



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : M2011K2G  
**FCC ID** : 2AFZZK2G  
**STANDARD** : 47 CFR Part 2, 22, 24, 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 23, 2020 and completely tested on Dec. 11, 2020. We, Sporton International (KunShan) Inc., 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 (KunShan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



**Sporton International (Kunshan) Inc.**

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



TABLE OF CONTENTS

REVISION HISTORY... 3
SUMMARY OF TEST RESULT ... 4
1 GENERAL DESCRIPTION ... 5
1.1 Applicant ... 5
1.2 Manufacturer ... 5
1.3 Product Feature of Equipment Under Test ... 5
1.4 Product Specification of Equipment Under Test ... 6
1.5 Modification of EUT ... 6
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator ... 7
1.7 Testing Location ... 8
1.8 Test Software ... 8
1.9 Applicable Standards ... 8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ... 9
2.1 Test Mode ... 9
2.2 Connection Diagram of Test System ... 10
2.3 Support Unit used in test configuration and system ... 10
2.4 Measurement Results Explanation Example ... 11
2.5 Frequency List of Low/Middle/High Channels ... 12
3 CONDUCTED TEST ITEMS ... 13
3.1 Measuring Instruments ... 13
3.2 Test Setup ... 13
3.3 Test Result of Conducted Test ... 13
3.4 Conducted Output Power and ERP/EIRP ... 14
3.5 Peak-to-Average Ratio ... 15
3.6 Occupied Bandwidth ... 16
3.7 Conducted Band Edge ... 17
3.8 Conducted Spurious Emission ... 19
3.9 Frequency Stability ... 20
4 RADIATED TEST ITEMS ... 21
4.1 Measuring Instruments ... 21
4.2 Test Setup ... 21
4.3 Test Result of Radiated Test ... 21
4.4 Radiated Spurious Emission ... 22
5 LIST OF MEASURING EQUIPMENT ... 23
6 UNCERTAINTY OF EVALUATION ... 24
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG002312E	Rev. 01	Initial issue of report	Dec. 17, 2020



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n41)	EIRP < 2Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77)	EIRP < 1Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log <sub>10</sub> (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 33.58 dB at 10190.400 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log <sub>10</sub> (P[Watts])		



# 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	Xiaomi
Model Name	M2011K2G
FCC ID	2AFZZK2G
EUT supports Radios application	GSM/WCDMA/LTE/5GNR/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE GNSS
IMEI Code	Conducted : 868285059998003 Radiation : 868285059998011
HW Version	P2
SW Version	MIUI12
EUT Stage	Identical Prototype

**Remark:**

1. Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.
2. There are two types of EUT, the sample 1 is 6+128GB capacity and the sample 2 is 8+256GB capacity. According to the difference, we only choose sample 1 to perform full tests.



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n77: 3710.01 MHz ~ 3970.02 MHz
<b>Rx Frequency</b>	5G NR n41: 2506.02 MHz ~ 2679.99 MHz 5G NR n77: 3710.01 MHz ~ 3970.02 MHz
<b>Bandwidth</b>	n41 : 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz n77: 20MHz / 30MHz / 40MHz / 60MHz / 80MHz / 100MHz
<b>Antenna Gain</b>	n41: -1.28 dBi n77: -2.42 dBi
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Note:**

1. For Ant2& Ant4 & Ant3 & Ant6 & Ant9, the whole testing has assessed Ant2/Ant9 by referring to the higher conducted power.
2. 5G NR n41/n77 support UL MIMO mode, and only supports CP-OFDM modulation in UL MIMO mode.
3. The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain, only the maximum ERP/EIRP is shown in the report.
4. 5G NR n41/n77/ supports SA mode only.
5. 5G NR n77 supports HPUE.

### 1.5 Modification of EUT

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



### 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

5G NR n41		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
100	2546.01 ~ 2640.00	95M7G7D	0.2291	96M5W7D	0.1652
Frequency Tolerance (ppm)		0.0022			

5G NR n41_UL_MIMO		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
100	2546.01 ~ 2640.00	97M3G7D	0.2944	98M3W7D	0.2564
Frequency Tolerance (ppm)		0.0028			

5G NR n77		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
100	3750.00 ~ 3930.00	96M9G7D	0.2500	97M7W7D	0.2118
Frequency Tolerance (ppm)		0.0034			

5G NR n77_UL_MIMO		QPSK		16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
100	3750.00 ~ 3930.00	97M7G7D	0.3631	98M3W7D	0.3357
Frequency Tolerance (ppm)		0.0034			



### 1.7 Testing Location

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

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS TH01-KS	CN1257	314309

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

### 1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

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






## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

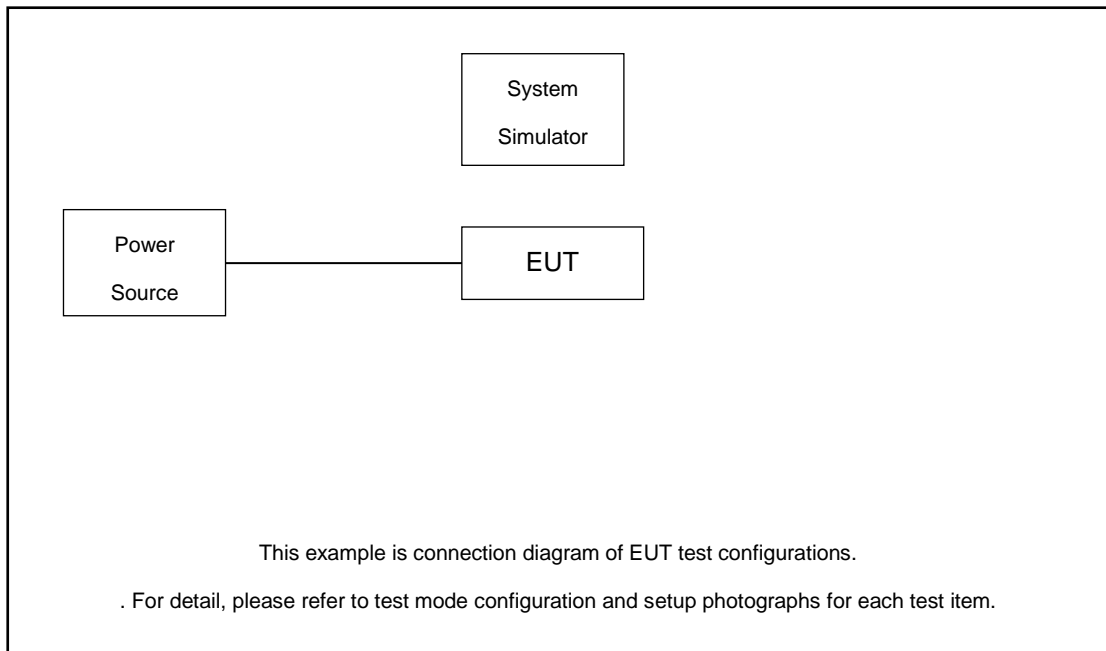
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel			
		5	10	15	20	30-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H	
Max. Output Power	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n41	-	-	-			v	v	v	v	v	v		v		v		
	n77	-	-	-			v	v	v	v	v	v		v		v		
26dB and 99% Bandwidth	n41	-	-	-			v		v	v				v		v		
	n77	-	-	-			v		v	v				v		v		
Conducted Band Edge	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v		v	
	n77	-	-	-	v	v	v	v	v	v	v	v	v	v	v		v	
Conducted Spurious Emission	n41	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	
	n77	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	
Frequency Stability	n41	-	-	-	v			v						v		v		
	n77	-	-	-	v			v						v		v		
E.R.P / E.I.R.P	n41	-	-	-			v	v	v	v	v	v	v	v	v	v	v	
	n77	-	-	-			v	v	v	v	v	v	v	v	v	v	v	
Radiated Spurious Emission	n41	Worst Case															v	
	n77	Worst Case															v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported.																	

3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.
5. Based on engineering evaluation, only the worst modulation test results are shown in the report .

## 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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	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 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.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 6.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.4 \text{ (dB)} \end{aligned}$$



## 2.5 Frequency List of Low/Middle/High Channels

5G NR n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
80	Channel	649334	656000	662668
	Frequency	3740.01	3840	3940.02
60	Channel	648668	656000	663334
	Frequency	3730.02	3840	3950.01
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664334
	Frequency	3715.02	3840	3965.01
20	Channel	647334	656000	664668
	Frequency	3710.01	3840	3970.02

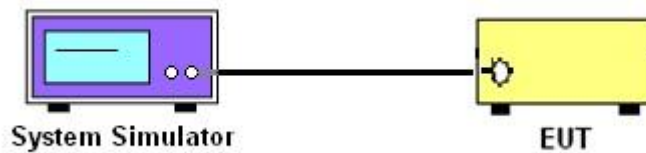
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

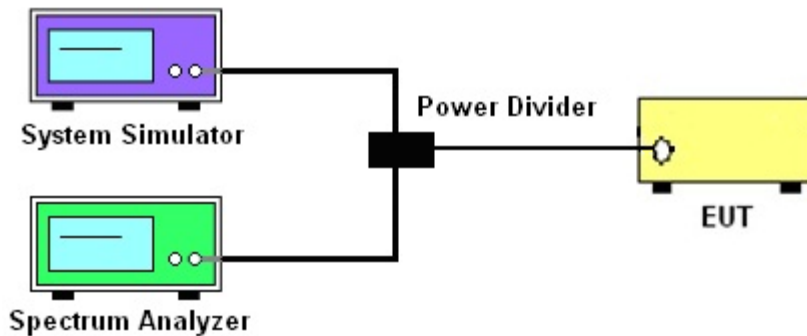
See list of measuring instruments of this test report.

#### 3.2 Test Setup

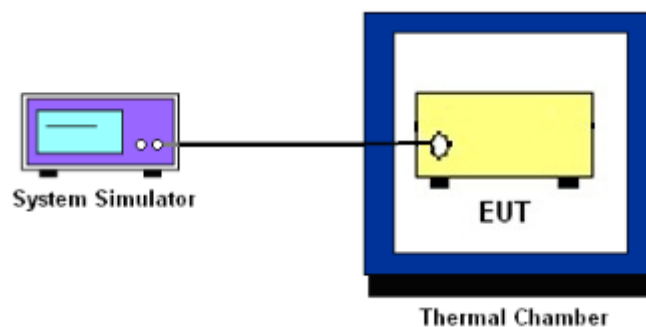
##### 3.2.1 Conducted Output Power



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



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.4 Conducted Output Power and ERP/EIRP

### 3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77.

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.4.2 Test Procedures

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



### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

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

#### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.6 (PAPR).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set EUT in maximum power output.
4. Set the RBW = 1MHz, VBW = 3MHz, Detector = Peak, Trace mode = max hold, Set span  $\geq 2 \times$  OBW in spectrum analyzer.
5. Set the RBW = 1MHz, VBW = 3MHz, Detector = power averaging, Trace mode = max hold, Set span  $\geq 2 \times$  OBW in spectrum analyzer.
6. Add  $[10 \log (1/\text{duty cycle})]$  to the measured maximum power level to compute the average power during continuous transmission.
7.  $\text{PAPR (dB)} = P_{Pk} \text{ (dBm)} - P_{Avg} \text{ (dBm)}$   
where  
PAPR peak-to-average power ratio, in dB  
 $P_{Pk}$  measured peak power level, in dBm  
 $P_{Avg}$  measured average power level, in dBm
8. Record the deviation as Peak to Average Ratio.



## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

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

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

### 3.6.2 Test Procedures

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





### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

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

27.53(l)(2)

For mobile operations in the 3700-3980 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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.



### 3.7.2 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  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz 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.

Example:

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

9. For 5G NR n41, the other 40 dB, and 55 dB have additionally applied same calculation above.



### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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

For 5G NR n41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

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

#### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm.
11. For 5G NR n41  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [55 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm.



