



# FCC RADIO TEST REPORT

**FCC ID** : 2A7DJ-2346766867652  
**Equipment** : Smart Radio LTE with Walkie-Talkie  
**Brand Name** : weavix  
**Model Name** : walt  
**Applicant** : PK Solutions LLC  
10811 E Harry St. Wichita, KS 67207, USA  
**Manufacturer** : Arima Communications (Jiangsu) Co., Ltd  
No.168, Jiaotong North Road, Economic and  
Technological Development Zone, Wujiang  
District Suzhou City, Jiangsu Province, P.R.China  
**Standard** : FCC 47 CFR Part 2, 27

The product was received on Jun. 16, 2022 and testing was performed from Jul. 22, 2022 to Sep. 14, 2022. 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

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issued Date
FG261611G	01	Initial issue of report	Sep. 22, 2022
FG261611G	02	Revise Equivalent Isotropic Radiated Power	Sep. 29, 2022

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (k)(3)	Equivalent Isotropic Radiated Power	Pass	
3.3	§27.50 (k)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	Pass	-
3.6	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	Pass	-
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	Pass	Under limit 10.20 dB at 13804.000 MHz

**Declaration of Conformity:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.  
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

**Comments and Explanations:**

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

**Reviewed by: Avis Chuang**

**Report Producer: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Feature	
HW Version	0910MB-003
SW Version	2.A.0025
Antenna Type	WWAN: PIFA Antenna WLAN: Loop Antenna Bluetooth: Loop Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna
Antenna Gain	LTE Band 42: 0.99 dBi

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

## 1.2 Modification of EUT

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



### 1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	<b>Sporton Site No.</b> TH03-HY
Test Engineer	HaoEn Zhang
Temperature (°C)	21.5~23.6
Relative Humidity (%)	52.5~54.6

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.	<b>Sporton Site No.</b> 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Tim Lee and Wilson Wu
Temperature (°C)	20~25
Relative Humidity (%)	50~60
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

### 1.4 Applicable Standards

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

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

**Remark:**

1. All 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.
3. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

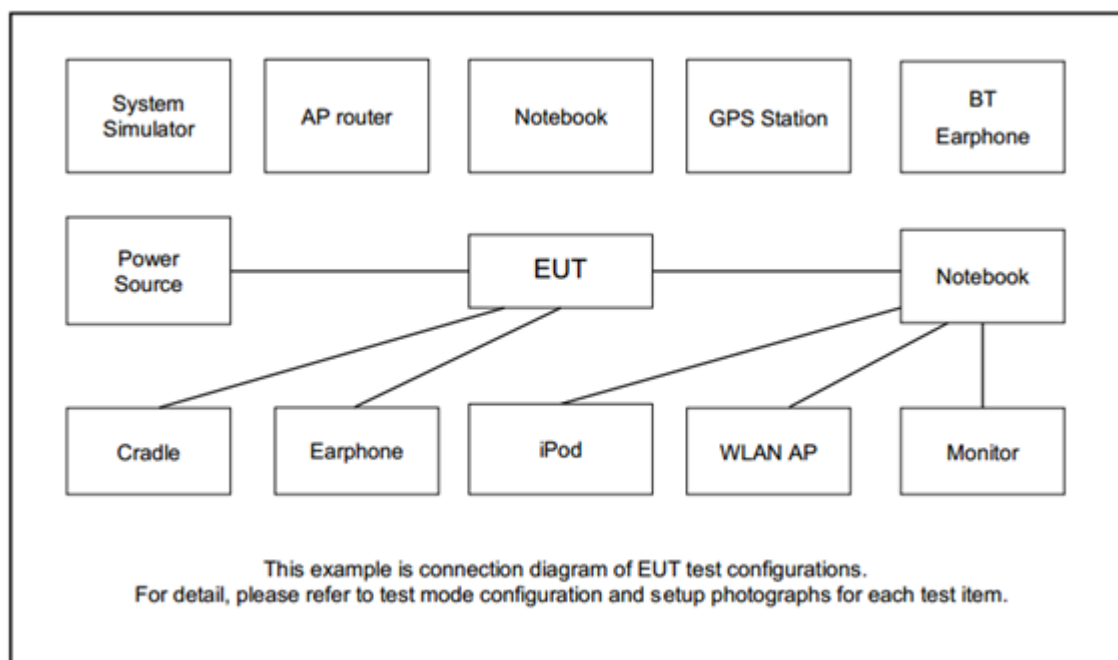
### 2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	42	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	42	-	-	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	42	-	-	v	v	v	v	v	v	v	v		v	v		v
Peak-to-Ave rage Ratio	42	-	-				v	v	v	v			v		v	
Conducted Spurious Emission	42	-	-	v	v	v	v	v			v			v	v	v
E.R.P / E.I.R.P	42	-	-	v	v	v	v	v	v	v	Max. Power					
Frequency Stability	42	-	-		v			v					v		v	
Radiated Spurious Emission	42	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. One representative bandwidth is selected to perform PAR and frequency stability.															

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	System Simulator	Anritsu	MT8821C	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 :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$





## 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	43115
	Frequency	3452.5	3500	3552.5

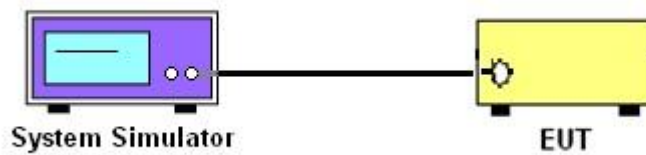
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

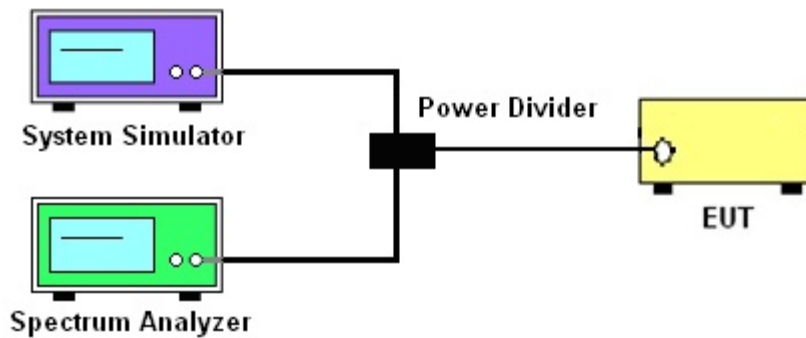
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

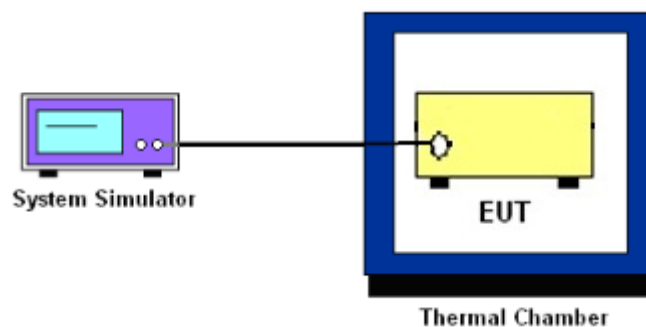
##### 3.1.2 Conducted Output Power



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



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power and EIRP

### 3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 42.

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.
5. The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.



### **3.3 Peak-to-Average Ratio**

#### **3.3.1 Description of the PAR Measurement**

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

#### **3.3.2 Test Procedures**

The testing follows ANSI C63.26-2015 Section 5.2.6

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



## **3.4 Occupied Bandwidth**

### **3.4.1 Description of Occupied Bandwidth Measurement**

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

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

### **3.4.2 Test Procedures**

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

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



## **3.5 Conducted Band Edge**

### **3.5.1 Description of Conducted Band Edge Measurement**

27.53 (n)(2)

(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 (n)(2) 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. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### **3.5.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. For  $EBW < 20\text{MHz}$ , set  $RBW \geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. For  $EBW \geq 20\text{MHz}$ , set  $RBW = 200\text{kHz}$  in the 1MHz band immediately outside and adjacent to the band edge.
5. Between 1 ~5 MHz from the band edge,  $RBW=500$  kHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

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



## **3.6 Conducted Spurious Emission**

### **3.6.1 Description of Conducted Spurious Emission Measurement**

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

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

### **3.6.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
3. The 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  $43 + 10\log(P)$ dB below the transmitter power P(Watts)



## **3.7 Frequency Stability**

### **3.7.1 Description of Frequency Stability Measurement**

27.54

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

### **3.7.2 Test Procedures for Temperature Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

### **3.7.3 Test Procedures for Voltage Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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



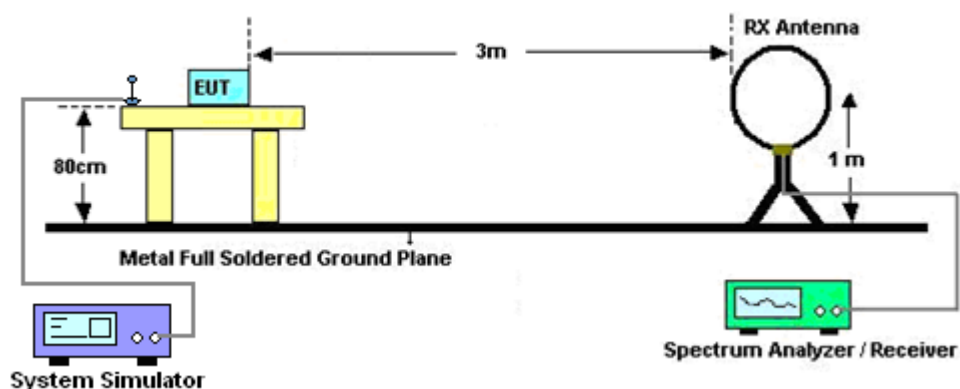
## 4 Radiated Test Items

### 4.1 Measuring Instruments

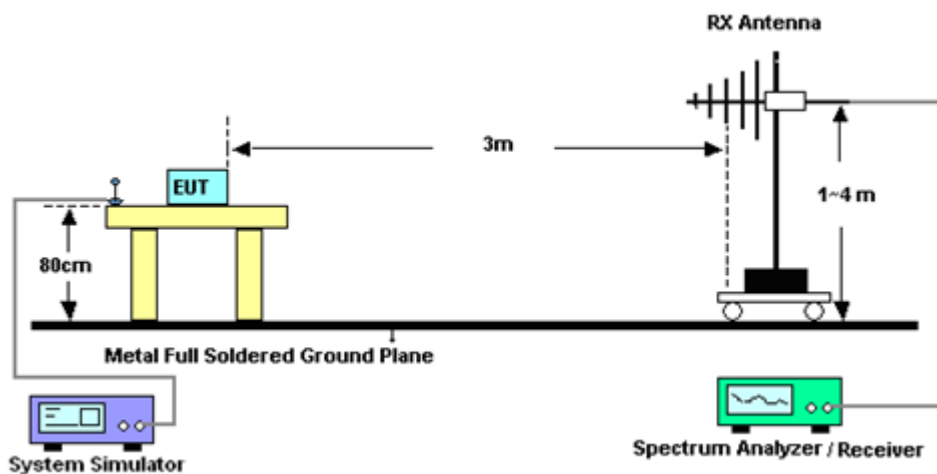
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

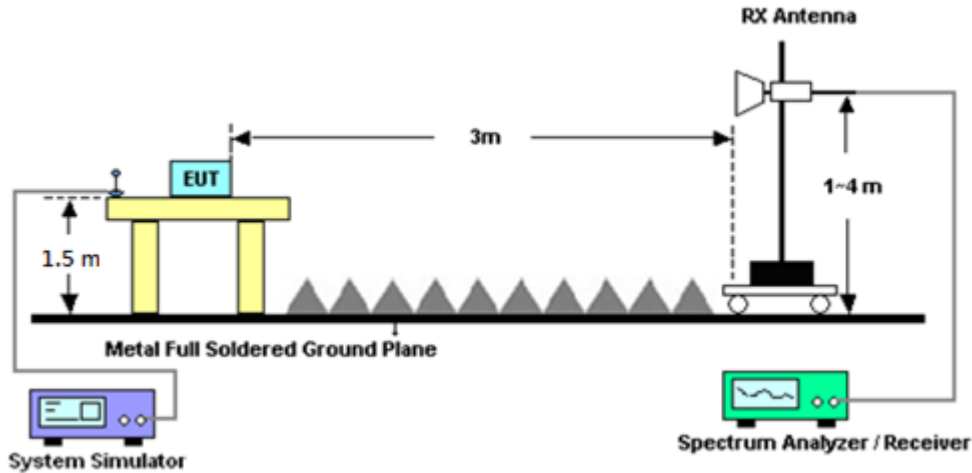
For radiated test below 30MHz



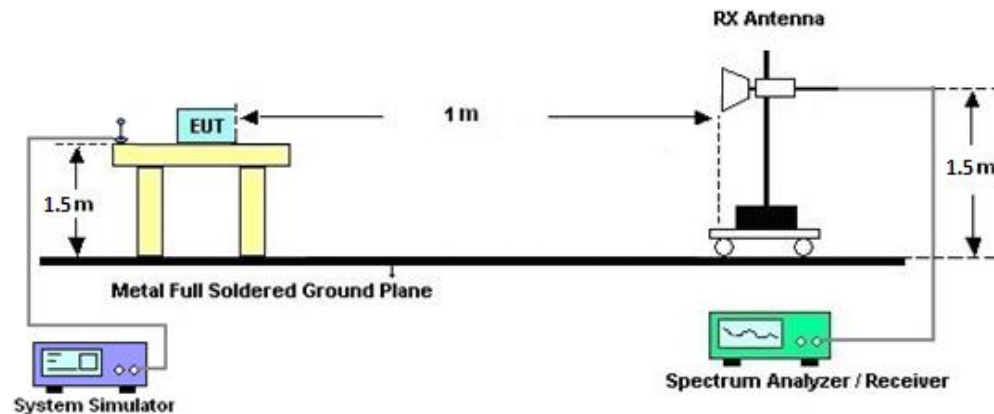
For radiated test from 30MHz to 1GHz



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  $43 + 10 \log (P)$  dB.

