FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	POCO
MODEL NAME	:	24069PC21G
FCC ID	:	2AFZZPC21G
STANDARD	:	47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Feb. 25, 2024 ~ Mar. 14, 2024

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG420425E	Rev. 01	Initial issue of report	Mar. 27, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 40.82 dB at 10476.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	24069PC21G
FCC ID	2AFZZPC21G
IMEI Code	Conducted: 861593070015260/861593070015278 Radiation: 861593070015641/861593070015658
HW Version	1351N16T
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	LTE Band 42: 3450 MHz ~ 3550 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant.1>: LTE Band 42 : 23.57 dBm <Ant.6>: LTE Band 42 : 25.23 dBm <Ant.7>: LTE Band 42 : 23.06 dBm <Ant.8>: LTE Band 42 : 20.77 dBm
Antenna Gain	<Ant.1>: LTE Band 42 : -3.10 dBi <Ant.6>: LTE Band 42 : -0.30 dBi <Ant.7>: LTE Band 42 : -0.70 dBi <Ant.8>: LTE Band 42 : -0.30 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Ant.6 is shown in the report.
2. The device supports B42(1T4R) SRS resources on ant.1/6/7/8, only the test data of worst ant.6 is showed in the report according to the maximum power.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3452.5 ~ 3547.5	0.3083	4M48G7D	0.2393	4M48W7D
10	3455 ~ 3545	0.3069	9M05G7D	0.2355	9M01W7D
15	3457.5 ~ 3542.5	0.3041	13M5G7D	0.2371	13M4W7D
20	3460 ~ 3540	0.3112	17M9G7D	0.2438	17M9W7D

1.7 Testing Site

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

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

- 47 CFR Part 2, Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
-

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

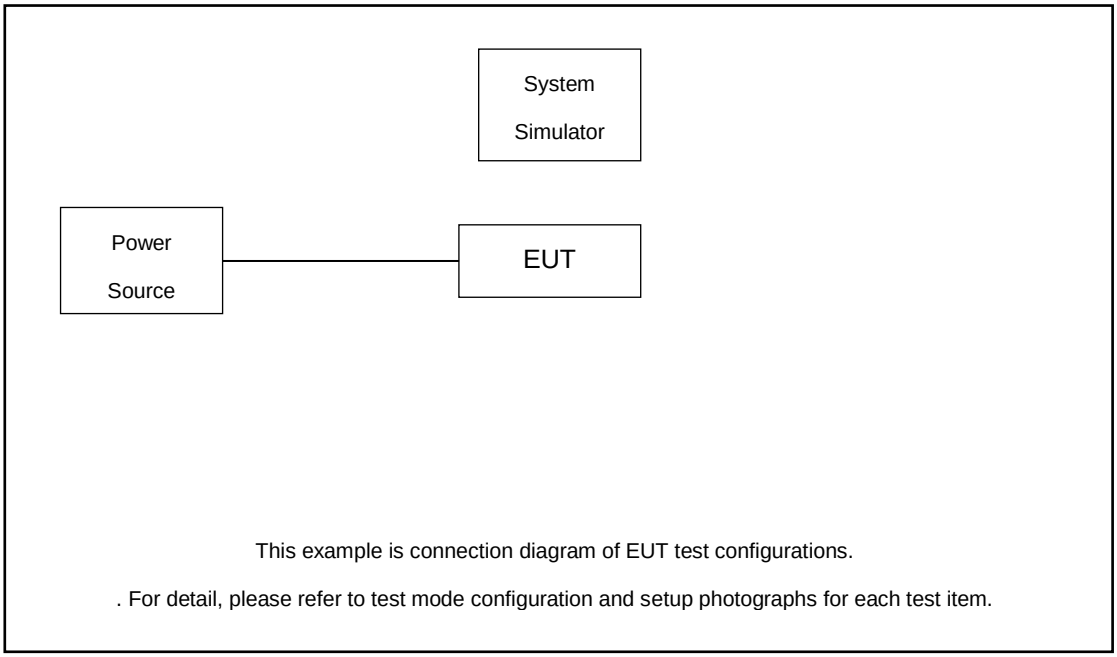
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (X Plane)

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM,256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB , Full RB	L, M, H
Peak-to-Average Ratio	LTE Band 42	20M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
E.I.R.P	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB , Full RB	L, M, H
26dB and 99% Bandwidth	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM	Full RB	M
Conducted Band Edge	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, H
Conducted Spurious Emission	LTE Band 42	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H
Frequency Stability	LTE Band 42	5M	QPSK	1RB	L, H
Radiated Spurious Emission	LTE Band 42	Worst case from maximum power			M

Note:

1. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
2. All test items are based on engineering evaluation.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Fixture	INTEL	NGFF Card Carrier	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 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

Offset = RF cable loss

Following shows an offset computation example with cable loss 6.70 dB

Example :

Offset(dB) = RF cable loss(dB)

= 6.70 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 42 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	42190	42590	42990
	Frequency	3460	3500	3540
15	Channel	42165	42590	43015
	Frequency	3457.5	3500	3542.5
10	Channel	42140	42590	43040
	Frequency	3455	3500	3545
5	Channel	42115	42590	43065
	Frequency	3452.5	3500	3547.5

3 Conducted Test Items

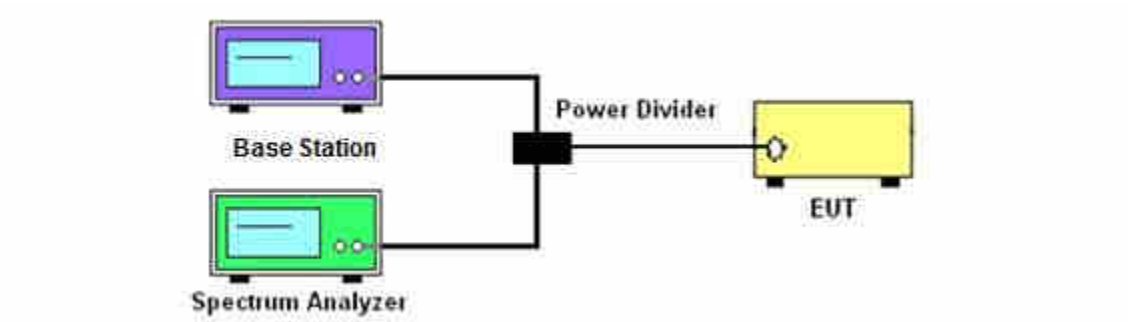
3.1 Measuring Instruments

See list of measuring instruments of this test report.

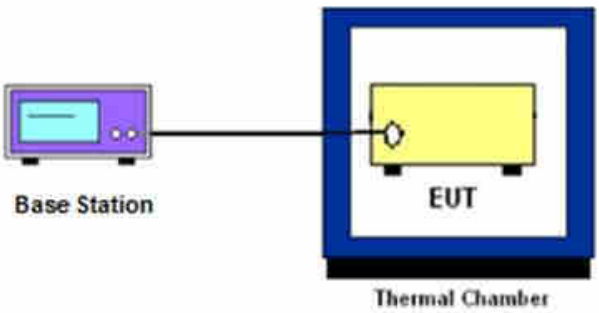
3.2 Test Setup

3.2.1 Conducted Output Power

3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 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.

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
   (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

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

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

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

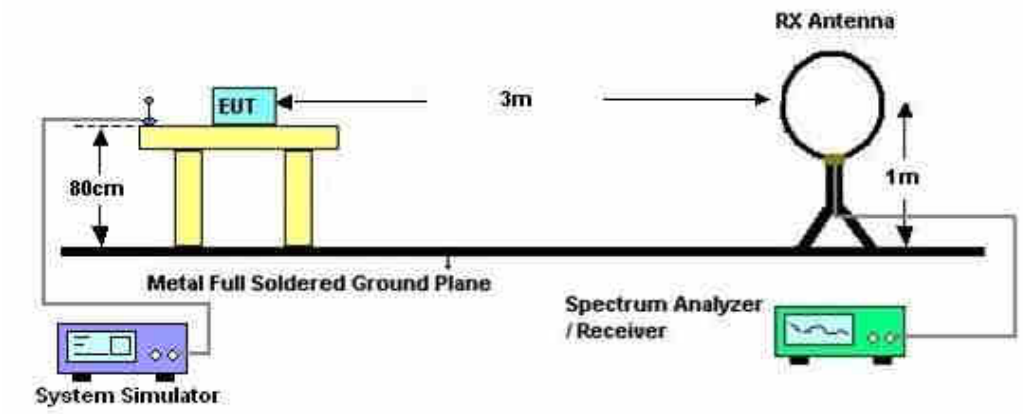
4 Radiated Test Items

4.1 Measuring Instruments

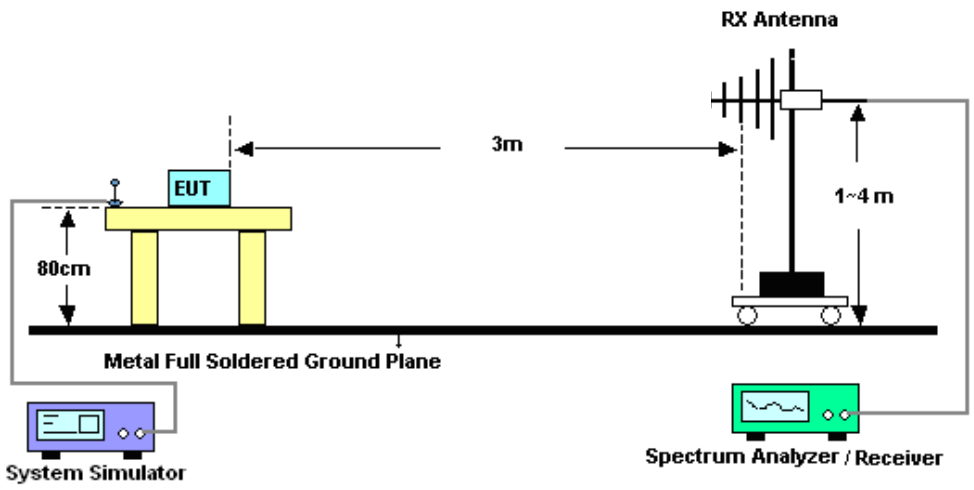
See list of measuring instruments of this test report.

4.2 Test Setup

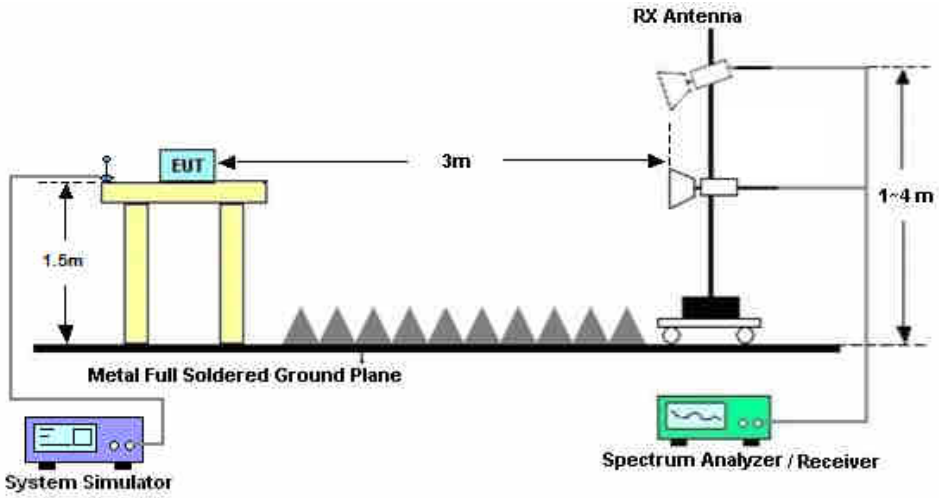
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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 shall not exceed −13 dBm/MHz.

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

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Mar. 07, 2024 ~Mar. 14, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Mar. 07, 2024 ~Mar. 14, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Mar. 07, 2024 ~Mar. 14, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Feb. 25, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11, 2023	Feb. 25, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Feb. 25, 2024	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 10, 2023	Feb. 25, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Feb. 25, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Feb. 25, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Feb. 25, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Feb. 25, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Feb. 25, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 25, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 25, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 25, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	**±2.26 dB**
Occupied Channel Bandwidth	**±0.1%**
Conducted Power	**±0.46 dB**
Peak to Average Ratio	**±0.46 dB**
Frequency Stability	**±0.4 ppm**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.82dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.56dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.54dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and EIRP

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540	L	M	H
20	QPSK	1	0	25.12	25.23	25.06	0.3034	0.3112	0.2992
20	QPSK	1	99	25.01	25.06	25.00	0.2958	0.2992	0.2951
20	QPSK	100	0	24.10	24.12	24.07	0.2399	0.2410	0.2382
20	16QAM	1	0	24.17	24.14	24.09	0.2438	0.2421	0.2393
20	64QAM	1	0	23.15	23.15	23.09	0.1928	0.1928	0.1901
20	256QAM	1	0	20.03	20.14	20.12	0.0940	0.0964	0.0959
Channel				42165	42590	43015	EIRP(W)		
Frequency (MHz)				3457.5	3500	3542.5	L	M	H
15	QPSK	1	0	25.06	25.13	24.99	0.2992	0.3041	0.2944
15	16QAM	1	0	24.05	24.00	23.97	0.2371	0.2344	0.2328
Channel				42140	42590	43040	EIRP(W)		
Frequency (MHz)				3455	3500	3545	L	M	H
10	QPSK	1	0	25.04	25.17	24.96	0.2979	0.3069	0.2924
10	16QAM	1	0	24.02	24.00	24.02	0.2355	0.2344	0.2355
Channel				42115	42590	43065	EIRP(W)		
Frequency (MHz)				3452.5	3500	3547.5	L	M	H
5	QPSK	1	0	24.97	25.19	24.92	0.2931	0.3083	0.2897
5	16QAM	1	0	24.08	24.09	24.00	0.2388	0.2393	0.2344

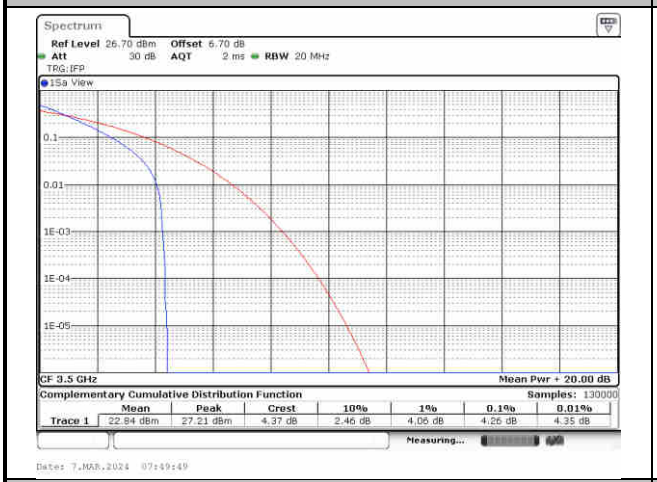
LTE Band 42

Peak-to-Average Ratio

Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	4.26	5.48	6.23	6.43	PASS

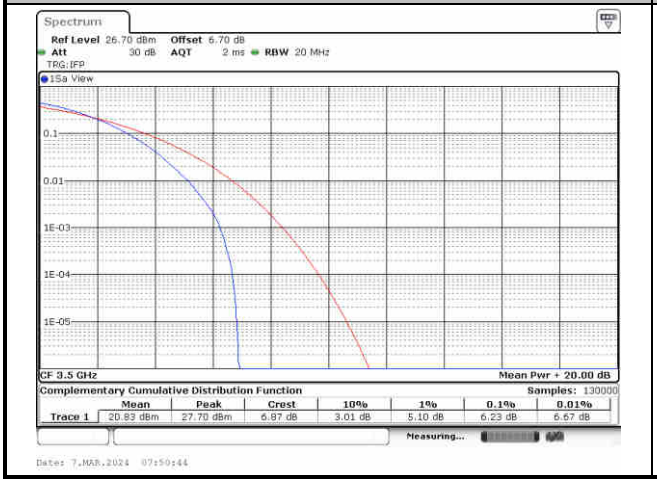
LTE Band 42 / 20MHz / Full RB / Middle Channel

QPSK

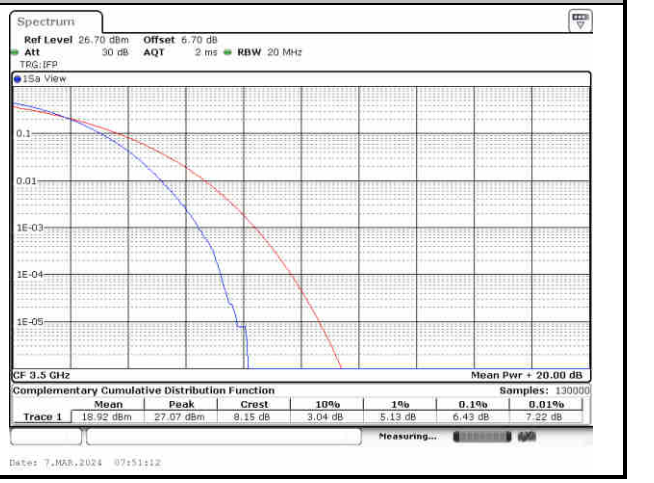


16QAM

64QAM



256QAM

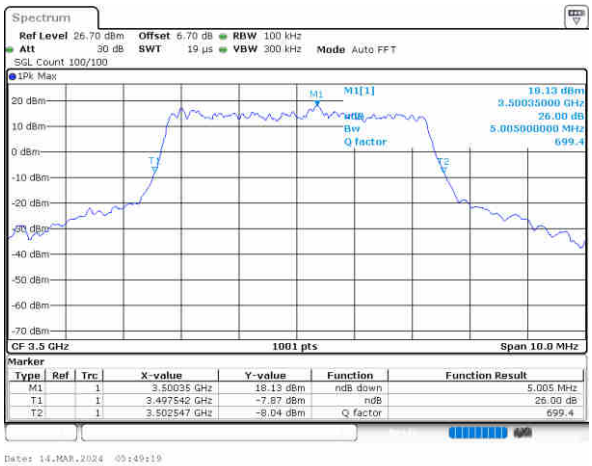


26dB Bandwidth

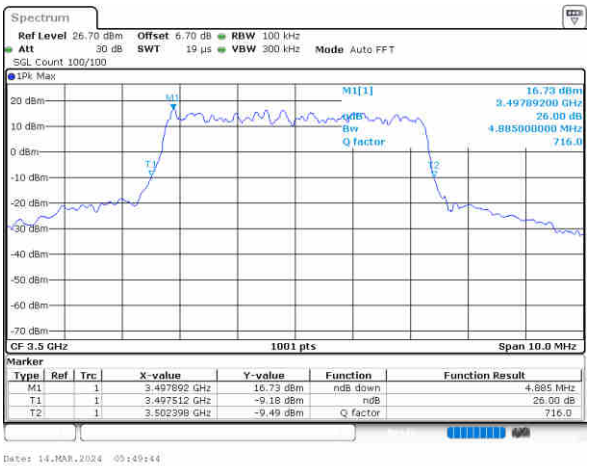
Mode	LTE Band 42 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.01	4.89	9.85	10.07	14.36	14.27	18.98	19.22

