 dB

Date: 21.JUN.2021 15:46:33

Highest Band Edge / Full RB



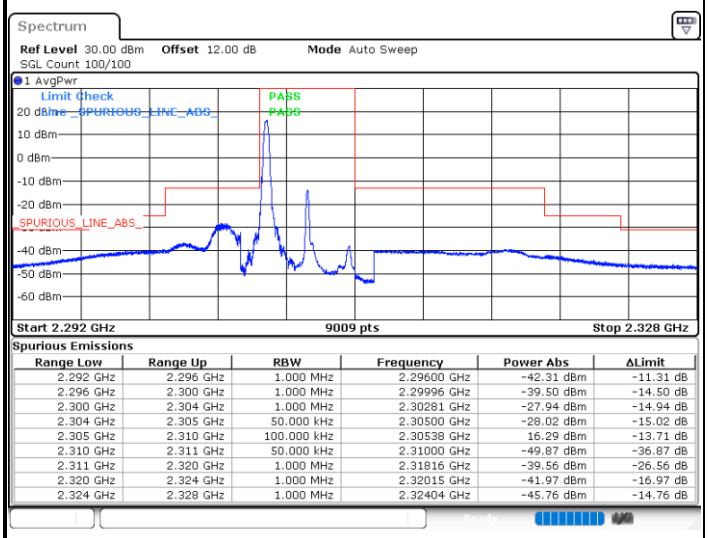
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29558 GHz	-44.73 dBm	-13.73 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29978 GHz	-40.62 dBm	-15.62 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30896 GHz	-28.25 dBm	-15.25 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30998 GHz	-26.90 dBm	-13.90 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31325 GHz	5.58 dBm	-24.42 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-25.85 dBm	-12.85 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31636 GHz	-26.85 dBm	-13.85 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32029 GHz	-35.61 dBm	-10.61 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32431 GHz	-41.50 dBm	-10.50 dB

Date: 21.JUN.2021 15:49:07

LTE Band 30 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

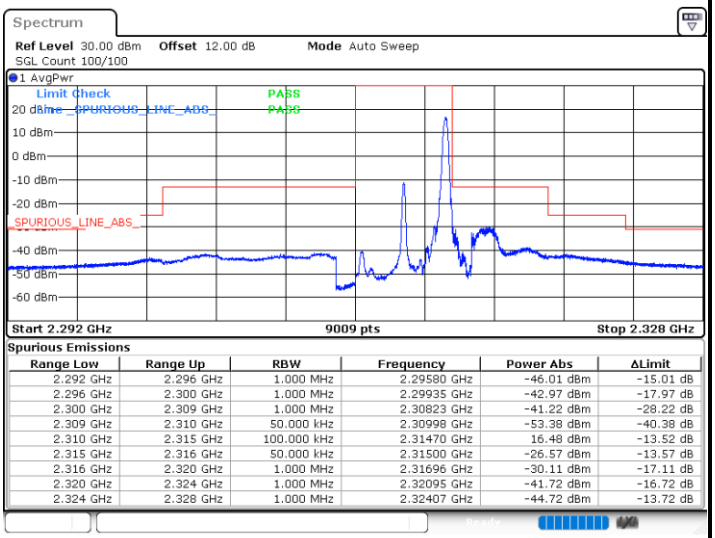


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29600 GHz	-42.31 dBm	-11.31 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29996 GHz	-39.50 dBm	-14.50 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30281 GHz	-27.94 dBm	-14.94 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-28.02 dBm	-15.02 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30538 GHz	16.29 dBm	-13.71 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-49.87 dBm	-36.87 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31816 GHz	-39.56 dBm	-26.56 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32015 GHz	-41.97 dBm	-16.97 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-45.76 dBm	-14.76 dB

Date: 21.JUN.2021 16:07:08

Highest Band Edge / 1 RB

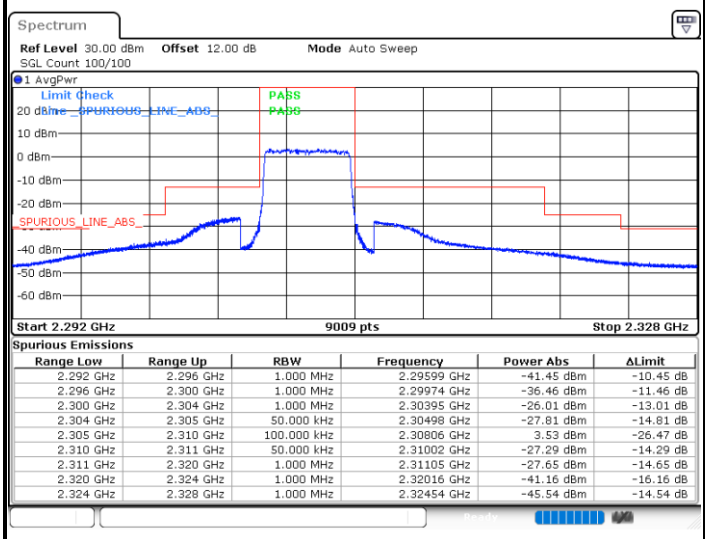


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29580 GHz	-46.01 dBm	-15.01 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29935 GHz	-42.97 dBm	-17.97 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30823 GHz	-41.22 dBm	-28.22 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30998 GHz	-53.38 dBm	-40.38 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31470 GHz	16.48 dBm	-13.52 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-26.57 dBm	-13.57 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31696 GHz	-30.11 dBm	-17.11 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32095 GHz	-41.72 dBm	-16.72 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32407 GHz	-44.72 dBm	-13.72 dB