## 3.9 Frequency Stability

### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### 3.9.2 Test Procedures for Temperature Variation

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

### 3.9.3 Test Procedures for Voltage Variation

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

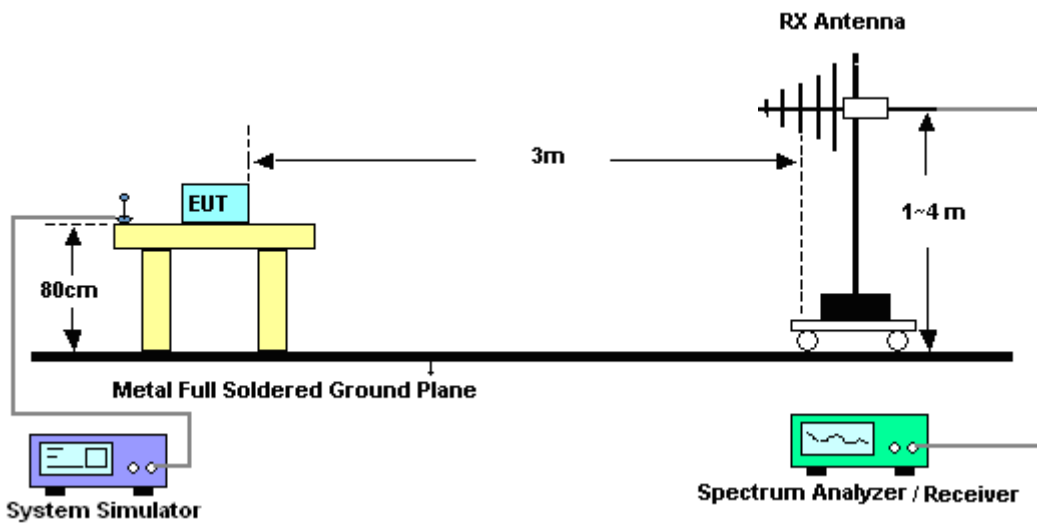
## 4 Radiated Test Items

### 4.1 Measuring Instruments

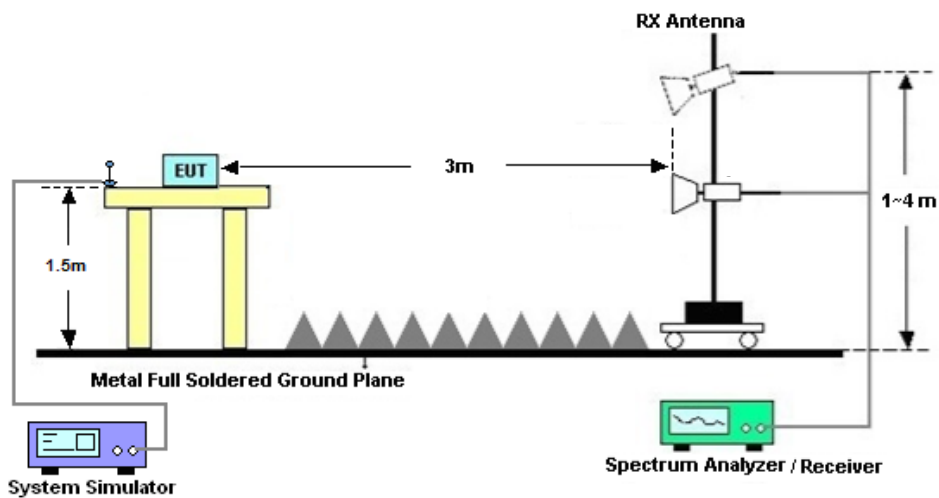
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

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

### 4.4.2 Test Procedures

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

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

13. For 5G NR n41:

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



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2020	Nov. 26, 2020~ Dec. 11, 2020	Nov. 01, 2021	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 27, 2020	Nov. 26, 2020~ Dec. 11, 2020	Oct. 26, 2021	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Nov. 28, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 03, 2020	Nov. 28, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Nov. 28, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 09, 2020	Nov. 28, 2020	Nov. 08, 2021	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 03, 2020	Nov. 28, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Nov. 28, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 QP	2025788	1Ghz-18Ghz	Jan. 03, 2020	Nov. 28, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Nov. 28, 2020	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 28, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 28, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 28, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------





## Appendix A. Test Results of Conducted Test

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

5G NR n41										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				509202	518598	528000		L	M	H
Frequency (MHz)				2546.01	2592.99	2640				
100	PI/2 BPSK	1	1	24.23	23.85	24.83	-1.28	0.1972	0.1807	0.2265
100	QPSK	1	1	24.38	23.60	24.75	-1.28	0.2042	0.1706	0.2223
100	QPSK	1	137	24.40	24.11	24.64		0.2051	0.1919	0.2168
100	QPSK	1	271	24.36	23.36	24.88		0.2032	0.1614	0.2291
100	QPSK	135	0	23.55	23.26	23.72	-1.28	0.1687	0.1578	0.1754
100	QPSK	135	69	24.52	24.12	24.77		0.2109	0.1923	0.2234
100	QPSK	135	138	23.42	23.06	24.00		0.1637	0.1507	0.1871
100	QPSK	270	0	23.63	23.33	23.96	-1.28	0.1718	0.1603	0.1854
100	16QAM	1	1	22.56	23.46	22.85	-1.28	0.1343	0.1652	0.1435
100	64QAM	1	1	22.03	22.02	22.67	-1.28	0.1189	0.1186	0.1377
100	256QAM	1	1	20.10	20.15	20.18	-1.28	0.0762	0.0771	0.0776
Channel				508200	518598	528996	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	23.55	23.12	23.89	-1.28	0.1687	0.1528	0.1824
90	16QAM	1	1	22.45	22.89	23.22	-1.28	0.1309	0.1449	0.1563
Channel				507204	518598	529998	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	23.78	23.11	23.79	-1.28	0.1778	0.1524	0.1782
80	16QAM	1	1	23.15	22.89	23.25	-1.28	0.1538	0.1449	0.1574
Channel				505200	518598	531996	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	1	1	23.86	23.78	23.84	-1.28	0.1811	0.1778	0.1803
60	16QAM	1	1	23.22	23.24	23.23	-1.28	0.1563	0.1570	0.1567



Channel				504204	518598	532998	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2521.02	2592.99	2664.99				
50	QPSK	1	1	23.85	23.89	23.84	-1.28	0.1807	0.1824	0.1803
50	16QAM	1	1	23.44	23.41	23.27	-1.28	0.1644	0.1633	0.1581
Channel				503202	518598	534000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	23.78	23.65	23.74	-1.28	0.1778	0.1726	0.1762
40	16QAM	1	1	23.27	23.26	23.28	-1.28	0.1581	0.1578	0.1585
Channel				502200	518598	534996	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2511	2592.99	2674.98				
30	QPSK	1	1	23.75	23.45	23.89	-1.28	0.1766	0.1648	0.1824
30	16QAM	1	1	23.46	23.28	23.45	-1.28	0.1652	0.1585	0.1648
Channel				501204	518598	535998	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	23.77	23.43	23.89	-1.28	0.1774	0.1641	0.1824
20	16QAM	1	1	23.33	23.31	23.34	-1.28	0.1603	0.1596	0.1607

5G NR n77										
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Gain	EIRP	EIRP	EIRP
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				650000	656000	662000	L	M	H	
Frequency (MHz)				3750	3840	3930				
100	PI/2 BPSK	1	1	26.12	26.22	26.19	-2.42	0.2344	0.2399	0.2382
100	QPSK	1	1	26.31	26.40	26.26	-2.42	0.2449	0.2500	0.2421
100	QPSK	1	137	26.03	26.18	26.08		0.2296	0.2377	0.2323
100	QPSK	1	271	26.12	26.22	26.09		0.2344	0.2399	0.2328
100	QPSK	135	0	25.13	25.36	25.56	-2.42	0.1866	0.1968	0.2061
100	QPSK	135	69	26.12	26.08	26.13		0.2344	0.2323	0.2350
100	QPSK	135	138	25.08	25.22	25.32		0.1845	0.1905	0.1950
100	QPSK	270	0	25.06	25.16	25.25	-2.42	0.1837	0.1879	0.1919
100	16QAM	1	1	25.32	25.55	25.68	-2.42	0.1950	0.2056	0.2118
100	64QAM	1	1	23.68	23.36	23.77	-2.42	0.1337	0.1242	0.1365
100	256QAM	1	1	21.58	21.68	21.72	-2.42	0.0824	0.0843	0.0851



Channel				649334	656000	662668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	26.05	26.11	26.01	-2.42	0.2307	0.2339	0.2286
80	16QAM	1	1	25.22	25.21	25.18	-2.42	0.1905	0.1901	0.1888
Channel				648668	656000	663334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	26.03	26.01	26.03	-2.42	0.2296	0.2286	0.2296
60	16QAM	1	1	25.22	25.35	25.45	-2.42	0.1905	0.1963	0.2009
Channel				648000	656000	664000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	26.25	26.28	26.23	-2.42	0.2415	0.2432	0.2404
40	16QAM	1	1	25.29	25.37	25.45	-2.42	0.1936	0.1972	0.2009
Channel				647668	656000	664334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	26.22	26.23	26.27	-2.42	0.2399	0.2404	0.2427
30	16QAM	1	1	25.33	25.52	25.45	-2.42	0.1954	0.2042	0.2009
Channel				647334	656000	664668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	26.33	26.25	26.38	-2.42	0.2460	0.2415	0.2489
20	16QAM	1	1	25.44	25.58	25.64	-2.42	0.2004	0.2070	0.2099



5G NR n41_UL MIMO										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	DG	EIRP	EIRP	EIRP
Channel				509202	518598	528000	1.73	L	M	H
Frequency (MHz)				2546.01	2592.99	2640				
100	QPSK	1	1	22.86	22.63	22.96	1.73	0.2877	0.2729	0.2944
100	QPSK	1	271	22.36	22.32	22.53	1.73	0.2564	0.2541	0.2667
100	QPSK	137	68	22.62	22.53	22.56	1.73	0.2723	0.2667	0.2685
100	QPSK	1	0	22.23	21.16	21.44	1.73	0.2489	0.1945	0.2075
100	QPSK	1	272	20.92	20.86	21.16		0.1841	0.1816	0.1945
100	QPSK	273	0	21.06	21.03	21.13		0.1901	0.1888	0.1932
100	16QAM	1	1	22.36	21.06	22.36	1.73	0.2564	0.1901	0.2564
100	64QAM	1	1	20.79	20.58	21.11	1.73	0.1786	0.1702	0.1923
100	256QAM	1	1	17.65	17.55	18.12	1.73	0.0867	0.0847	0.0966
Channel				508200	518598	528996	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2541	2592.99	2644.98				
90	QPSK	1	1	22.63	22.76	22.82	1.73	0.2729	0.2812	0.2851
90	16QAM	1	1	22.31	22.24	22.34	1.73	0.2535	0.2495	0.2553
Channel				507204	518598	529998	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2536.02	2592.99	2649.99				
80	QPSK	1	1	22.32	22.56	22.68	1.73	0.2541	0.2685	0.2761
80	16QAM	1	1	22.16	22.22	22.16	1.73	0.2449	0.2483	0.2449
Channel				505200	518598	531996	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2526	2592.99	2659.98				
60	QPSK	1	1	22.36	22.65	22.77	1.73	0.2564	0.2742	0.2818
60	16QAM	1	1	22.09	22.13	22.12	1.73	0.2410	0.2432	0.2427
Channel				504204	518598	532998	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2521.02	2592.99	2664.99				
50	QPSK	1	1	22.52	22.79	22.32	1.73	0.2661	0.2831	0.2541
50	16QAM	1	1	22.23	22.16	22.24	1.73	0.2489	0.2449	0.2495
Channel				503202	518598	534000	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2516.01	2592.99	2670				
40	QPSK	1	1	22.65	22.71	22.92	1.73	0.2742	0.2780	0.2917