LTE Band 42 / Middle channel / Full RB/5M

QPSK

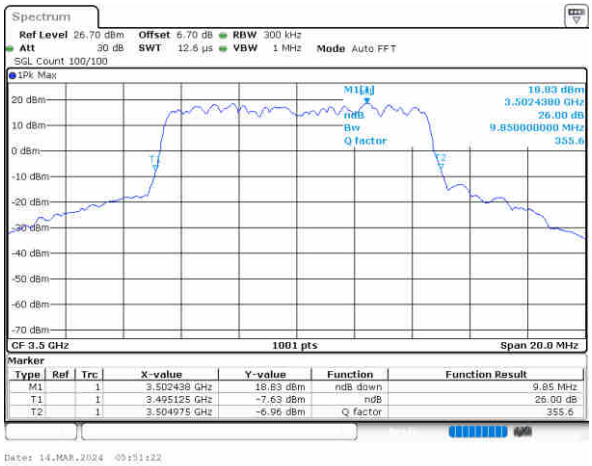


16QAM

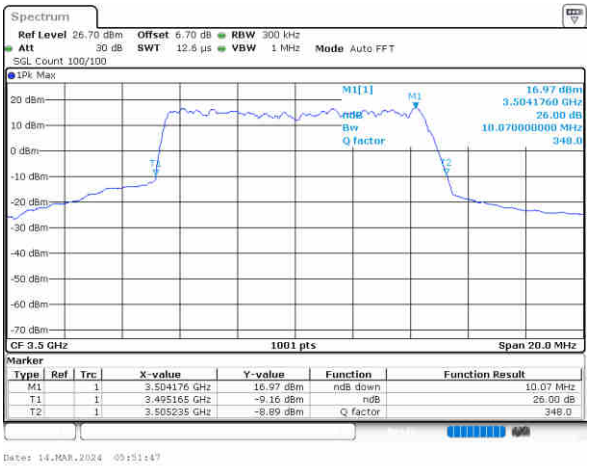


LTE Band 42 / Middle channel / Full RB/10M

QPSK

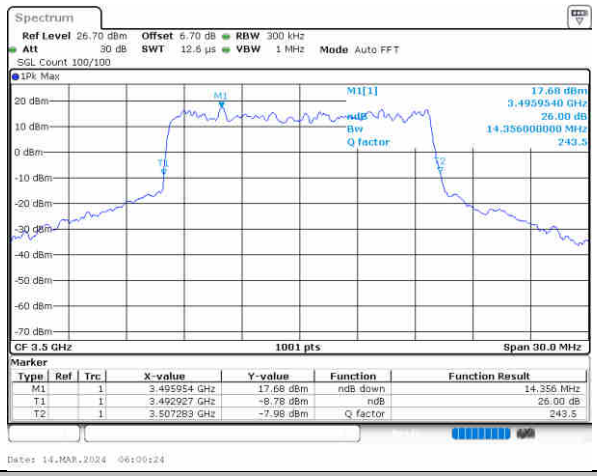


16QAM

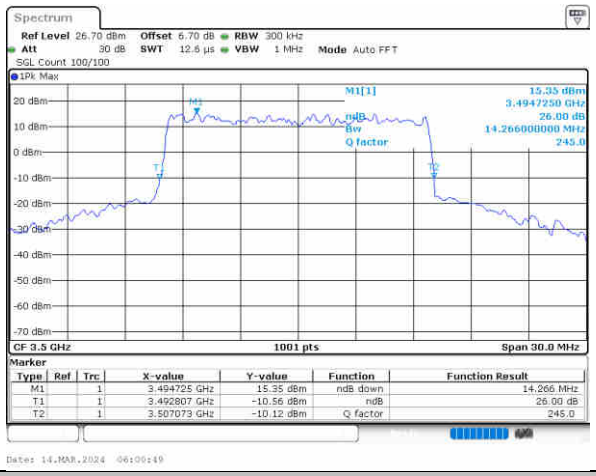


LTE Band 42 / Middle channel / Full RB/15M

QPSK

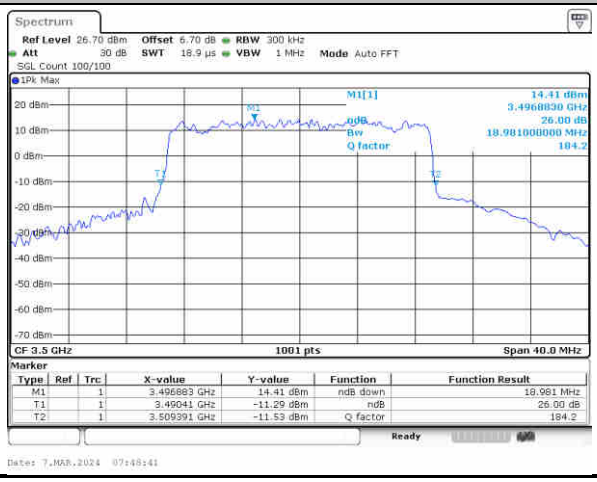


16QAM

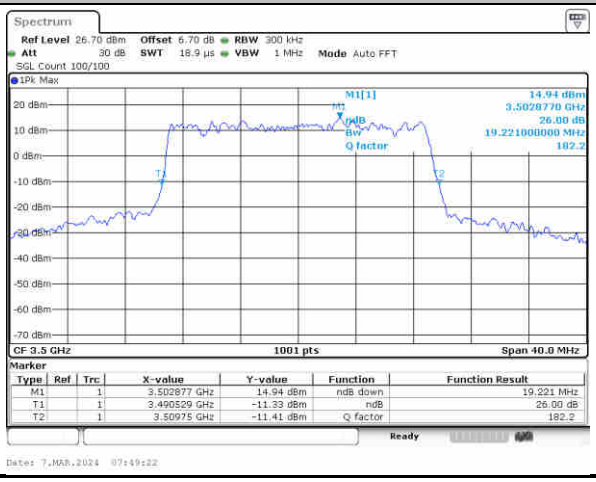


LTE Band 42 / Middle channel / Full RB/20M

QPSK



16QAM

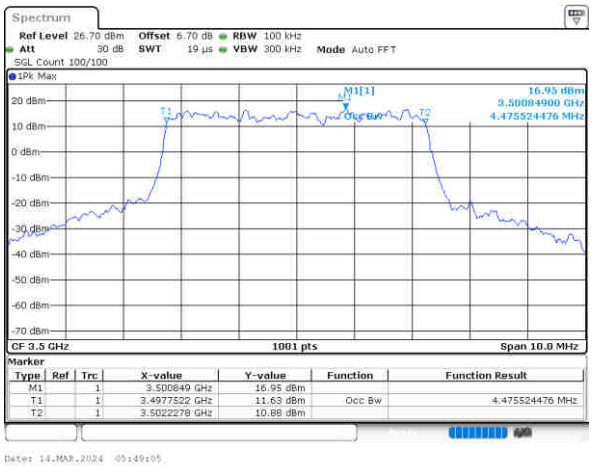


Occupied Bandwidth

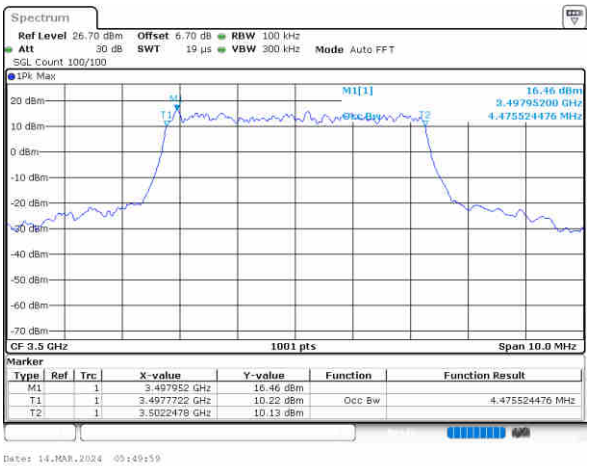
Mode	LTE Band 42 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.48	4.48	9.05	9.01	13.46	13.43	17.90	17.94

LTE Band 42 / Middle channel / Full RB/5M

QPSK

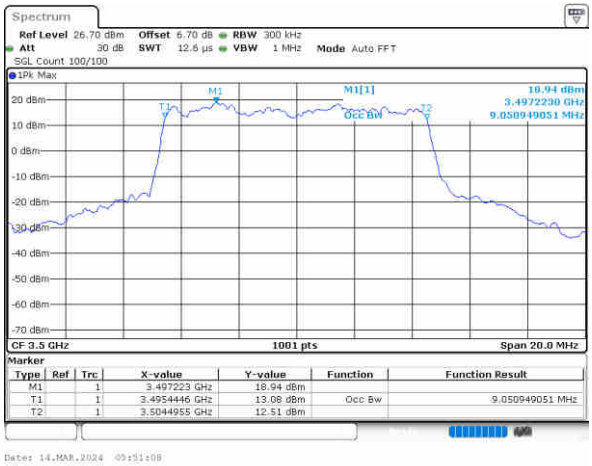


16QAM

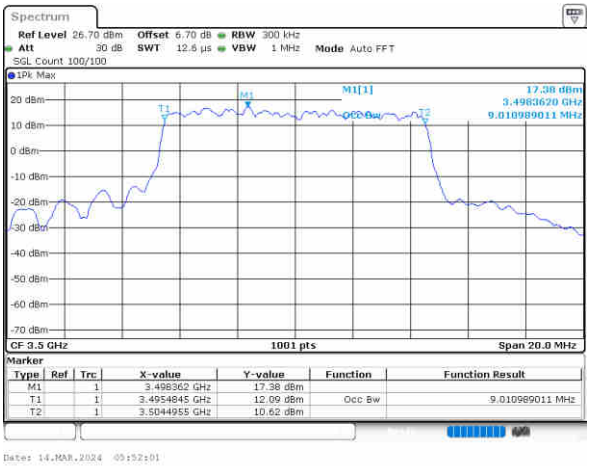


LTE Band 42 / Middle channel / Full RB/10M

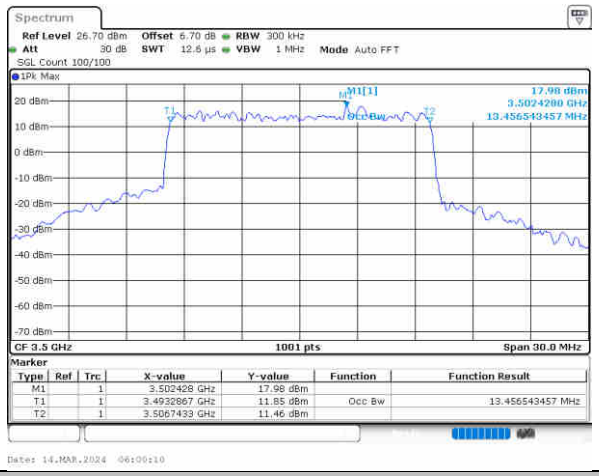
QPSK

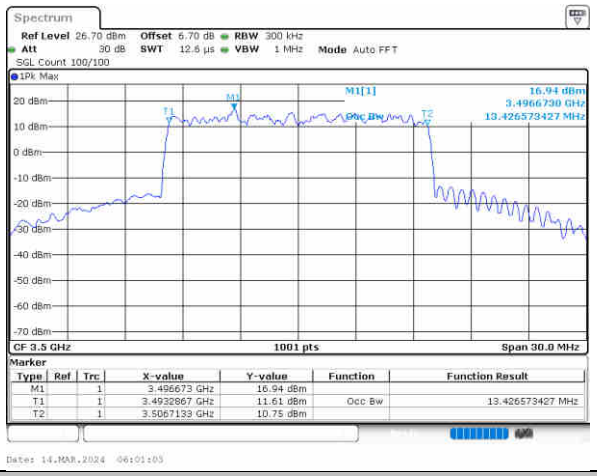


16QAM

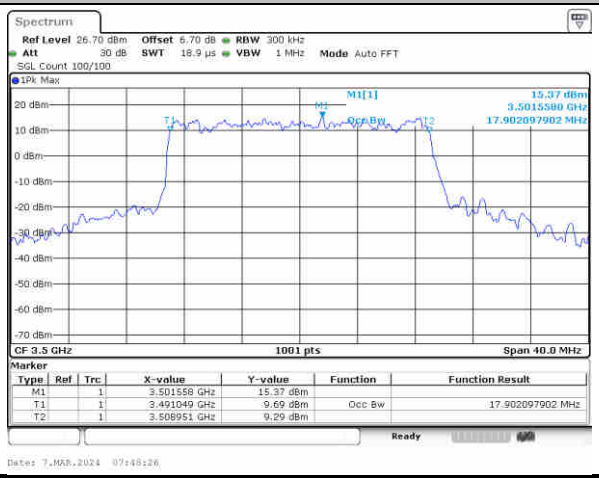


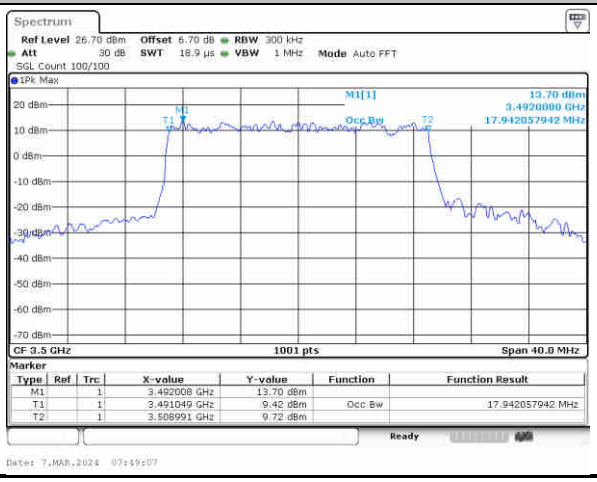
LTE Band 42 / Middle channel / Full RB/15M	
QPSK	16QAM





LTE Band 42 / Middle channel / Full RB/20M	
QPSK	16QAM



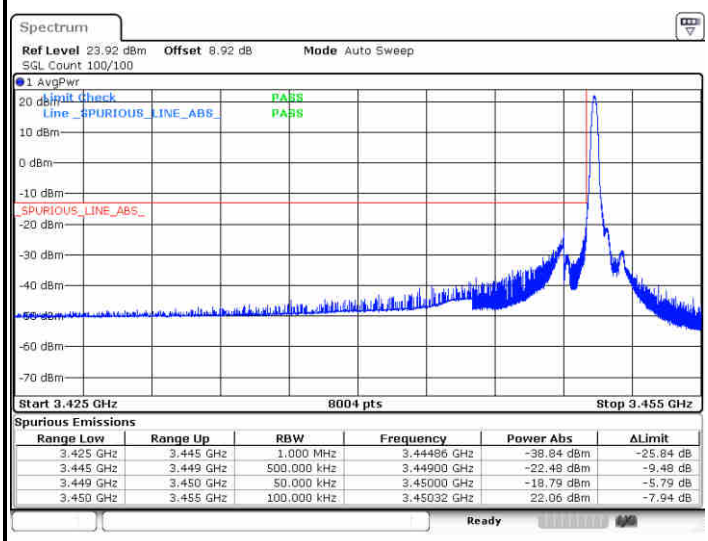


Conducted Band Edge

LTE Band 42 / 5MHz

QPSK

Lowest Channel / 1RB0

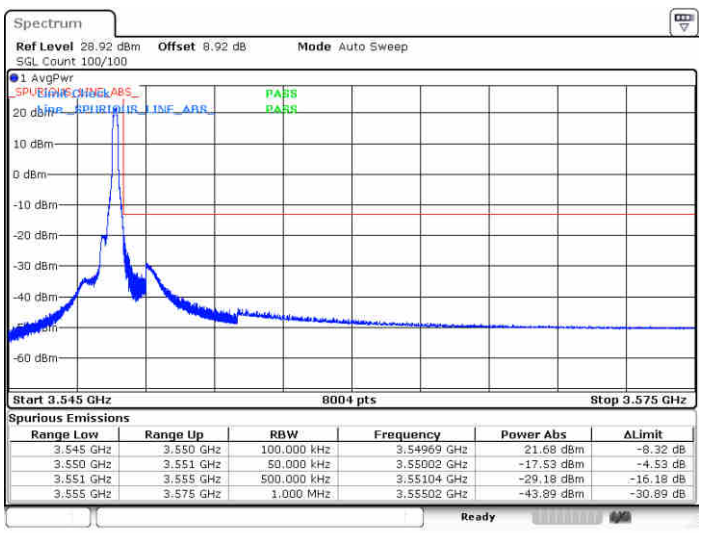


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44486 GHz	-38.84 dBm	-25.84 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-22.48 dBm	-9.48 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-18.79 dBm	-5.79 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45032 GHz	22.06 dBm	-7.94 dB

Date: 7.MAR.2024 06:36:00

Highest Channel / 1RBmax

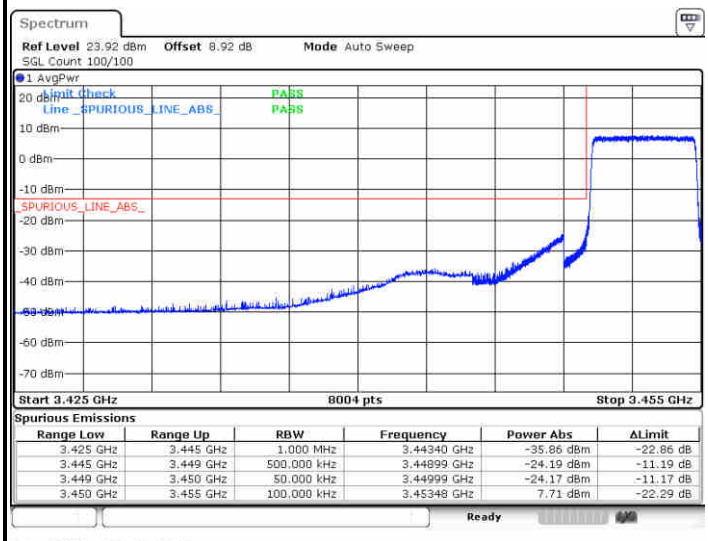


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54969 GHz	21.68 dBm	-8.32 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55002 GHz	-17.53 dBm	-4.53 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-29.18 dBm	-16.18 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55502 GHz	-43.89 dBm	-30.89 dB

Date: 7.MAR.2024 06:46:30

Lowest Channel / FullRB

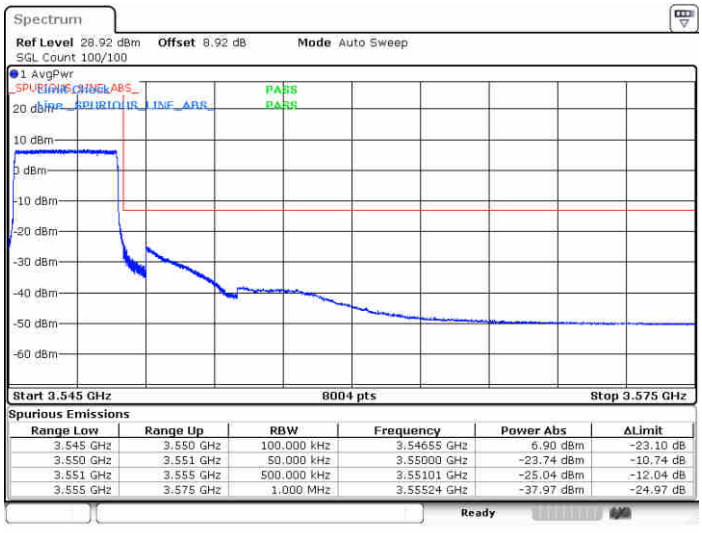


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44340 GHz	-35.86 dBm	-22.86 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-24.19 dBm	-11.19 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-24.17 dBm	-11.17 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45348 GHz	7.71 dBm	-22.29 dB