Date: 21.JUN.2021 16:08:38

Lowest Band Edge / Full RB

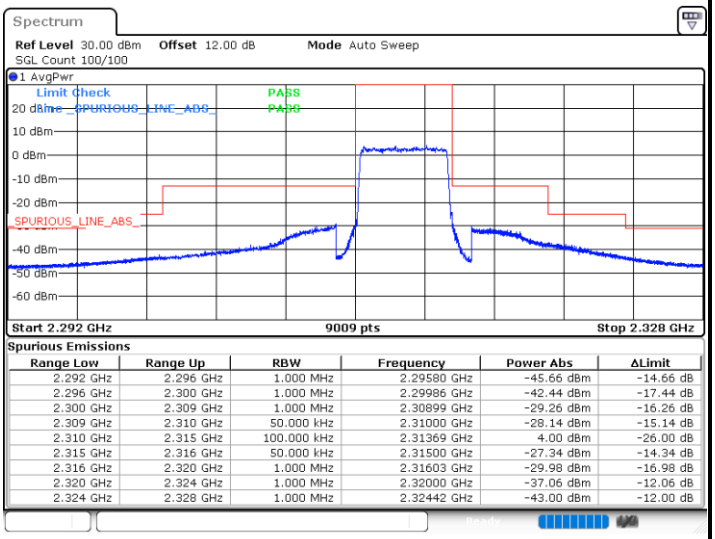


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-41.45 dBm	-10.45 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29974 GHz	-36.46 dBm	-11.46 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30395 GHz	-26.01 dBm	-13.01 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30498 GHz	-27.81 dBm	-14.81 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30806 GHz	3.53 dBm	-26.47 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31002 GHz	-27.29 dBm	-14.29 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31105 GHz	-27.65 dBm	-14.65 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32016 GHz	-41.16 dBm	-16.16 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32454 GHz	-45.54 dBm	-14.54 dB

Date: 21.JUN.2021 16:07:52

Highest Band Edge / Full RB



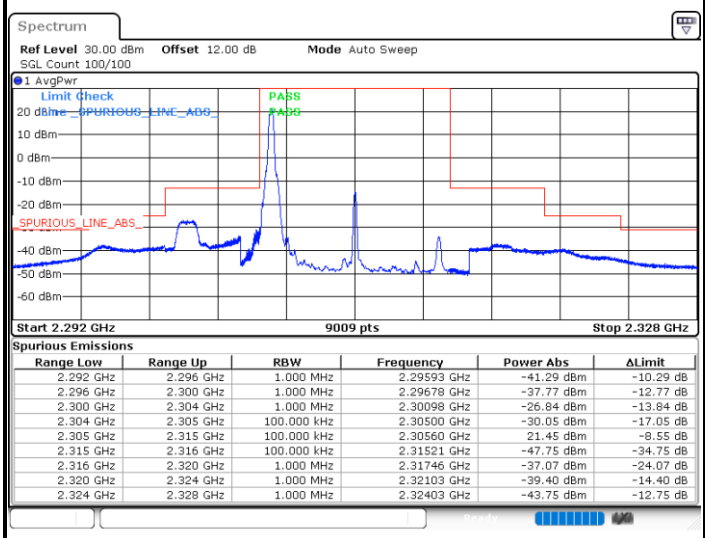
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29580 GHz	-45.66 dBm	-14.66 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29986 GHz	-42.44 dBm	-17.44 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30899 GHz	-29.26 dBm	-16.26 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-28.14 dBm	-15.14 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31369 GHz	4.00 dBm	-26.00 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-27.34 dBm	-14.34 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-29.98 dBm	-16.98 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32000 GHz	-37.06 dBm	-12.06 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32442 GHz	-43.00 dBm	-12.00 dB

Date: 21.JUN.2021 16:09:23

LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB

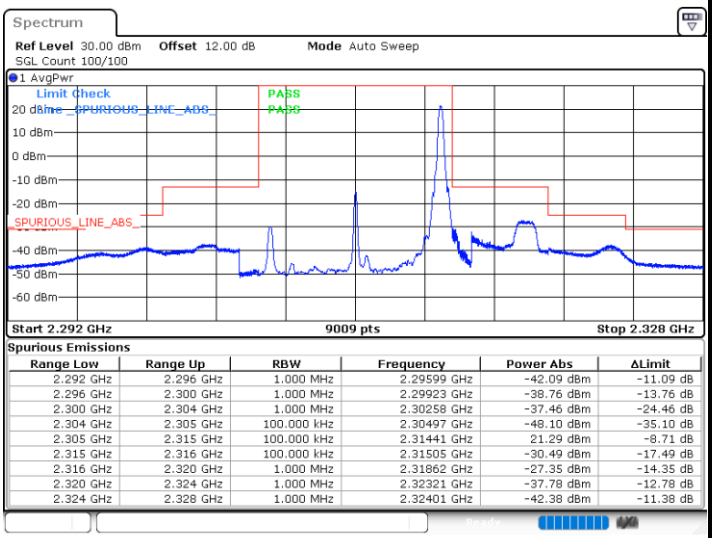


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29593 GHz	-41.29 dBm	-10.29 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29678 GHz	-37.77 dBm	-12.77 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30098 GHz	-26.84 dBm	-13.84 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-30.05 dBm	-17.05 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30560 GHz	21.45 dBm	-8.55 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31521 GHz	-47.75 dBm	-34.75 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31746 GHz	-37.07 dBm	-24.07 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32103 GHz	-39.40 dBm	-14.40 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-43.75 dBm	-12.75 dB