40	16QAM	1	1	22.34	22.24	22.28	1.73	0.2553	0.2495	0.2518
Channel				501204	518598	535998	DG	EIRP	EIRP	EIRP
Frequency (MHz)				2506.02	2592.99	2679.99				
20	QPSK	1	1	22.63	22.85	22.93	1.73	0.2729	0.2871	0.2924
20	16QAM	1	1	22.23	22.31	22.19	1.73	0.2489	0.2535	0.2466

Note: 1. Directional gain(DG) =  $G_{ANT} + 10 \log(2)$  dBi  
 2. Combine MIMO Power(dBm) =  $10 * \log[10^{(MIMO \text{ Ant 2 Power})/10} + 10^{(MIMO \text{ Ant 4 Power})/10}]$  (dBm); Only the combine MIMO power show in the report

5G NR n77_UL MIMO										
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	DG	EIRP	EIRP	EIRP
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
Channel				650000	656000	662000	0.59	L	M	H
Frequency (MHz)				3750	3840	3930				
100	QPSK	1	1	24.82	25.01	24.62	0.59	0.3475	0.3631	0.3319
100	QPSK	1	271	24.85	24.88	24.77		0.3499	0.3524	0.3436
100	QPSK	137	68	24.87	24.95	24.79		0.3516	0.3581	0.3451
100	QPSK	1	0	23.03	22.96	22.72	0.59	0.2301	0.2265	0.2143
100	QPSK	1	272	22.91	22.98	22.91		0.2239	0.2275	0.2239
100	QPSK	273	0	23.43	23.44	23.31		0.2523	0.2529	0.2455
100	16QAM	1	1	24.38	24.67	24.33	0.59	0.3141	0.3357	0.3105
100	64QAM	1	1	22.98	23.18	22.76	0.59	0.2275	0.2382	0.2163
100	256QAM	1	1	19.77	19.87	19.81	0.59	0.1086	0.1112	0.1096
Channel				649334	656000	662668	DG	EIRP	EIRP	EIRP
Frequency (MHz)				3740.01	3840	3940.02				
80	QPSK	1	1	24.68	24.91	24.68	0.59	0.3365	0.3548	0.3365
80	16QAM	1	1	24.26	24.51	24.34	0.59	0.3055	0.3236	0.3112
Channel				648668	656000	663334	DG	EIRP	EIRP	EIRP
Frequency (MHz)				3730.02	3840	3950.01				
60	QPSK	1	1	24.99	25.12	24.52	0.59	0.3614	0.3724	0.3243
60	16QAM	1	1	24.64	24.37	24.46	0.59	0.3334	0.3133	0.3199
Channel				648000	656000	664000	DG	EIRP	EIRP	EIRP
Frequency (MHz)				3720	3840	3960				
40	QPSK	1	1	24.53	24.79	24.38	0.59	0.3251	0.3451	0.3141
40	16QAM	1	1	24.22	24.26	24.29	0.59	0.3027	0.3055	0.3076
Channel				647668	656000	664334	DG	EIRP	EIRP	EIRP



Frequency (MHz)				3715.02	3840	3965.01				
30	QPSK	1	1	24.73	24.66	24.59	0.59	0.3404	0.3350	0.3296
30	16QAM	1	1	24.36	24.35	24.27	0.59	0.3126	0.3119	0.3062
Channel				647334	656000	664668	DG	EIRP	EIRP	EIRP
Frequency (MHz)				3710.01	3840	3970.02				
20	QPSK	1	1	24.55	24.87	24.68	0.59	0.3266	0.3516	0.3365
20	16QAM	1	1	24.26	24.28	24.19	0.59	0.3055	0.3069	0.3006

Note:

1. Directional gain(DG) =  $G_{ANT} + 10 \log(2)$  dBi

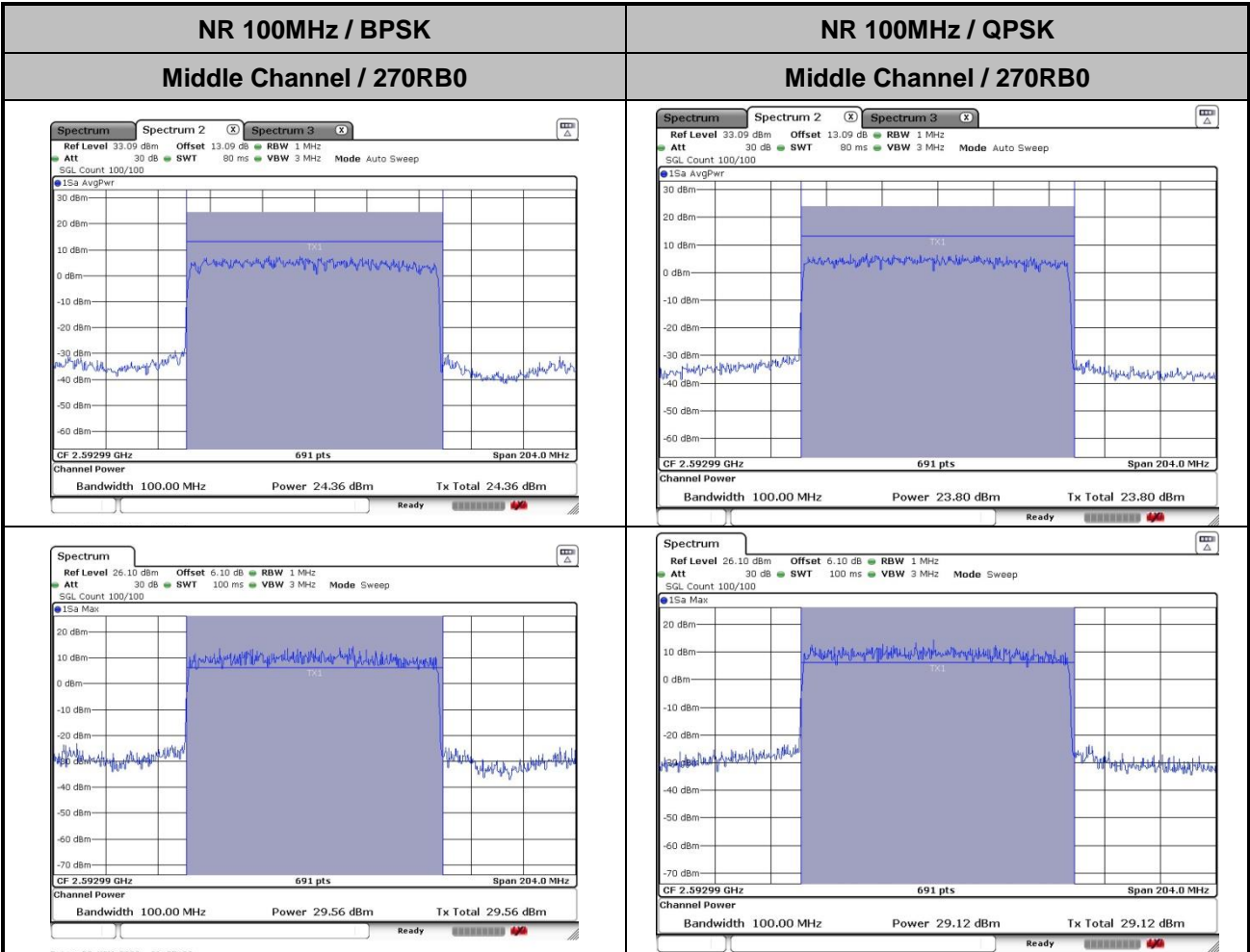
2. Combine MIMO Power(dBm)=  $10 \cdot \log[10^{(MIMO \text{ Ant 9 Power}) / 10} + 10^{(MIMO \text{ Ant 6 Power}) / 10}]$  (dBm); Only the combine MIMO power show in the report