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

### **4.2.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Aug. 04, 2022~ Aug. 05, 2022	Sep. 06, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Aug. 04, 2022~ Aug. 05, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Aug. 04, 2022~ Aug. 05, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Aug. 04, 2022~ Aug. 05, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Aug. 04, 2022~ Aug. 05, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Aug. 04, 2022~ Aug. 05, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Aug. 04, 2022~ Aug. 05, 2022	May 13, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Aug. 04, 2022~ Aug. 05, 2022	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Aug. 04, 2022~ Aug. 05, 2022	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz-18GHz	Dec. 22, 2021	Aug. 04, 2022~ Aug. 05, 2022	Dec. 21, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900269	1GHz-18GHz	Dec. 27, 2021	Aug. 04, 2022~ Aug. 05, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Aug. 04, 2022~ Aug. 05, 2022	Dec. 23, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Aug. 04, 2022~ Aug. 05, 2022	Jan. 11, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Aug. 04, 2022~ Aug. 05, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Aug. 04, 2022~ Aug. 05, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Aug. 04, 2022~ Aug. 05, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Mar. 08, 2022	Aug. 04, 2022~ Aug. 05, 2022	Mar. 07, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 15, 2022	Aug. 04, 2022~ Aug. 05, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Aug. 04, 2022~ Aug. 05, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 04, 2022~ Aug. 05, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 04, 2022~ Aug. 05, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 04, 2022~ Aug. 05, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 04, 2022~ Aug. 05, 2022	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025280	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 29, 2021	Jul. 22, 2022~ Sep. 14, 2022	Oct. 28, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Oct. 01, 2021	Jul. 22, 2022~ Sep. 14, 2022	Sep. 30, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 09, 2021	Jul. 22, 2022~ Aug. 31, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 07, 2022	Sep. 14, 2022	Sep. 06, 2023	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V ; 0A~6A	Jan. 06, 2022	Jul. 22, 2022~ Sep. 14, 2022	Jan. 05, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Jul. 22, 2022~ Sep. 14, 2022	Jan. 06, 2023	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% ( $U = 2Uc(y)$ )	3.31 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.25 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.81 dB
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & EIRP)

LTE Band 42 Maximum Average Power [dBm] (GT - LC = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	21.07	21.16	21.30	22.29	0.1694
20	1	49		20.87	20.93	21.06		
20	1	99		20.88	20.87	21.09		
20	50	0		20.00	20.03	20.39		
20	50	24		19.95	20.04	20.27		
20	50	50		19.88	20.08	20.20		
20	100	0		19.96	20.06	20.26		
20	1	0	16-QAM	20.21	20.31	20.46	21.45	0.1396
20	1	49		20.00	20.20	20.20		
20	1	99		20.02	20.11	20.24		
20	50	0		19.11	19.21	19.47		
20	50	24		19.05	19.23	19.37		
20	50	50		19.00	19.26	19.29		
20	100	0		19.06	19.24	19.35		
20	1	0	64-QAM	19.17	19.20	19.18	20.19	0.1045
20	1	49		18.87	18.91	18.94		
20	1	99		18.88	18.85	18.98		
20	50	0		18.16	18.22	18.47		
20	50	24		18.29	18.22	18.37		
20	50	50		18.22	18.26	18.30		
20	100	0		18.21	18.23	18.38		
Limit	EIRP < 1W			Result			Pass	



LTE Band 42 Maximum Average Power [dBm] (GT - LC = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	21.02	21.07	21.22	22.21	0.1663
15	1	37		20.83	20.91	21.02		
15	1	74		20.80	20.77	21.08		
15	36	0		19.94	19.94	20.36		
15	36	20		19.88	20.01	20.22		
15	36	39		19.81	20.00	20.17		
15	75	0		19.90	19.99	20.20		
15	1	0	16-QAM	20.21	20.30	20.41	21.40	0.1380
15	1	37		19.92	20.18	20.10		
15	1	74		19.96	20.11	20.14		
15	36	0		19.01	19.20	19.37		
15	36	20		18.95	19.17	19.32		
15	36	39		18.90	19.24	19.21		
15	75	0		19.00	19.17	19.25		
15	1	0	64-QAM	19.10	19.20	19.16	20.19	0.1045
15	1	37		18.80	18.87	18.84		
15	1	74		18.80	18.75	18.94		
15	36	0		18.12	18.22	18.38		
15	36	20		18.26	18.13	18.32		
15	36	39		18.17	18.17	18.27		
15	75	0		18.13	18.13	18.34		
Limit	EIRP < 1W			Result			Pass	





LTE Band 42 Maximum Average Power [dBm] (GT - LC = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	21.05	21.08	21.21	22.20	0.1660
10	1	25		20.77	20.88	21.01		
10	1	49		20.79	20.81	21.04		
10	25	0		19.91	20.03	20.31		
10	25	12		19.93	19.97	20.25		
10	25	25		19.84	19.98	20.13		
10	50	0		19.86	19.96	20.17		
10	1	0	16-QAM	20.21	20.29	20.44	21.43	0.1390
10	1	25		19.91	20.10	20.20		
10	1	49		19.92	20.09	20.20		
10	25	0		19.07	19.11	19.45		
10	25	12		19.05	19.16	19.30		
10	25	25		18.99	19.23	19.19		
10	50	0		19.06	19.20	19.27		
10	1	0	64-QAM	19.17	19.18	19.12	20.17	0.1040
10	1	25		18.80	18.91	18.94		
10	1	49		18.82	18.81	18.88		
10	25	0		18.11	18.13	18.47		
10	25	12		18.29	18.18	18.32		
10	25	25		18.22	18.25	18.27		
10	50	0		18.15	18.18	18.35		
Limit	EIRP < 1W			Result			Pass	



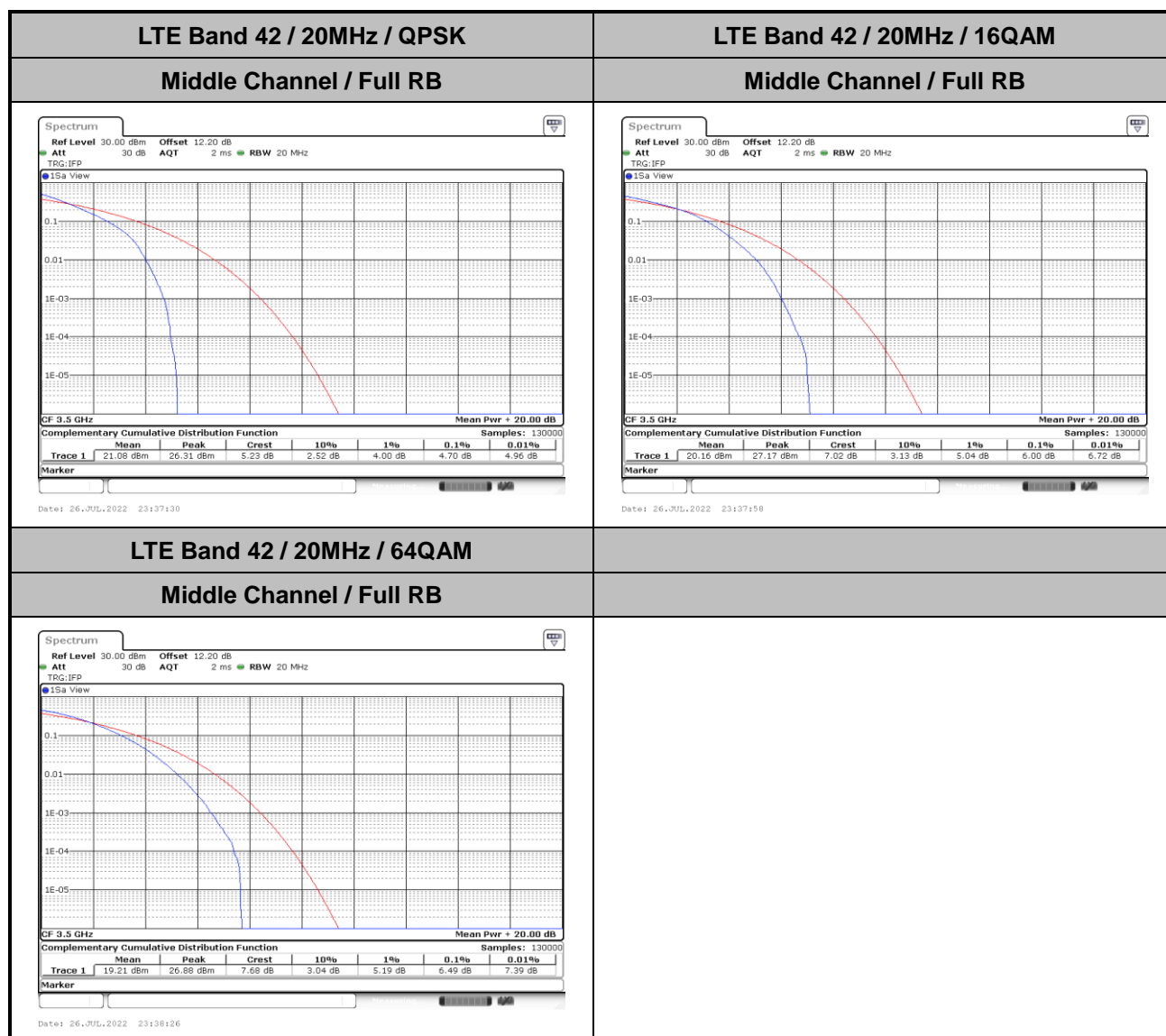
LTE Band 42 Maximum Average Power [dBm] (GT - LC = 0.99 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.04	21.09	21.21	22.20	0.1660
5	1	12		20.82	20.84	21.06		
5	1	24		20.84	20.82	21.05		
5	12	0		19.92	20.00	20.31		
5	12	7		19.92	19.94	20.23		
5	12	13		19.78	19.98	20.14		
5	25	0		19.90	19.97	20.17		
5	1	0	16-QAM	20.16	20.29	20.44	21.43	0.1390
5	1	12		19.93	20.10	20.12		
5	1	24		19.95	20.01	20.24		
5	12	0		19.11	19.17	19.42		
5	12	7		18.96	19.15	19.34		
5	12	13		18.91	19.23	19.29		
5	25	0		19.04	19.14	19.28		
5	1	0	64-QAM	19.09	19.18	19.10	20.17	0.1040
5	1	12		18.83	18.88	18.93		
5	1	24		18.78	18.82	18.94		
5	12	0		18.16	18.17	18.45		
5	12	7		18.25	18.14	18.33		
5	12	13		18.19	18.17	18.22		
5	25	0		18.13	18.16	18.29		
Limit	EIRP < 1W			Result			Pass	



## LTE Band 42

## Peak-to-Average Ratio

Mode	LTE Band 42 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.70	6.00	6.49	PASS



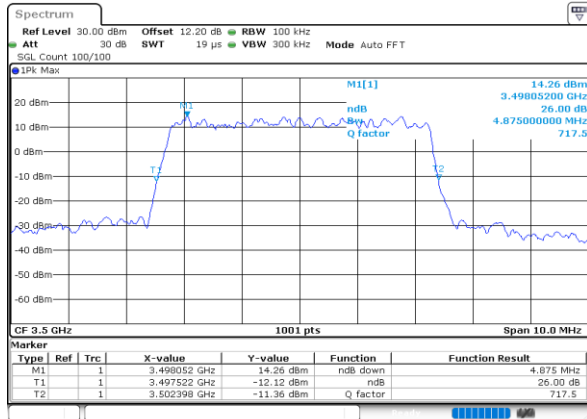
**26dB Bandwidth**

Mode	LTE Band 42 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	4.82	9.71	9.61	14.27	14.18	18.66	18.70
Mode	LTE Band 42 : 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	-	-	-	-	4.88	-	9.59	-	14.30	-	18.98	-

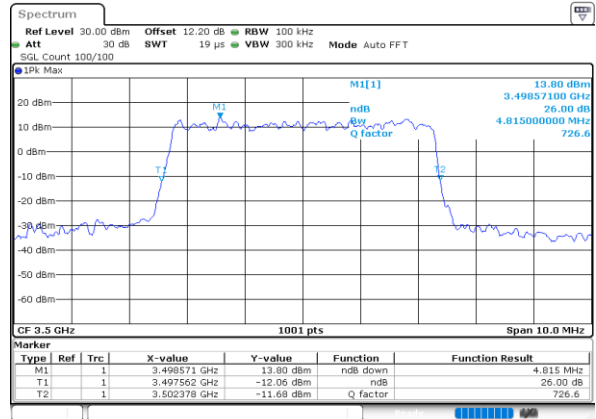


## LTE Band 42

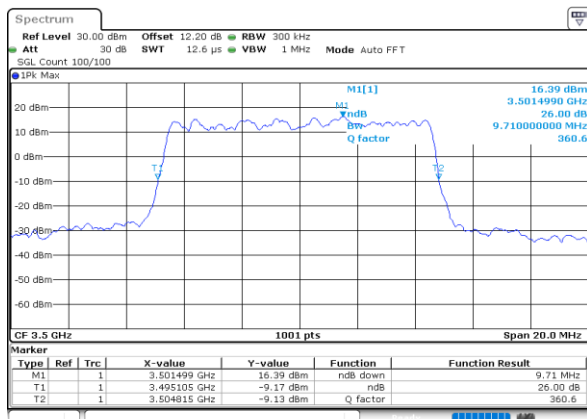
## Middle Channel / 5MHz / QPSK



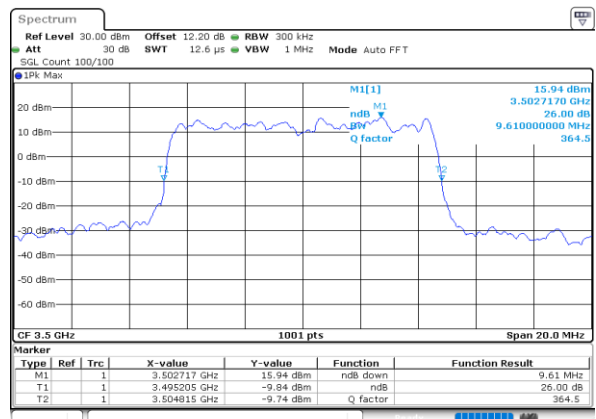
## Middle Channel / 5MHz / 16QAM



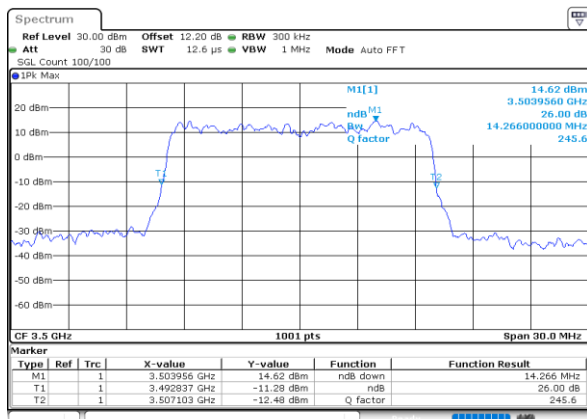
## Middle Channel / 10MHz / QPSK



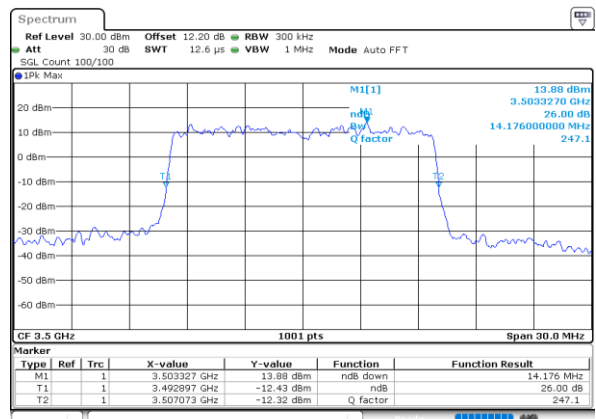
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK



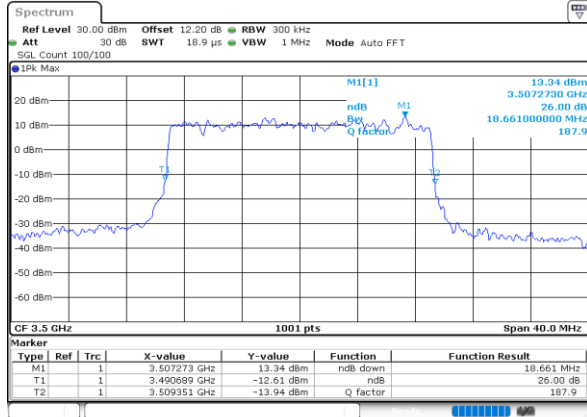
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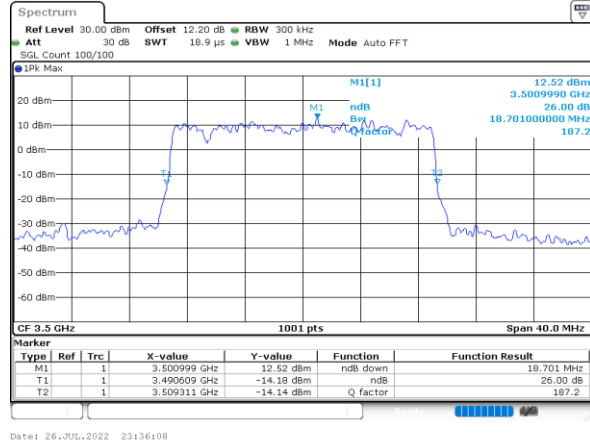


## LTE Band 42

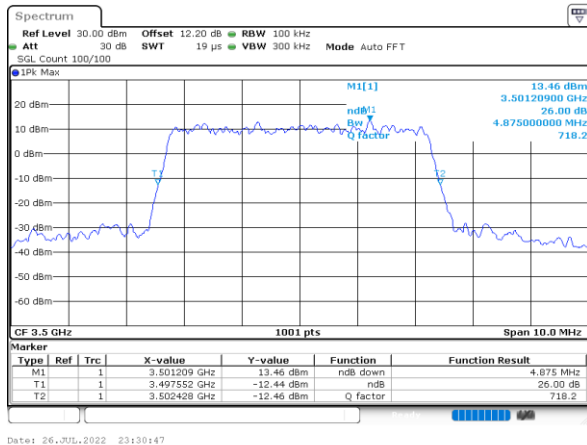
## Middle Channel / 20MHz / QPSK



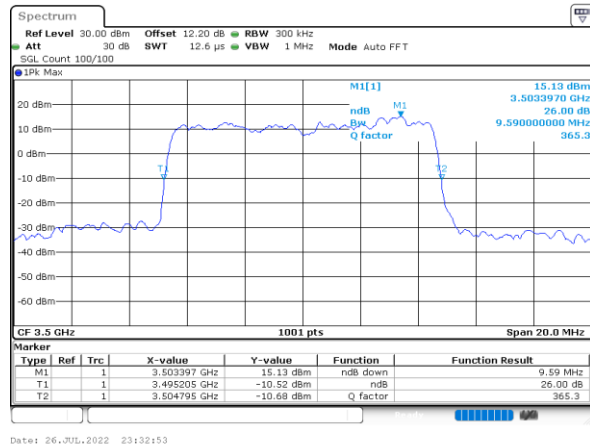
## Middle Channel / 20MHz / 16QAM



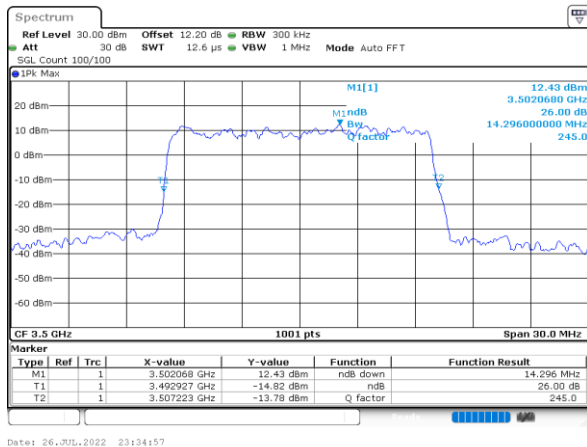
## Middle Channel / 5MHz / 64QAM



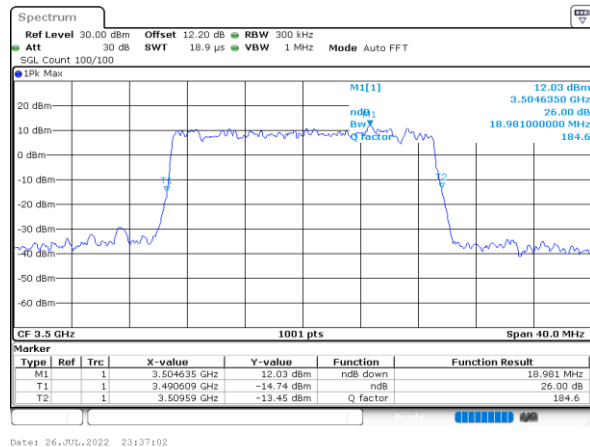
## Middle Channel / 10MHz / 64QAM



## Middle Channel / 15MHz / 64QAM



## Middle Channel / 20MHz / 64QAM



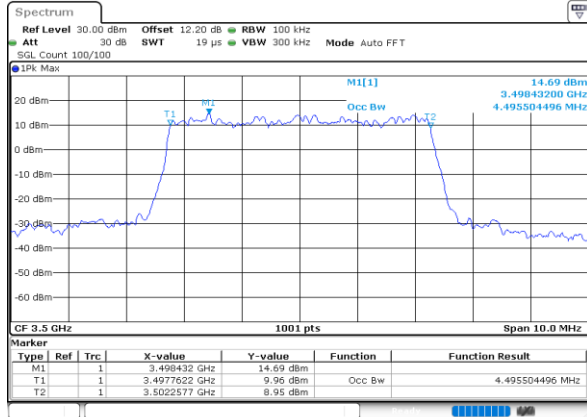
**Occupied Bandwidth**

Mode	LTE Band 42 : 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	-	-	-	-	4.50	4.50	8.97	9.01	13.46	13.46	17.86	17.86
Mode	LTE Band 42 : 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	-	-	-	-	4.49	-	9.01	-	13.49	-	17.82	-