Date: 21.JUN.2021 15:50:36

Highest Band Edge / 1 RB

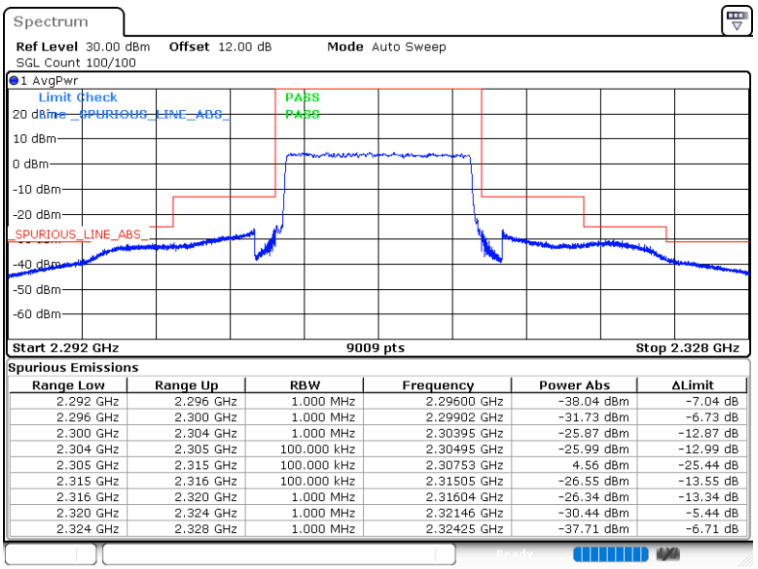


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-42.09 dBm	-11.09 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29923 GHz	-38.76 dBm	-13.76 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30258 GHz	-37.46 dBm	-24.46 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30497 GHz	-48.10 dBm	-35.10 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31441 GHz	21.29 dBm	-8.71 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31505 GHz	-30.49 dBm	-17.49 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31862 GHz	-27.35 dBm	-14.35 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32321 GHz	-37.78 dBm	-12.78 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-42.38 dBm	-11.38 dB

Date: 21.JUN.2021 15:51:52

Band Edge / Full RB



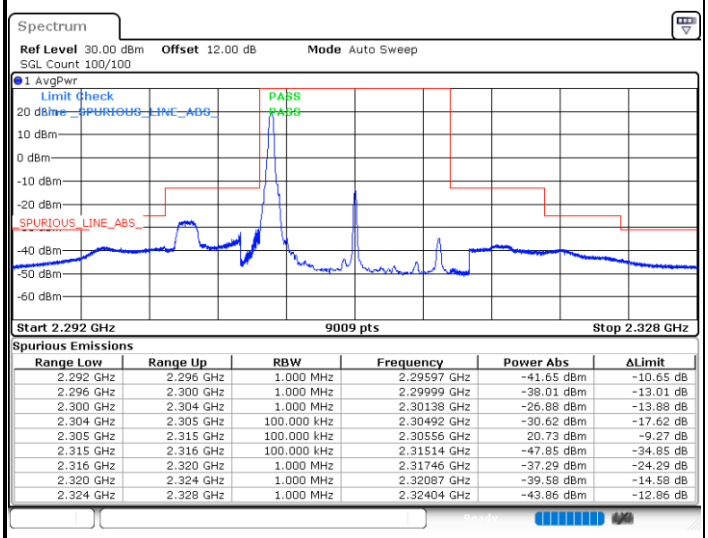
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29600 GHz	-38.04 dBm	-7.04 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29902 GHz	-31.73 dBm	-6.73 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30395 GHz	-25.87 dBm	-12.87 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30495 GHz	-25.99 dBm	-12.99 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30753 GHz	4.56 dBm	-25.44 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31505 GHz	-26.55 dBm	-13.55 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31604 GHz	-26.34 dBm	-13.34 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32146 GHz	-30.44 dBm	-5.44 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32425 GHz	-37.71 dBm	-6.71 dB

Date: 21.JUN.2021 15:53:09

LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

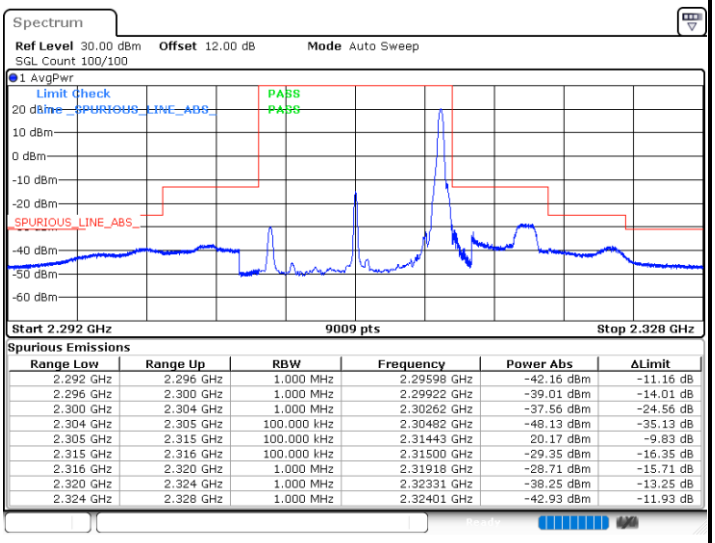


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-41.65 dBm	-10.65 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29999 GHz	-38.01 dBm	-13.01 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30138 GHz	-26.88 dBm	-13.88 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30492 GHz	-30.62 dBm	-17.62 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30556 GHz	20.73 dBm	-9.27 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31514 GHz	-47.85 dBm	-34.85 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31746 GHz	-37.29 dBm	-24.29 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32087 GHz	-39.58 dBm	-14.58 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-43.86 dBm	-12.86 dB