Date: 7.MAR.2024 06:39:48

Highest Channel / FullRB



Spurious Emissions

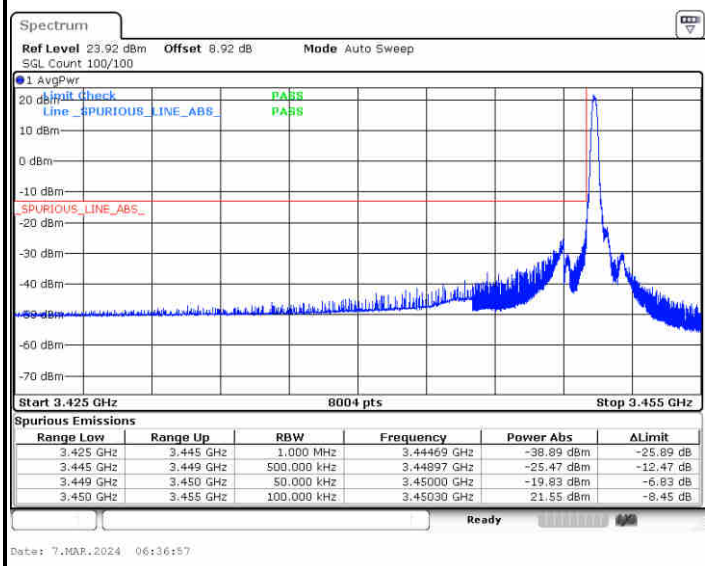
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54655 GHz	6.90 dBm	-23.10 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-23.74 dBm	-10.74 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-25.04 dBm	-12.04 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55524 GHz	-37.97 dBm	-24.97 dB

Date: 7.MAR.2024 06:50:26

LTE Band 42 / 5MHz

16QAM

Lowest Channel / 1RB0

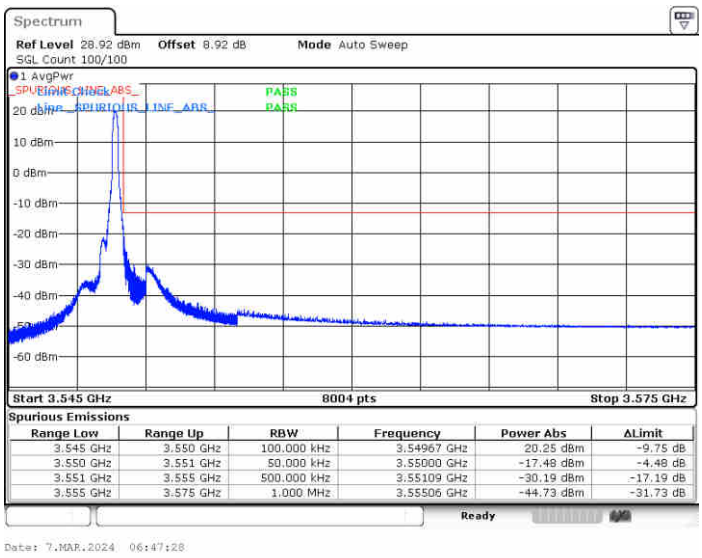


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44469 GHz	-38.89 dBm	-25.89 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-25.47 dBm	-12.47 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-19.83 dBm	-6.83 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45030 GHz	21.55 dBm	-8.45 dB

Date: 7.MAR.2024 06:36:57

Highest Channel / 1RBmax

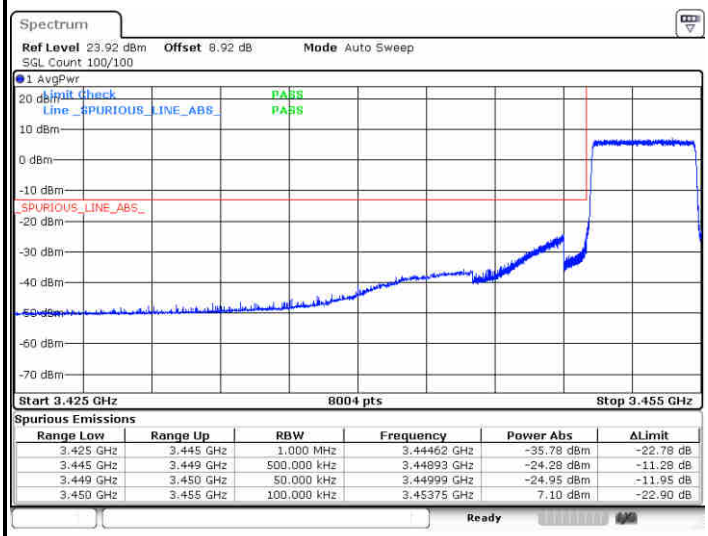


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54967 GHz	20.25 dBm	-9.75 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-17.48 dBm	-4.48 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55109 GHz	-30.19 dBm	-17.19 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-44.73 dBm	-31.73 dB

Date: 7.MAR.2024 06:47:28

Lowest Channel / FullRB

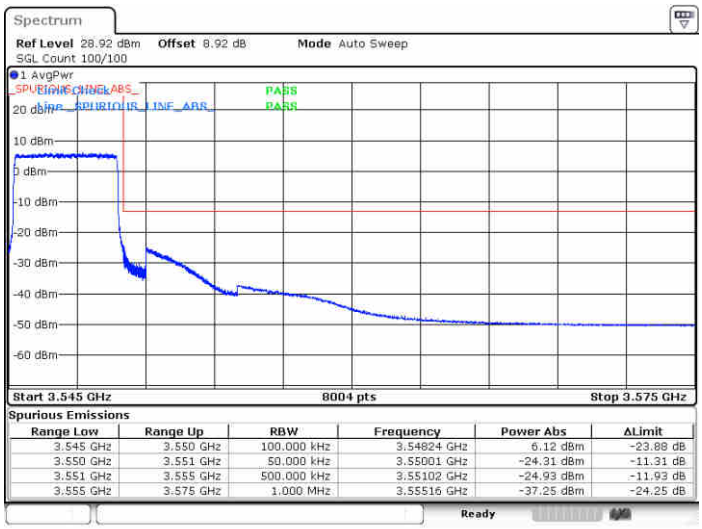


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44462 GHz	-35.78 dBm	-22.78 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-24.28 dBm	-11.28 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-24.95 dBm	-11.95 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45375 GHz	7.10 dBm	-22.90 dB

Date: 7.MAR.2024 06:40:44

Highest Channel / FullRB



Spurious Emissions

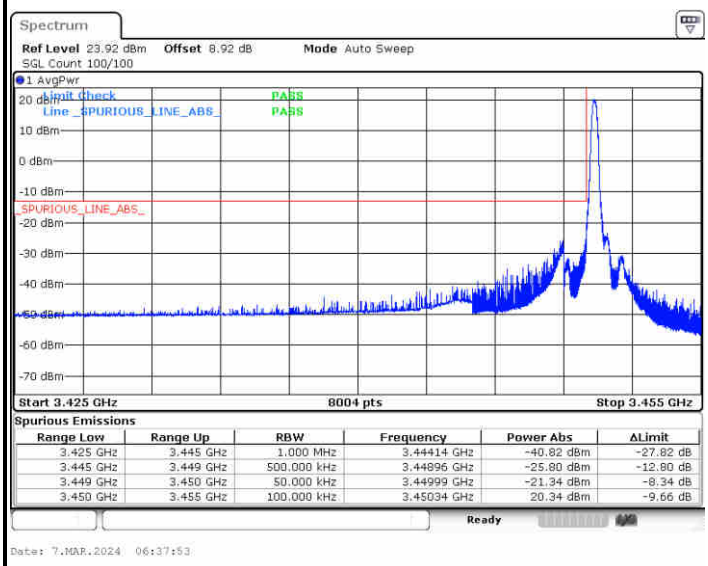
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54824 GHz	6.12 dBm	-23.88 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-24.31 dBm	-11.31 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-24.93 dBm	-11.93 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55516 GHz	-37.25 dBm	-24.25 dB

Date: 7.MAR.2024 06:51:24

LTE Band 42 / 5MHz

64QAM

Lowest Channel / 1RB0

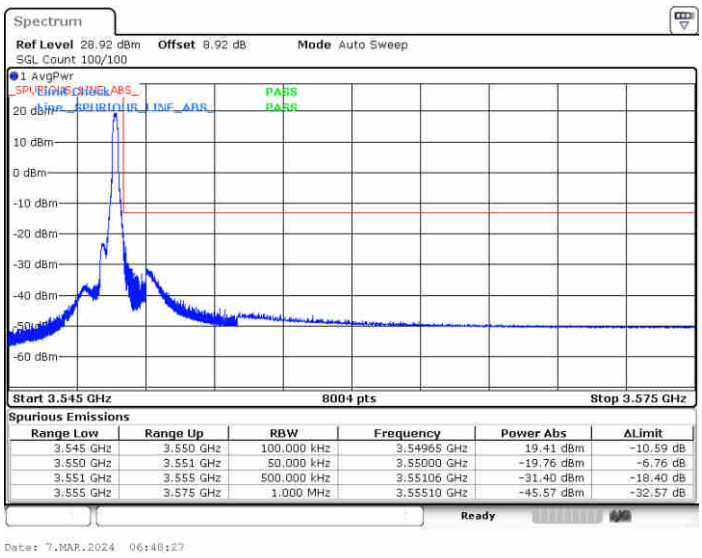


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44414 GHz	-40.82 dBm	-27.82 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-25.80 dBm	-12.80 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-21.34 dBm	-8.34 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45034 GHz	20.34 dBm	-9.66 dB

Date: 7.MAR.2024 06:37:53

Highest Channel / 1RBmax

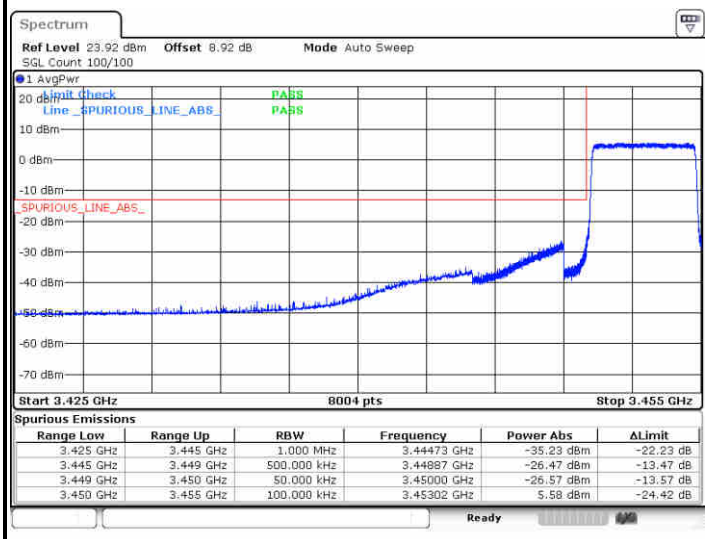


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54965 GHz	19.41 dBm	-10.59 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-19.76 dBm	-6.76 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-31.40 dBm	-18.40 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55510 GHz	-45.57 dBm	-32.57 dB

Date: 7.MAR.2024 06:48:27

Lowest Channel / FullRB

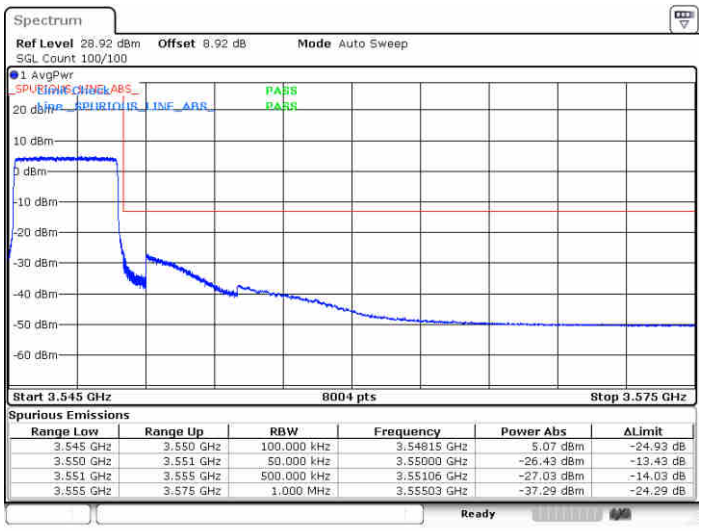


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44473 GHz	-35.23 dBm	-22.23 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-26.47 dBm	-13.47 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-26.57 dBm	-13.57 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45302 GHz	5.58 dBm	-24.42 dB

Date: 7.MAR.2024 06:41:40

Highest Channel / FullRB



Spurious Emissions

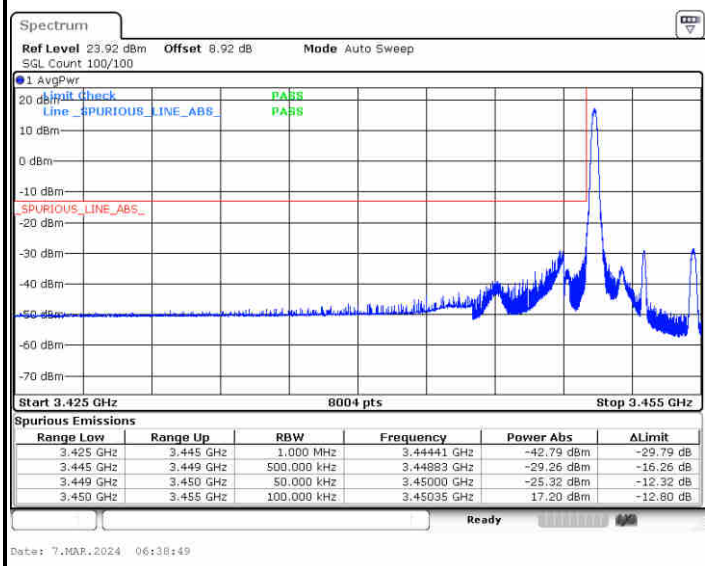
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54815 GHz	5.07 dBm	-24.93 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-26.43 dBm	-13.43 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-27.03 dBm	-14.03 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-37.29 dBm	-24.29 dB

Date: 7.MAR.2024 06:52:22

LTE Band 42 / 5MHz

256QAM

Lowest Channel / 1RB0

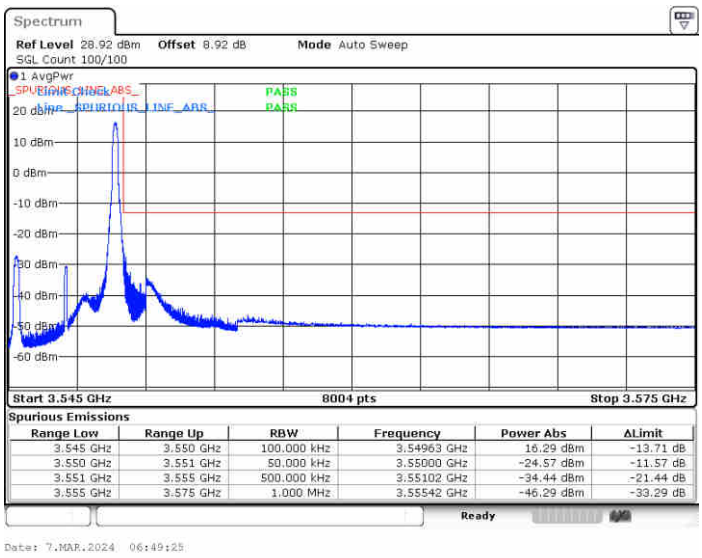


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44441 GHz	-42.79 dBm	-29.79 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44883 GHz	-29.26 dBm	-16.26 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-25.32 dBm	-12.32 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45035 GHz	17.20 dBm	-12.80 dB

Date: 7.MAR.2024 06:38:49

Highest Channel / 1RBmax

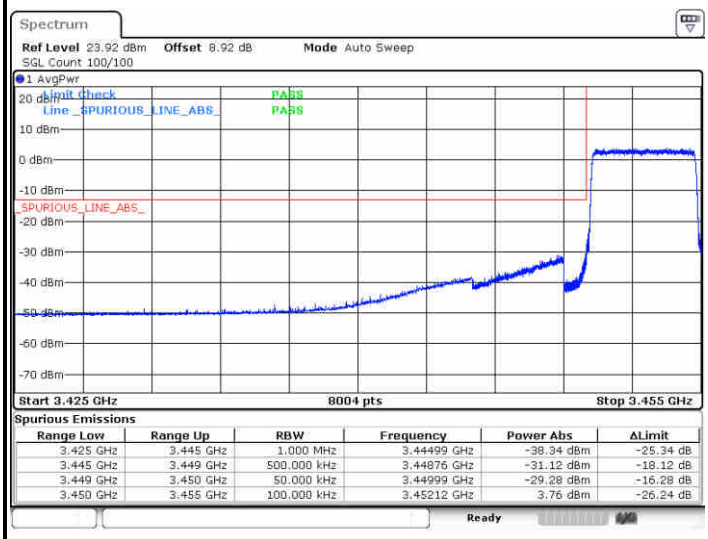


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54963 GHz	16.29 dBm	-13.71 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-24.57 dBm	-11.57 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-34.44 dBm	-21.44 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55542 GHz	-46.29 dBm	-33.29 dB

Date: 7.MAR.2024 06:49:25

Lowest Channel / FullRB

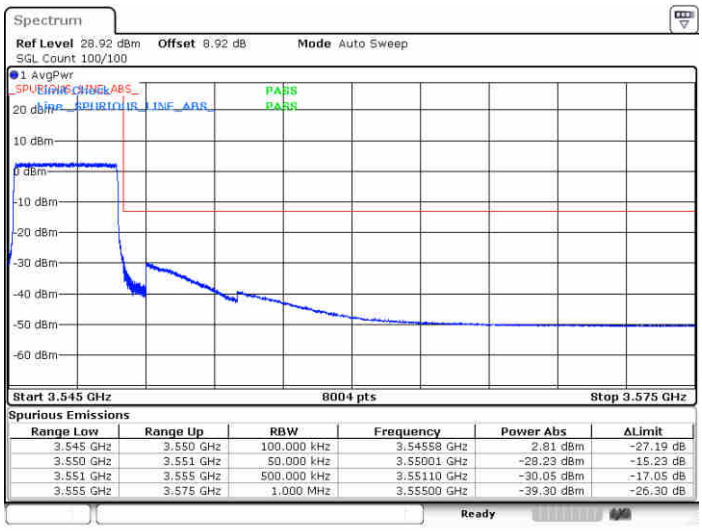


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-38.34 dBm	-25.34 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44876 GHz	-31.12 dBm	-18.12 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-29.28 dBm	-16.28 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45212 GHz	3.76 dBm	-26.24 dB