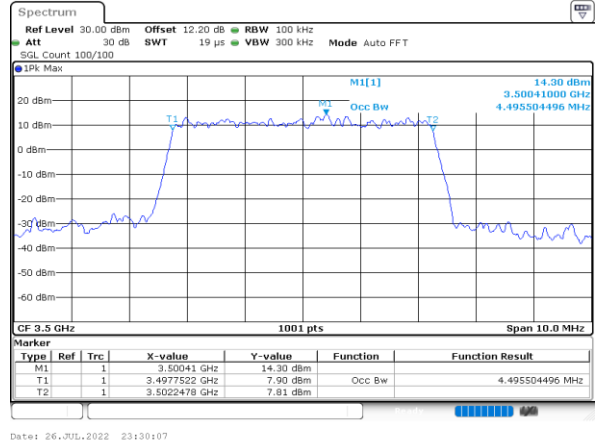


## LTE Band 42

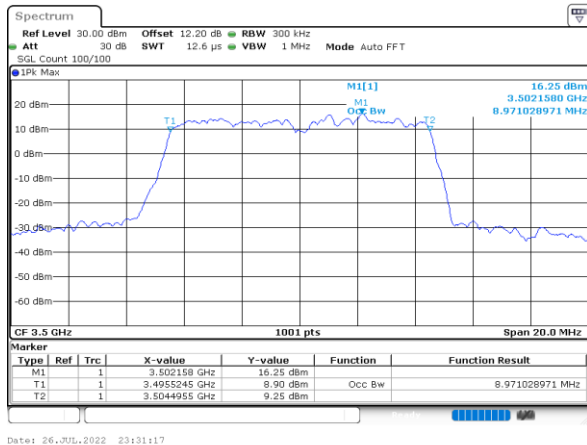
## Middle Channel / 5MHz / QPSK



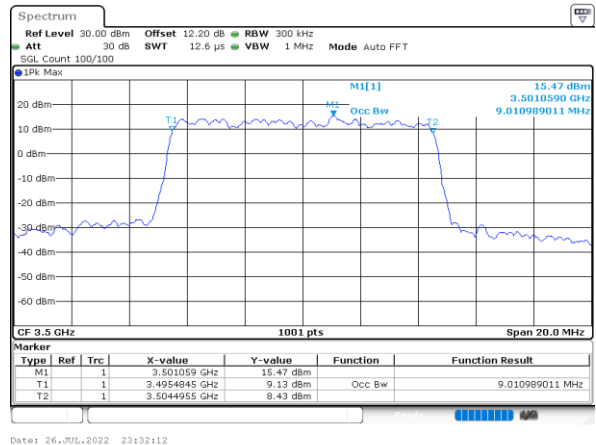
## Middle Channel / 5MHz / 16QAM



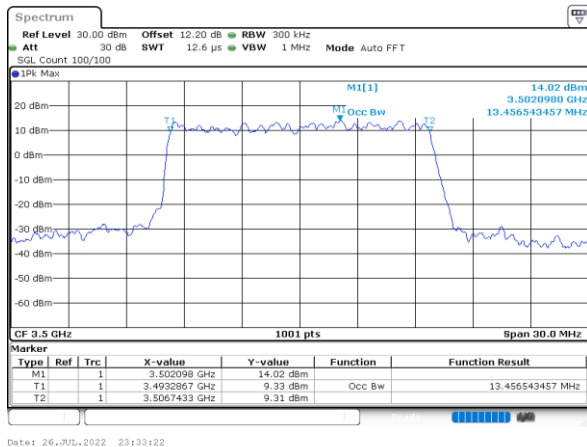
## Middle Channel / 10MHz / QPSK



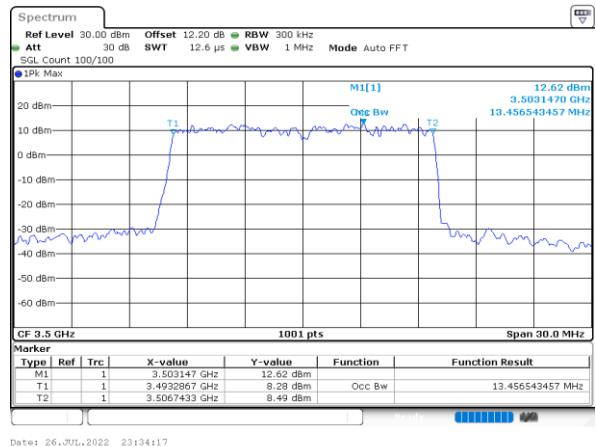
## Middle Channel / 10MHz / 16QAM



## Middle Channel / 15MHz / QPSK



## Middle Channel / 15MHz / 16QAM

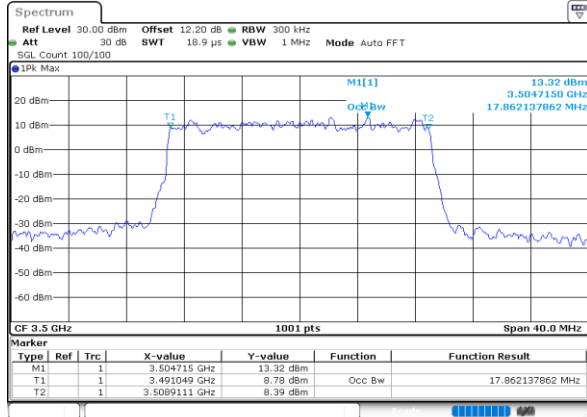




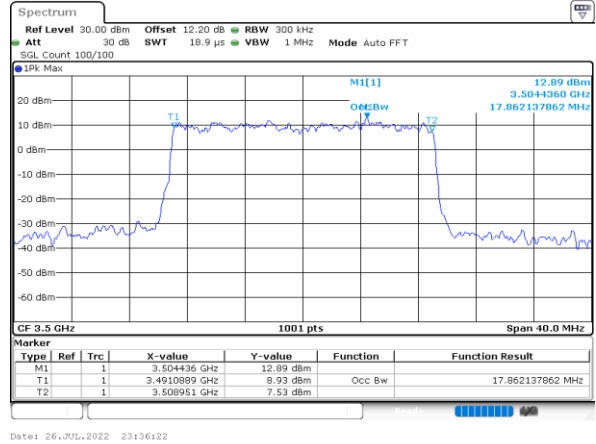


## LTE Band 42

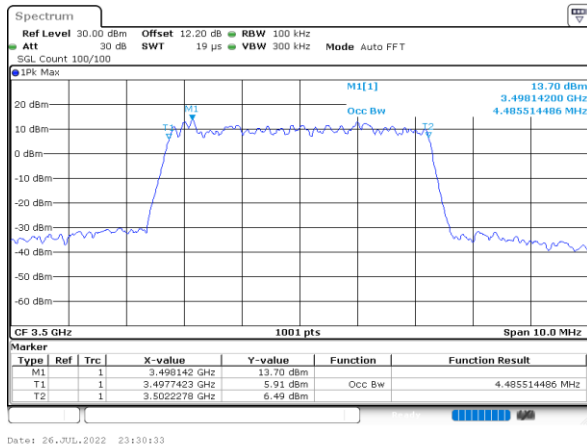
## Middle Channel / 20MHz / QPSK



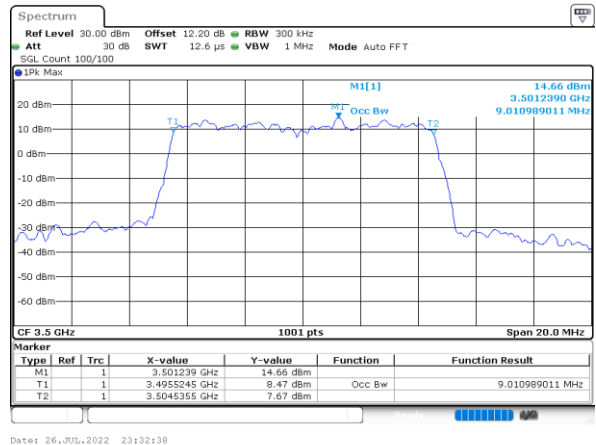
## Middle Channel / 20MHz / 16QAM



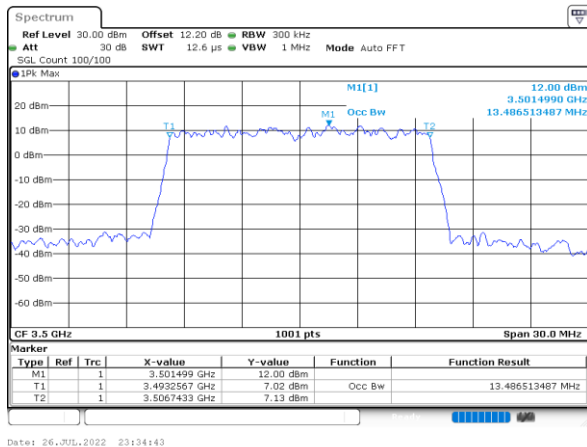
## Middle Channel / 5MHz / 64QAM



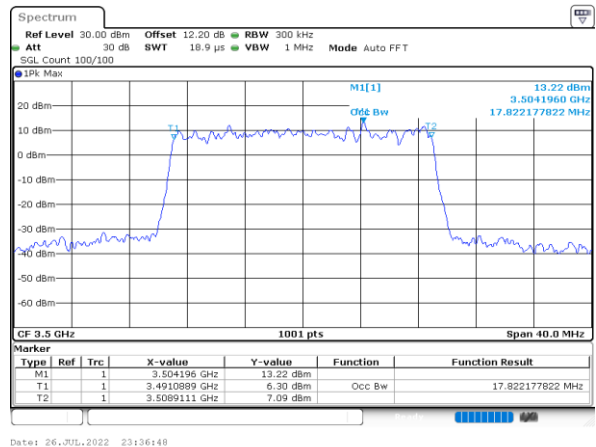
## Middle Channel / 10MHz / 64QAM



## Middle Channel / 15MHz / 64QAM



## Middle Channel / 20MHz / 64QAM

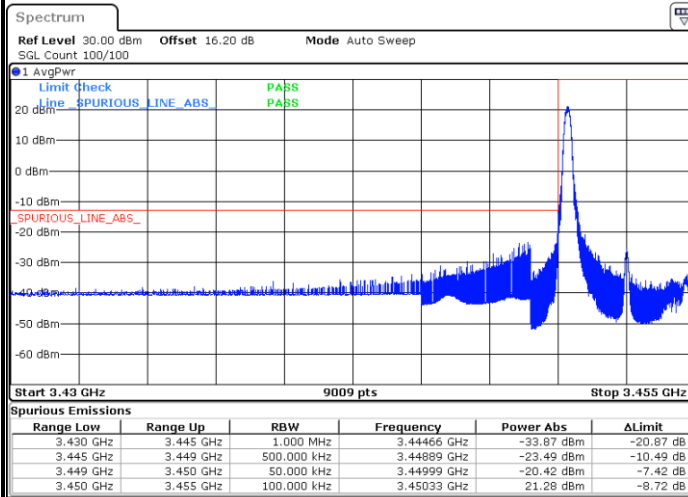




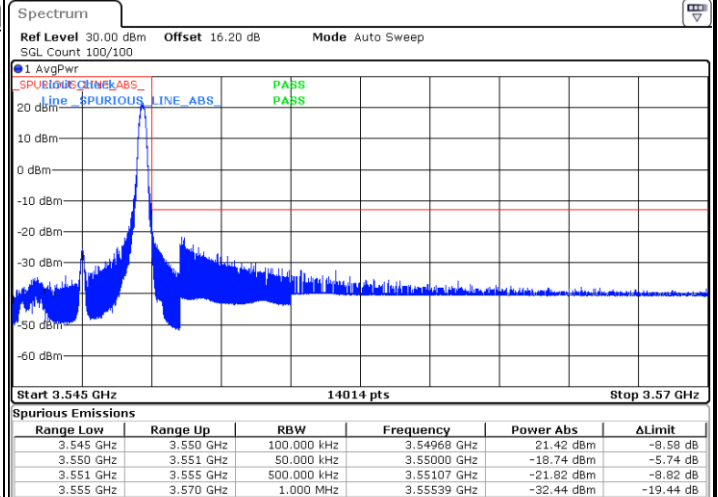
# Conducted Band Edge

## LTE Band 42 / 5MHz / QPSK

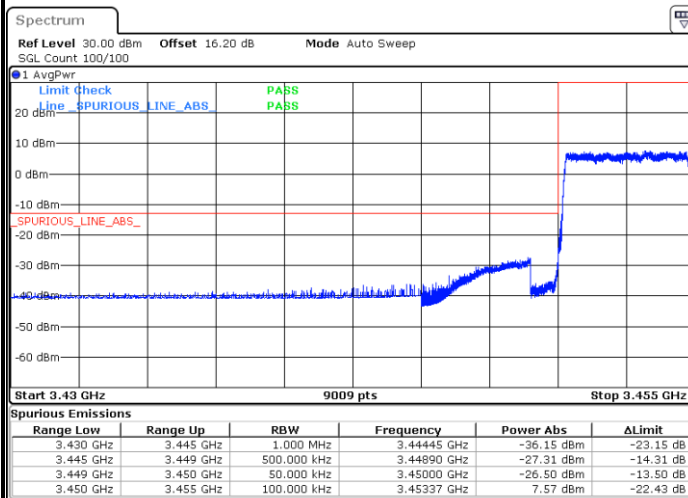
### Lowest Band Edge / 1 RB



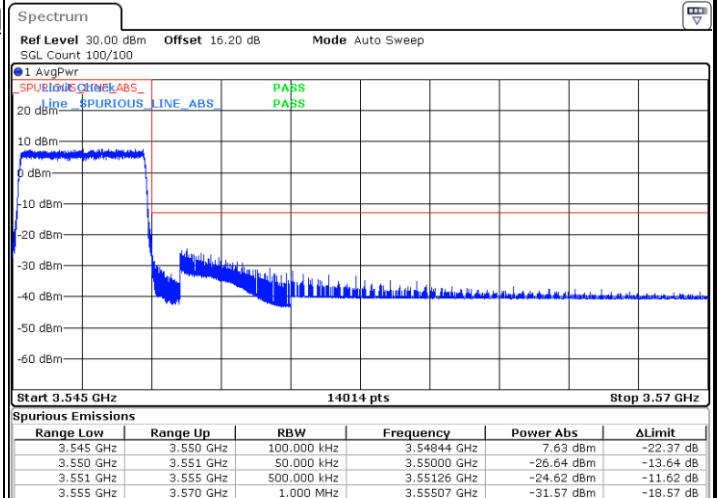
### Highest Band Edge / 1 RB



### Lowest Band Edge / Full RB



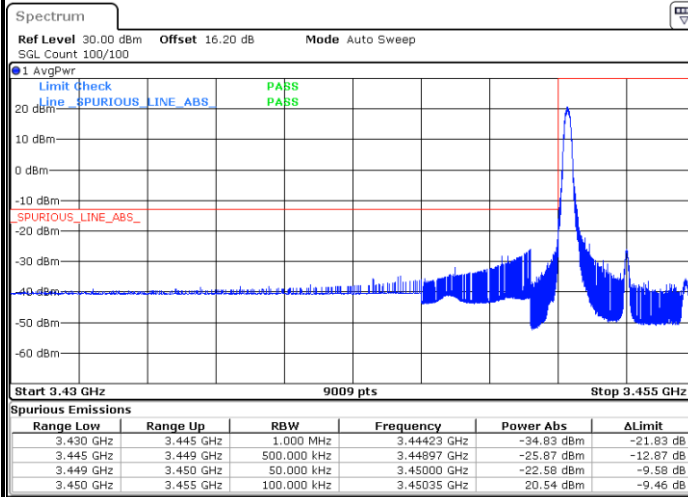
### Highest Band Edge / Full RB





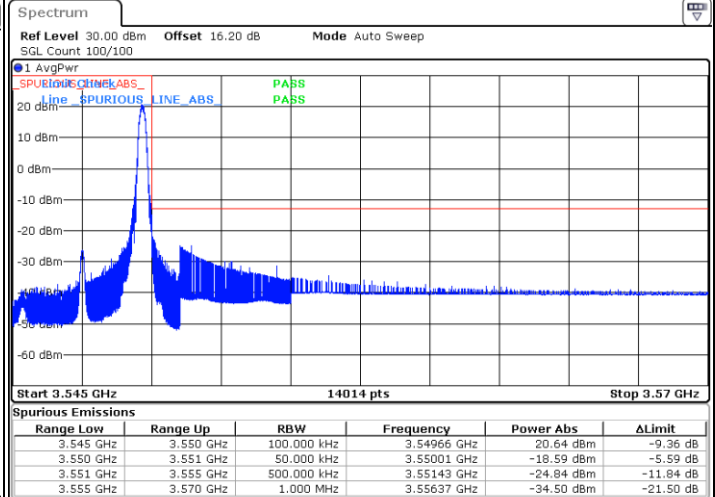
## LTE Band 42 / 5MHz / 16QAM

## Lowest Band Edge / 1RB



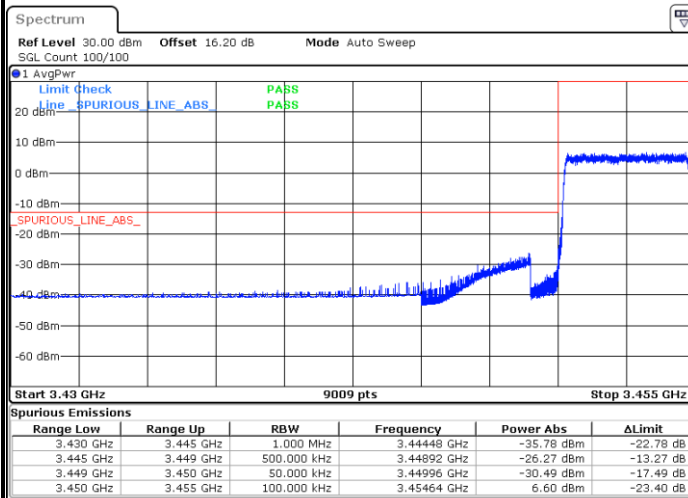
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## Highest Band Edge / 1 RB



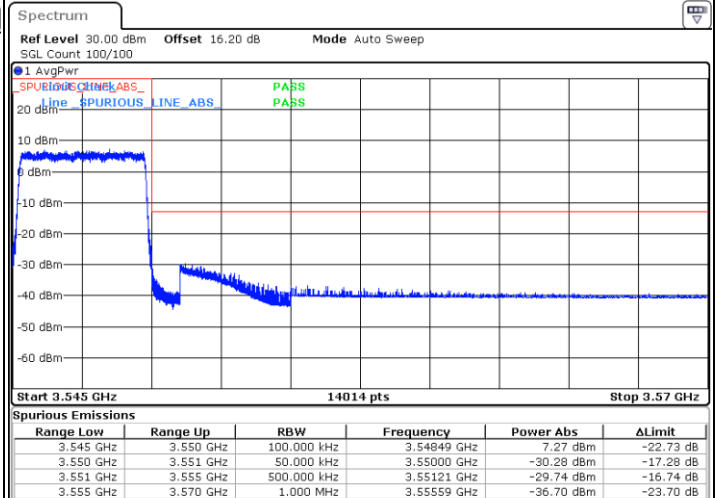
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## Lowest Band Edge / Full RB



Date: 26.JUL.2022 22:28:25

## Highest Band Edge / Full RB

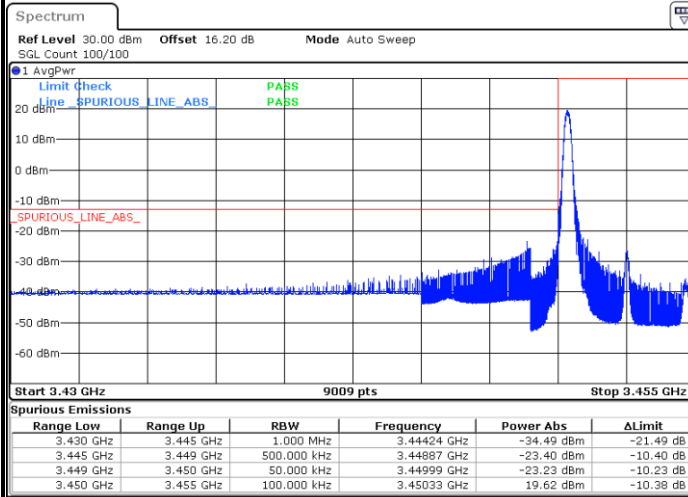


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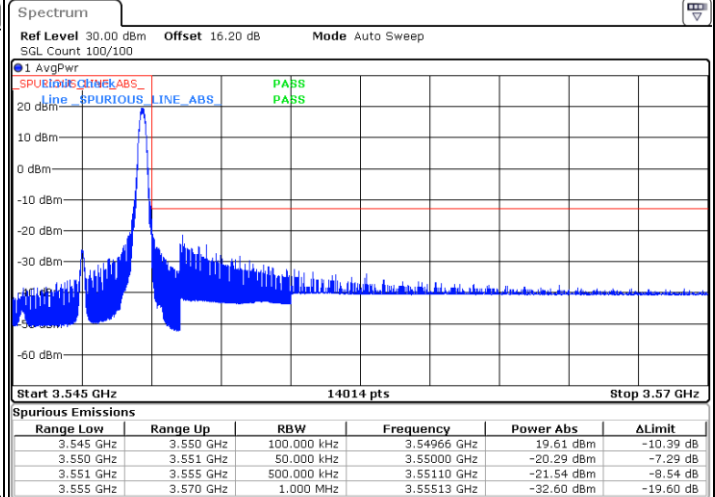
## LTE Band 42 / 5MHz / 64QAM

## Lowest Band Edge / 1RB



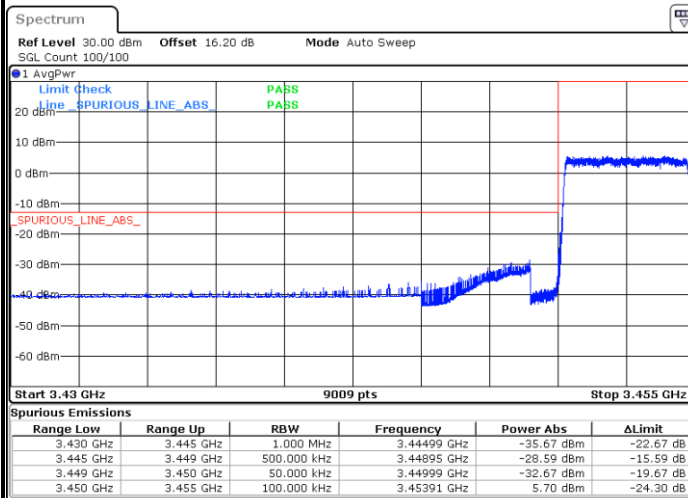
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## Highest Band Edge / 1 RB



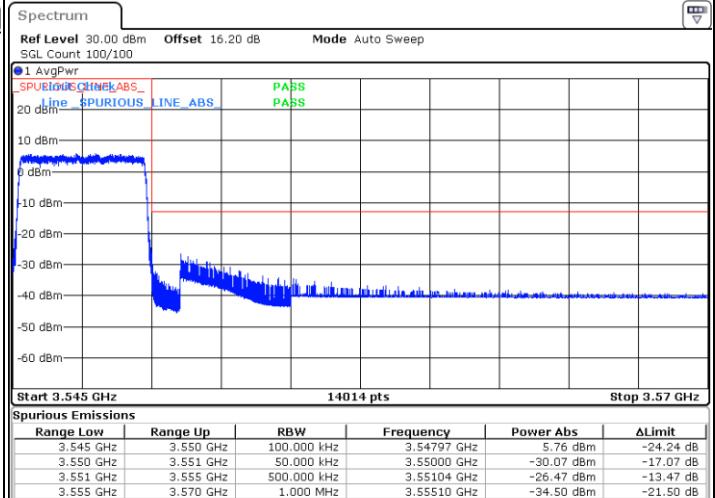
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## Lowest Band Edge / Full RB