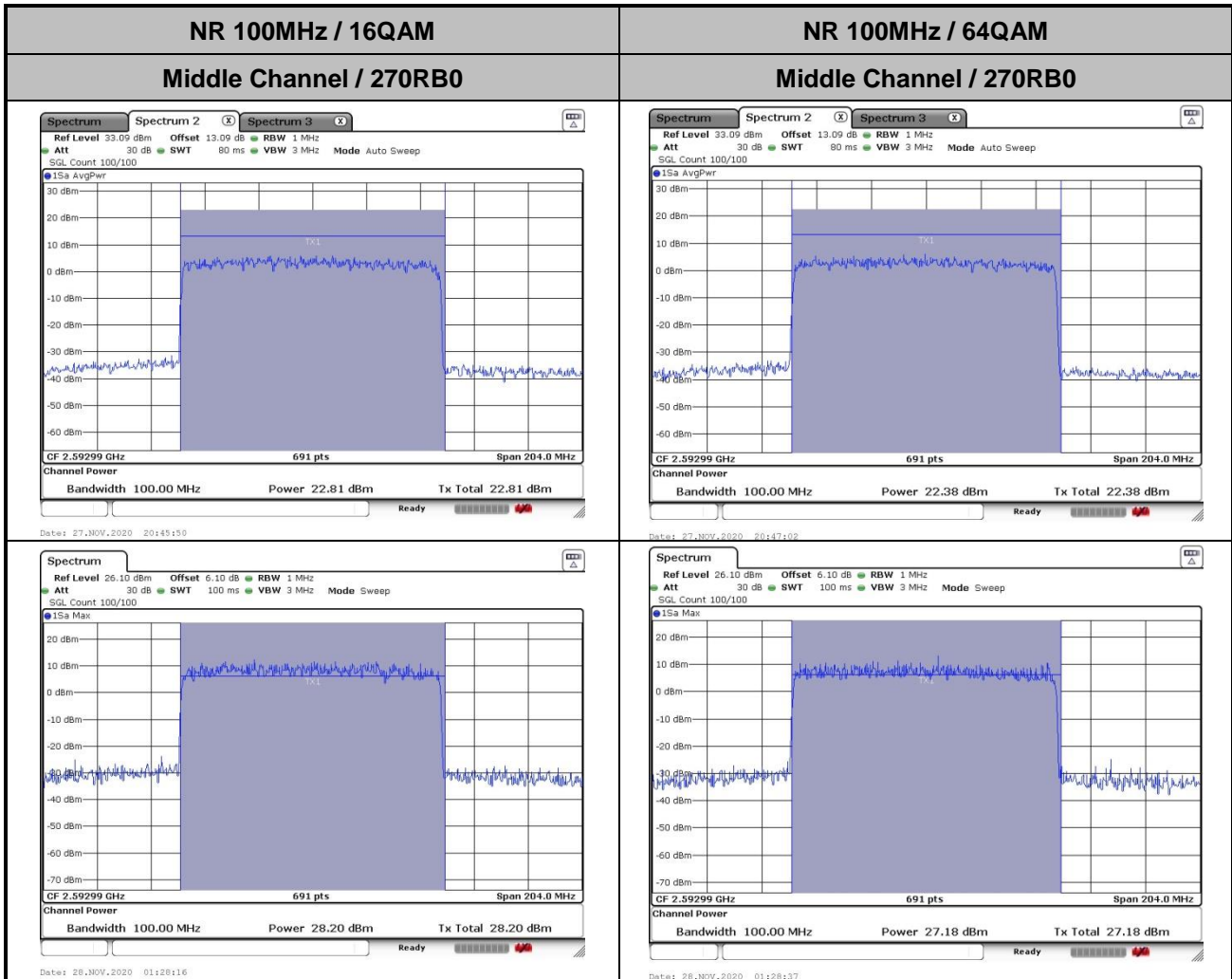


# 5G NR n41

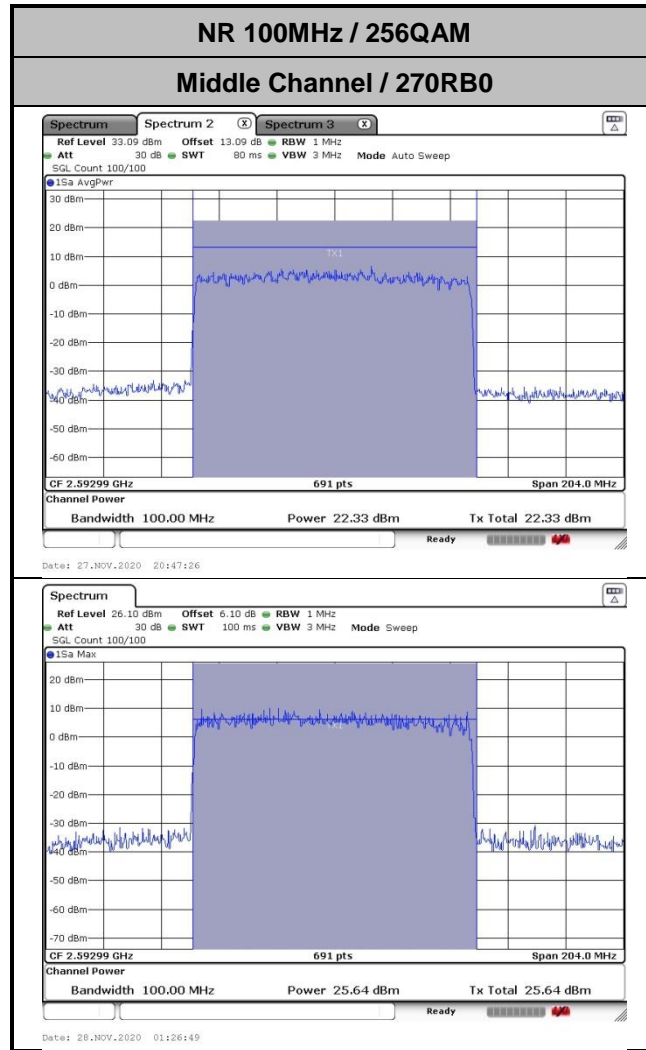
## Peak-to-Average Ratio

Mode	N 41 / 100MHz					
Mod.	BPSK	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.2	5.32	5.39	4.8	3.31	PASS





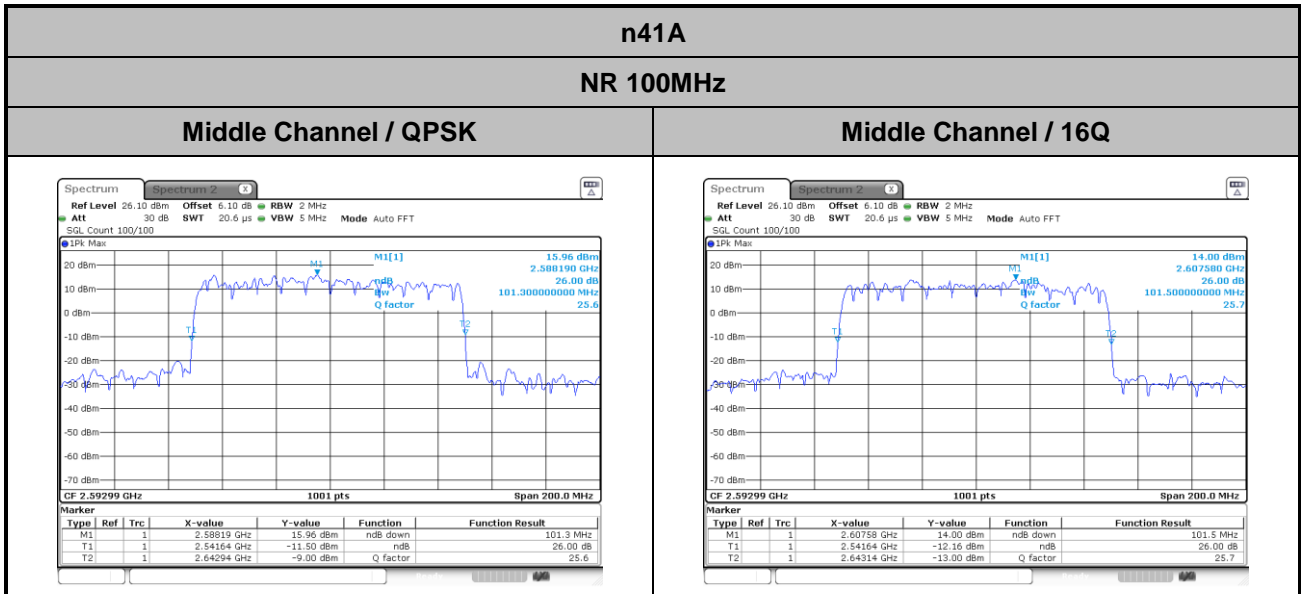






**26dB Bandwidth**

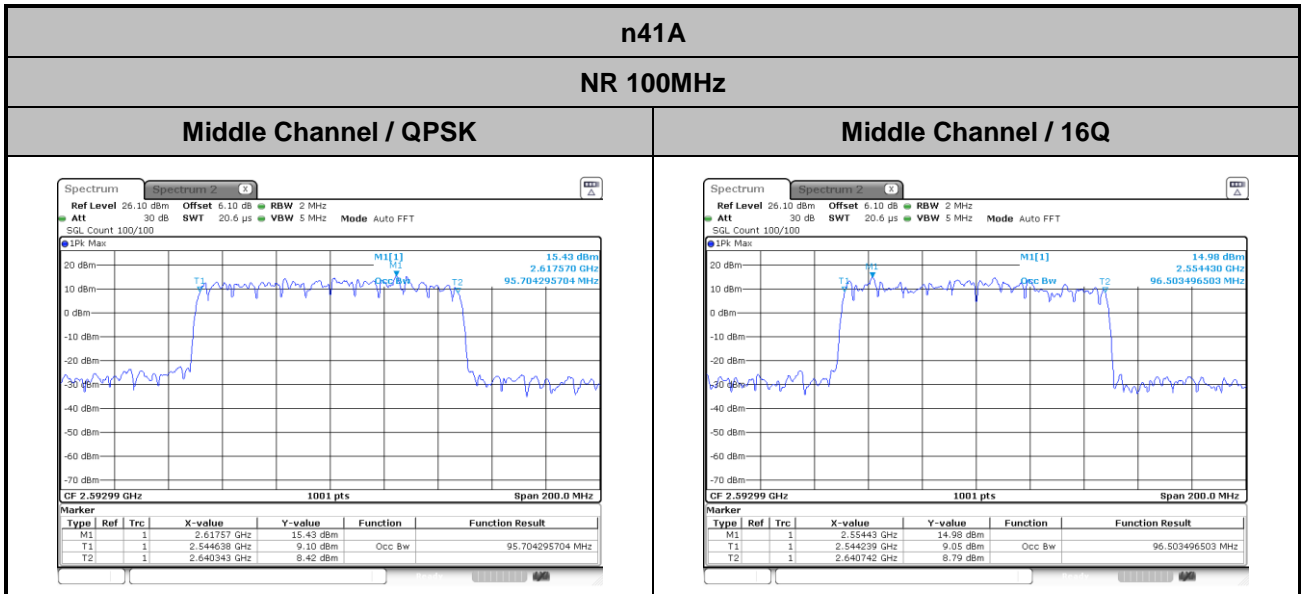
Mode	N 41 : 26dB BW(MHz)			
BW	100MHz			
Mod.	QPSK	16QAM		
Middle CH	101.30	101.50		