Date: 7.MAR.2024 06:42:37

Highest Channel / FullRB



Spurious Emissions

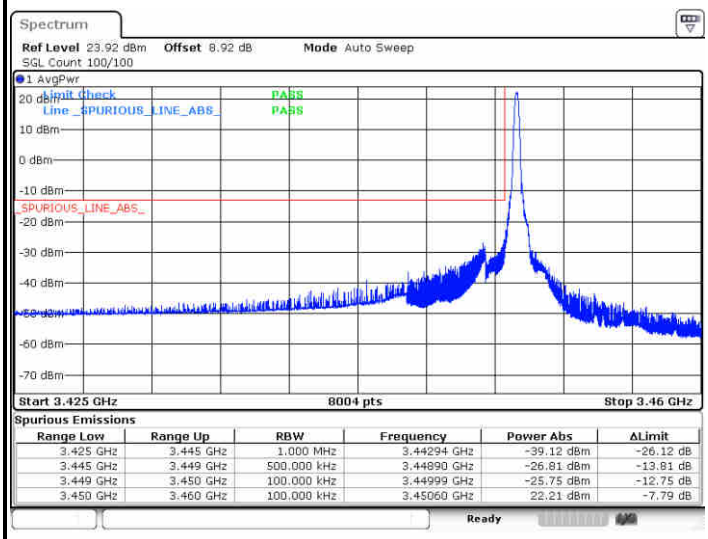
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54558 GHz	2.81 dBm	-27.19 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-28.23 dBm	-15.23 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55110 GHz	-30.05 dBm	-17.05 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-39.30 dBm	-26.30 dB

Date: 7.MAR.2024 06:53:20

LTE Band 42 / 10MHz

QPSK

Lowest Channel / 1RB0

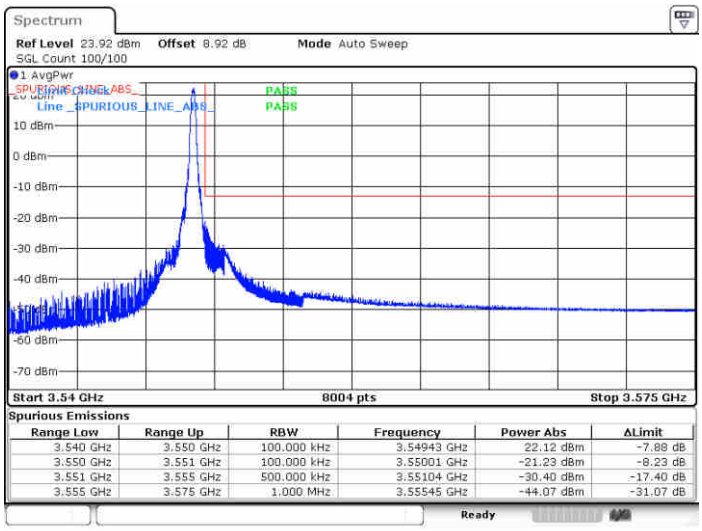


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44294 GHz	-39.12 dBm	-26.12 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44890 GHz	-26.81 dBm	-13.81 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-25.75 dBm	-12.75 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45060 GHz	22.21 dBm	-7.79 dB

Date: 7.MAR.2024 06:56:14

Highest Channel / 1RBmax

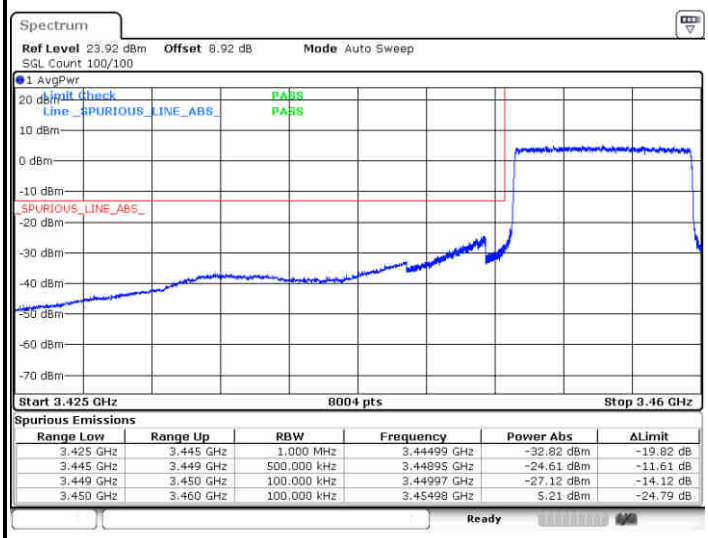


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54943 GHz	22.12 dBm	-7.88 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-21.23 dBm	-8.23 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-30.40 dBm	-17.40 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55545 GHz	-44.07 dBm	-31.07 dB

Date: 7.MAR.2024 07:05:31

Lowest Channel / FullRB

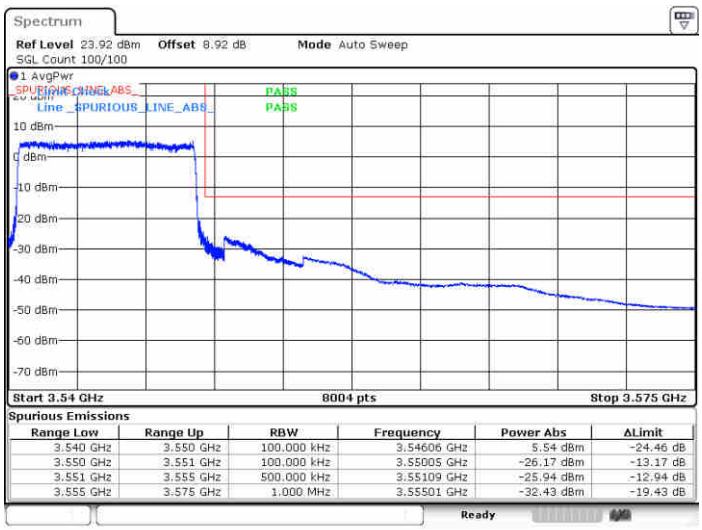


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-32.82 dBm	-19.82 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-24.61 dBm	-11.61 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-27.12 dBm	-14.12 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45498 GHz	5.21 dBm	-24.79 dB

Date: 7.MAR.2024 06:59:31

Highest Channel / FullRB



Spurious Emissions

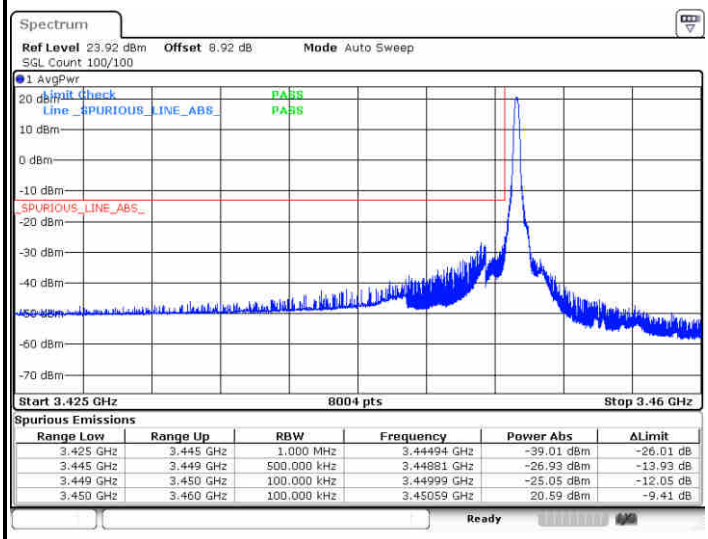
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54606 GHz	5.54 dBm	-24.46 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55005 GHz	-26.17 dBm	-13.17 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55109 GHz	-25.94 dBm	-12.94 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55501 GHz	-32.43 dBm	-19.43 dB

Date: 7.MAR.2024 07:10:24

LTE Band 42 / 10MHz

16QAM

Lowest Channel / 1RB0

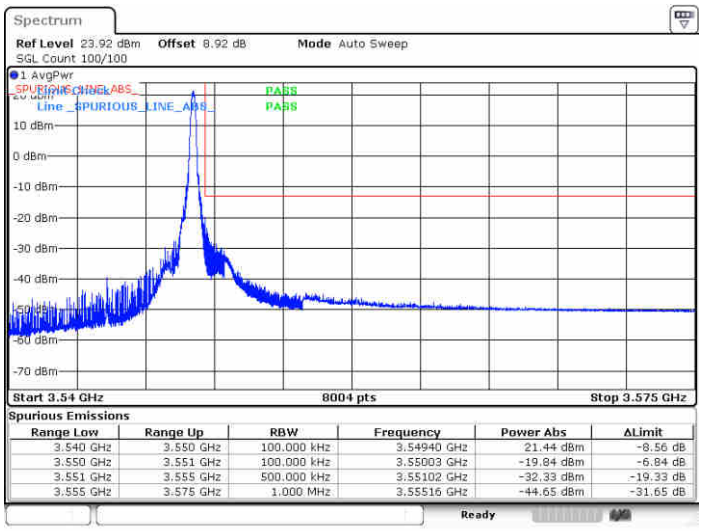


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44494 GHz	-39.01 dBm	-26.01 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44881 GHz	-26.93 dBm	-13.93 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-25.05 dBm	-12.05 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45059 GHz	20.59 dBm	-9.41 dB

Date: 7.MAR.2024 06:57:10

Highest Channel / 1RBmax

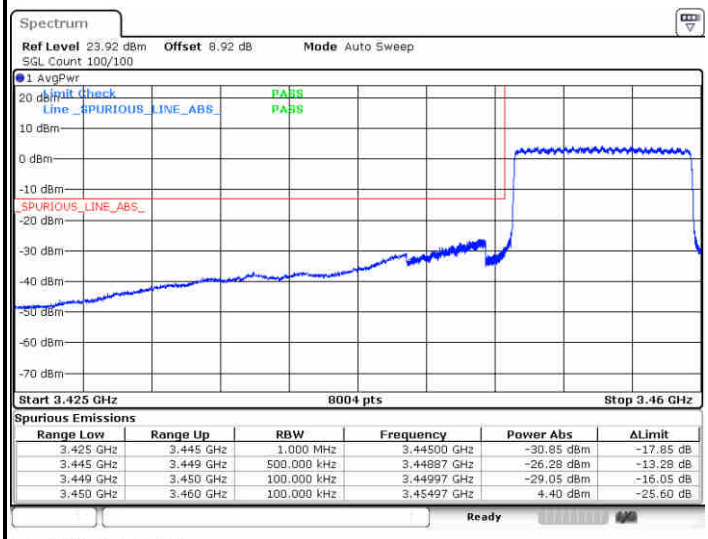


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54940 GHz	21.44 dBm	-8.56 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-19.84 dBm	-6.84 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-32.33 dBm	-19.33 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55516 GHz	-44.65 dBm	-31.65 dB

Date: 7.MAR.2024 07:06:17

Lowest Channel / FullRB

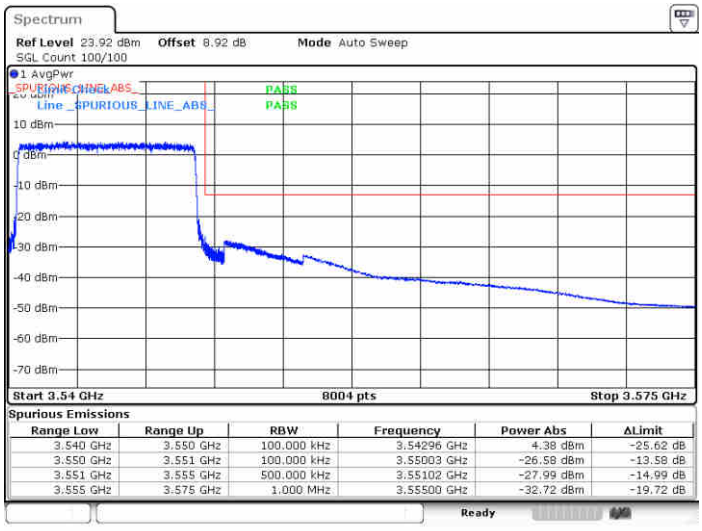


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44500 GHz	-30.85 dBm	-17.85 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-26.28 dBm	-13.28 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-29.05 dBm	-16.05 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45497 GHz	4.40 dBm	-25.60 dB

Date: 7.MAR.2024 07:00:17

Highest Channel / FullRB



Spurious Emissions

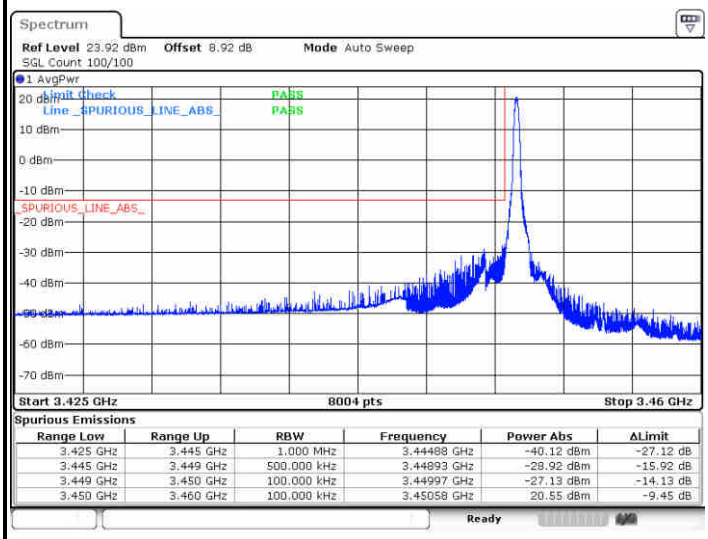
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54296 GHz	4.38 dBm	-25.62 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-26.58 dBm	-13.58 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-27.99 dBm	-14.99 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-32.72 dBm	-19.72 dB

Date: 7.MAR.2024 07:11:10

LTE Band 42 / 10MHz

64QAM

Lowest Channel / 1RB0

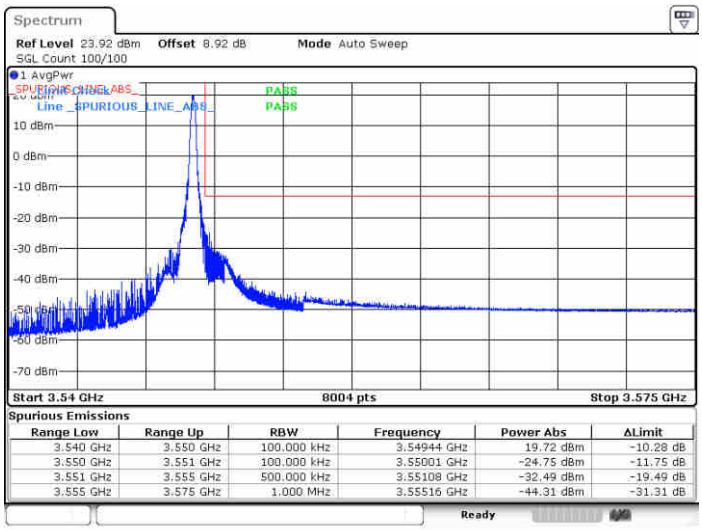


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44488 GHz	-40.12 dBm	-27.12 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-28.92 dBm	-15.92 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-27.13 dBm	-14.13 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45058 GHz	20.55 dBm	-9.45 dB

Date: 7.MAR.2024 06:57:56

Highest Channel / 1RBmax

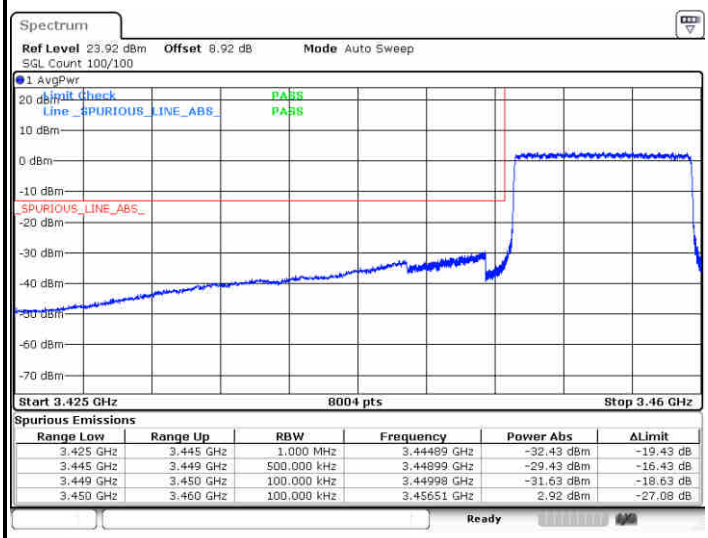


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54944 GHz	19.72 dBm	-10.28 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-24.75 dBm	-11.75 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55108 GHz	-32.49 dBm	-19.49 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55516 GHz	-44.31 dBm	-31.31 dB

Date: 7.MAR.2024 07:07:03

Lowest Channel / FullRB

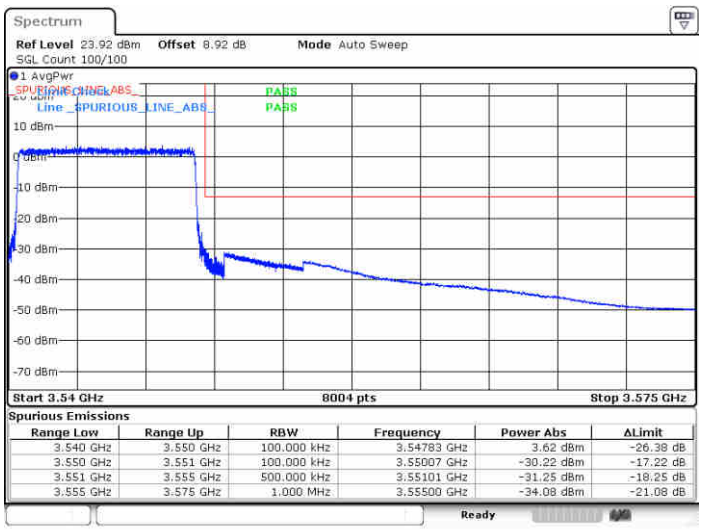


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44489 GHz	-32.43 dBm	-19.43 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-29.43 dBm	-16.43 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-31.63 dBm	-18.63 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45651 GHz	2.92 dBm	-27.08 dB

Date: 7.MAR.2024 07:01:03

Highest Channel / FullRB



Spurious Emissions

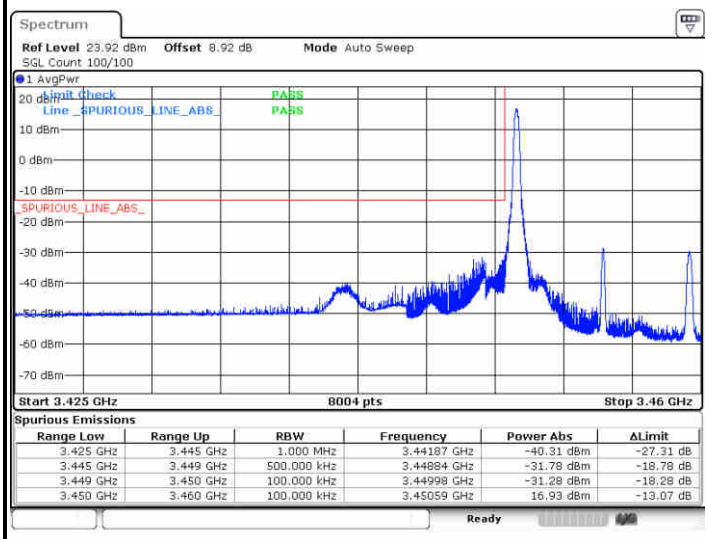
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54783 GHz	3.62 dBm	-26.38 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55007 GHz	-30.22 dBm	-17.22 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-31.25 dBm	-18.25 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-34.08 dBm	-21.08 dB