Date: 26.JUL.2022 22:29:27

## Highest Band Edge / Full RB

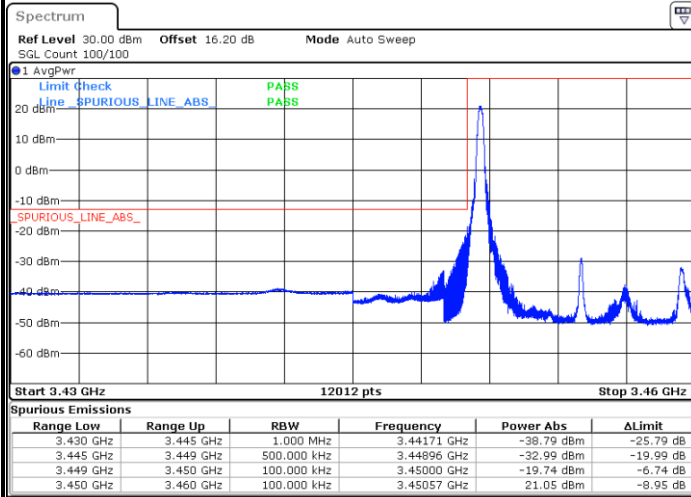


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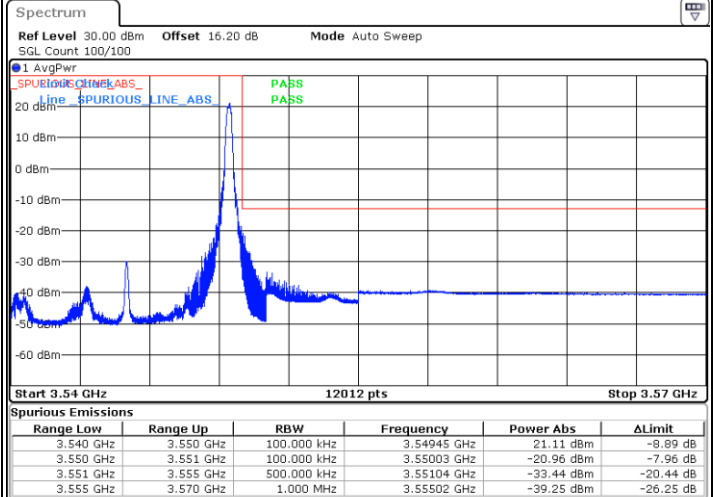
## LTE Band 42 / 10MHz / QPSK

## Lowest Band Edge / 1 RB



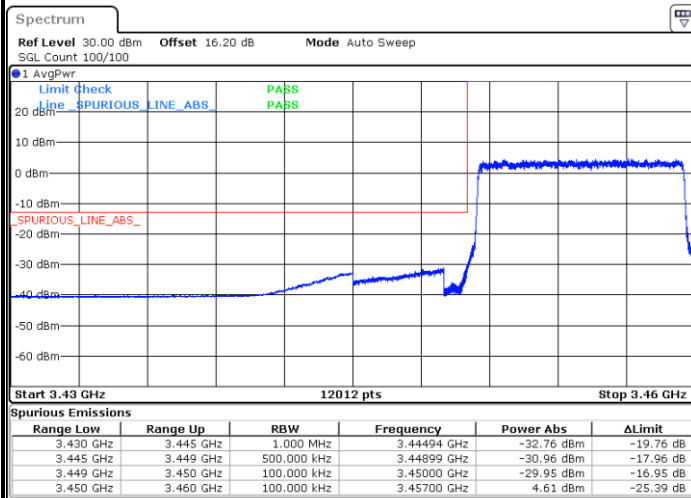
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## Highest Band Edge / 1 RB



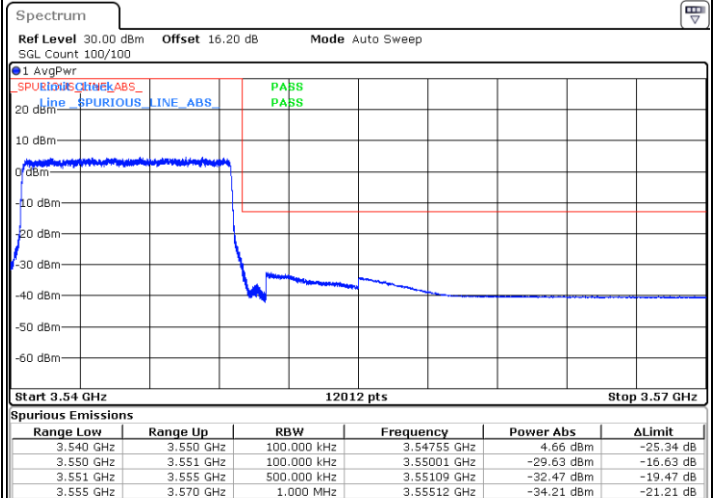
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## Lowest Band Edge / Full RB



Date: 26.JUL.2022 22:43:50

## Highest Band Edge / Full RB

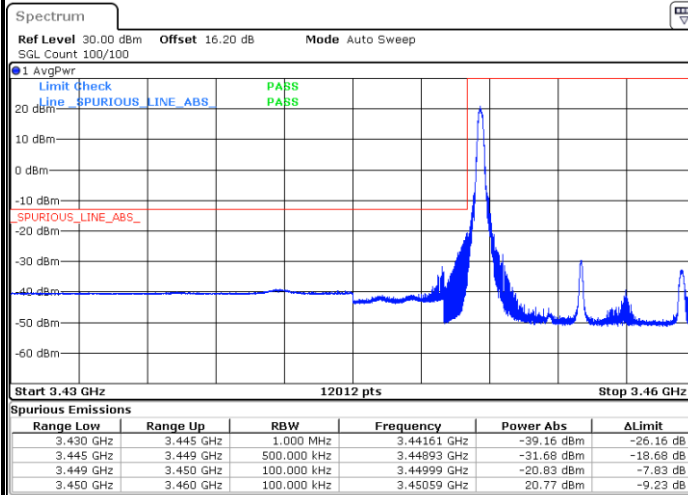


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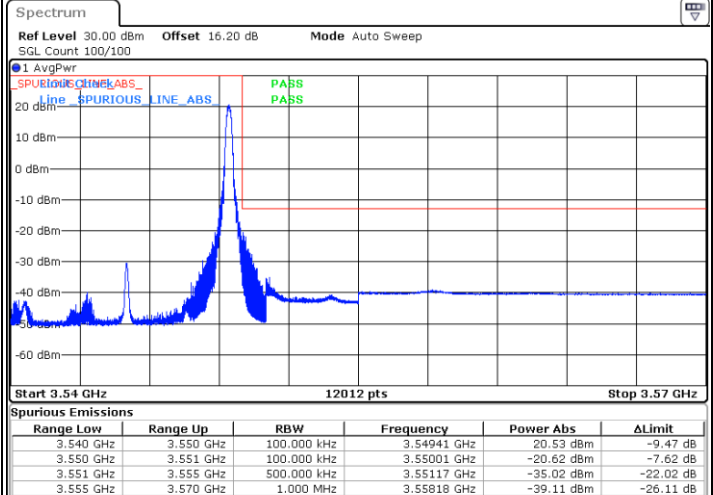
## LTE Band 42 / 10MHz / 16QAM