Date: 21.JUN.2021 15:51:02

Highest Band Edge / 1 RB

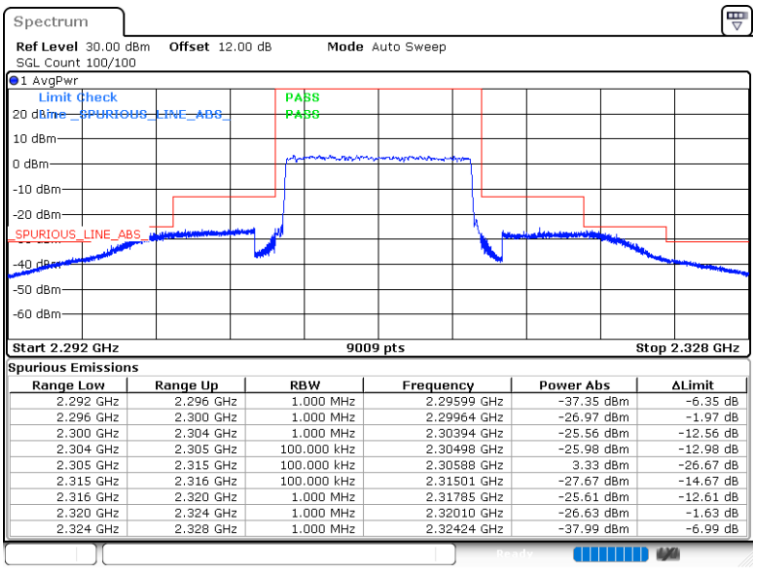


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-42.16 dBm	-11.16 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29922 GHz	-39.01 dBm	-14.01 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30262 GHz	-37.56 dBm	-24.56 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30482 GHz	-48.13 dBm	-35.13 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31443 GHz	20.17 dBm	-9.83 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-29.35 dBm	-16.35 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31918 GHz	-28.71 dBm	-15.71 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32331 GHz	-38.25 dBm	-13.25 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-42.93 dBm	-11.93 dB

Date: 21.JUN.2021 15:52:18

Band Edge / Full RB



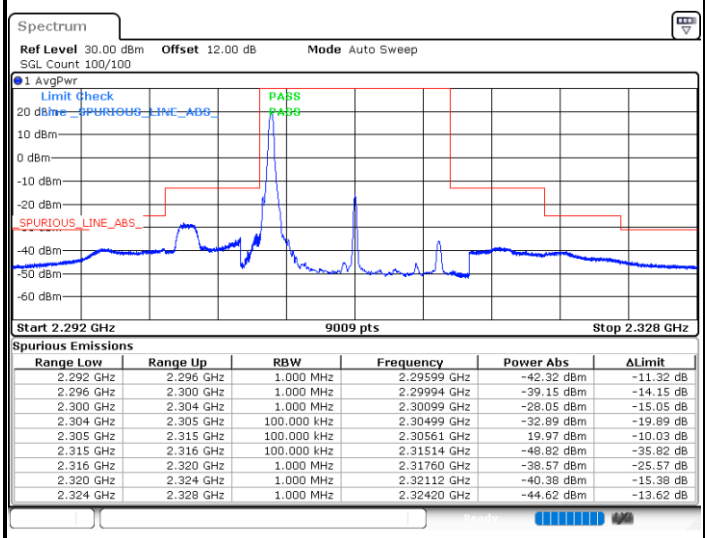
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-37.35 dBm	-6.35 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29964 GHz	-26.97 dBm	-1.97 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30394 GHz	-25.56 dBm	-12.56 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30498 GHz	-25.98 dBm	-12.98 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30588 GHz	3.33 dBm	-26.67 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-27.67 dBm	-14.67 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31785 GHz	-25.61 dBm	-12.61 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32010 GHz	-26.63 dBm	-1.63 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32424 GHz	-37.99 dBm	-6.99 dB

Date: 21.JUN.2021 16:05:26

LTE Band 30 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

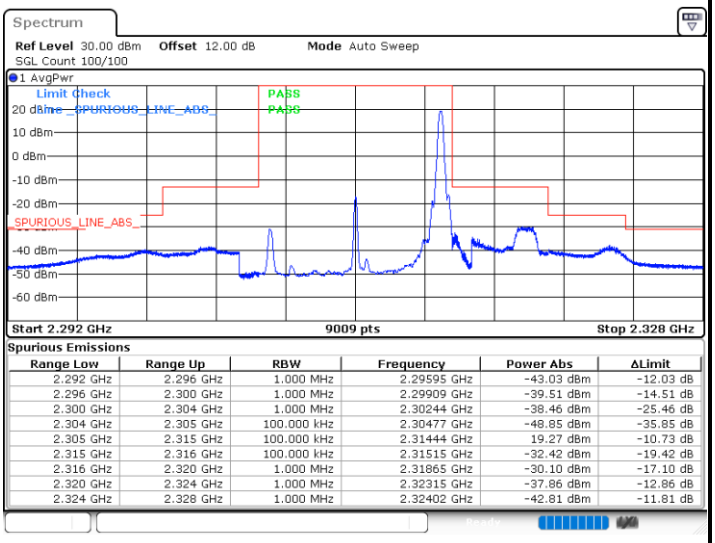


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-42.32 dBm	-11.32 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29994 GHz	-39.15 dBm	-14.15 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30099 GHz	-28.05 dBm	-15.05 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-32.89 dBm	-19.89 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30561 GHz	19.97 dBm	-10.03 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31514 GHz	-48.82 dBm	-35.82 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31760 GHz	-38.57 dBm	-25.57 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32112 GHz	-40.38 dBm	-15.38 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32420 GHz	-44.62 dBm	-13.62 dB