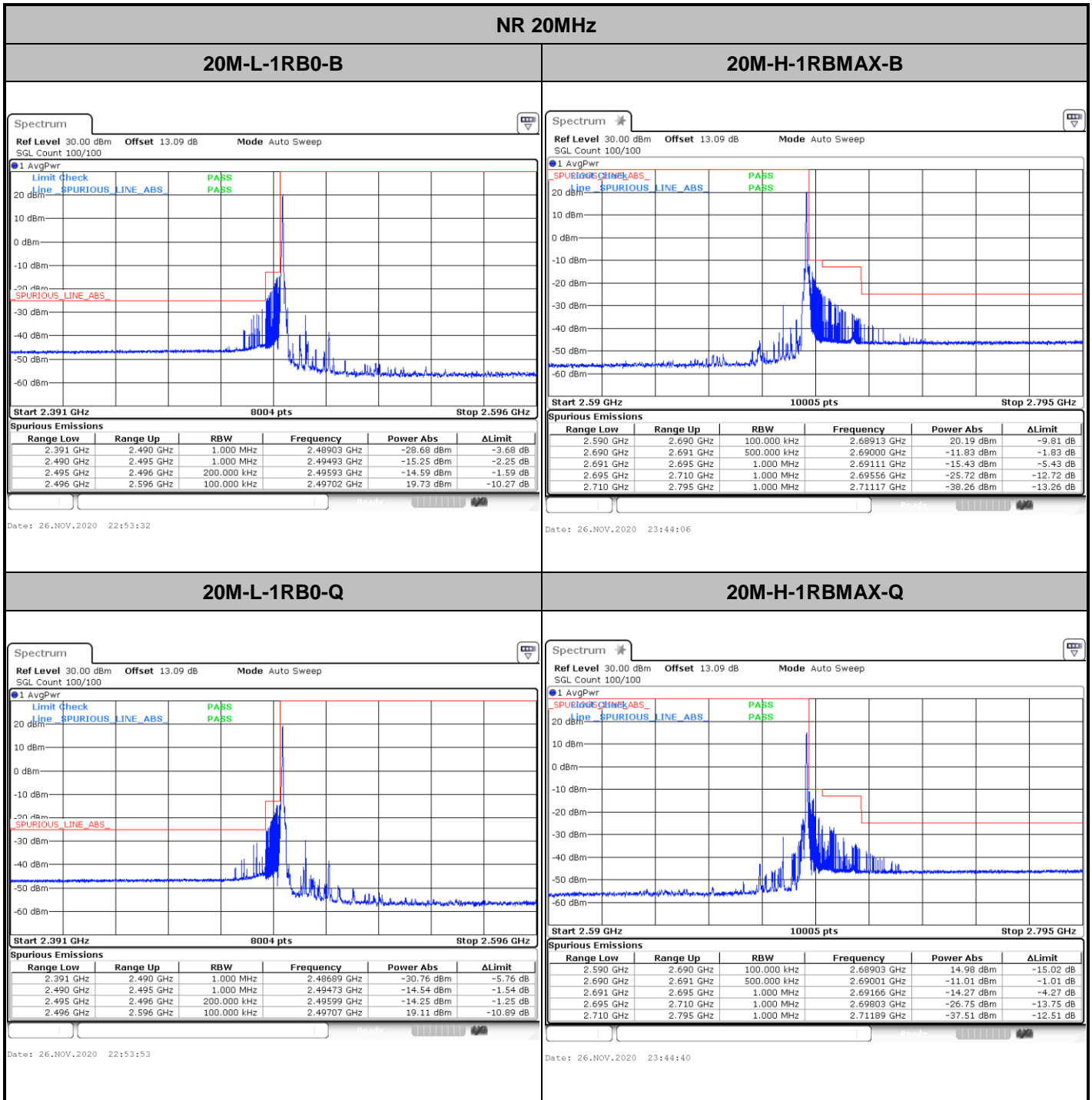
# Occupied Bandwidth

Mode	N 41 : OB BW(MHz)			
BW	100MHz			
Mod.	QPSK	16Q		
Middle CH	95.704	96.503		





# Conducted Band Edge

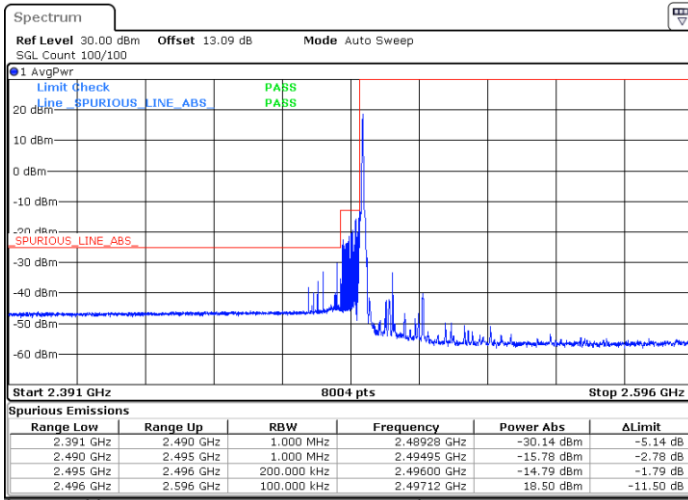




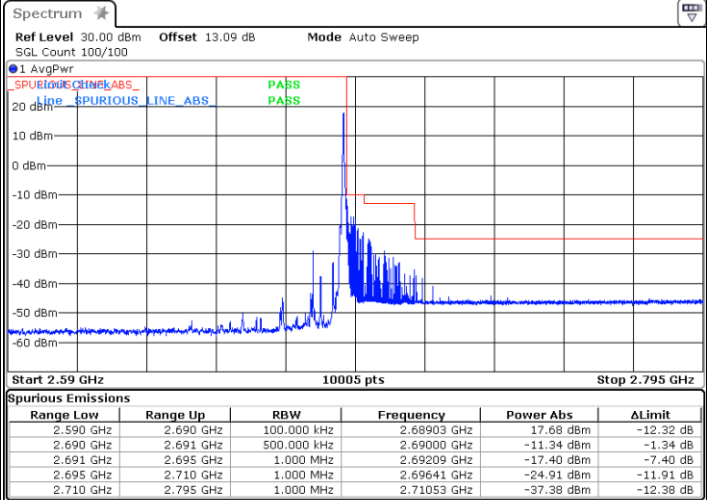
NR 20MHz

20M-L-1RB0-16Q

20M-H-1RBMAX-16Q



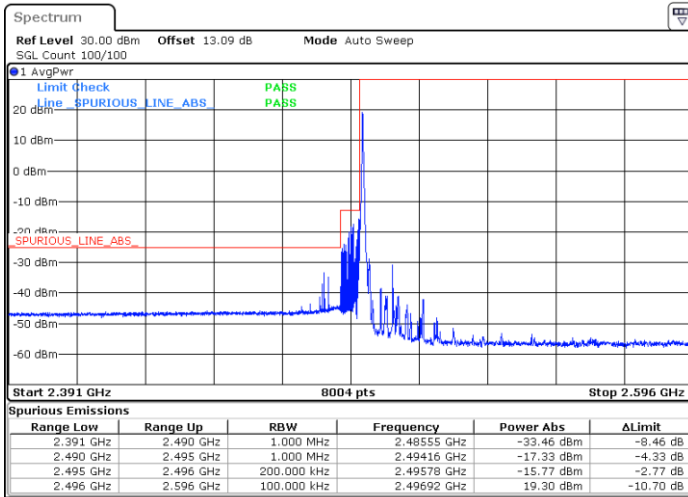
Date: 26.NOV.2020 22:54:34



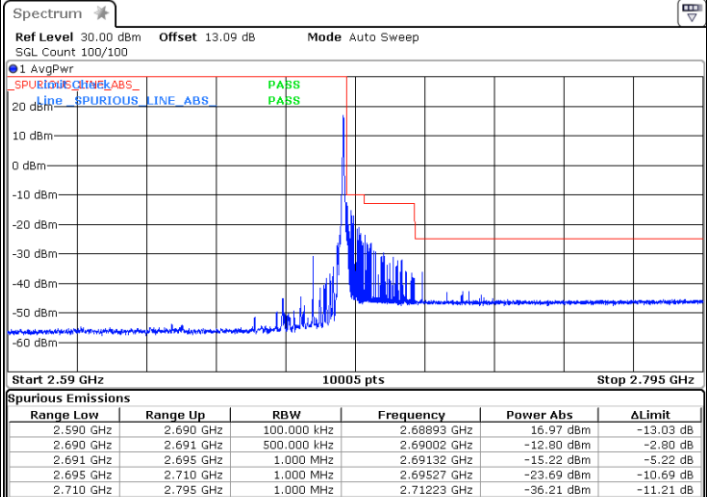
Date: 26.NOV.2020 23:45:07

20M-L-1RB0-64Q

20M-H-1RBMAX-64Q



Date: 26.NOV.2020 22:56:54



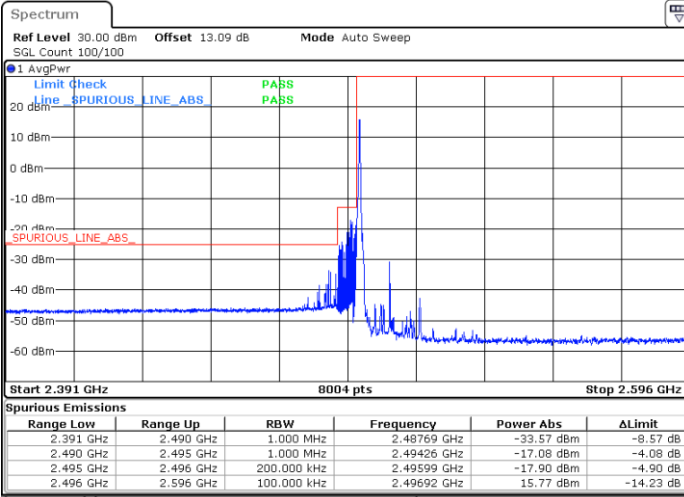
Date: 26.NOV.2020 23:45:54