Date: 7.MAR.2024 07:11:56

LTE Band 42 / 10MHz

256QAM

Lowest Channel / 1RB0

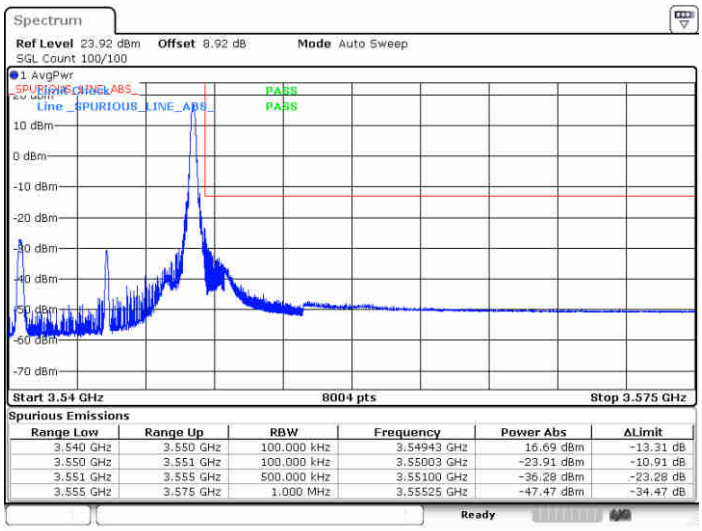


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44187 GHz	-40.31 dBm	-27.31 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44884 GHz	-31.78 dBm	-18.78 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-31.28 dBm	-18.28 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45059 GHz	16.93 dBm	-13.07 dB

Date: 7.MAR.2024 06:58:42

Highest Channel / 1RBmax

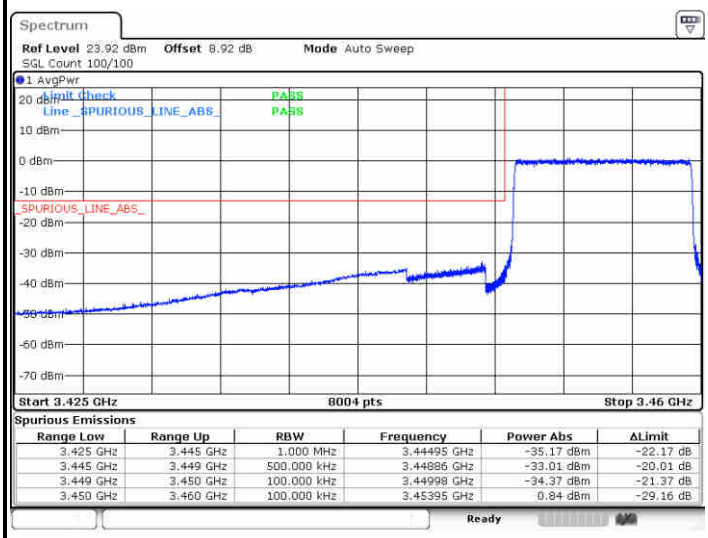


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54943 GHz	16.69 dBm	-13.31 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-23.91 dBm	-10.91 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-36.28 dBm	-23.28 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55525 GHz	-47.47 dBm	-34.47 dB

Date: 7.MAR.2024 07:07:49

Lowest Channel / FullRB

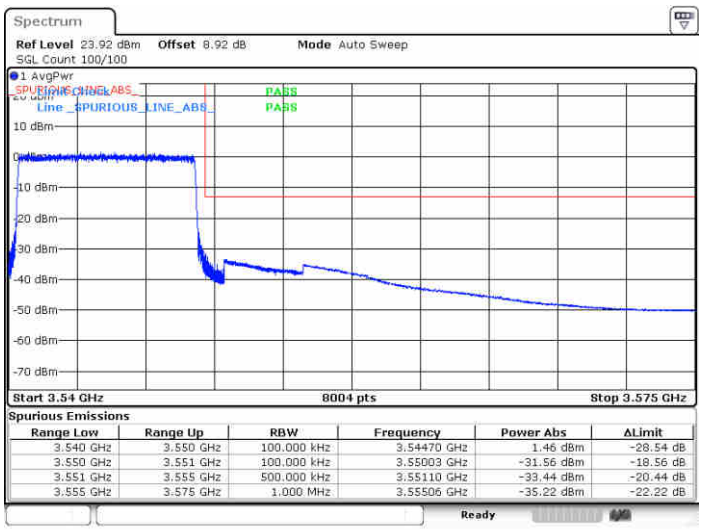


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44495 GHz	-35.17 dBm	-22.17 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-33.01 dBm	-20.01 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-34.37 dBm	-21.37 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45395 GHz	0.84 dBm	-29.16 dB

Date: 7.MAR.2024 07:01:49

Highest Channel / FullRB



Spurious Emissions

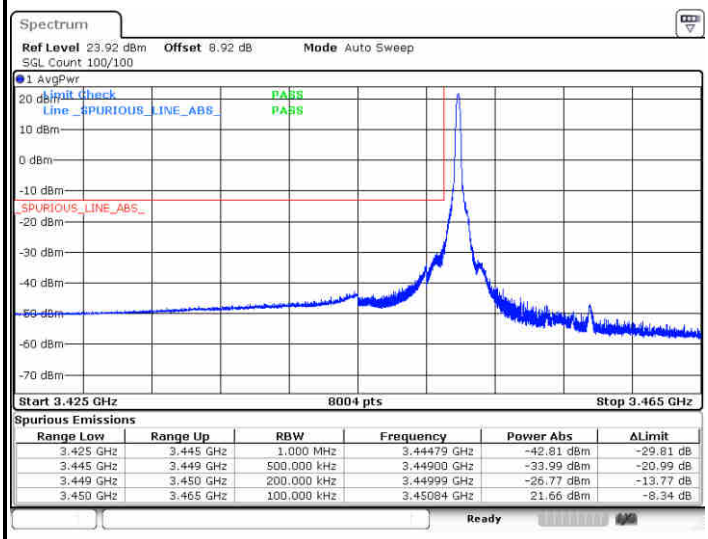
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54470 GHz	1.46 dBm	-28.54 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-31.56 dBm	-18.56 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55110 GHz	-33.44 dBm	-20.44 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-35.22 dBm	-22.22 dB

Date: 7.MAR.2024 07:12:42

LTE Band 42 / 15MHz

QPSK

Lowest Channel / 1RB0

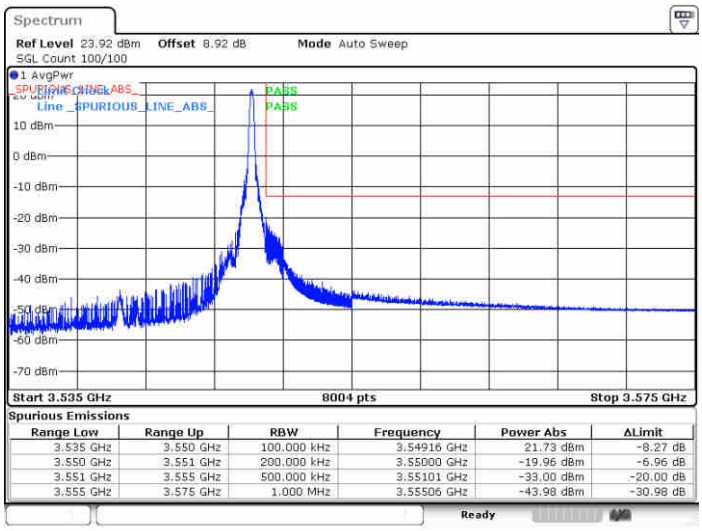


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44479 GHz	-42.81 dBm	-29.81 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-33.99 dBm	-20.99 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-26.77 dBm	-13.77 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45084 GHz	21.66 dBm	-8.34 dB

Date: 7.MAR.2024 07:15:30

Highest Channel / 1RBmax

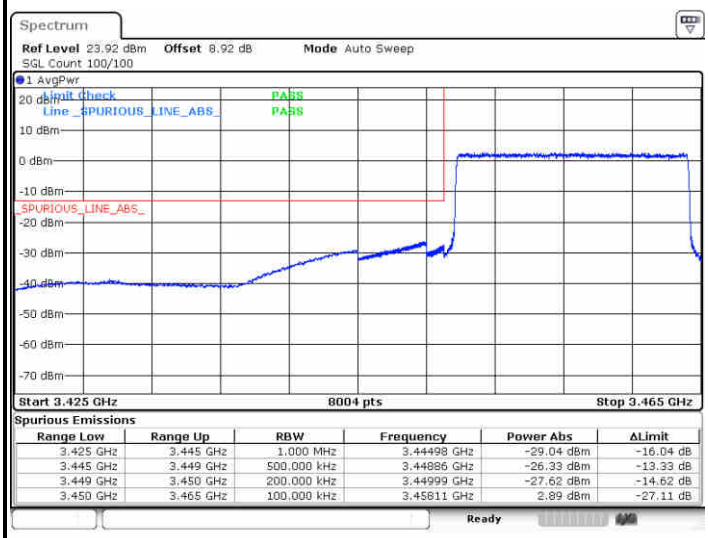


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54916 GHz	21.73 dBm	-8.27 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-19.96 dBm	-6.96 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-33.00 dBm	-20.00 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55506 GHz	-43.98 dBm	-30.98 dB

Date: 7.MAR.2024 07:24:56

Lowest Channel / FullRB

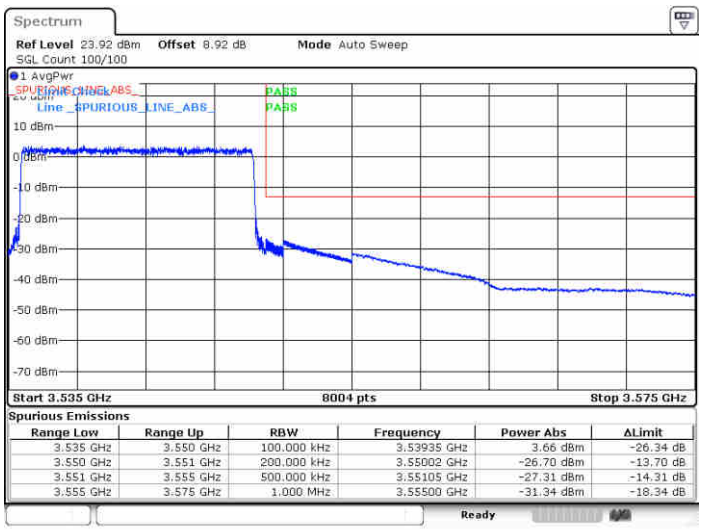


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-29.04 dBm	-16.04 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-26.33 dBm	-13.33 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-27.62 dBm	-14.62 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45811 GHz	2.89 dBm	-27.11 dB

Date: 7.MAR.2024 07:18:48

Highest Channel / FullRB



Spurious Emissions

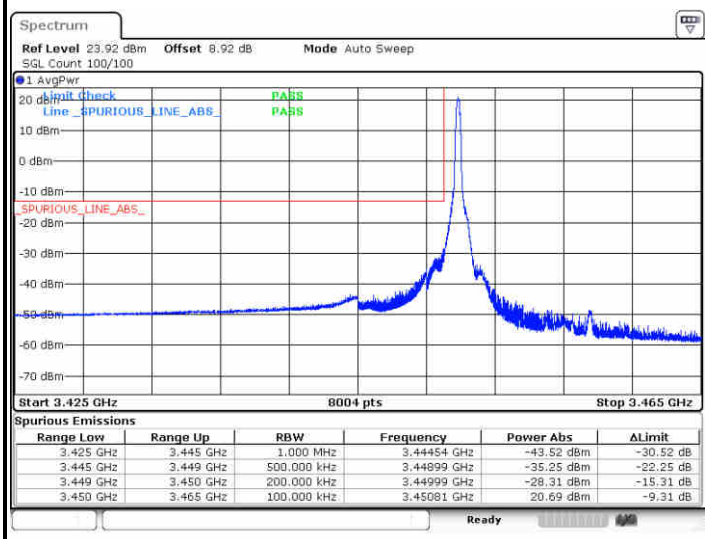
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53935 GHz	3.66 dBm	-26.34 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-26.70 dBm	-13.70 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-27.31 dBm	-14.31 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-31.34 dBm	-18.34 dB

Date: 7.MAR.2024 07:28:03

LTE Band 42 / 15MHz

16QAM

Lowest Channel / 1RB0

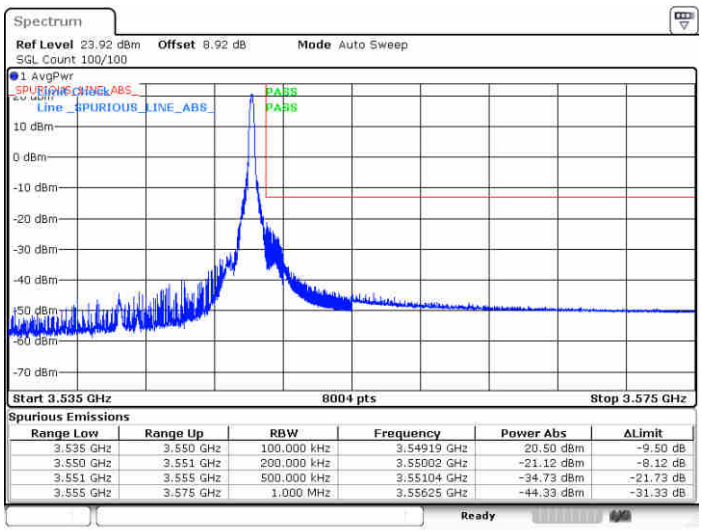


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44454 GHz	-43.52 dBm	-30.52 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-35.25 dBm	-22.25 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-28.31 dBm	-15.31 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45081 GHz	20.69 dBm	-9.31 dB

Date: 7.MAR.2024 07:16:19

Highest Channel / 1RBmax

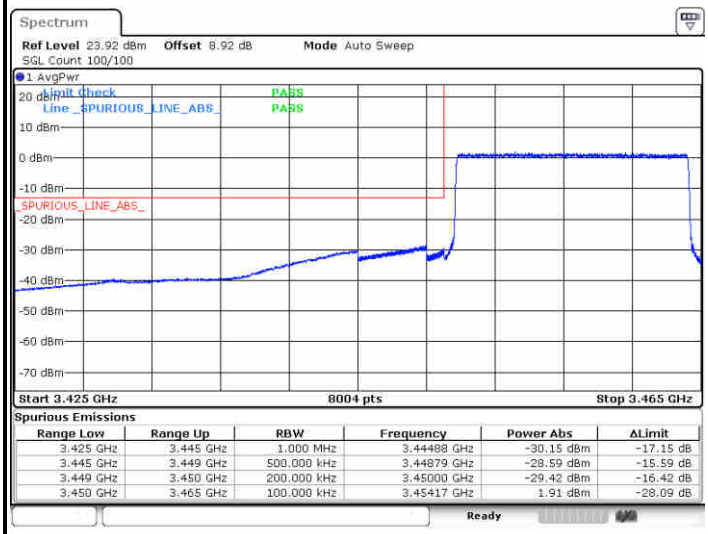


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54919 GHz	20.50 dBm	-9.50 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-21.12 dBm	-8.12 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-34.73 dBm	-21.73 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55625 GHz	-44.33 dBm	-31.33 dB

Date: 7.MAR.2024 07:25:42

Lowest Channel / FullRB

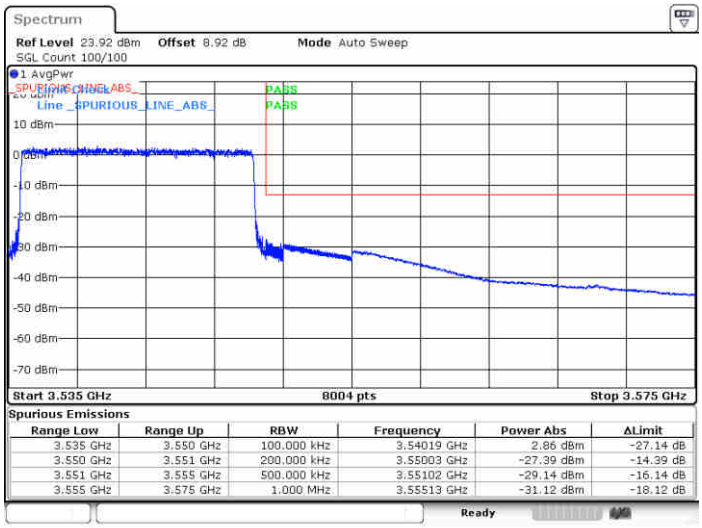


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44488 GHz	-30.15 dBm	-17.15 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44879 GHz	-28.59 dBm	-15.59 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-29.42 dBm	-16.42 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45417 GHz	1.91 dBm	-28.09 dB

Date: 7.MAR.2024 07:19:37

Highest Channel / FullRB



Spurious Emissions

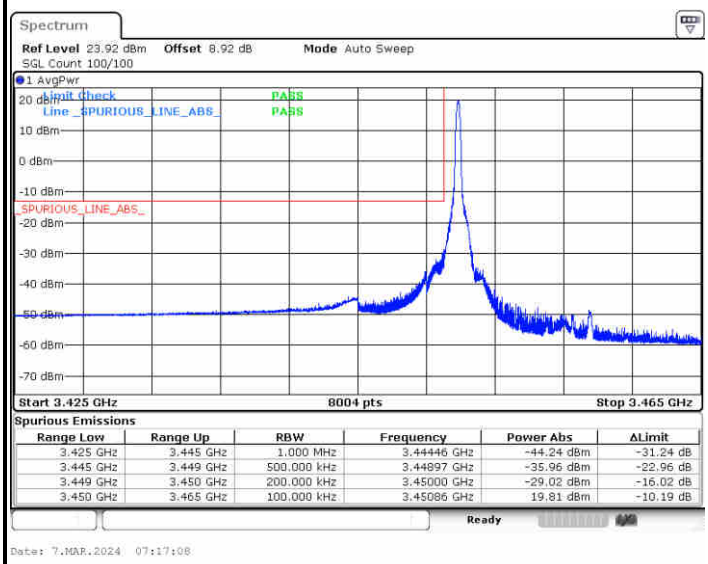
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54019 GHz	2.86 dBm	-27.14 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-27.39 dBm	-14.39 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-29.14 dBm	-16.14 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-31.12 dBm	-18.12 dB

Date: 7.MAR.2024 07:28:49

LTE Band 42 / 15MHz

64QAM

Lowest Channel / 1RB0

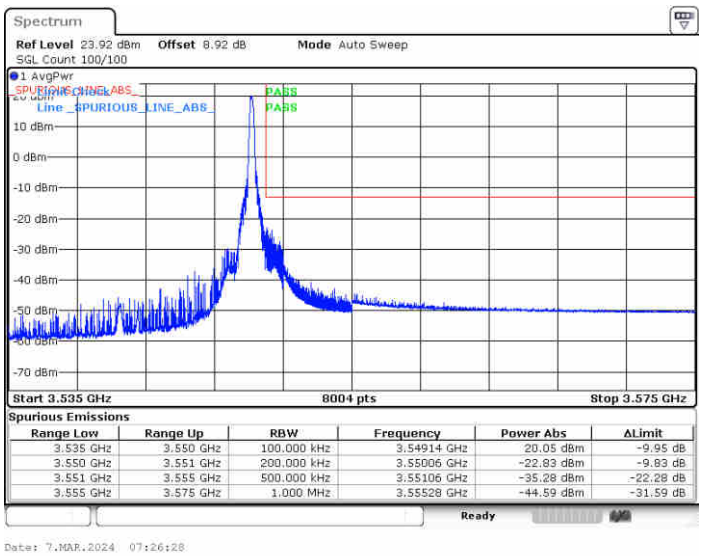


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44446 GHz	-44.24 dBm	-31.24 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-35.96 dBm	-22.96 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-29.02 dBm	-16.02 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45086 GHz	19.81 dBm	-10.19 dB