Date: 21.JUN.2021 15:51:27

Highest Band Edge / 1 RB

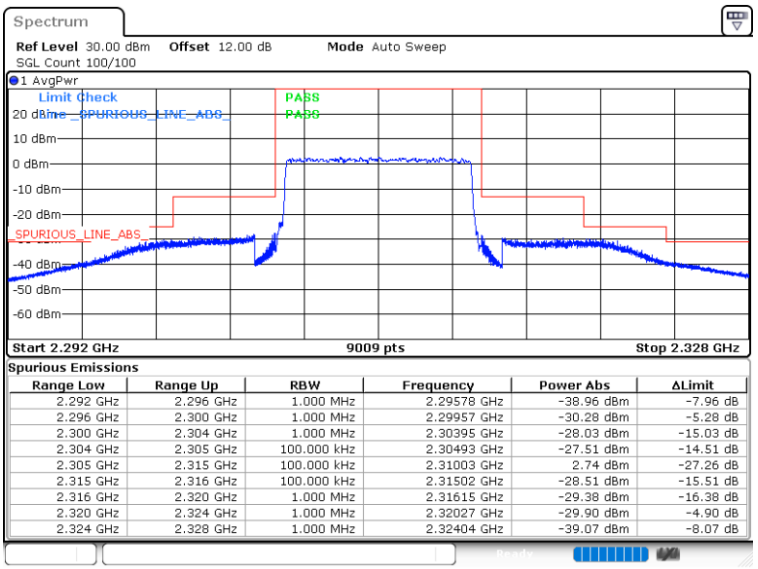


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29595 GHz	-43.03 dBm	-12.03 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29909 GHz	-39.51 dBm	-14.51 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30244 GHz	-38.46 dBm	-25.46 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30477 GHz	-48.85 dBm	-35.85 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31444 GHz	19.27 dBm	-10.73 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31515 GHz	-32.42 dBm	-19.42 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31865 GHz	-30.10 dBm	-17.10 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32315 GHz	-37.86 dBm	-12.86 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32402 GHz	-42.81 dBm	-11.81 dB

Date: 21.JUN.2021 15:52:43

Band Edge / Full RB



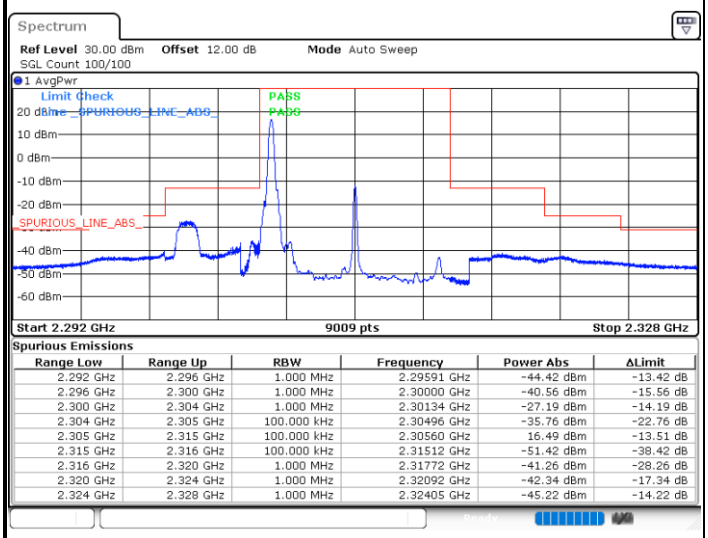
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29578 GHz	-38.96 dBm	-7.96 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29957 GHz	-30.28 dBm	-5.28 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30395 GHz	-28.03 dBm	-15.03 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30493 GHz	-27.51 dBm	-14.51 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31003 GHz	2.74 dBm	-27.26 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31502 GHz	-28.51 dBm	-15.51 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31615 GHz	-29.38 dBm	-16.38 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32027 GHz	-29.90 dBm	-4.90 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-39.07 dBm	-8.07 dB