## Lowest Band Edge / 1 RB



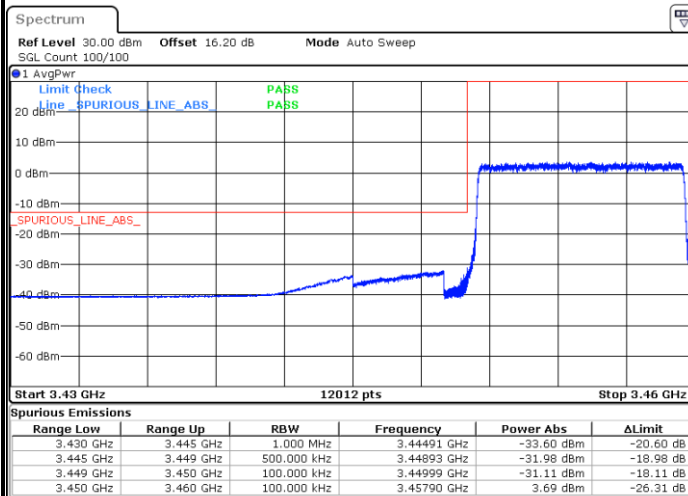
Date: 26.JUL.2022 22:41:48

## Highest Band Edge / 1 RB



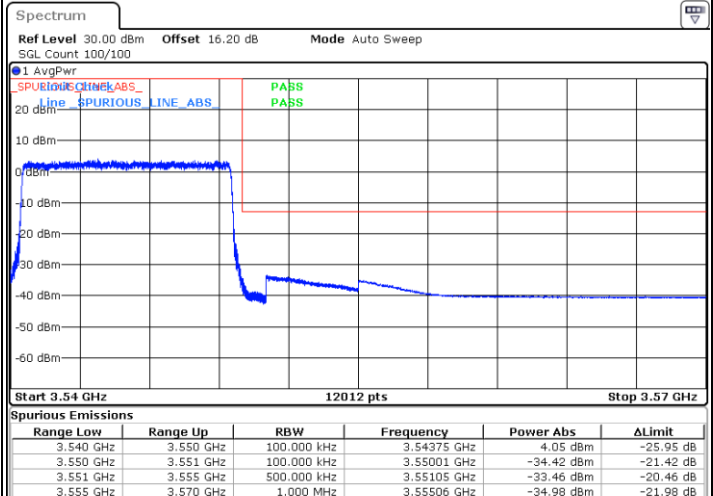
Date: 26.JUL.2022 22:50:58

## Lowest Band Edge / Full RB



Date: 26.JUL.2022 22:44:52

## Highest Band Edge / Full RB

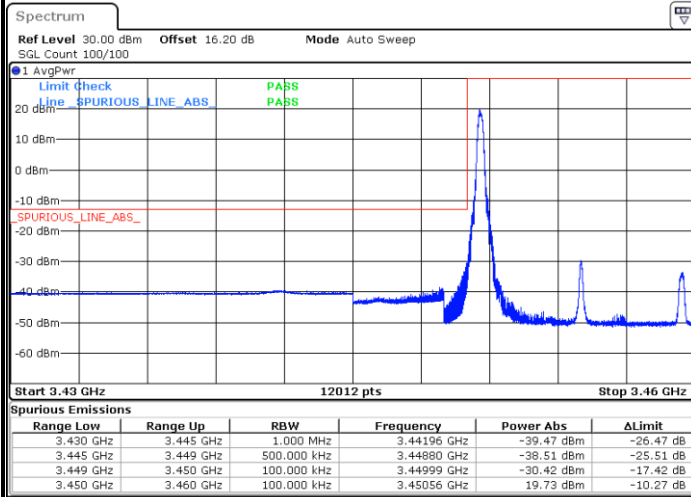


Date: 26.JUL.2022 22:47:55



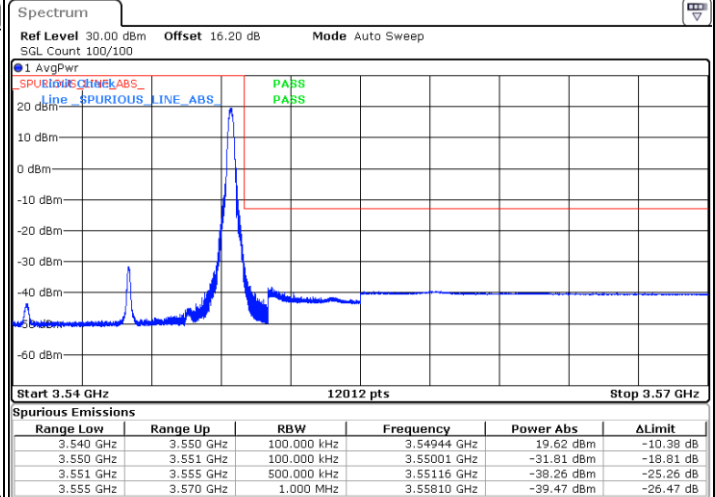
## LTE Band 42 / 10MHz / 64QAM

## Lowest Band Edge / 1 RB



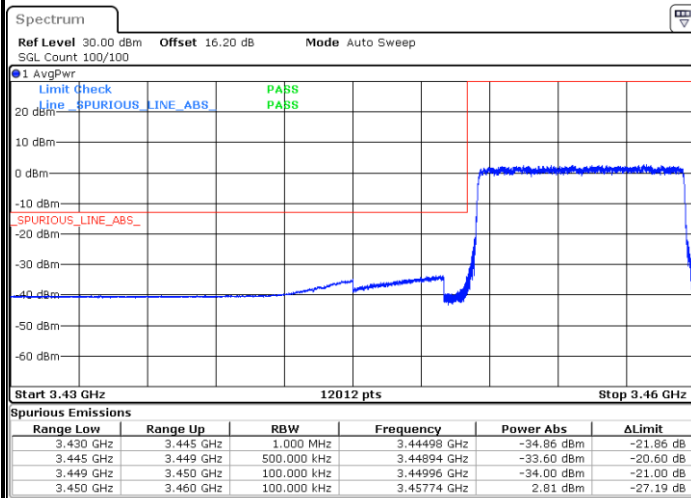
Date: 26.JUL.2022 22:42:49

## Highest Band Edge / 1 RB



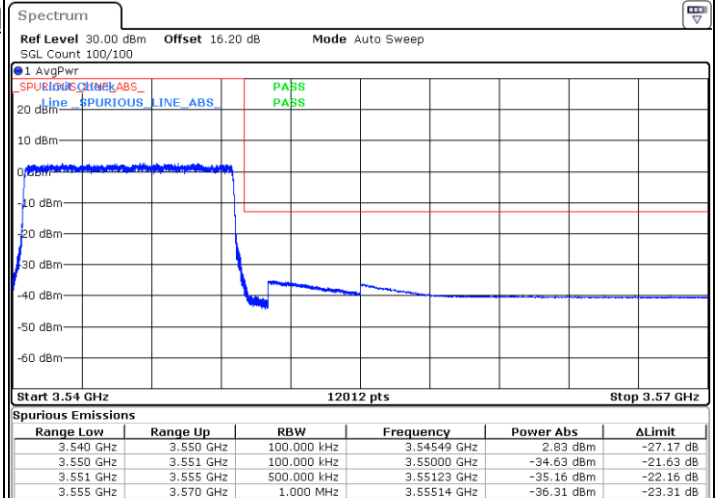
Date: 26.JUL.2022 22:51:59

## Lowest Band Edge / Full RB



Date: 26.JUL.2022 22:45:53

## Highest Band Edge / Full RB

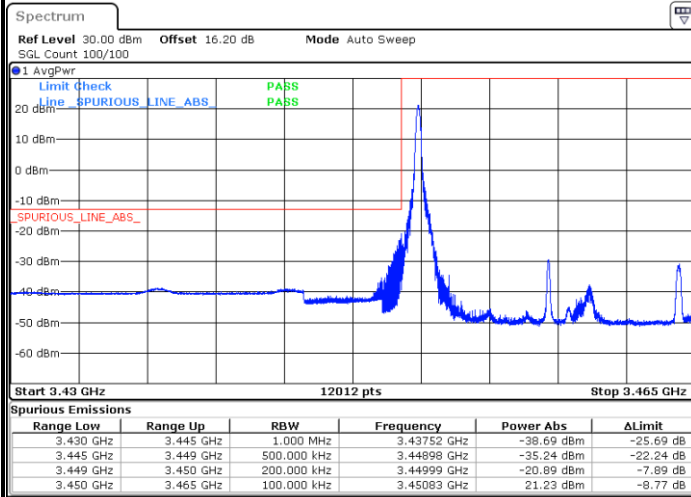


Date: 26.JUL.2022 22:48:56



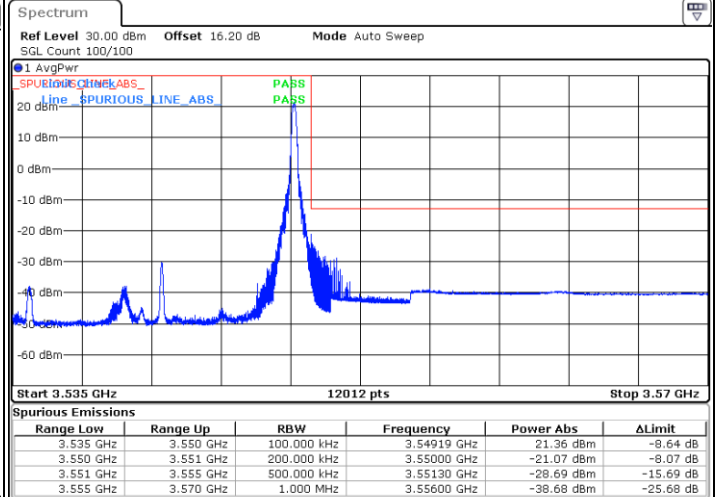
## LTE Band 42 / 15MHz / QPSK

## Lowest Band Edge / 1 RB



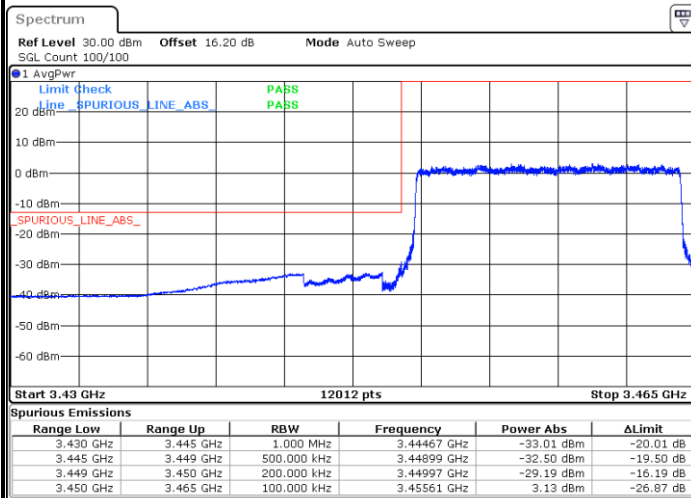
Date: 26.JUL.2022 22:57:04

## Highest Band Edge / 1 RB



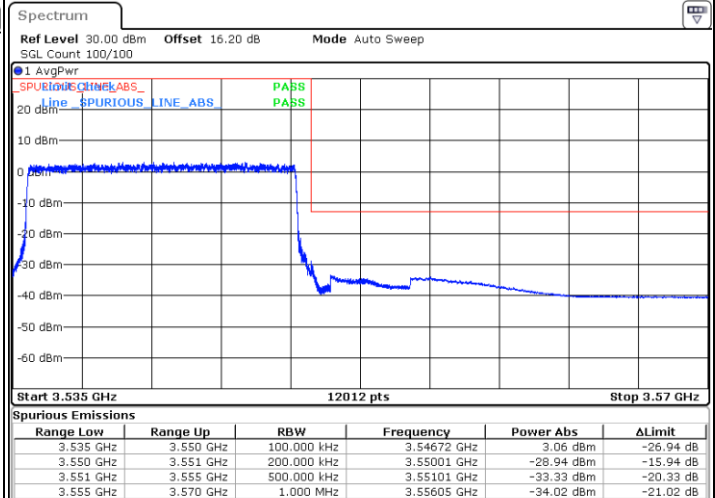
Date: 26.JUL.2022 23:06:20

## Lowest Band Edge / Full RB



Date: 26.JUL.2022 23:00:07

## Highest Band Edge / Full RB



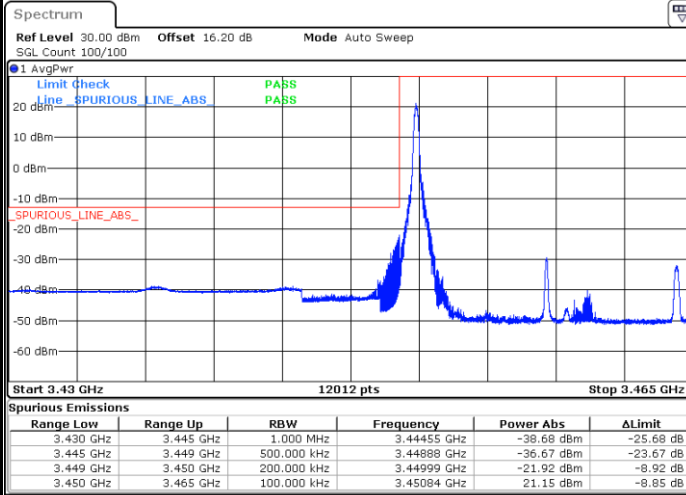
Date: 26.JUL.2022 23:03:12



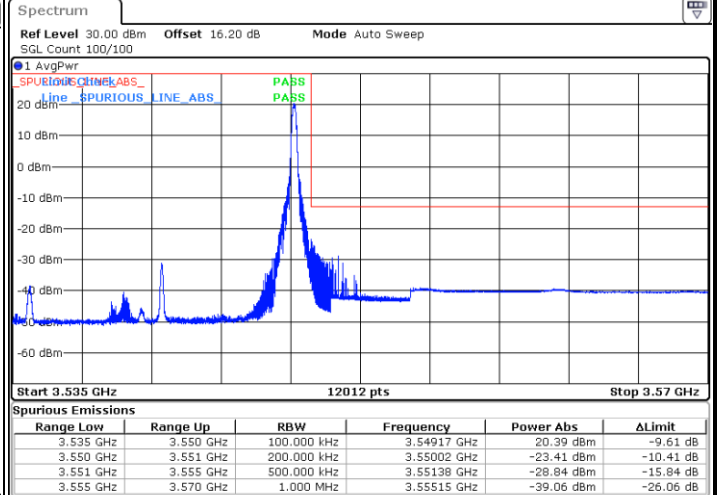


## LTE Band 42 / 15MHz / 16QAM

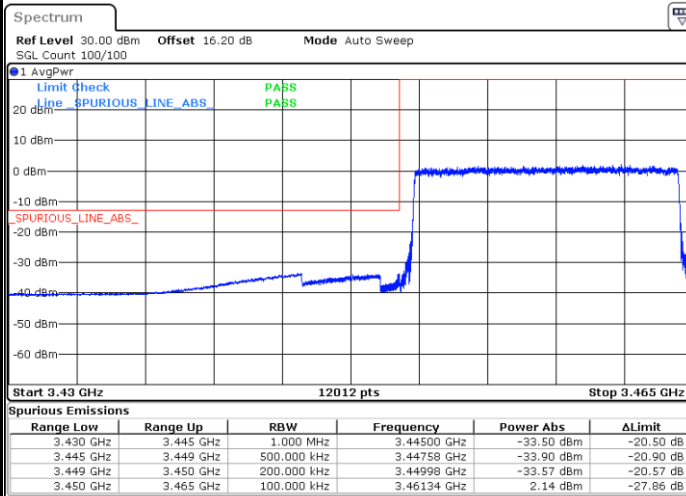
## Lowest Band Edge / 1 RB



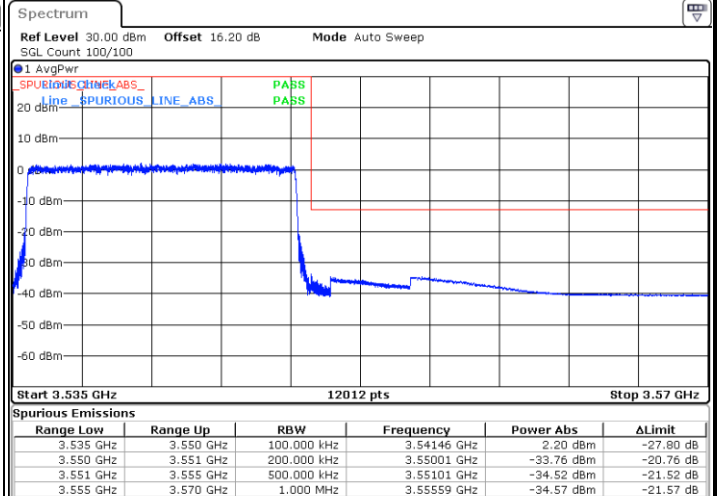
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



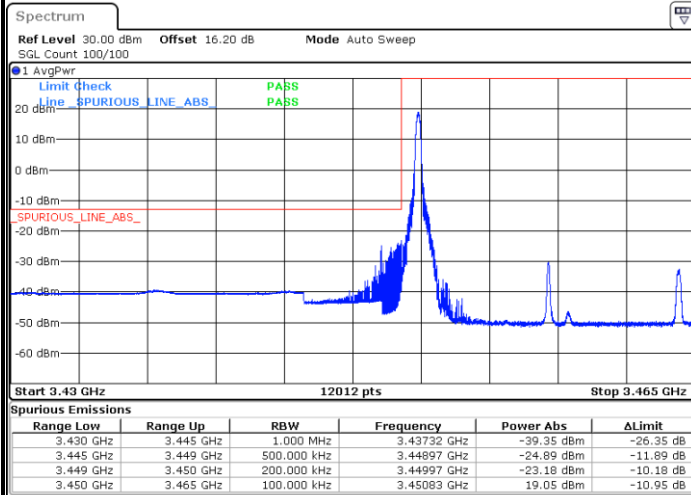
## Highest Band Edge / Full RB



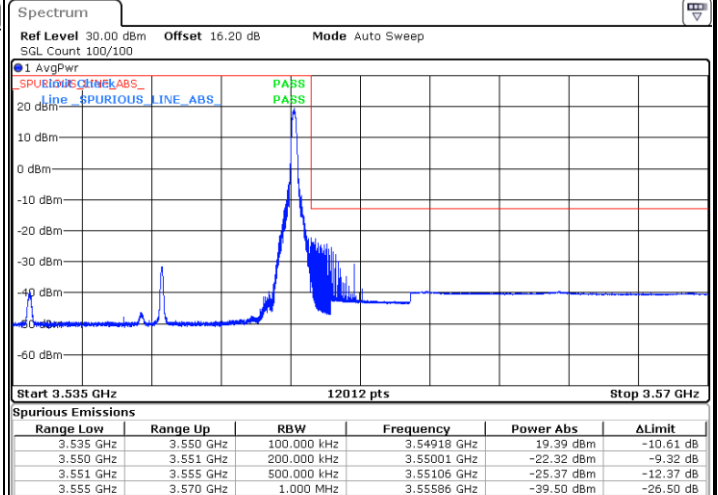


## LTE Band 42 / 15MHz / 64QAM

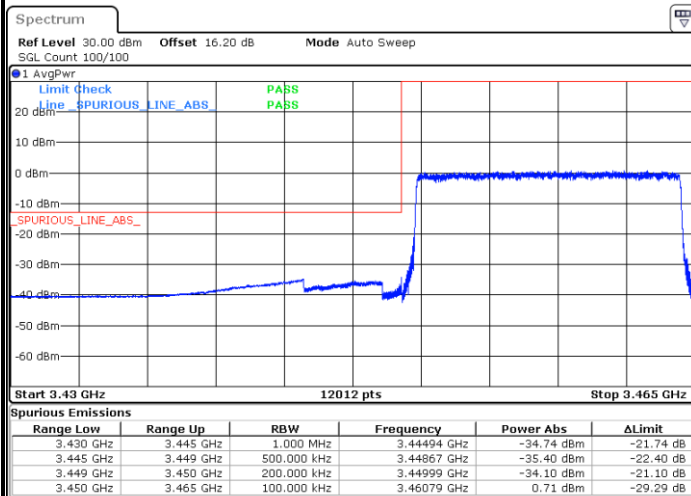
## Lowest Band Edge / 1 RB



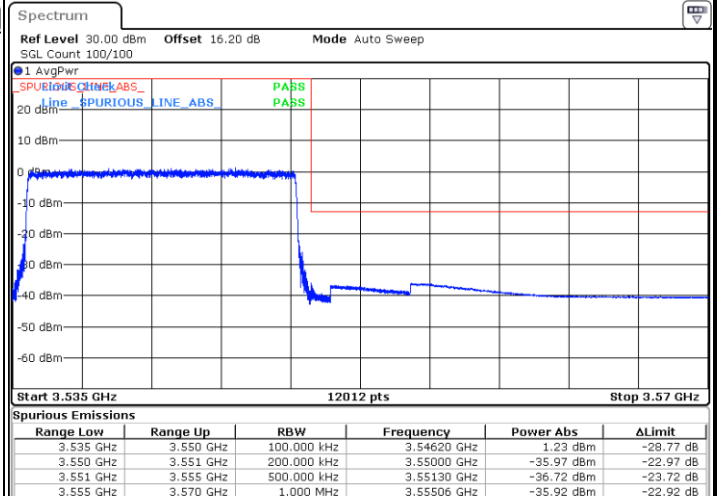
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



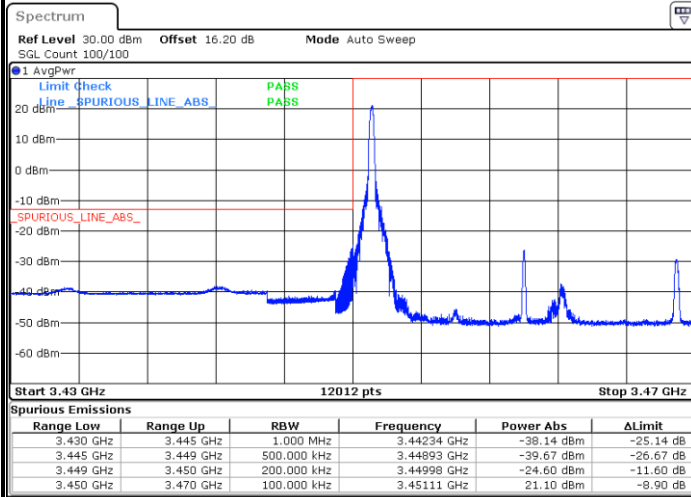
## Highest Band Edge / Full RB



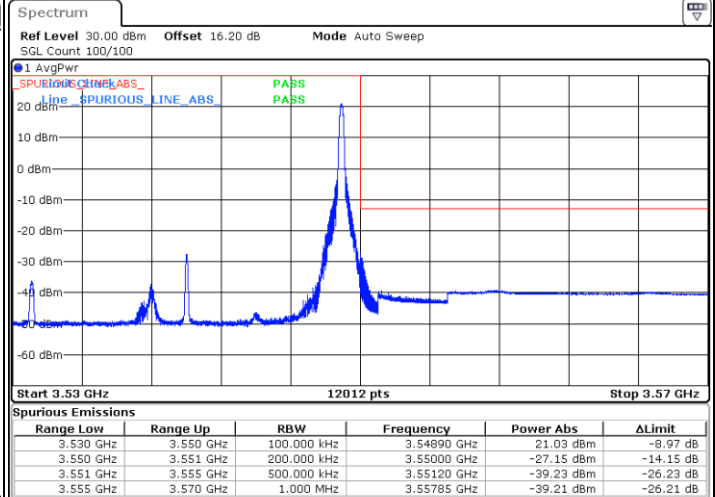


## LTE Band 42 / 20MHz / QPSK

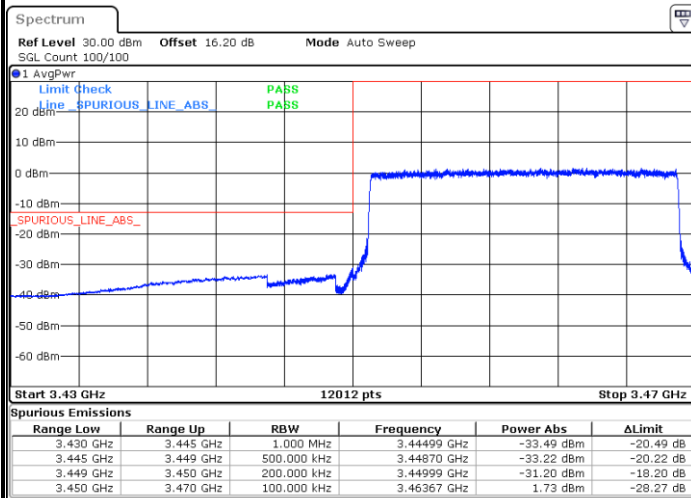
## Lowest Band Edge / 1 RB



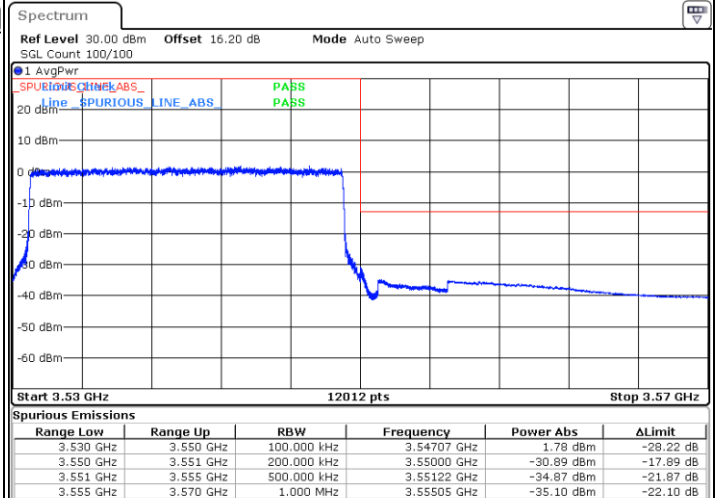
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