Date: 7.MAR.2024 07:17:08

Highest Channel / 1RBmax

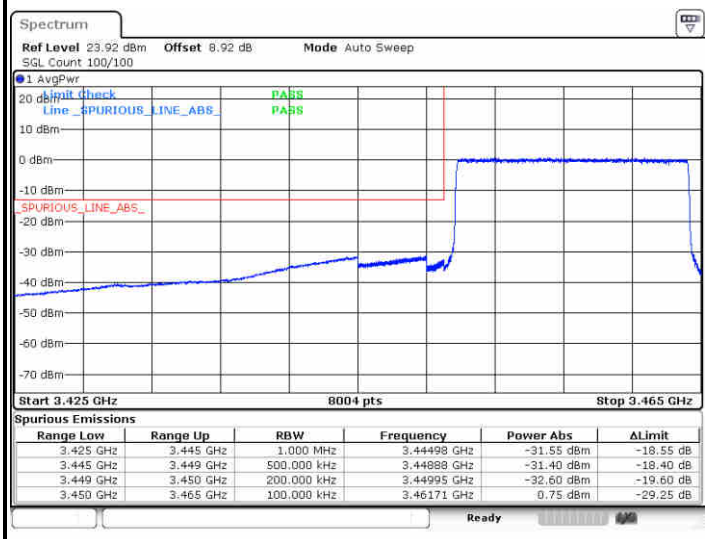


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54914 GHz	20.05 dBm	-9.95 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55006 GHz	-22.83 dBm	-9.83 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-35.28 dBm	-22.28 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55528 GHz	-44.59 dBm	-31.59 dB

Date: 7.MAR.2024 07:26:28

Lowest Channel / FullRB

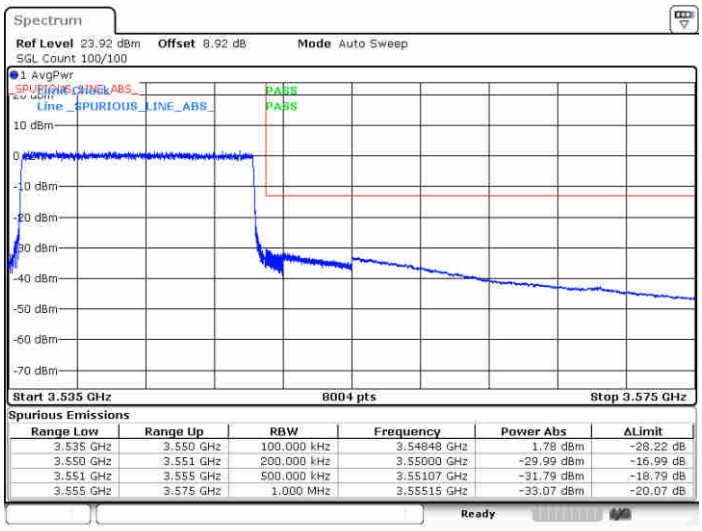


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-31.55 dBm	-18.55 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44888 GHz	-31.40 dBm	-18.40 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44995 GHz	-32.60 dBm	-19.60 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.46171 GHz	0.75 dBm	-29.25 dB

Date: 7.MAR.2024 07:20:25

Highest Channel / FullRB



Spurious Emissions

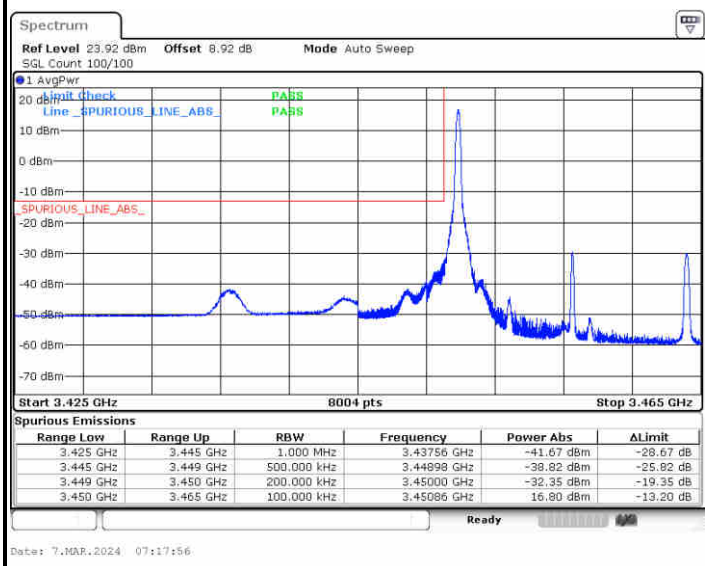
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54848 GHz	1.78 dBm	-28.22 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-29.99 dBm	-16.99 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55107 GHz	-31.79 dBm	-18.79 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55515 GHz	-33.07 dBm	-20.07 dB

Date: 7.MAR.2024 07:29:34

LTE Band 42 / 15MHz

256QAM

Lowest Channel / 1RB0

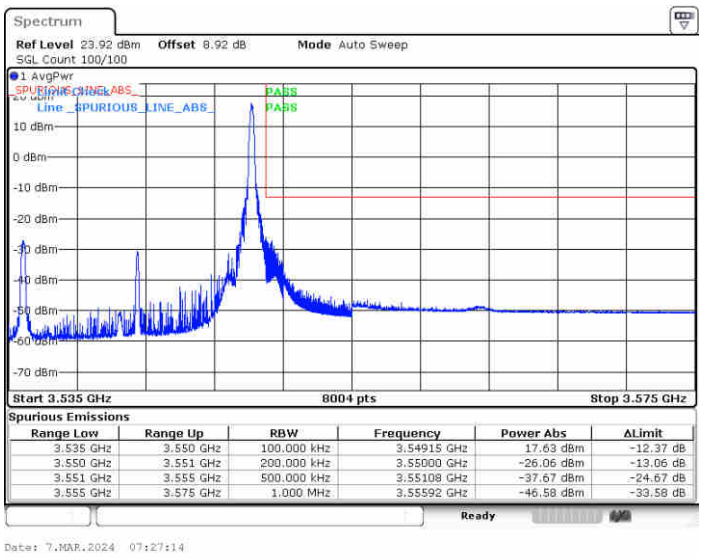


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.43756 GHz	-41.67 dBm	-28.67 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-38.82 dBm	-25.82 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-32.35 dBm	-19.35 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45086 GHz	16.80 dBm	-13.20 dB

Date: 7.MAR.2024 07:17:56

Highest Channel / 1RBmax

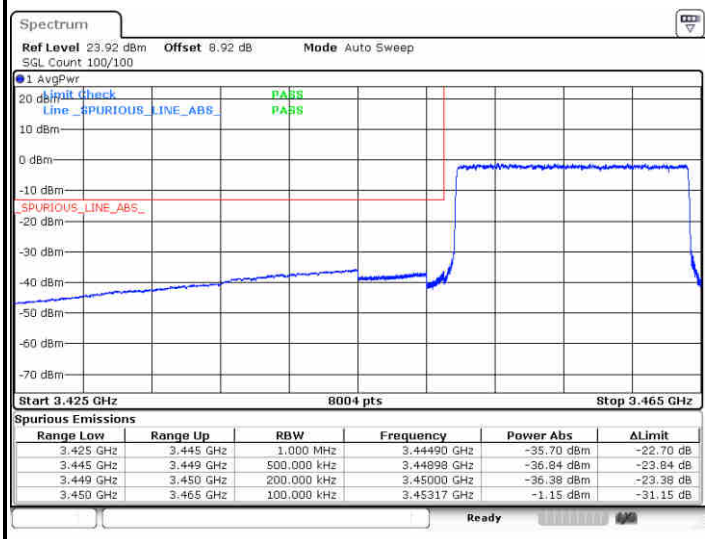


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	17.63 dBm	-12.37 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-26.06 dBm	-13.06 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55108 GHz	-37.67 dBm	-24.67 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55592 GHz	-46.58 dBm	-33.58 dB

Date: 7.MAR.2024 07:27:14

Lowest Channel / FullRB

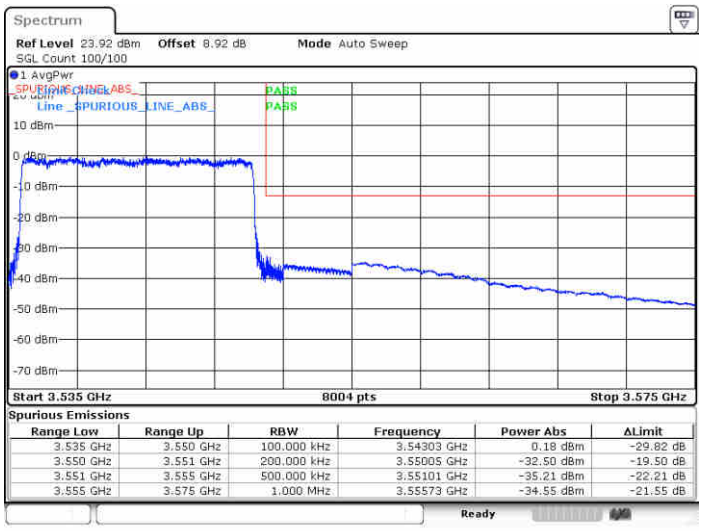


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44490 GHz	-35.70 dBm	-22.70 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-36.84 dBm	-23.84 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-36.38 dBm	-23.38 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45317 GHz	-1.15 dBm	-31.15 dB

Date: 7.MAR.2024 07:21:14

Highest Channel / FullRB



Spurious Emissions

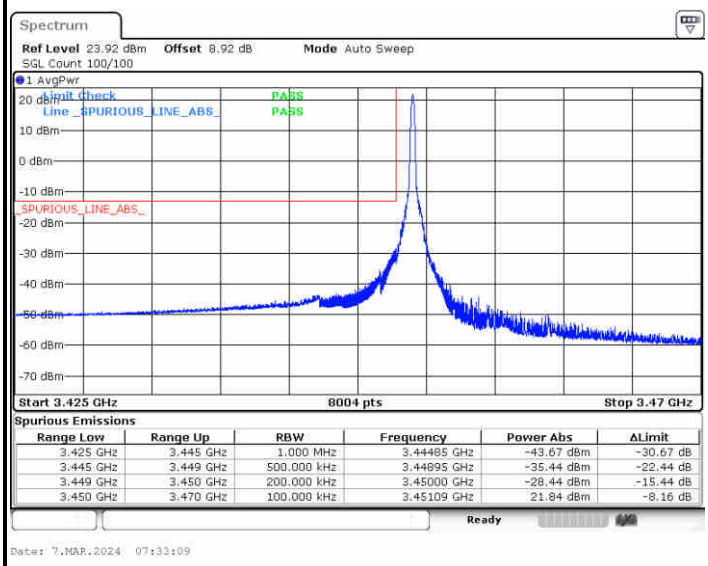
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54303 GHz	0.18 dBm	-29.82 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-32.50 dBm	-19.50 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-35.21 dBm	-22.21 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55573 GHz	-34.55 dBm	-21.55 dB

Date: 7.MAR.2024 07:30:21

LTE Band 42 / 20MHz

QPSK

Lowest Channel / 1RB0

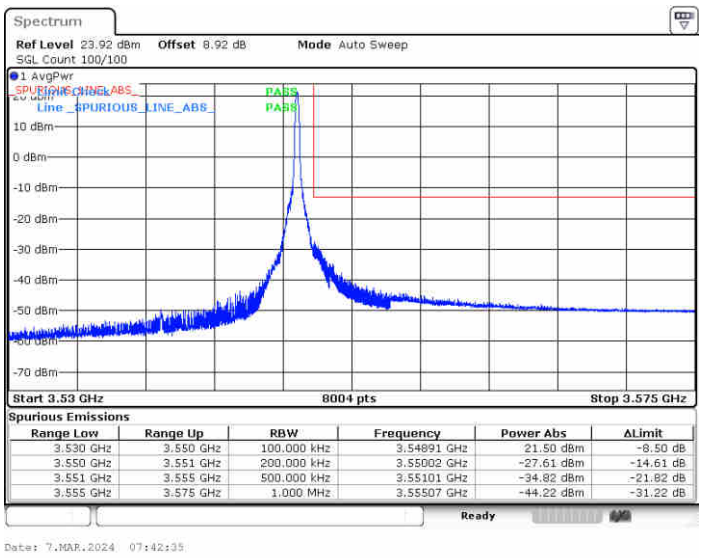


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44485 GHz	-43.67 dBm	-30.67 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-35.44 dBm	-22.44 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-28.44 dBm	-15.44 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45109 GHz	21.84 dBm	-8.16 dB

Date: 7.MAR.2024 07:33:09

Highest Channel / 1RBmax

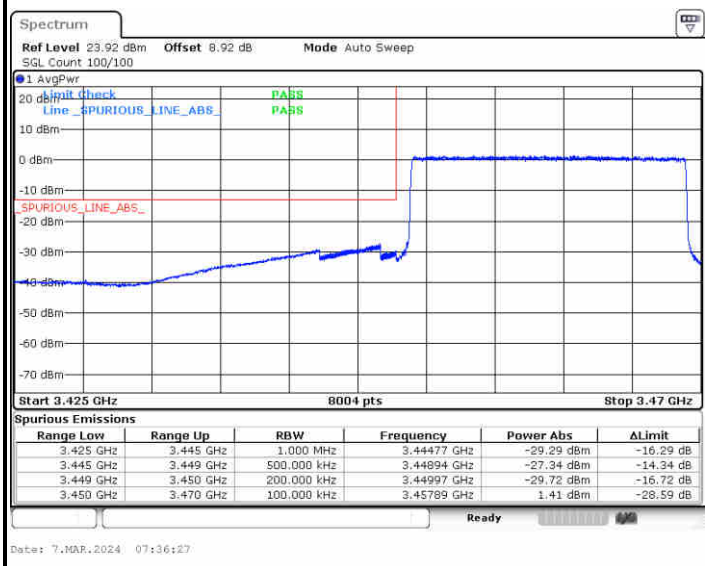


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54891 GHz	21.50 dBm	-8.50 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-27.61 dBm	-14.61 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-34.82 dBm	-21.82 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55507 GHz	-44.22 dBm	-31.22 dB

Date: 7.MAR.2024 07:42:35

Lowest Channel / FullRB

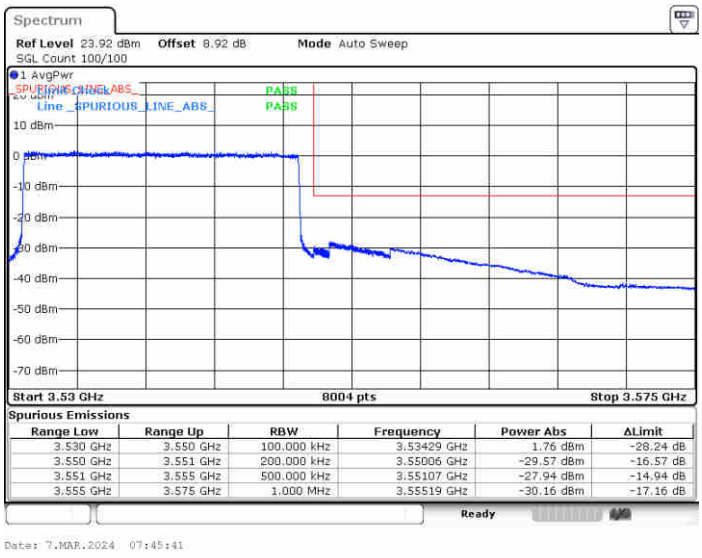


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44477 GHz	-29.29 dBm	-16.29 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-27.34 dBm	-14.34 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-29.72 dBm	-16.72 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45789 GHz	1.41 dBm	-28.59 dB

Date: 7.MAR.2024 07:36:27

Highest Channel / FullRB



Spurious Emissions

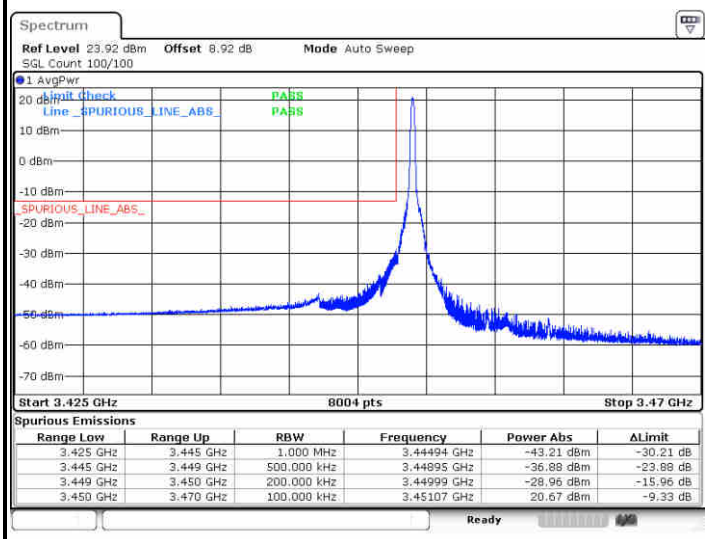
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53429 GHz	1.76 dBm	-28.24 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55006 GHz	-29.57 dBm	-16.57 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55107 GHz	-27.94 dBm	-14.94 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55519 GHz	-30.16 dBm	-17.16 dB

Date: 7.MAR.2024 07:45:41

LTE Band 42 / 20MHz

16QAM

Lowest Channel / 1RB0

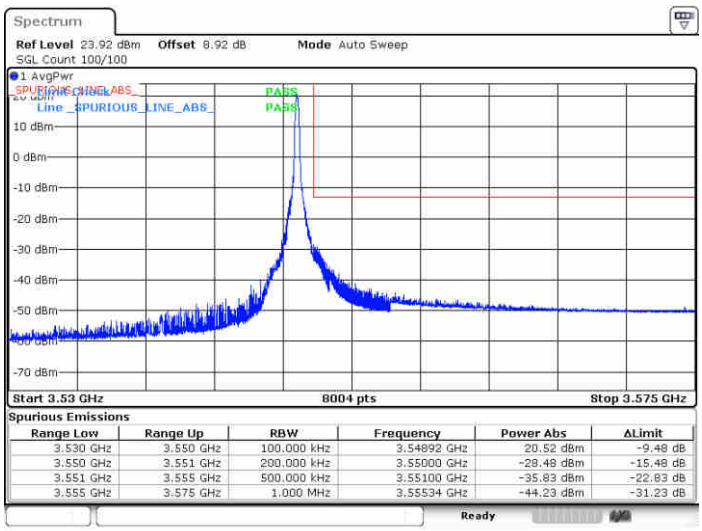


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44494 GHz	-43.21 dBm	-30.21 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-36.88 dBm	-23.88 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-28.96 dBm	-15.96 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45107 GHz	20.67 dBm	-9.33 dB