Date: 21.JUN.2021 15:54:01

LTE Band 30 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

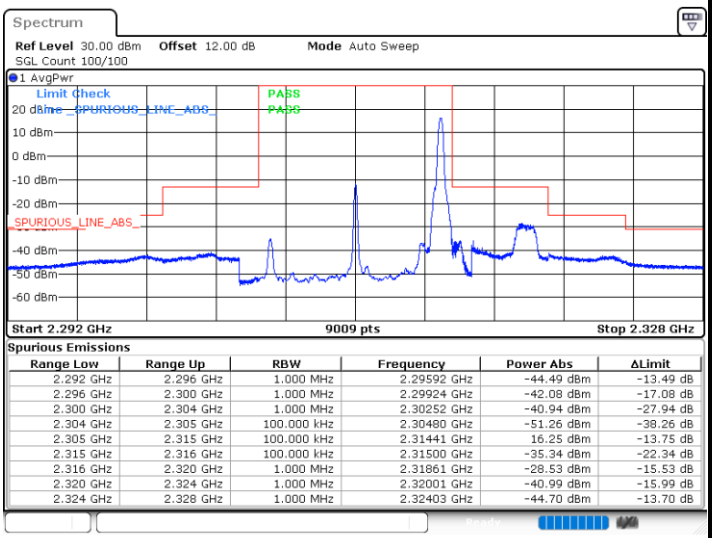


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29591 GHz	-44.42 dBm	-13.42 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.30000 GHz	-40.56 dBm	-15.56 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30134 GHz	-27.19 dBm	-14.19 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30496 GHz	-35.76 dBm	-22.76 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30560 GHz	16.49 dBm	-13.51 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31512 GHz	-51.42 dBm	-38.42 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31772 GHz	-41.26 dBm	-28.26 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32092 GHz	-42.34 dBm	-17.34 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-45.22 dBm	-14.22 dB

Date: 21.JUN.2021 16:10:04

Highest Band Edge / 1 RB

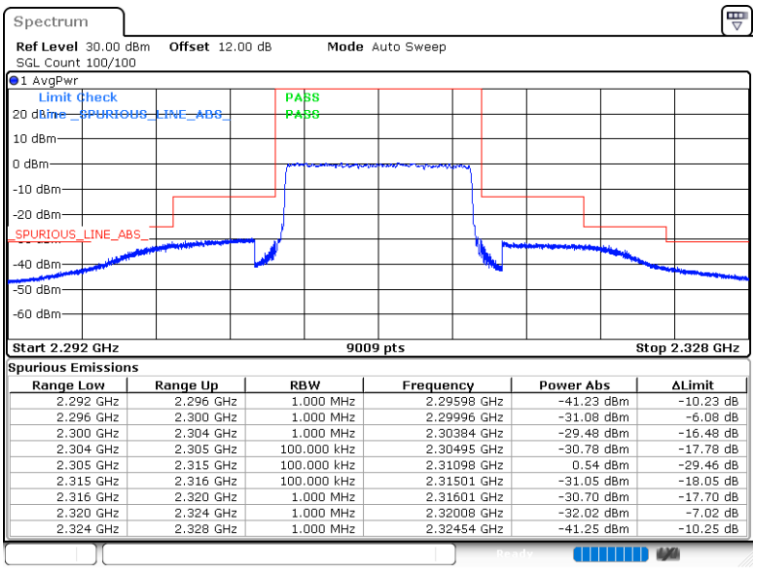


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29592 GHz	-44.49 dBm	-13.49 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29924 GHz	-42.08 dBm	-17.08 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30252 GHz	-40.94 dBm	-27.94 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30480 GHz	-51.26 dBm	-38.26 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31441 GHz	16.25 dBm	-13.75 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-35.34 dBm	-22.34 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31861 GHz	-28.53 dBm	-15.53 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32001 GHz	-40.99 dBm	-15.99 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-44.70 dBm	-13.70 dB

Date: 21.JUN.2021 16:10:29

Band Edge / Full RB



Spurious Emissions

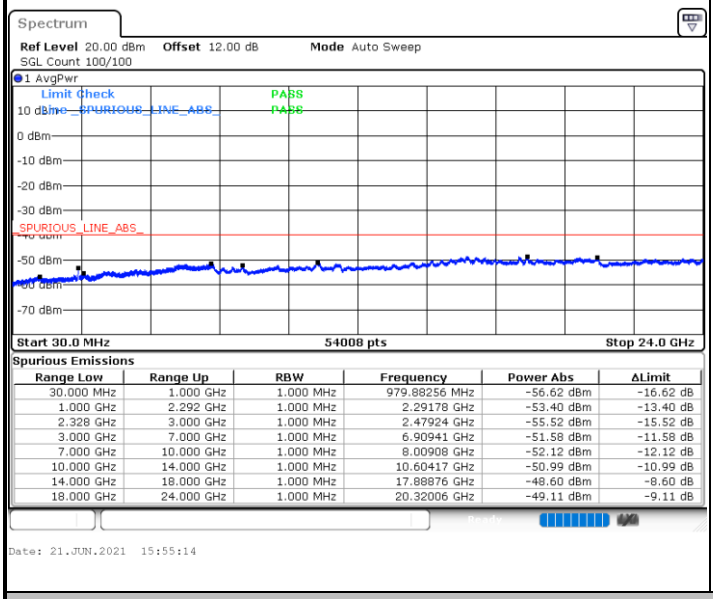
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-41.23 dBm	-10.23 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29996 GHz	-31.08 dBm	-6.08 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30384 GHz	-29.48 dBm	-16.48 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30495 GHz	-30.78 dBm	-17.78 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31098 GHz	0.54 dBm	-29.46 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-31.05 dBm	-18.05 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31601 GHz	-30.70 dBm	-17.70 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32008 GHz	-32.02 dBm	-7.02 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32454 GHz	-41.25 dBm	-10.25 dB