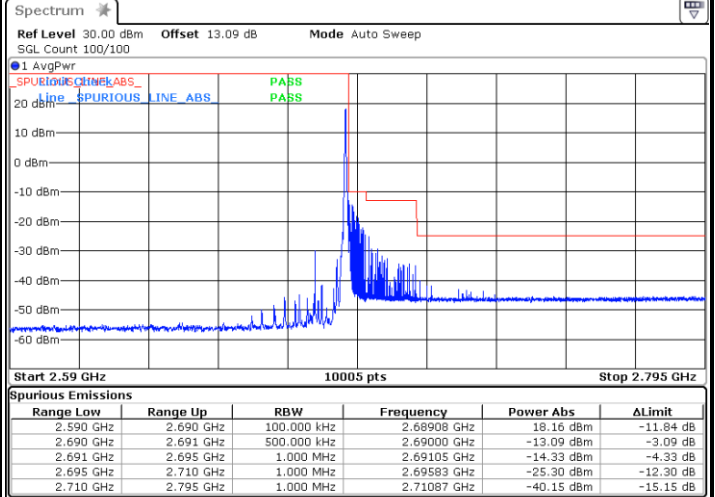
NR 20MHz

20M-L-1RB0-256Q

20M-H-1RBMAX-256Q



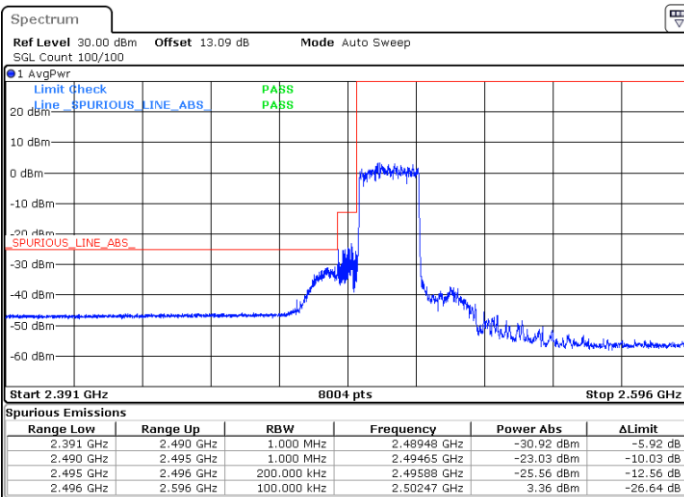
Date: 26.NOV.2020 22:57:42



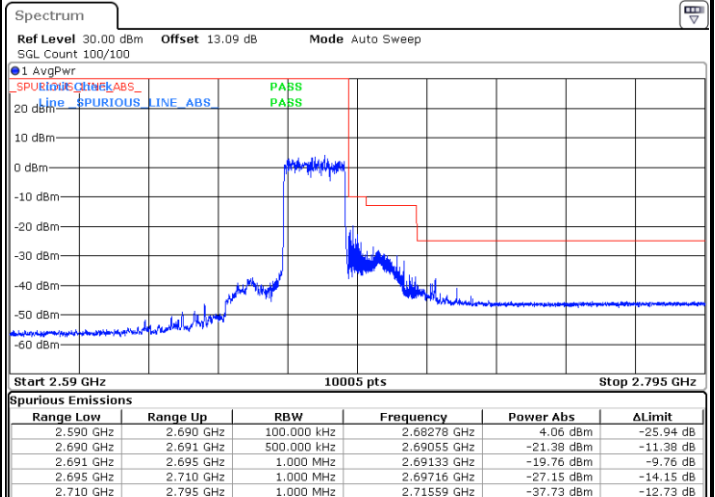
Date: 26.NOV.2020 23:46:20

20M-L-FULLRB-B

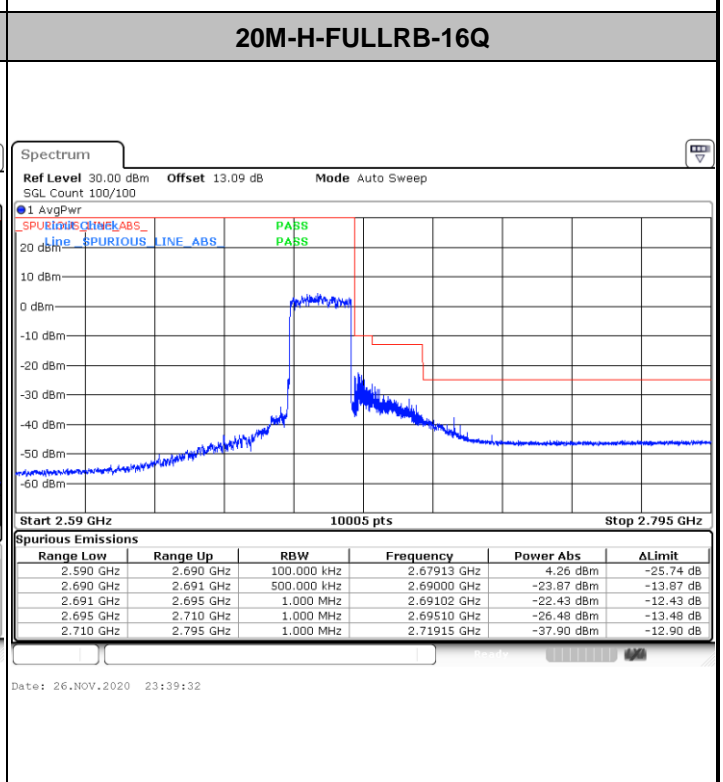
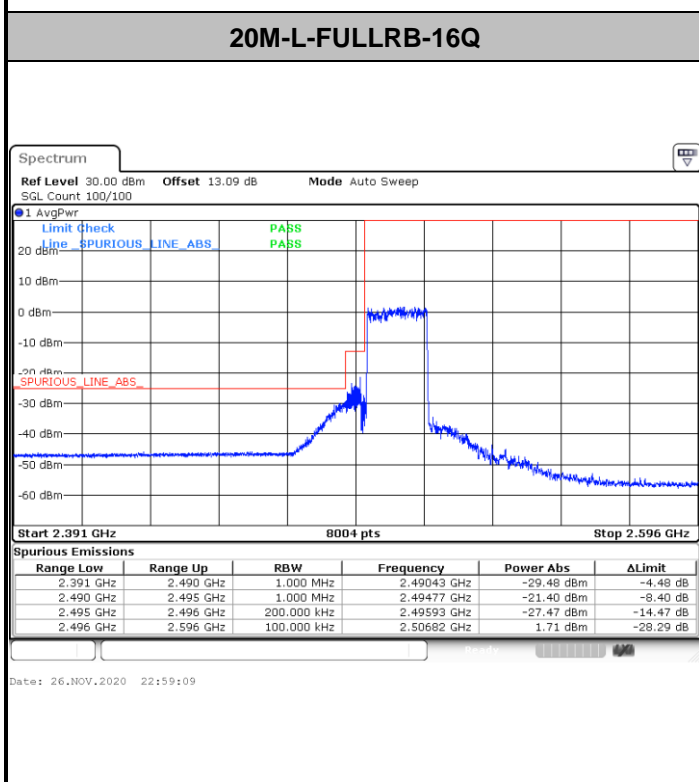
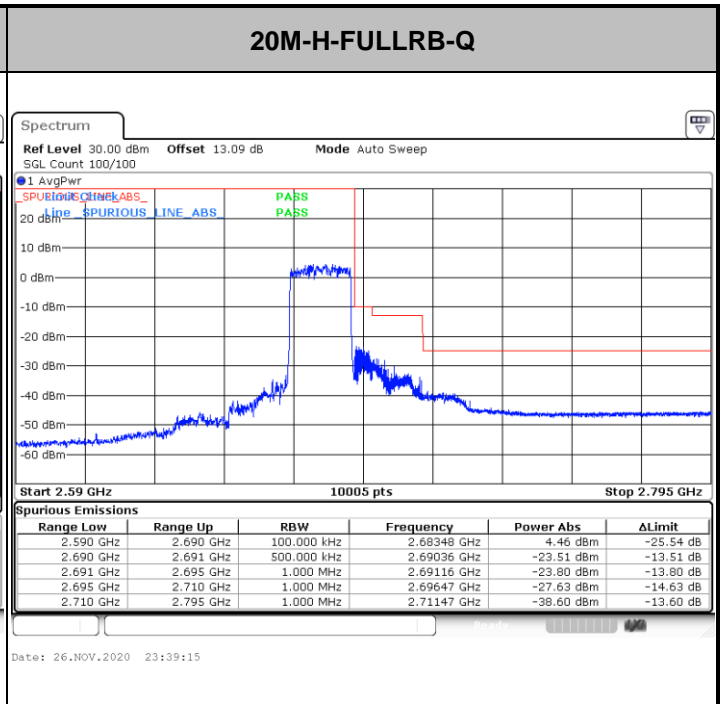
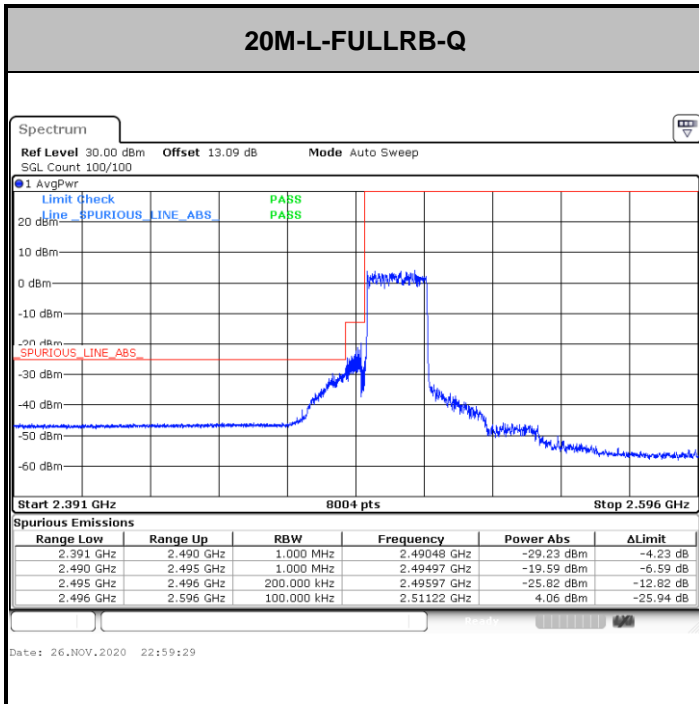
20M-H-FULLRB-B

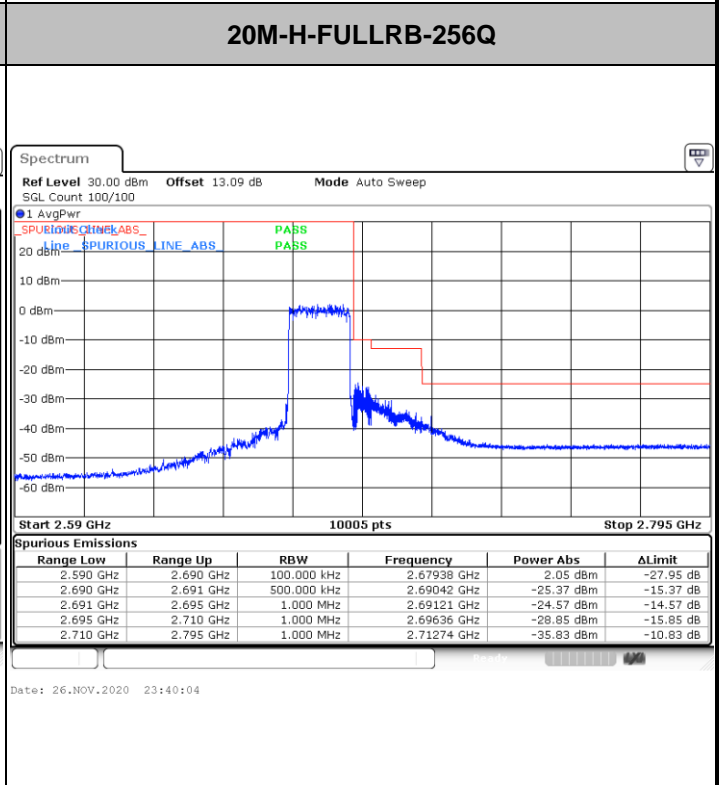
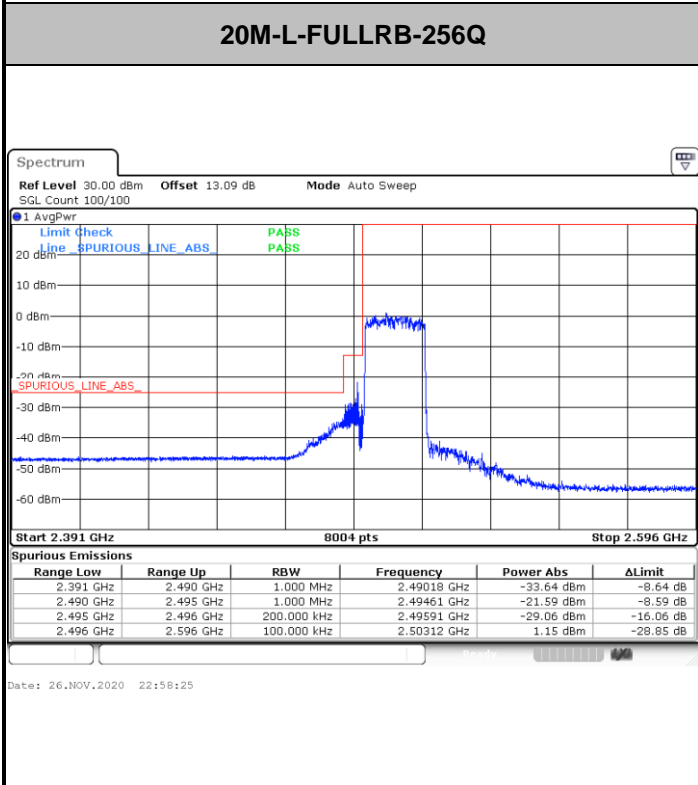
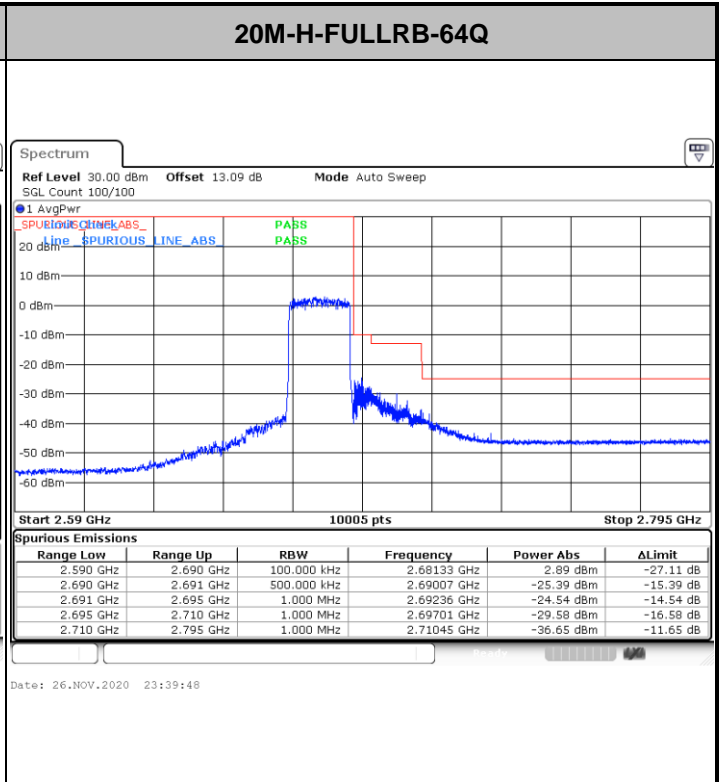
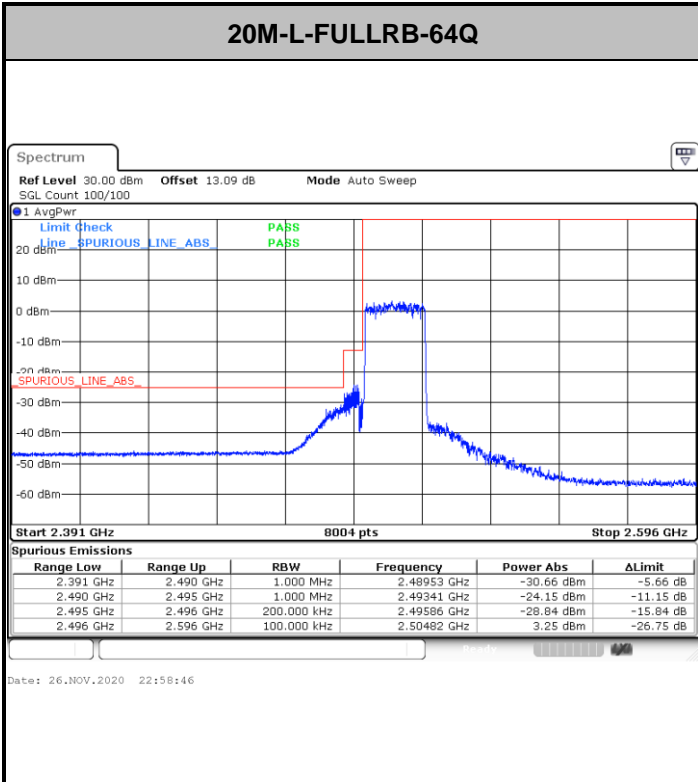