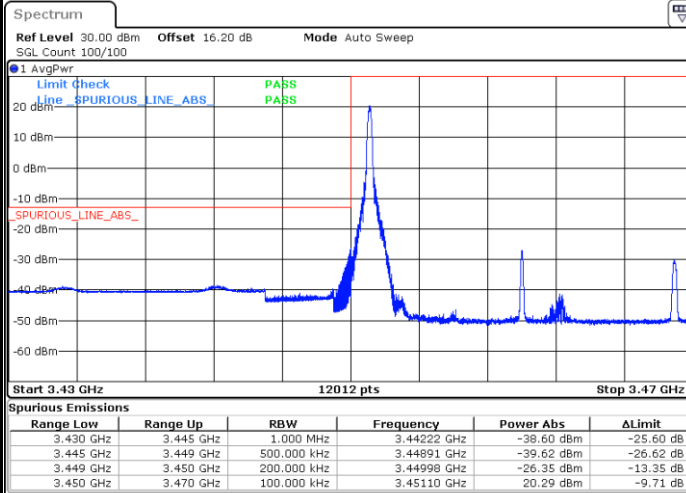
## Highest Band Edge / Full RB



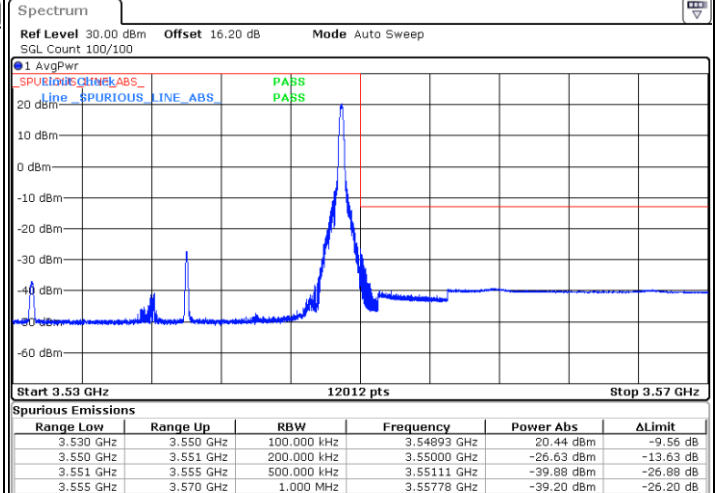


## LTE Band 42 / 20MHz / 16QAM

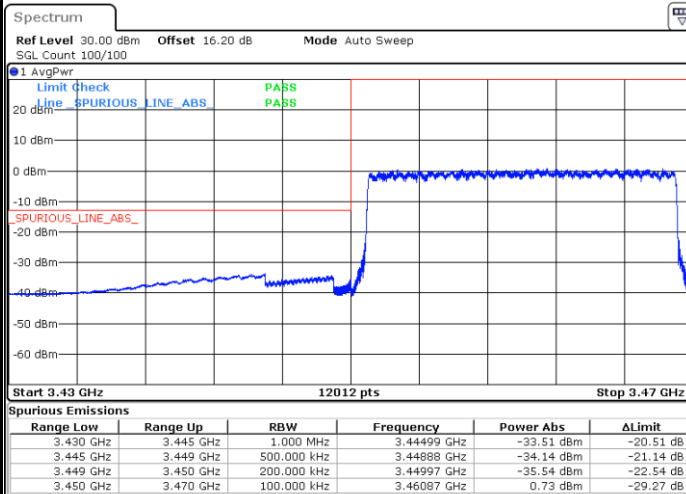
## Lowest Band Edge / 1 RB



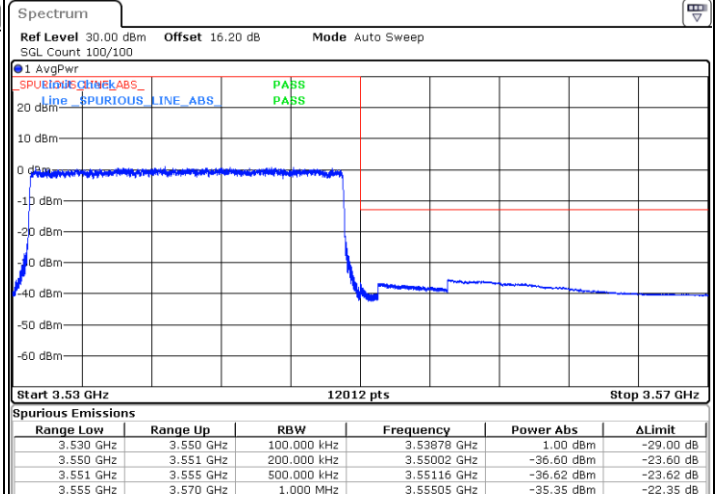
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



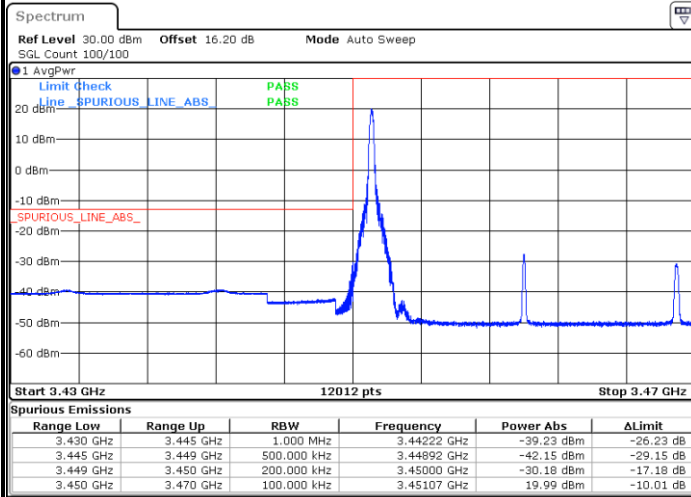
## Highest Band Edge / Full RB



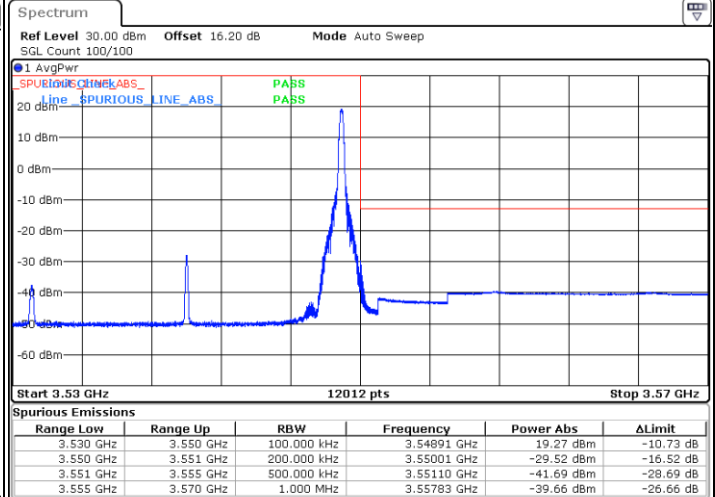


## LTE Band 42 / 20MHz / 64QAM

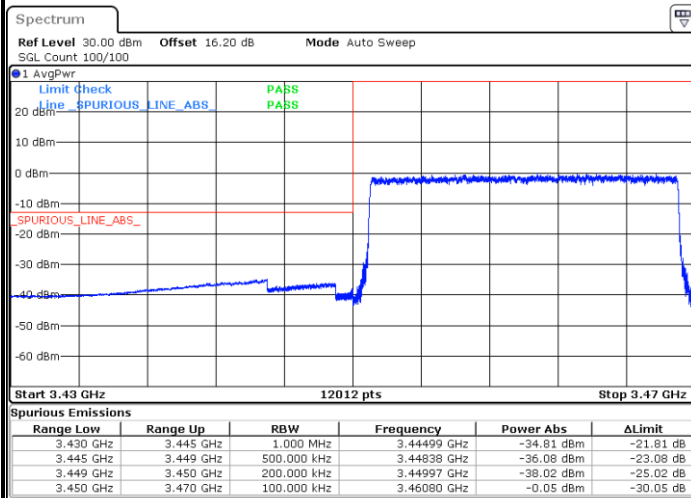
## Lowest Band Edge / 1 RB



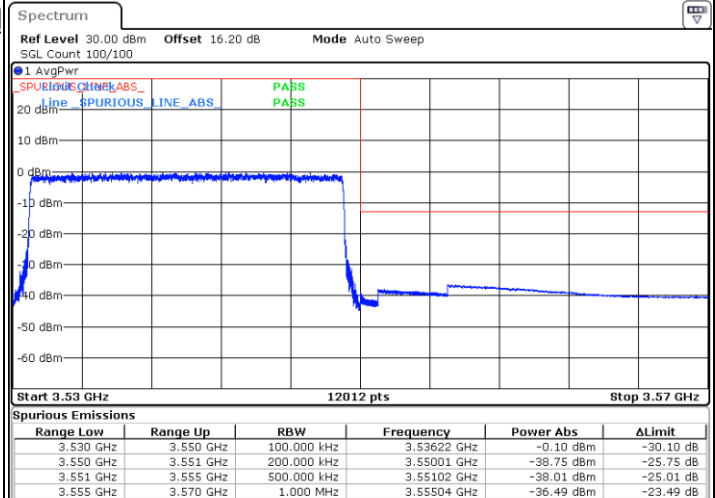
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