Date: 21.JUN.2021 16:10:54

Conducted Spurious Emission

LTE Band 30 / 5MHz

Lowest Channel / QPSK

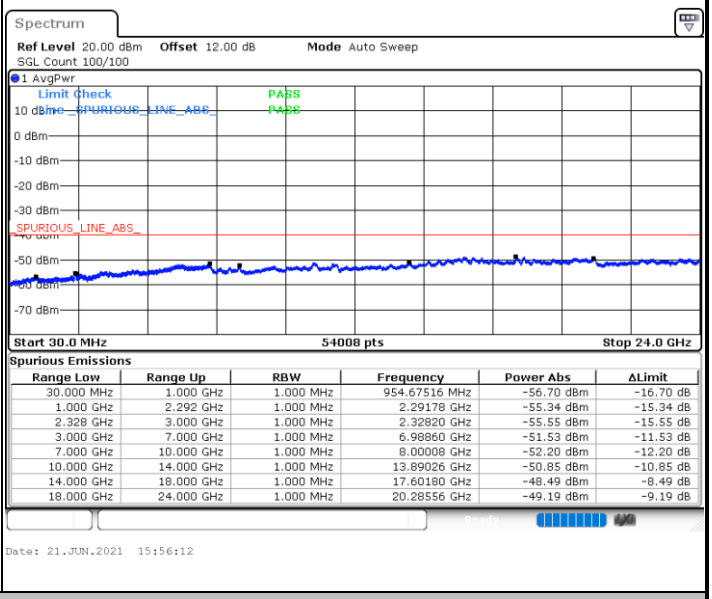


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.88256 MHz	-56.62 dBm	-16.62 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-53.40 dBm	-13.40 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.47924 GHz	-55.52 dBm	-15.52 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90941 GHz	-51.58 dBm	-11.58 dB
7.000 GHz	10.000 GHz	1.000 MHz	8.00908 GHz	-52.12 dBm	-12.12 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.60417 GHz	-50.99 dBm	-10.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.88876 GHz	-48.60 dBm	-8.60 dB
18.000 GHz	24.000 GHz	1.000 MHz	20.32006 GHz	-49.11 dBm	-9.11 dB

Date: 21.JUN.2021 15:55:14

Middle Channel / QPSK

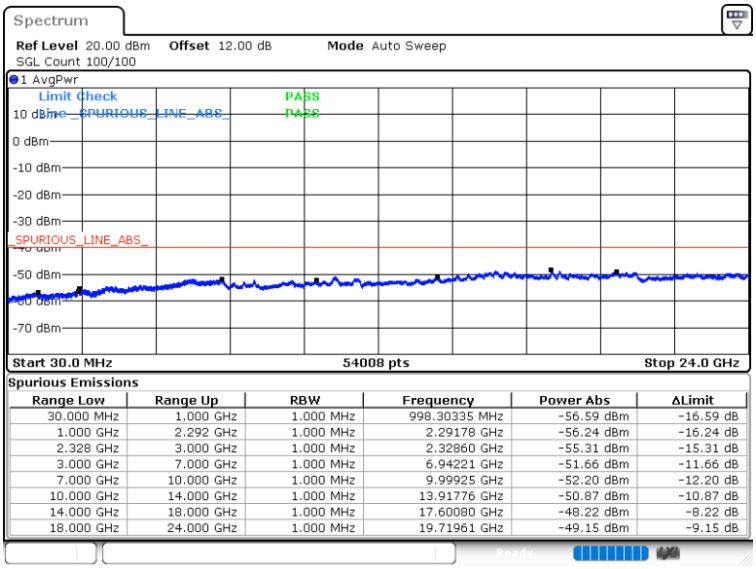


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.67516 MHz	-56.70 dBm	-16.70 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-55.34 dBm	-15.34 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.32820 GHz	-55.55 dBm	-15.55 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98860 GHz	-51.53 dBm	-11.53 dB
7.000 GHz	10.000 GHz	1.000 MHz	8.00008 GHz	-52.20 dBm	-12.20 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.89026 GHz	-50.85 dBm	-10.85 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60180 GHz	-48.49 dBm	-8.49 dB
18.000 GHz	24.000 GHz	1.000 MHz	20.28556 GHz	-49.19 dBm	-9.19 dB

Date: 21.JUN.2021 15:56:12

Highest Channel / QPSK

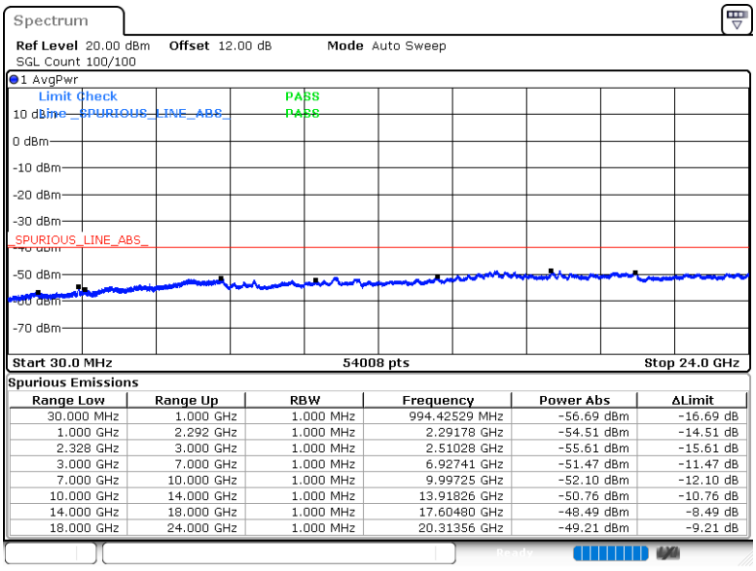


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-56.59 dBm	-16.59 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-56.24 dBm	-16.24 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.32860 GHz	-55.31 dBm	-15.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94221 GHz	-51.66 dBm	-11.66 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99925 GHz	-52.20 dBm	-12.20 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.91776 GHz	-50.87 dBm	-10.87 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60080 GHz	-48.22 dBm	-8.22 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.71961 GHz	-49.15 dBm	-9.15 dB