Date: 26.NOV.2020 23:01:05



Date: 26.NOV.2020 23:38:57





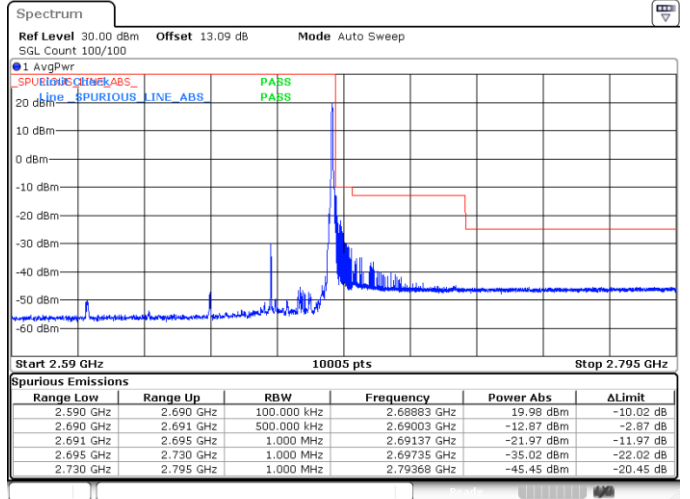
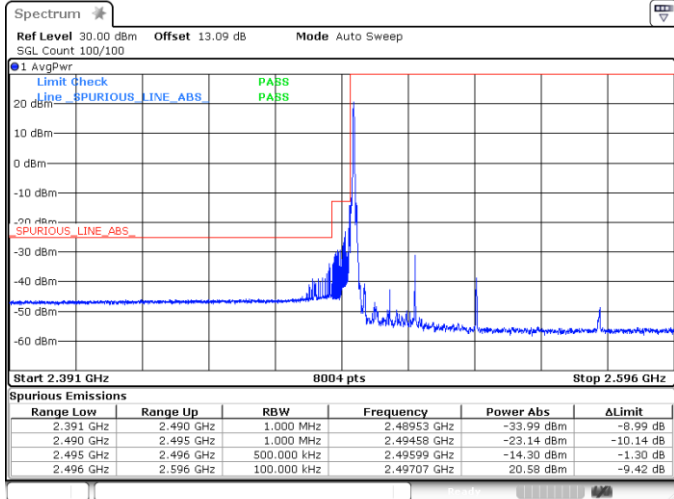




NR 40MHz

40M-L-1RB0-B

40M-H-1RBMAX-B

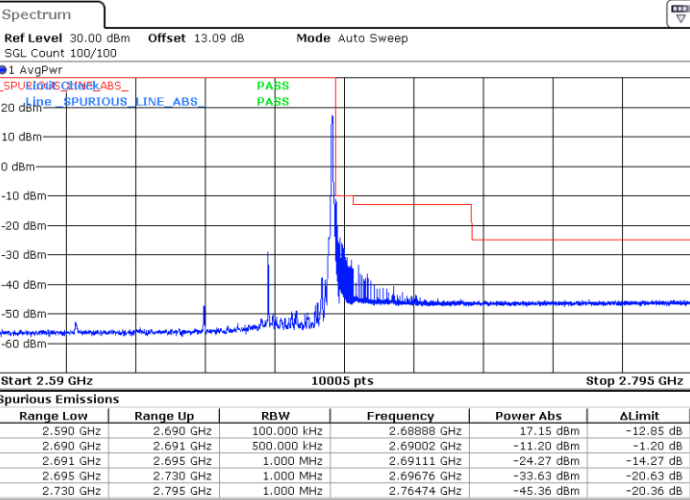
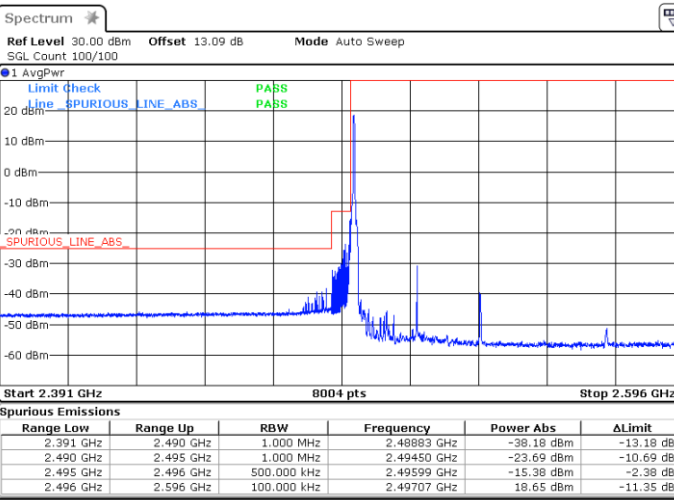


Date: 26.NOV.2020 23:58:51

Date: 27.NOV.2020 00:07:17

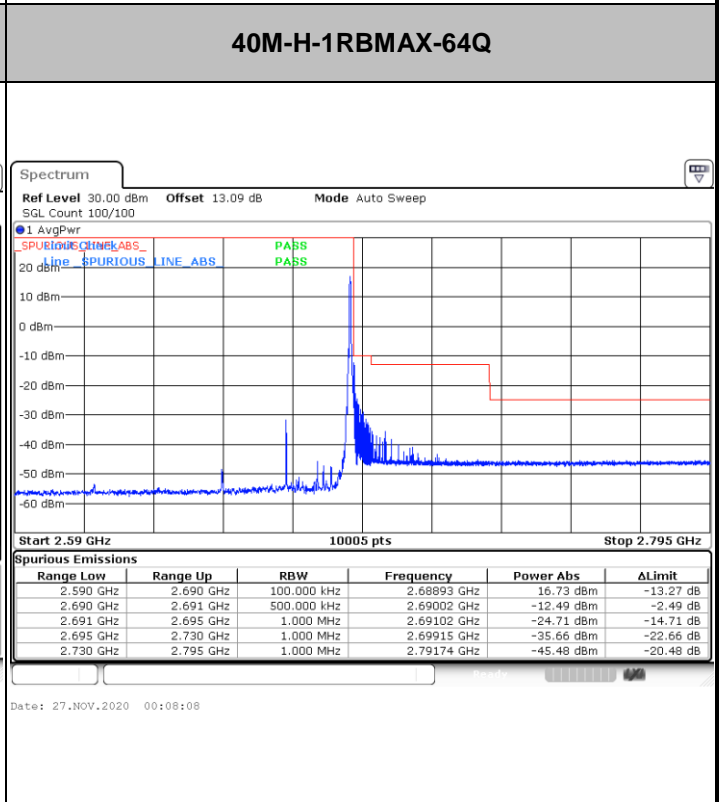
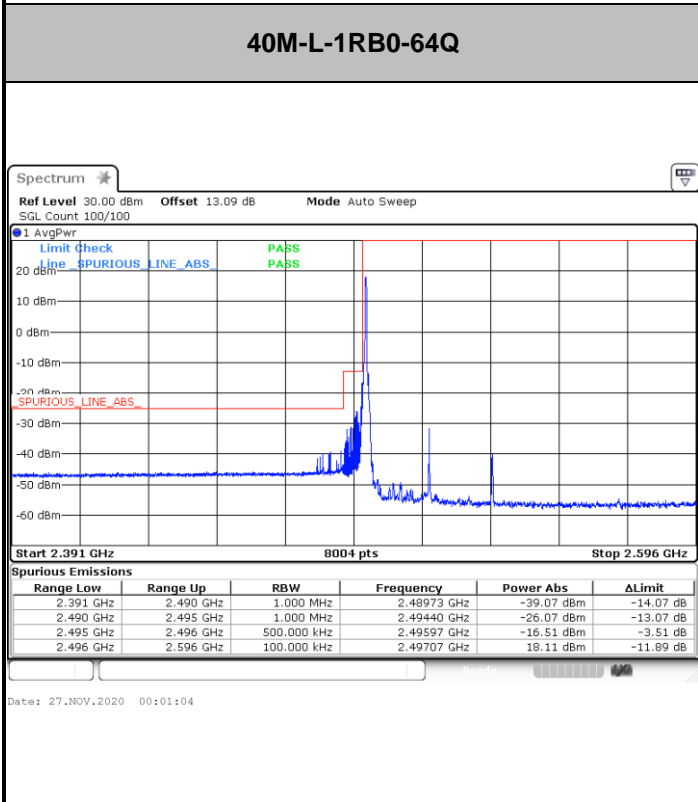
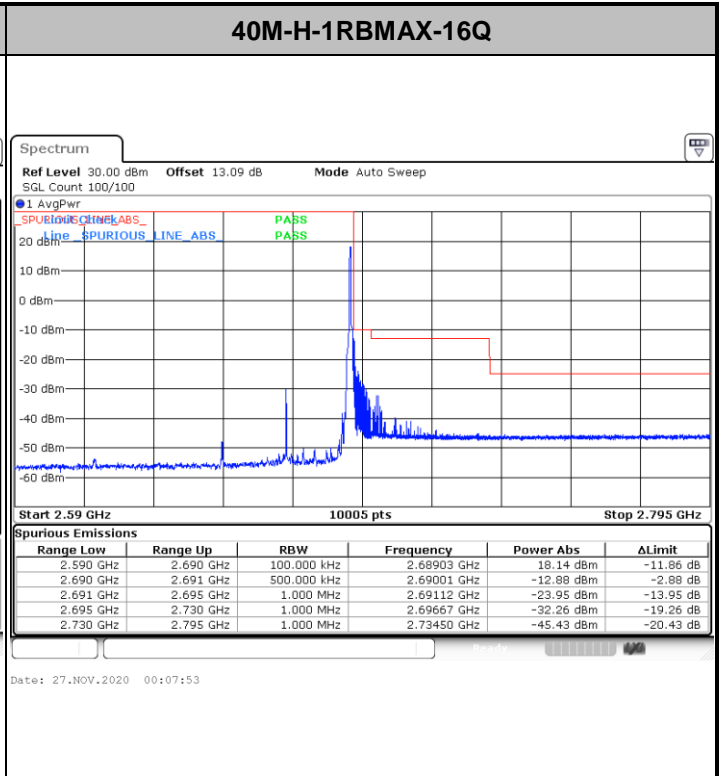
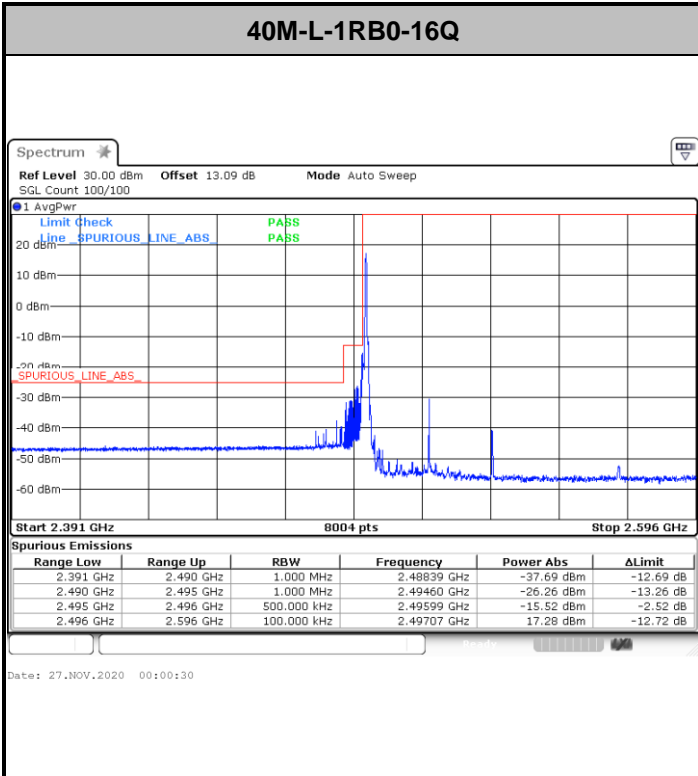
40M-L-1RB0-Q