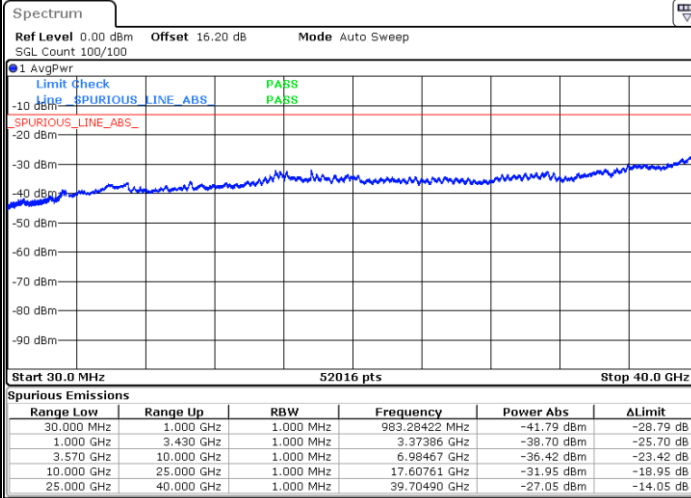




# Conducted Spurious Emission

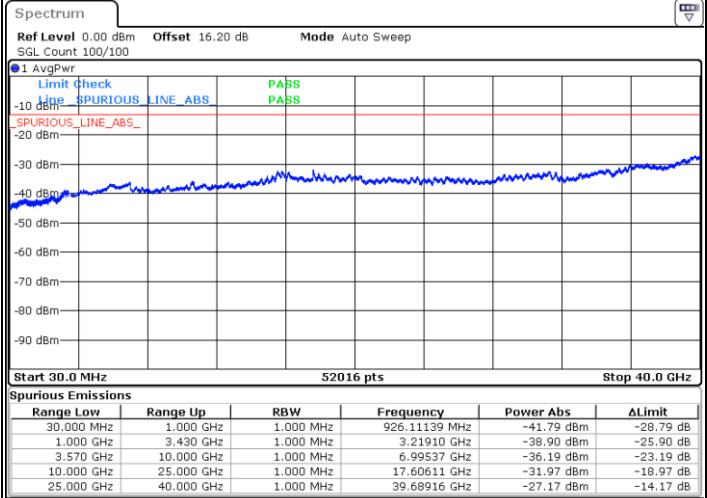
## LTE Band 42 / 5MHz

### Lowest Channel / QPSK



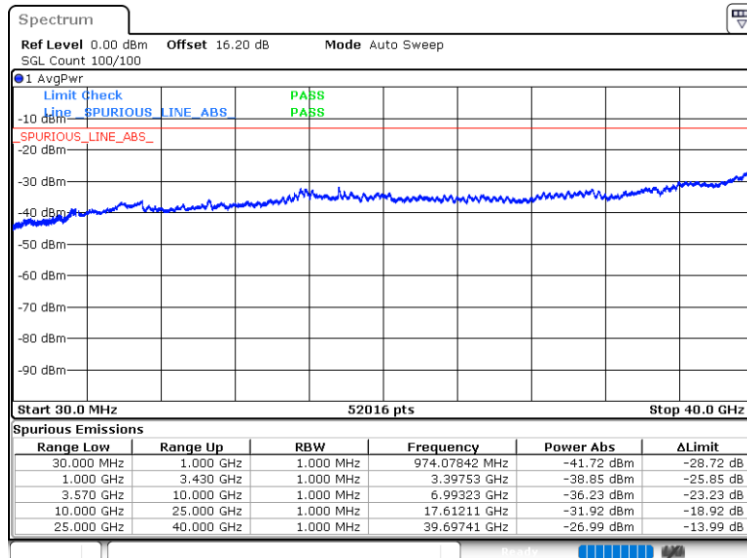
Date: 26.JUL.2022 22:37:02

### Middle Channel / QPSK



Date: 26.JUL.2022 22:38:21

### Highest Channel / QPSK

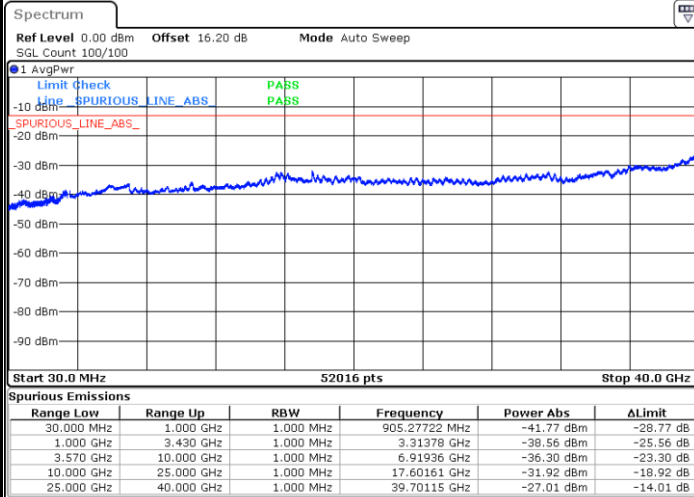


Date: 26.JUL.2022 22:39:43



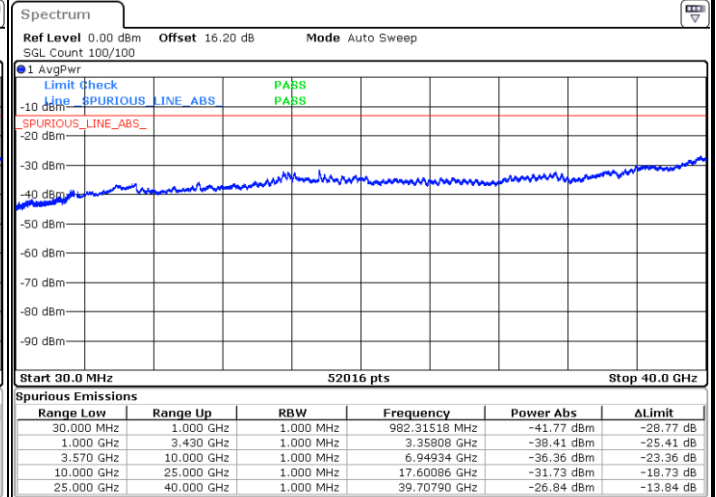
## LTE Band 42 / 10MHz

## Lowest Channel / QPSK



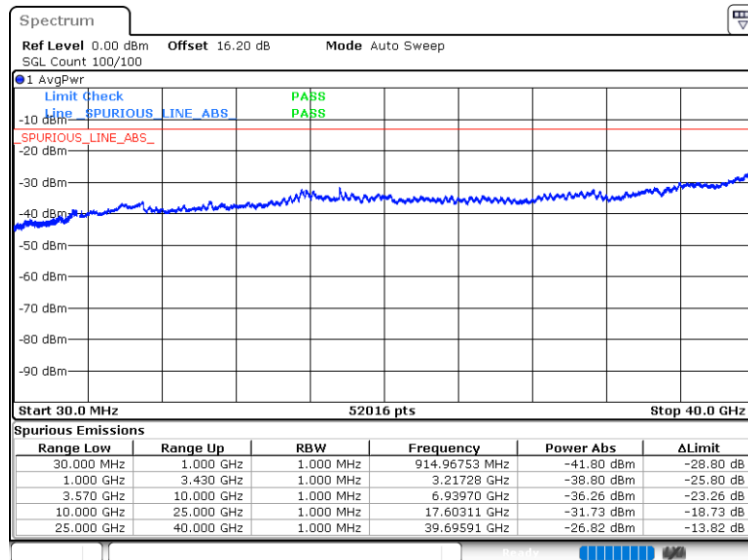
Date: 26.JUL.2022 22:53:19

## Middle Channel / QPSK



Date: 26.JUL.2022 22:54:40

## Highest Channel / QPSK

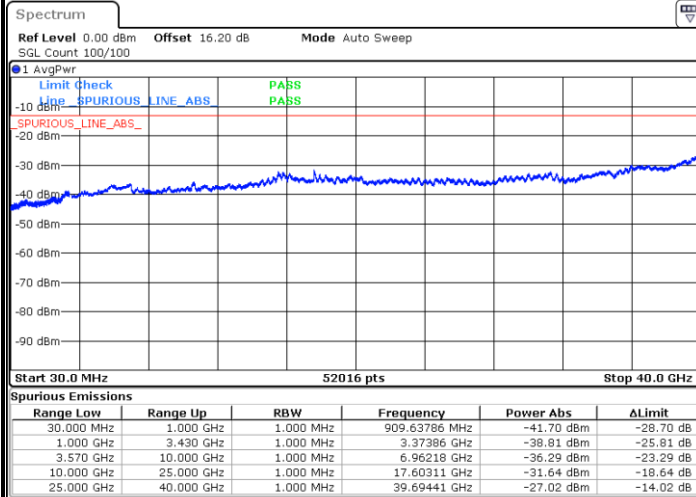


Date: 26.JUL.2022 22:56:00



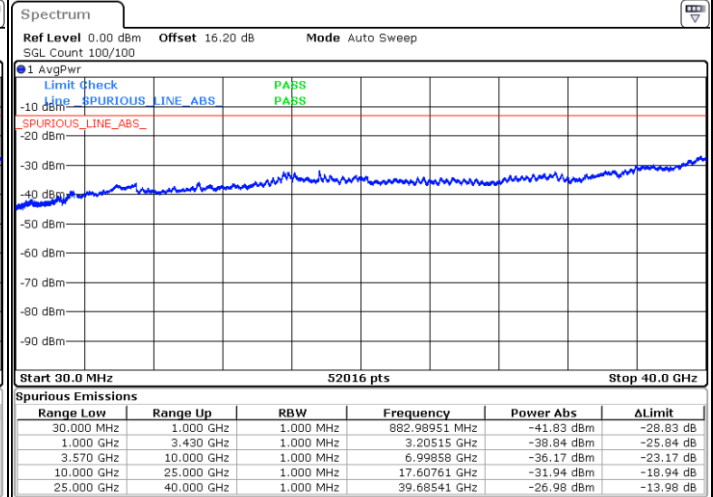
## LTE Band 42 / 15MHz

## Lowest Channel / QPSK



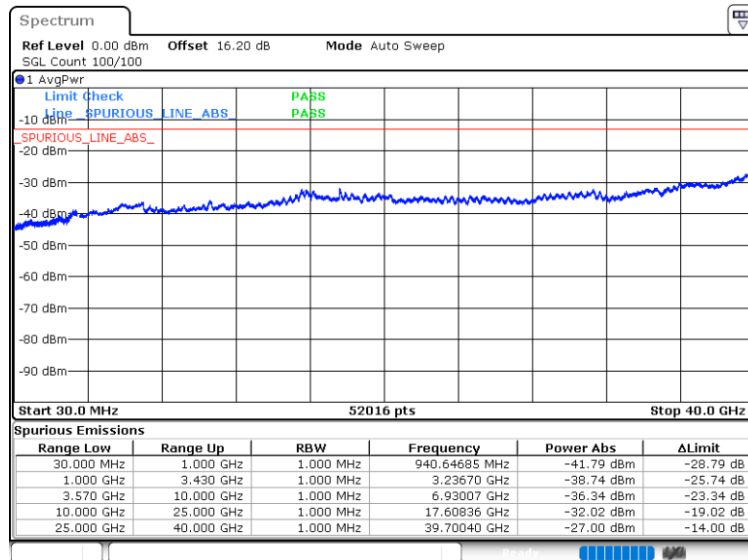
Date: 26.JUL.2022 23:09:45

## Middle Channel / QPSK



Date: 26.JUL.2022 23:11:04

## Highest Channel / QPSK



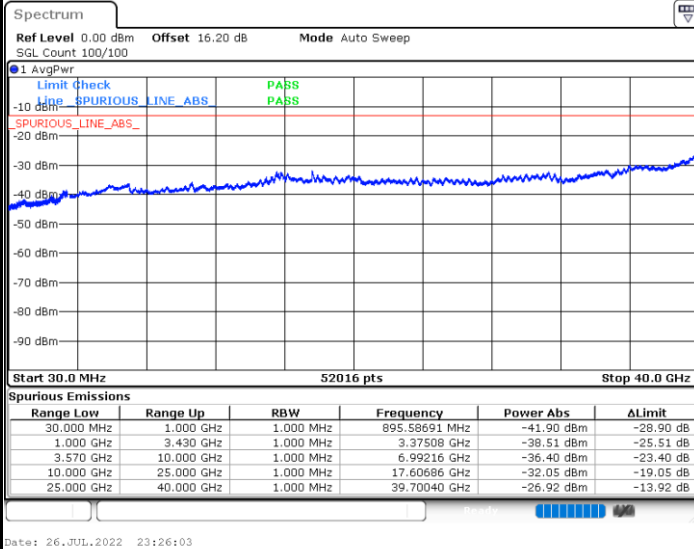
Date: 26.JUL.2022 23:12:26



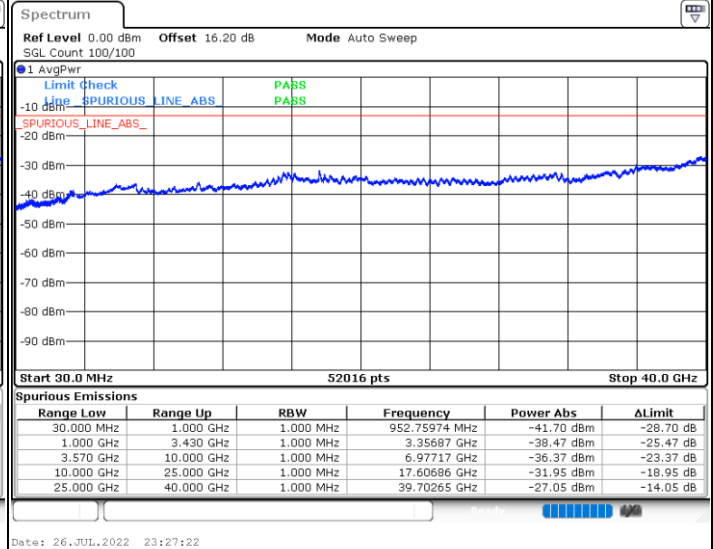


## LTE Band 42 / 20MHz

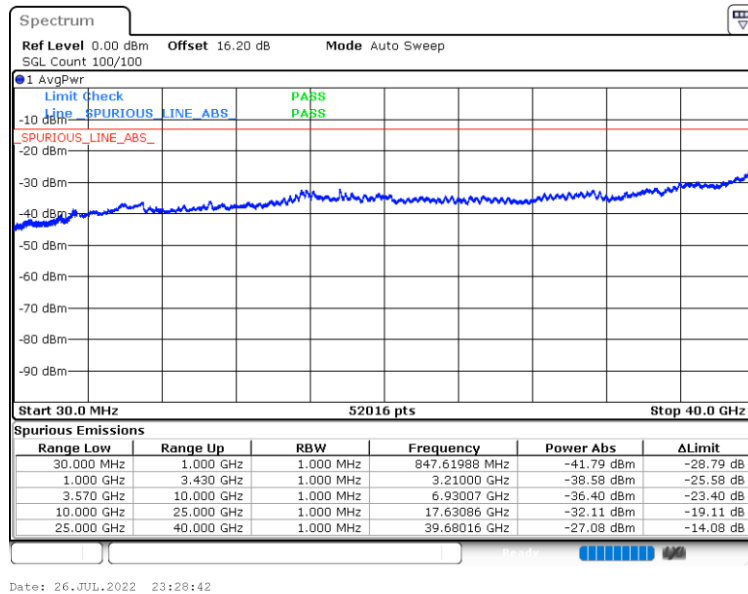
## Lowest Channel / QPSK



## Middle Channel / QPSK



## Highest Channel / QPSK



## Frequency Stability

Test Conditions		LTE Band 42 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

**Note:**

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage = 4.1 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### LTE Band 42

LTE Band 42 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Margin ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	6902	-39.37	-13	-26.37	-68.78	-49.72	1.84	12.19	H
	10353	-35.81	-13	-22.81	-71.61	-44.44	2.26	10.89	H
	13804	-24.92	-13	-11.92	-68.82	-34.84	2.63	12.56	H
	20707	-44.92	-13	-31.92	-58.32	-59.61	3.22	17.92	H
	24158	-57.08	-13	-44.08	-74.74	-71.79	3.78	18.49	H
	27609	-58.42	-13	-45.42	-78.95	-74.02	3.95	19.54	H
	6902	-36.42	-13	-23.42	-66.33	-46.77	1.84	12.19	V
	10353	-36.87	-13	-23.87	-71.88	-45.50	2.26	10.89	V
	13804	-23.20	-13	-10.20	-66.07	-33.12	2.63	12.56	V
	20707	-47.62	-13	-34.62	-60.78	-62.31	3.22	17.92	V
	24158	-58.30	-13	-45.30	-75.6	-73.01	3.78	18.49	V
	27609	-58.58	-13	-45.58	-78.79	-74.18	3.95	19.54	V
Middle	7032	-34.57	-13	-21.57	-32.18	-44.45	1.84	11.72	H
	10548	-53.80	-13	-40.80	-56.09	-62.33	2.25	10.77	H
	14065	-28.16	-13	-15.16	-37.68	-37.86	2.66	12.36	H
	21096	-44.18	-13	-31.18	-57.89	-58.83	3.26	17.92	H
	24615	-51.47	-13	-38.47	-69.74	-66.36	3.74	18.63	H
	28128	-57.85	-13	-44.85	-78.32	-73.50	3.98	19.62	H
	7032	-36.86	-13	-23.86	-34.61	-46.74	1.84	11.72	V
	10548	-54.11	-13	-41.11	-55.89	-62.64	2.25	10.77	V
	14065	-23.86	-13	-10.86	-32.95	-33.56	2.66	12.36	V
	21096	-48.31	-13	-35.31	-61.72	-62.96	3.26	17.92	V
	24615	-51.66	-13	-38.66	-69.62	-66.55	3.74	18.63	V
	28128	-58.69	-13	-45.69	-78.75	-74.34	3.98	19.62	V



Highest	7162	-34.59	-13	-21.59	-64.69	-44.15	1.84	11.40	H
	10743	-35.29	-13	-22.29	-71.77	-43.72	2.23	10.65	H
	14324	-27.66	-13	-14.66	-70.74	-37.23	2.64	12.21	H
	21485	-44.47	-13	-31.47	-59.39	-59.49	3.37	18.38	H
	25070	-52.34	-13	-39.34	-70.63	-67.11	3.72	18.48	H
	28648	-56.97	-13	-43.97	-77.73	-72.35	3.99	19.37	H
	7162	-36.25	-13	-23.25	-66.69	-45.81	1.84	11.40	V
	10743	-35.61	-13	-22.61	-71.76	-44.04	2.23	10.65	V
	14324	-24.55	-13	-11.55	-67.76	-34.12	2.64	12.21	V
	21485	-43.89	-13	-30.89	-58.5	-58.91	3.37	18.38	V
	25070	-53.34	-13	-40.34	-71.32	-68.11	3.72	18.48	V
	28648	-57.57	-13	-44.57	-77.92	-72.95	3.99	19.37	V

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