Date: 21.JUN.2021 15:57:09

LTE Band 30 / 10MHz
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-56.69 dBm	-16.69 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-54.51 dBm	-14.51 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.51028 GHz	-55.61 dBm	-15.61 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92741 GHz	-51.47 dBm	-11.47 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.99725 GHz	-52.10 dBm	-12.10 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.91826 GHz	-50.76 dBm	-10.76 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60480 GHz	-48.49 dBm	-8.49 dB
18.000 GHz	24.000 GHz	1.000 MHz	20.31356 GHz	-49.21 dBm	-9.21 dB

Date: 21.JUN.2021 15:58:21

Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0044	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0055	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0058	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0063	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

<Primary Antenna>

<Ant. 2>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4608	-59.26	-40	-19.26	-20.26	-70.49	1.45	12.68	H
	6918	-57.08	-40	-17.08	-18.08	-67.36	1.73	12.01	H
	9225	-59.58	-40	-19.58	-54.67	-69.20	2.16	11.78	H
									H
									H
	4608	-57.59	-40	-17.59	-43.8	-68.82	1.45	12.68	V
	6918	-56.53	-40	-16.53	-50.7	-66.81	1.73	12.01	V
	9225	-58.56	-40	-18.56	-54.65	-68.18	2.16	11.78	V
									V
									V
Middle	4614	-60.06	-40	-20.06	-47.07	-71.28	1.46	12.68	H
	6924	-53.43	-40	-13.43	-48.08	-63.71	1.73	12.01	H
	9234	-59.34	-40	-19.34	-54.43	-68.95	2.16	11.77	H
									H
									H
	4614	-57.85	-40	-17.85	-44.09	-69.07	1.46	12.68	V
	6924	-51.51	-40	-11.51	-45.71	-61.79	1.73	12.01	V
	9234	-58.17	-40	-18.17	-54.27	-67.78	2.16	11.77	V
									V
									V

Highest	4620	-60.21	-40	-20.21	-47.25	-71.43	1.46	12.68	H
	6930	-56.84	-40	-16.84	-51.52	-67.11	1.73	12.00	H
	9243	-59.43	-40	-19.43	-54.51	-69.03	2.16	11.76	H
									H
									H
	4620	-59.05	-40	-19.05	-45.32	-70.27	1.46	12.68	V
	6931	-57.77	-40	-17.77	-52	-68.04	1.73	12.00	V
	9243	-58.63	-40	-18.63	-54.74	-68.22	2.16	11.76	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4614	-51.78	-40	-11.78	-38.79	-63.00	1.46	12.68	H
	6918	-43.07	-40	-3.07	-37.68	-53.35	1.73	12.01	H
	9225	-58.93	-40	-18.93	-54.02	-68.55	2.16	11.78	H
									H
									H
	4614	-49.50	-40	-9.50	-35.74	-60.72	1.46	12.68	V
	6918	-43.88	-40	-3.88	-38.05	-54.16	1.73	12.01	V
	9225	-58.56	-40	-18.56	-54.65	-68.18	2.16	11.78	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

<ASDIV Antenna>

<Ant. 0>

LTE Band 30

LTE Band 30 / 5MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4608	-51.74	-40	-11.74	-38.74	-62.97	1.45	12.68	H
	6918	-43.71	-40	-3.71	-38.32	-53.99	1.73	12.01	H
	9225	-58.84	-40	-18.84	-53.93	-68.46	2.16	11.78	H
									H
									H
	4608	-58.39	-40	-18.39	-44.6	-69.62	1.45	12.68	V
	6918	-50.89	-40	-10.89	-45.06	-61.17	1.73	12.01	V
	9225	-57.81	-40	-17.81	-53.9	-67.43	2.16	11.78	V
									V
									V
Middle	4614	-52.18	-40	-12.18	-39.19	-63.40	1.46	12.68	H
	6924	-46.10	-40	-6.10	-40.75	-56.38	1.73	12.01	H
	9234	-59.16	-40	-19.16	-54.25	-68.77	2.16	11.77	H
									H
									H
	4614	-60.21	-40	-20.21	-46.45	-71.43	1.46	12.68	V
	6923	-50.79	-40	-10.79	-44.99	-61.07	1.73	12.01	V
	9234	-58.05	-40	-18.05	-54.15	-67.66	2.16	11.77	V
									V
									V

Highest	4620	-56.23	-40	-16.23	-43.27	-67.45	1.46	12.68	H
	6930	-53.81	-40	-13.81	-48.49	-64.08	1.73	12.00	H
	9243	-58.74	-40	-18.74	-53.82	-68.33	2.16	11.76	H
									H
									H
	4620	-59.46	-40	-19.46	-45.73	-70.68	1.46	12.68	V
	6930	-56.67	-40	-16.67	-50.9	-66.94	1.73	12.00	V
	9243	-58.02	-40	-18.02	-54.13	-67.61	2.16	11.76	V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4614	-55.49	-40	-15.49	-42.5	-66.71	1.46	12.68	H
	6918	-54.34	-40	-14.34	-48.95	-64.62	1.73	12.01	H
	9225	-58.71	-40	-18.71	-53.8	-68.33	2.16	11.78	H
									H
									H
	4614	-58.62	-40	-18.62	-44.86	-69.84	1.46	12.68	V
	6918	-55.03	-40	-15.03	-49.2	-65.31	1.73	12.01	V
	9225	-58.17	-40	-18.17	-54.26	-67.79	2.16	11.78	V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

———THE END———