Date: 7.MAR.2024 07:33:58

Highest Channel / 1RBmax

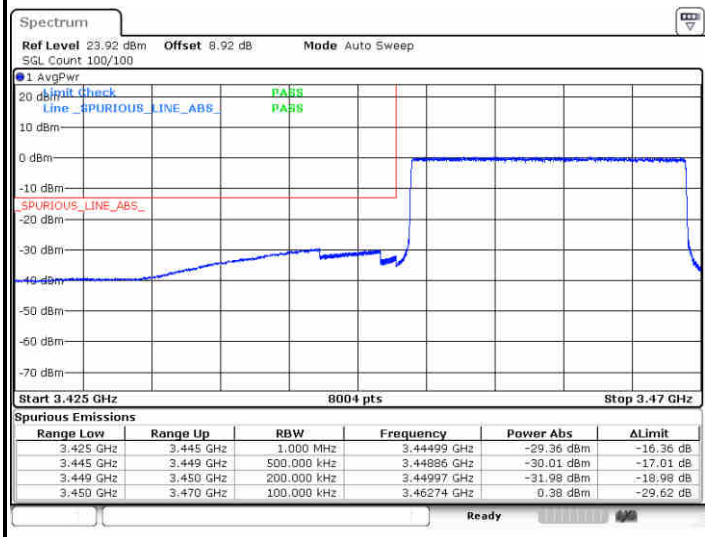


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54892 GHz	20.52 dBm	-9.48 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-28.48 dBm	-15.48 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-35.83 dBm	-22.83 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55534 GHz	-44.23 dBm	-31.23 dB

Date: 7.MAR.2024 07:43:21

Lowest Channel / FullRB

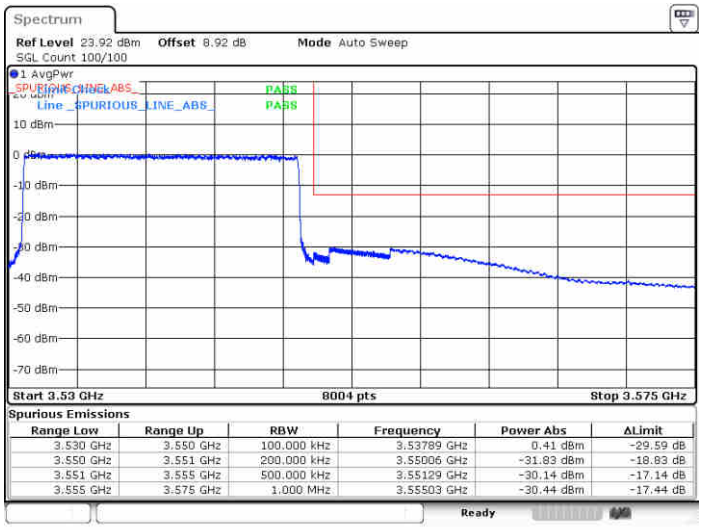


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-29.36 dBm	-16.36 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-30.01 dBm	-17.01 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-31.98 dBm	-18.98 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46274 GHz	0.38 dBm	-29.62 dB

Date: 7.MAR.2024 07:37:16

Highest Channel / FullRB



Spurious Emissions

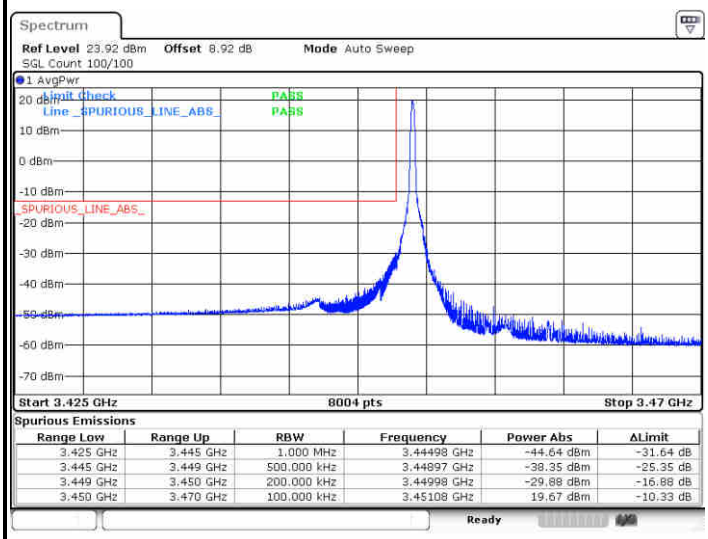
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53789 GHz	0.41 dBm	-29.59 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55006 GHz	-31.83 dBm	-18.83 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55129 GHz	-30.14 dBm	-17.14 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-30.44 dBm	-17.44 dB

Date: 7.MAR.2024 07:46:27

LTE Band 42 / 20MHz

64QAM

Lowest Channel / 1RB0

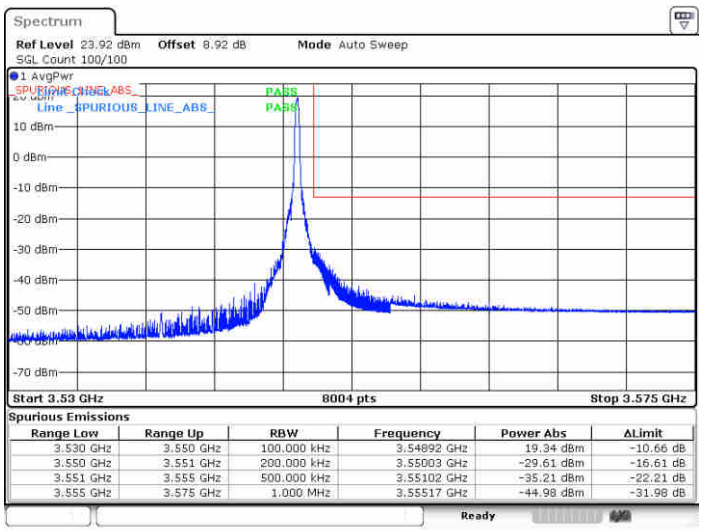


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-44.64 dBm	-31.64 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-38.35 dBm	-25.35 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-29.88 dBm	-16.88 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45108 GHz	19.67 dBm	-10.33 dB

Date: 7.MAR.2024 07:34:47

Highest Channel / 1RBmax

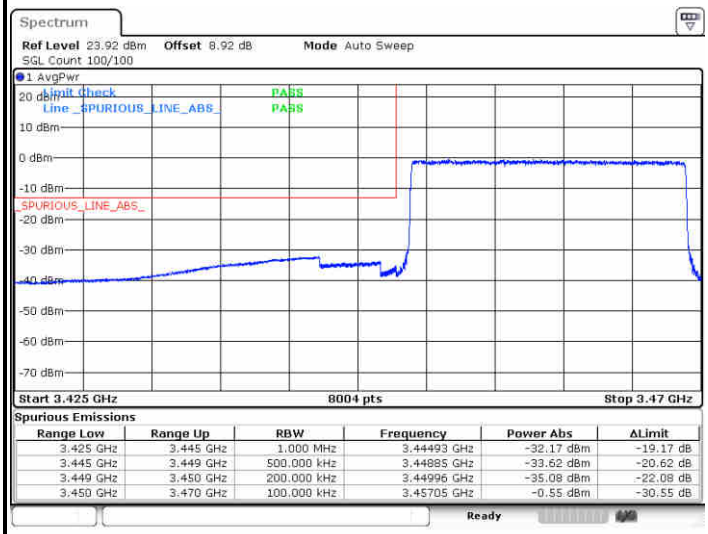


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54892 GHz	19.34 dBm	-10.66 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-29.61 dBm	-16.61 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-35.21 dBm	-22.21 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55517 GHz	-44.98 dBm	-31.98 dB

Date: 7.MAR.2024 07:44:07

Lowest Channel / FullRB

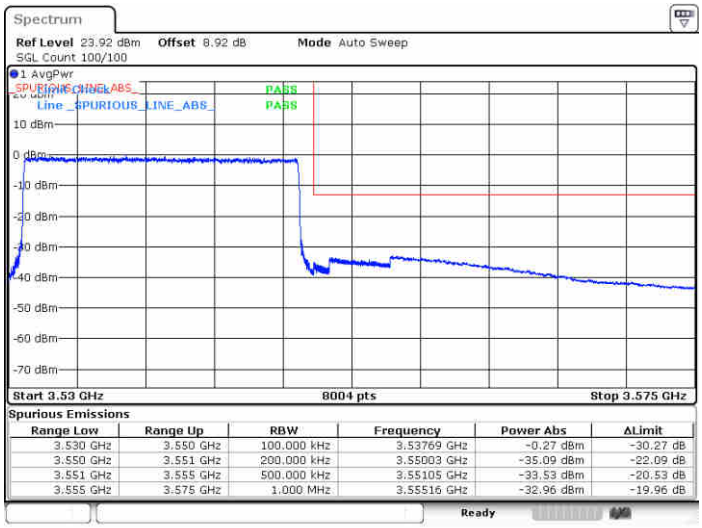


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44493 GHz	-32.17 dBm	-19.17 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44885 GHz	-33.62 dBm	-20.62 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44996 GHz	-35.08 dBm	-22.08 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45705 GHz	-0.55 dBm	-30.55 dB

Date: 7.MAR.2024 07:38:04

Highest Channel / FullRB



Spurious Emissions

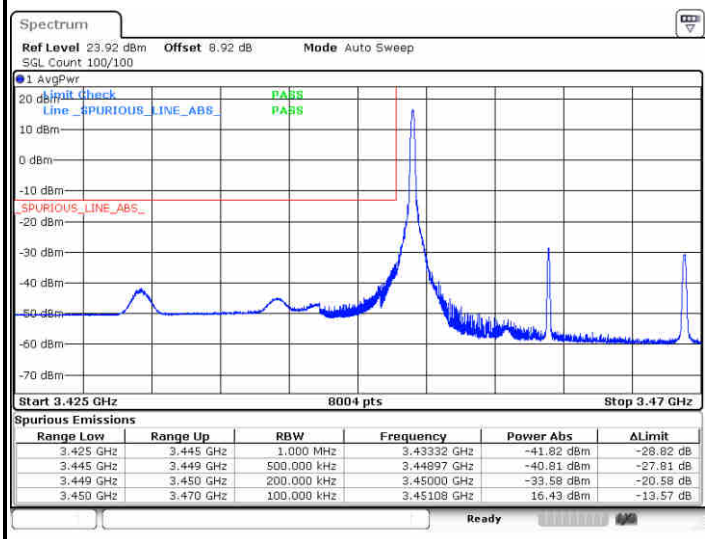
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53769 GHz	-0.27 dBm	-30.27 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-35.09 dBm	-22.09 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-33.53 dBm	-20.53 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55516 GHz	-32.96 dBm	-19.96 dB

Date: 7.MAR.2024 07:47:13

LTE Band 42 / 20MHz

256QAM

Lowest Channel / 1RB0

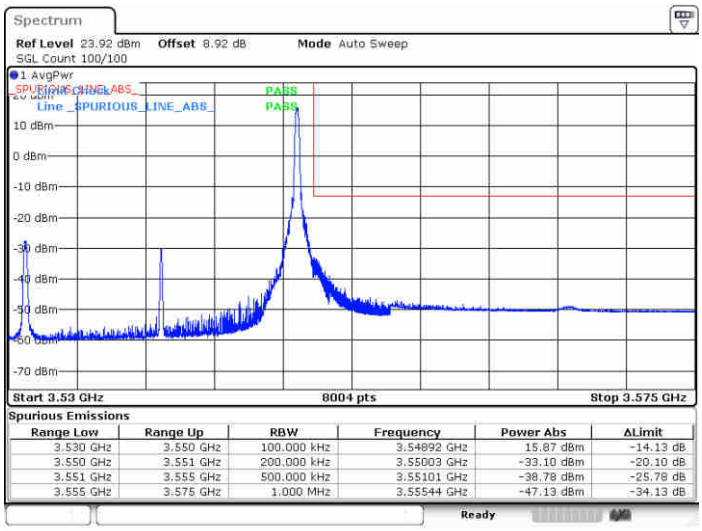


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.43332 GHz	-41.82 dBm	-28.82 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-40.81 dBm	-27.81 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-33.58 dBm	-20.58 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45108 GHz	16.43 dBm	-13.57 dB

Date: 7.MAR.2024 07:35:35

Highest Channel / 1RBmax

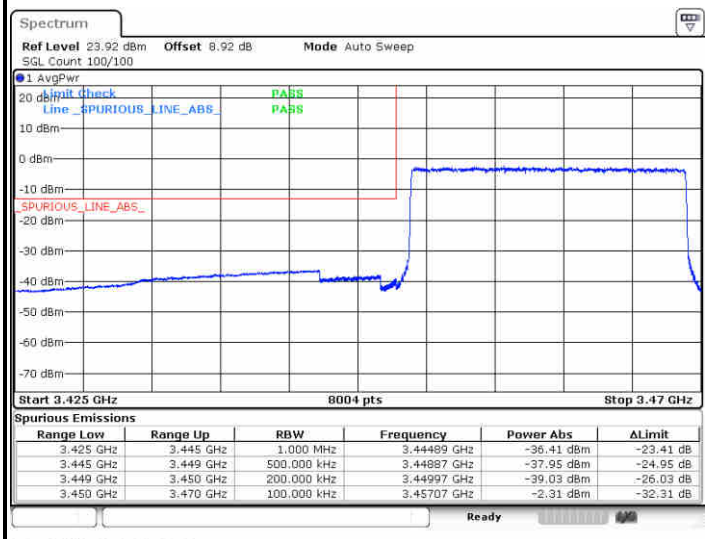


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54892 GHz	15.87 dBm	-14.13 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-33.10 dBm	-20.10 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-38.78 dBm	-25.78 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55544 GHz	-47.13 dBm	-34.13 dB

Date: 7.MAR.2024 07:44:53

Lowest Channel / FullRB

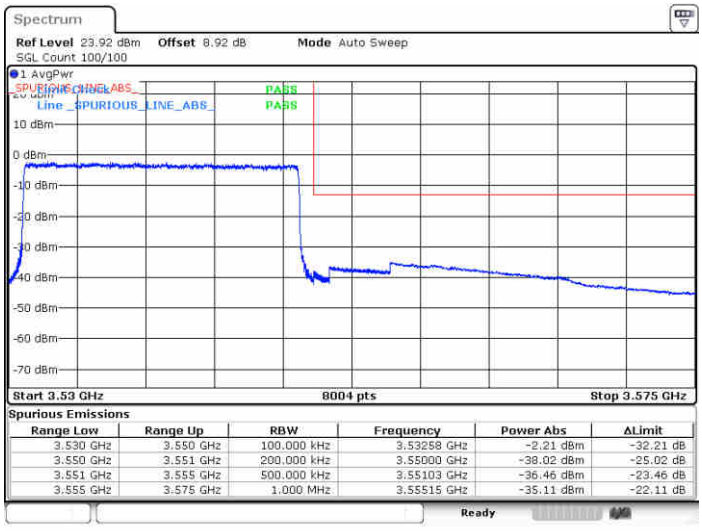


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44489 GHz	-36.41 dBm	-23.41 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-37.95 dBm	-24.95 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-39.03 dBm	-26.03 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45707 GHz	-2.31 dBm	-32.31 dB

Date: 7.MAR.2024 07:38:53

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53258 GHz	-2.21 dBm	-32.21 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-38.02 dBm	-25.02 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-36.46 dBm	-23.46 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55515 GHz	-35.11 dBm	-22.11 dB

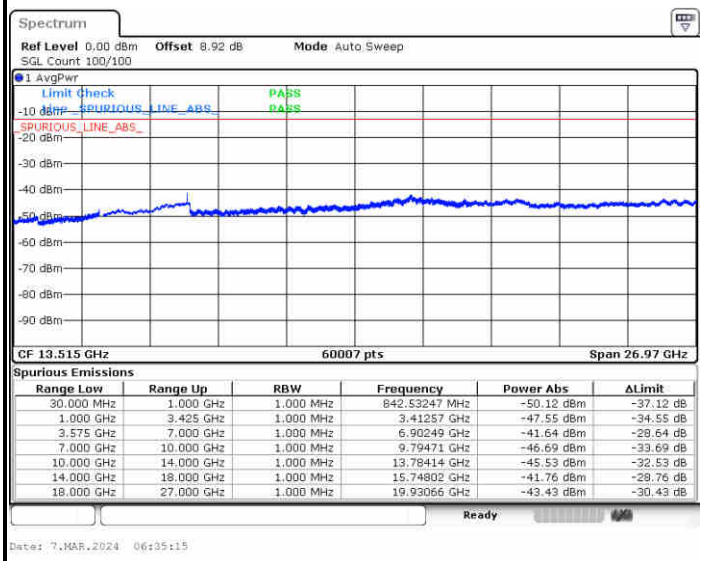
Date: 7.MAR.2024 07:47:59

Conducted Spurious Emission

LTE Band 42/ 5MHz

QPSK / 1RB0

Lowest Channel

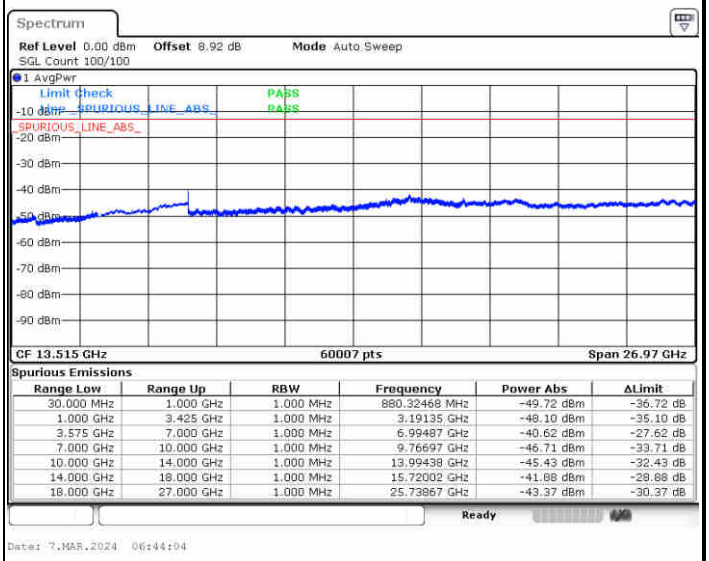


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	842.53247 MHz	-50.12 dBm	-37.12 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41257 GHz	-47.55 dBm	-34.55 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-41.64 dBm	-28.64 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.79471 GHz	-46.69 dBm	-33.69 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.78414 GHz	-45.53 dBm	-32.53 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.74802 GHz	-41.76 dBm	-28.76 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93066 GHz	-43.43 dBm	-30.43 dB

Date: 7.MAR.2024 06:35:15

Middle Channel

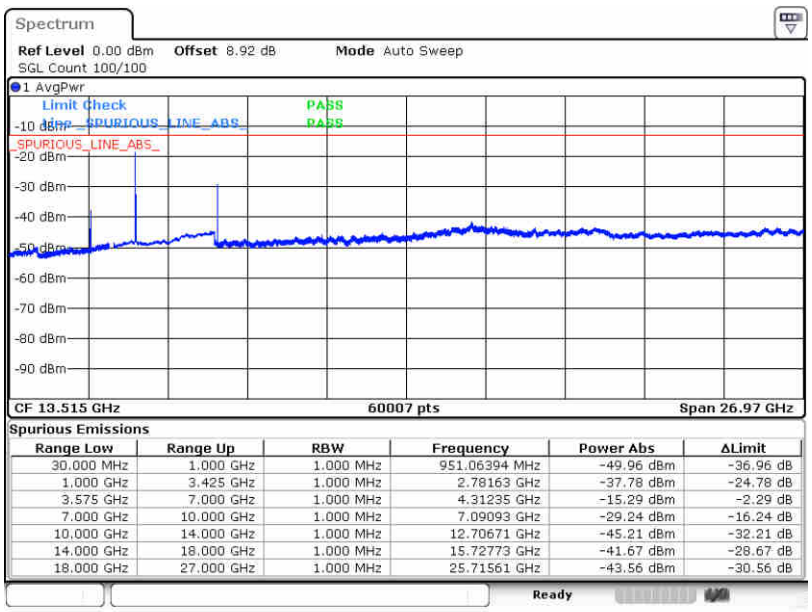


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	880.32468 MHz	-49.72 dBm	-36.72 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.19135 GHz	-48.10 dBm	-35.10 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99487 GHz	-40.62 dBm	-27.62 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.76697 GHz	-46.71 dBm	-33.71 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99438 GHz	-45.43 dBm	-32.43 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72002 GHz	-41.88 dBm	-28.88 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.73867 GHz	-43.37 dBm	-30.37 dB

Date: 7.MAR.2024 06:44:04

Highest Channel



Spurious Emissions

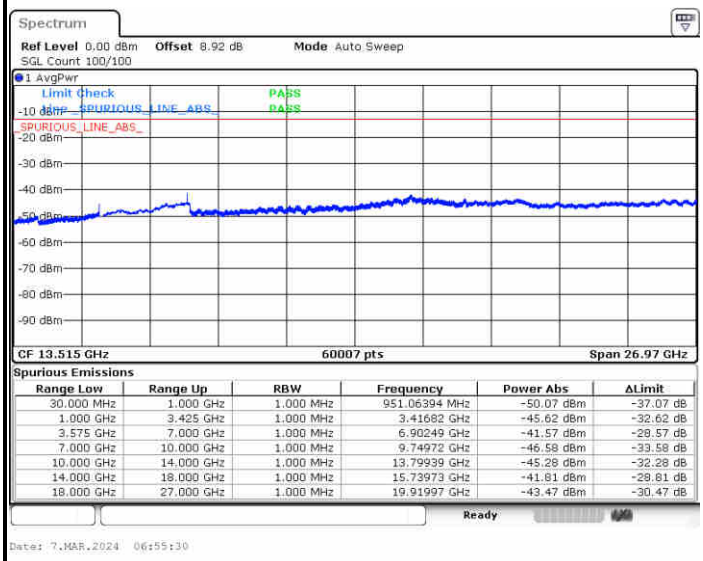
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.06394 MHz	-49.96 dBm	-36.96 dB
1.000 GHz	3.425 GHz	1.000 MHz	2.78163 GHz	-37.78 dBm	-24.78 dB
3.575 GHz	7.000 GHz	1.000 MHz	4.31235 GHz	-15.29 dBm	-2.29 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.09093 GHz	-29.24 dBm	-16.24 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.70671 GHz	-45.21 dBm	-32.21 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72773 GHz	-41.67 dBm	-28.67 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.71561 GHz	-43.56 dBm	-30.56 dB

Date: 7.MAR.2024 06:45:31

LTE Band 42/ 10MHz

QPSK / 1RB0

Lowest Channel

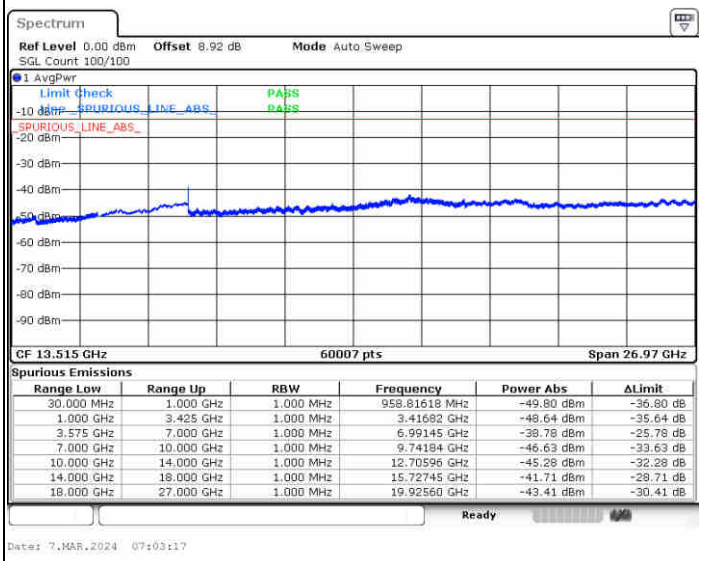


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.06394 MHz	-50.07 dBm	-37.07 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41682 GHz	-45.62 dBm	-32.62 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-41.57 dBm	-28.57 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74972 GHz	-46.58 dBm	-33.58 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79939 GHz	-45.28 dBm	-32.28 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73973 GHz	-41.81 dBm	-28.81 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.91997 GHz	-43.47 dBm	-30.47 dB

Date: 7.MAR.2024 06:55:30

Middle Channel

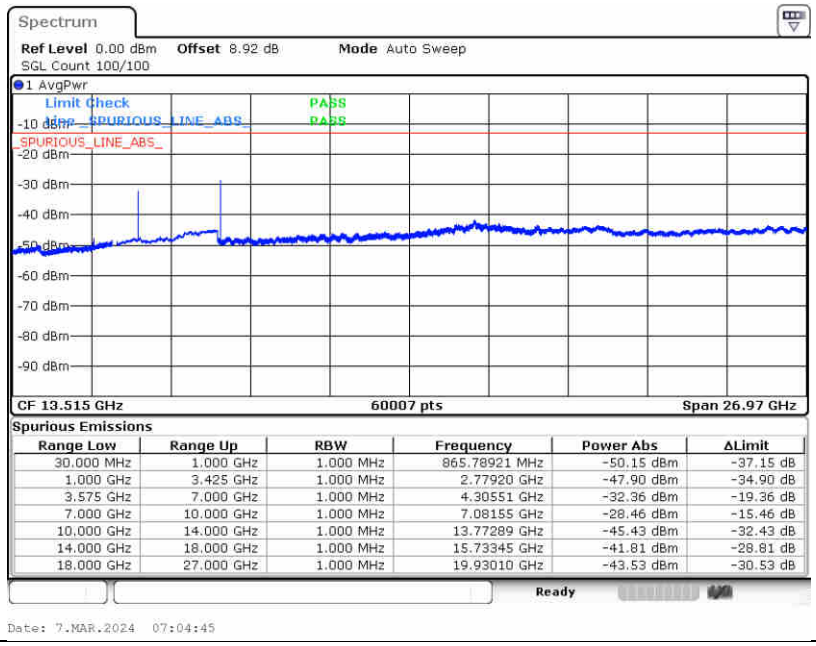


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	958.81618 MHz	-49.80 dBm	-36.80 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41682 GHz	-48.64 dBm	-35.64 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99145 GHz	-38.78 dBm	-25.78 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74184 GHz	-46.63 dBm	-33.63 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.70596 GHz	-45.28 dBm	-32.28 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72745 GHz	-41.71 dBm	-28.71 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92560 GHz	-43.41 dBm	-30.41 dB

Date: 7.MAR.2024 07:03:17

Highest Channel



Spurious Emissions

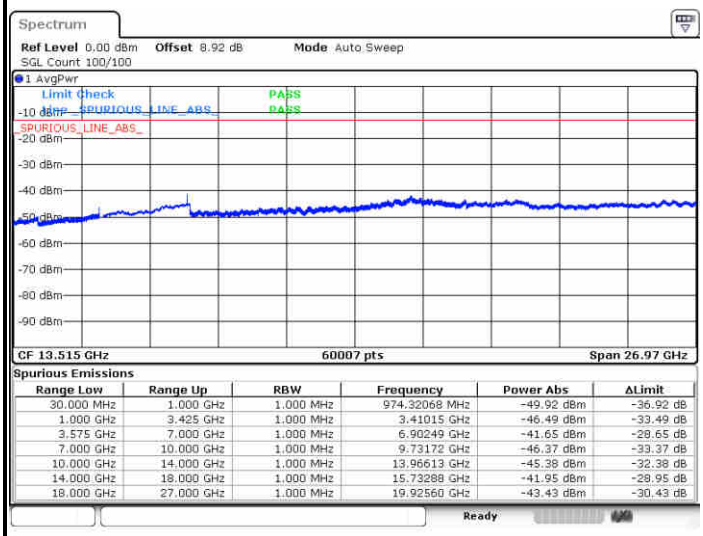
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	865.78921 MHz	-50.15 dBm	-37.15 dB
1.000 GHz	3.425 GHz	1.000 MHz	2.77920 GHz	-47.90 dBm	-34.90 dB
3.575 GHz	7.000 GHz	1.000 MHz	4.30551 GHz	-32.36 dBm	-19.36 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.08155 GHz	-28.46 dBm	-15.46 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.77289 GHz	-45.43 dBm	-32.43 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73345 GHz	-41.81 dBm	-28.81 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93010 GHz	-43.53 dBm	-30.53 dB

Date: 7.MAR.2024 07:04:45

LTE Band 42/ 15MHz

QPSK / 1RB0

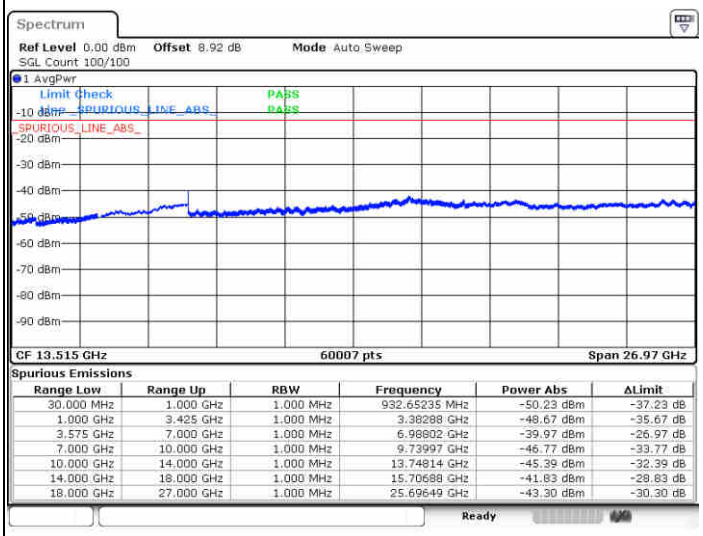
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.32068 MHz	-49.92 dBm	-36.92 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41015 GHz	-46.49 dBm	-33.49 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-41.65 dBm	-28.65 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.73172 GHz	-46.37 dBm	-33.37 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.96613 GHz	-45.38 dBm	-32.38 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73288 GHz	-41.95 dBm	-28.95 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92560 GHz	-43.43 dBm	-30.43 dB

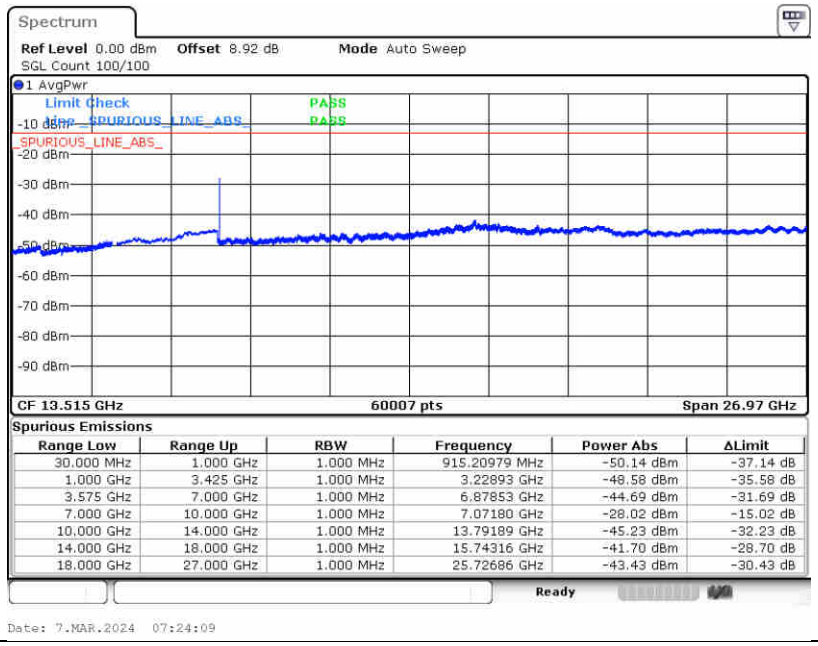
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	932.65235 MHz	-50.23 dBm	-37.23 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.38288 GHz	-48.67 dBm	-35.67 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.98802 GHz	-39.97 dBm	-26.97 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.73997 GHz	-46.77 dBm	-33.77 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.74814 GHz	-45.39 dBm	-32.39 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.70688 GHz	-41.83 dBm	-28.83 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.69649 GHz	-43.30 dBm	-30.30 dB

Highest Channel



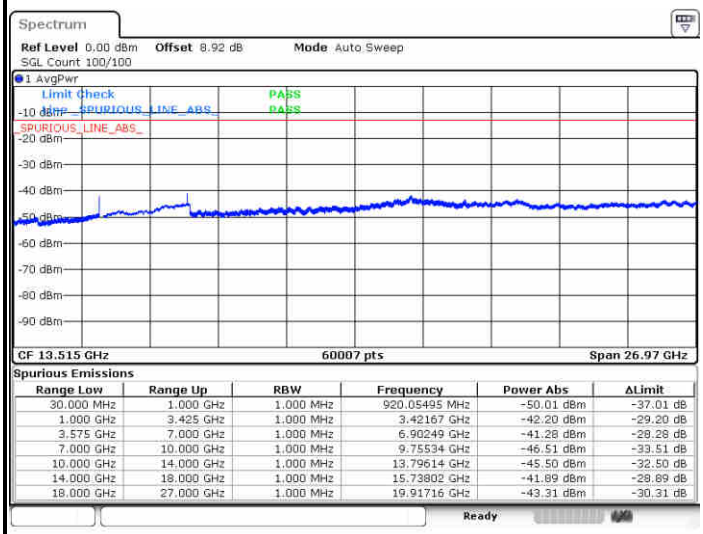
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	915.20979 MHz	-50.14 dBm	-37.14 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.22893 GHz	-48.58 dBm	-35.58 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.87853 GHz	-44.69 dBm	-31.69 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.07180 GHz	-28.02 dBm	-15.02 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79189 GHz	-45.23 dBm	-32.23 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.74316 GHz	-41.70 dBm	-28.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.72686 GHz	-43.43 dBm	-30.43 dB

LTE Band 42/ 20MHz

QPSK / 1RB0

Lowest Channel

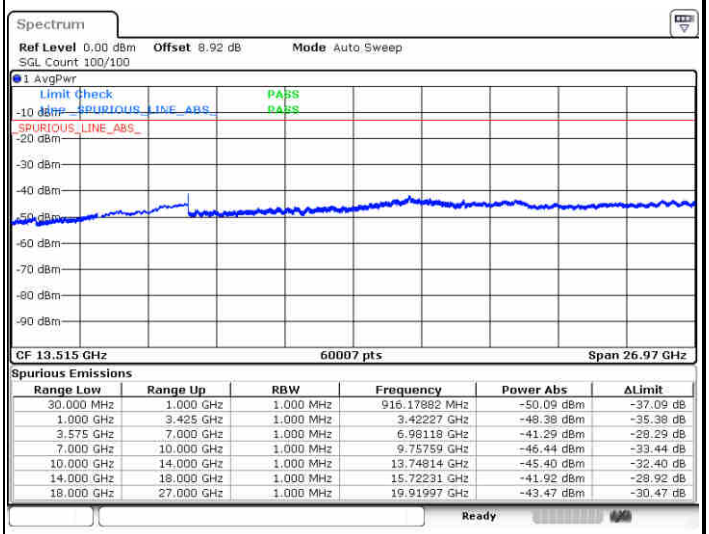


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	920.05495 MHz	-50.01 dBm	-37.01 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.42167 GHz	-42.20 dBm	-29.20 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-41.28 dBm	-28.28 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.75534 GHz	-46.51 dBm	-33.51 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79614 GHz	-45.50 dBm	-32.50 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73802 GHz	-41.89 dBm	-28.89 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.91716 GHz	-43.31 dBm	-30.31 dB

Date: 7.MAR.2024 07:32:32

Middle Channel

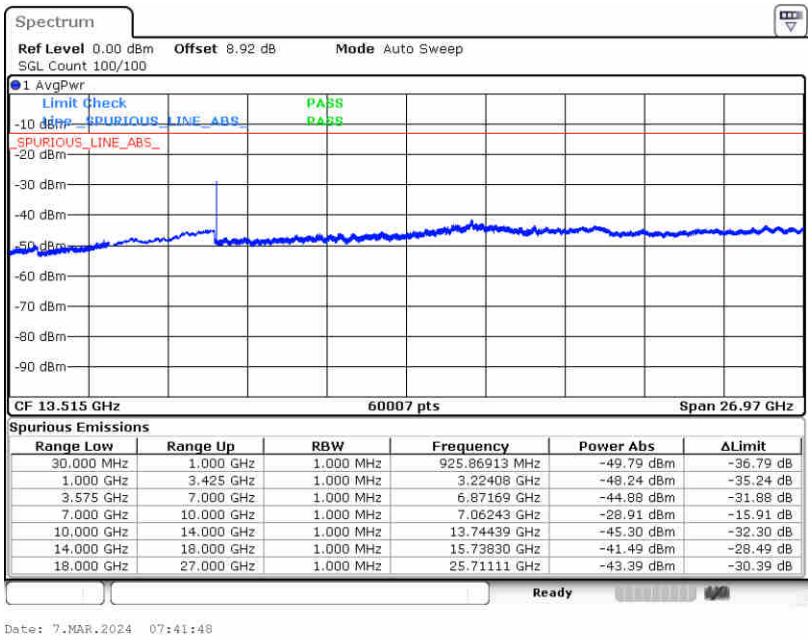


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	916.17882 MHz	-50.09 dBm	-37.09 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.42227 GHz	-48.38 dBm	-35.38 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.98118 GHz	-41.29 dBm	-28.29 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.75759 GHz	-46.44 dBm	-33.44 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.74814 GHz	-45.40 dBm	-32.40 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72231 GHz	-41.92 dBm	-28.92 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.91997 GHz	-43.47 dBm	-30.47 dB

Date: 7.MAR.2024 07:40:21

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.86913 MHz	-49.79 dBm	-36.79 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.22408 GHz	-48.24 dBm	-35.24 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.87169 GHz	-44.88 dBm	-31.88 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.06243 GHz	-28.91 dBm	-15.91 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.74439 GHz	-45.30 dBm	-32.30 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73830 GHz	-41.49 dBm	-28.49 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.71111 GHz	-43.39 dBm	-30.39 dB

Date: 7.MAR.2024 07:41:48

Frequency Stability

Test Conditions		LTE Band 42 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0042	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.91 V；Battery End Point (BEP) =3.6 V；Maximum Voltage =4.3 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	23~25℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 42 / 20MHz / QPSK / Ant. 1								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6984	-63.04	-13	-50.04	-73.25	3.03	13.24	H
	10476	-60.54	-13	-47.54	-69.99	3.56	13.01	H
	13968	-62.59	-13	-49.59	-72.11	3.92	13.44	H
	6984	-65.47	-13	-52.47	-75.68	3.03	13.24	V
	10476	-53.82	-13	-40.82	-63.27	3.56	13.01	V
	13968	-62.43	-13	-49.43	-71.95	3.92	13.44	V

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