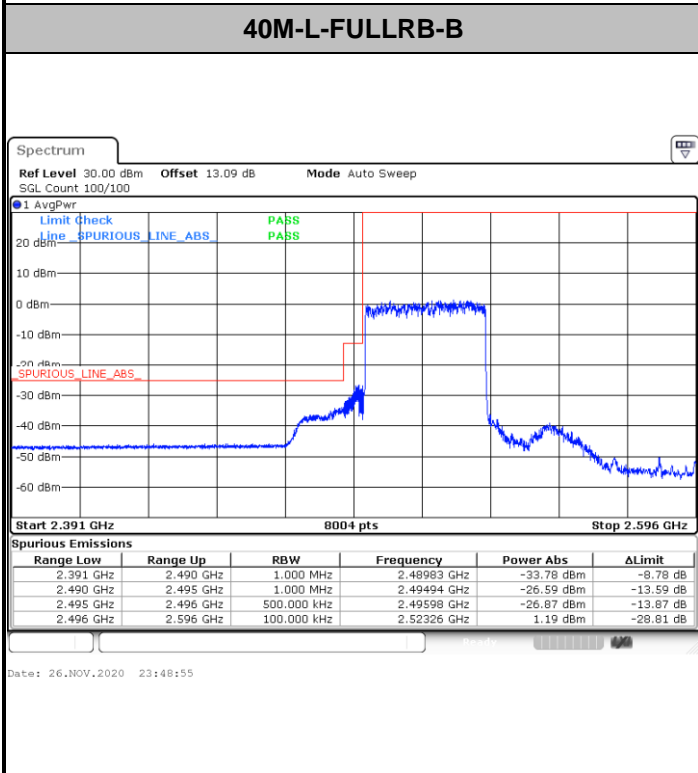
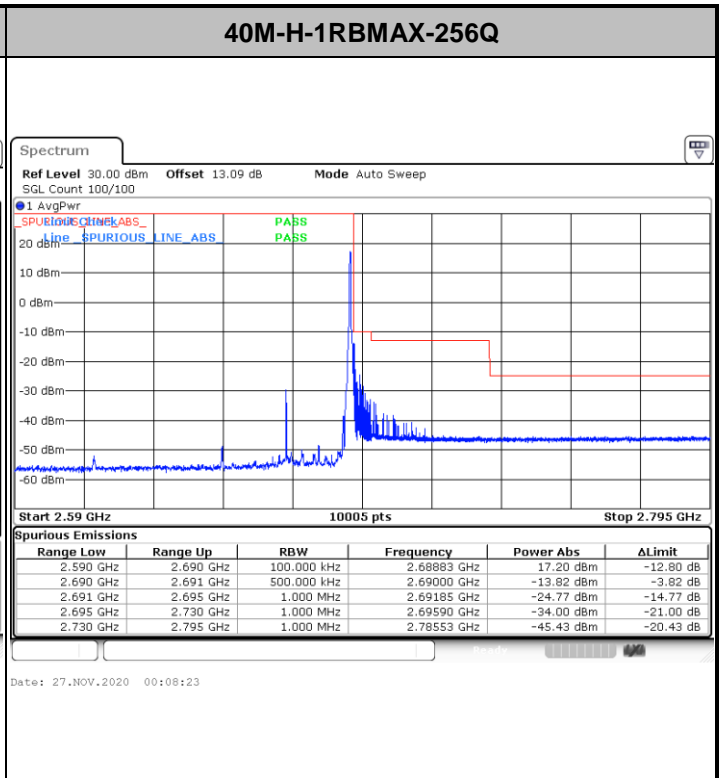
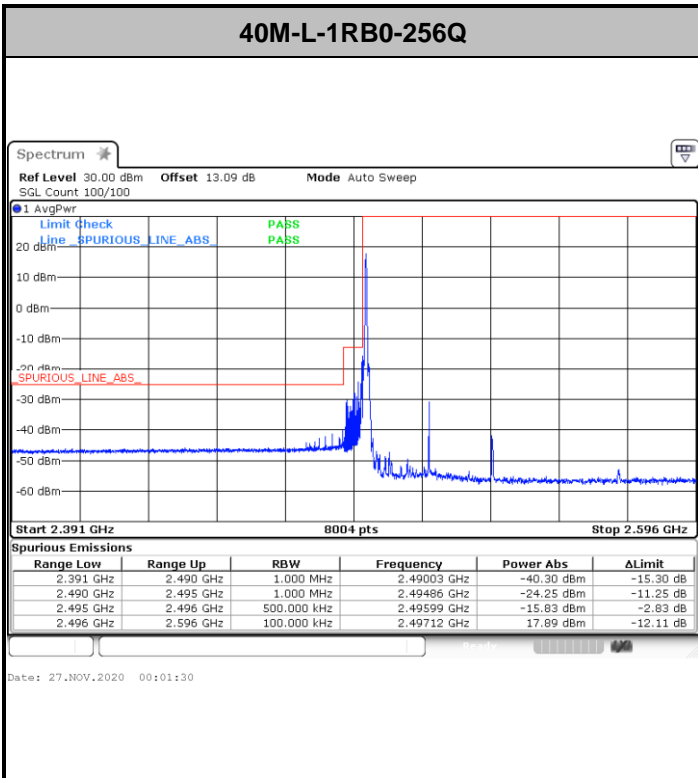
40M-H-1RBMAX-Q

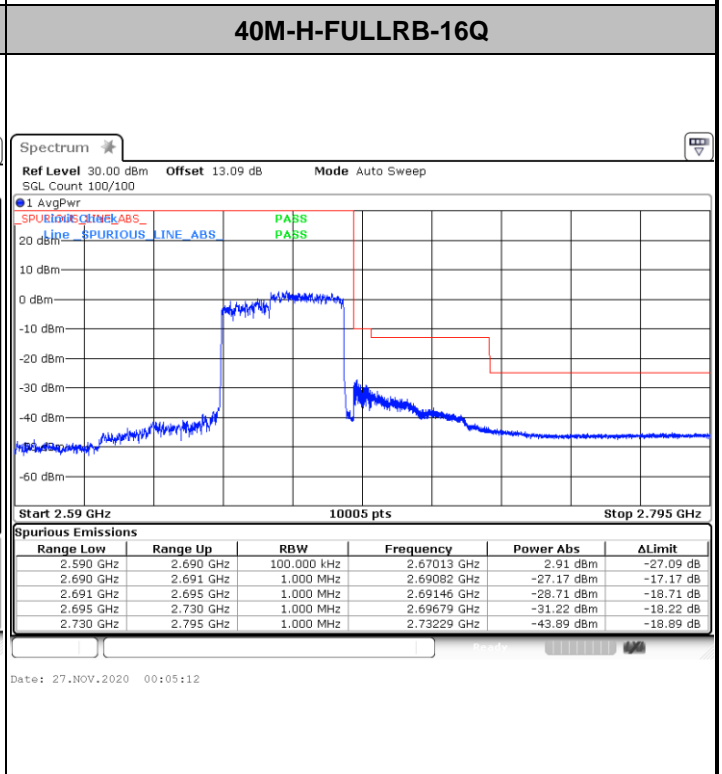
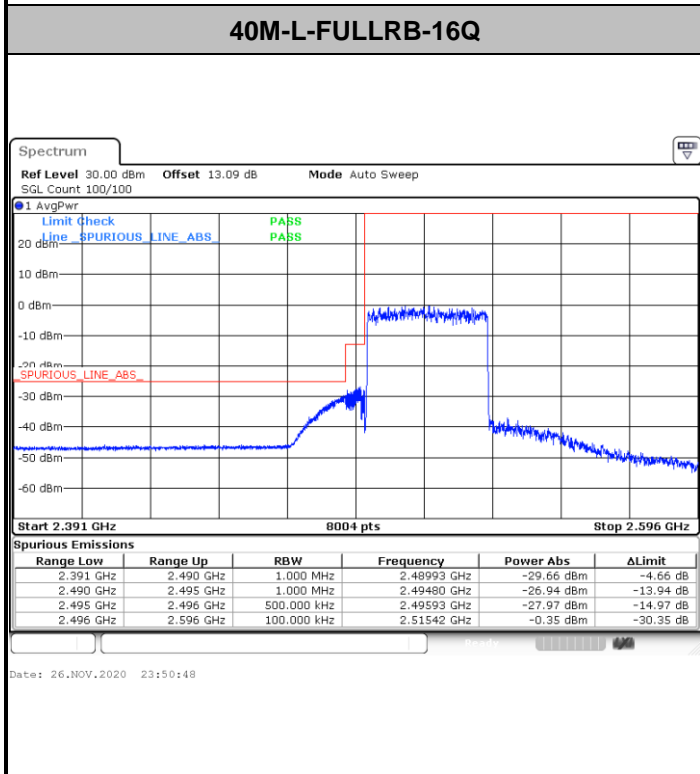
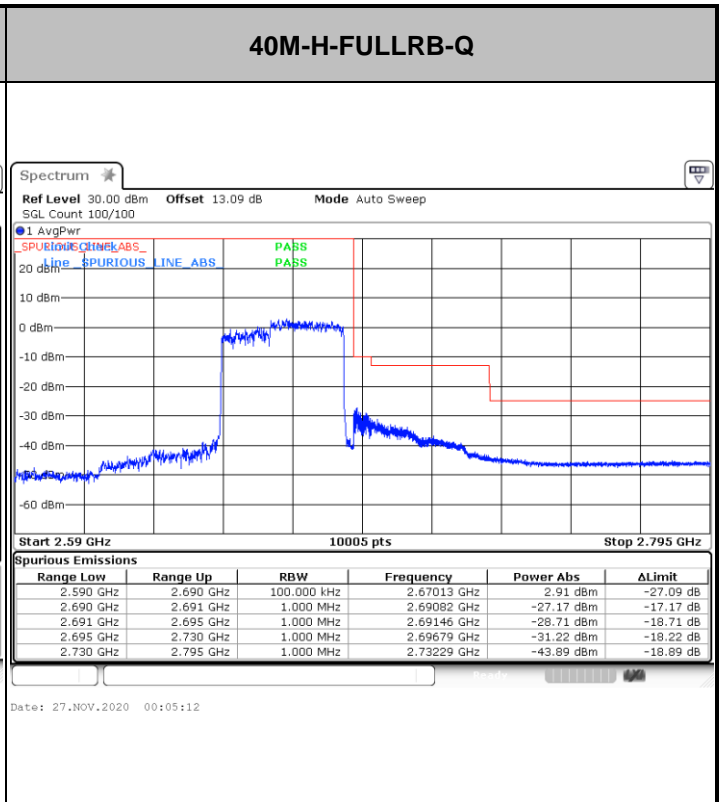
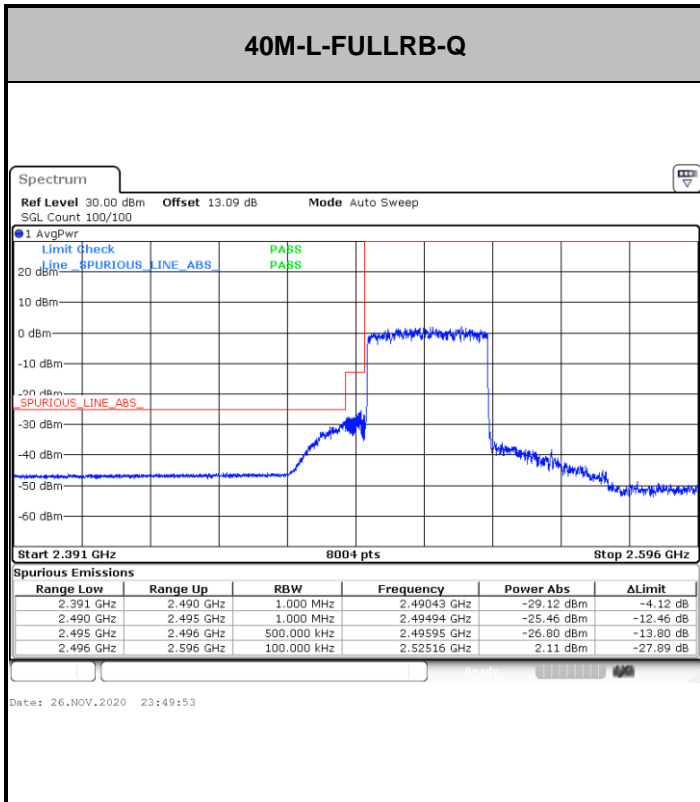


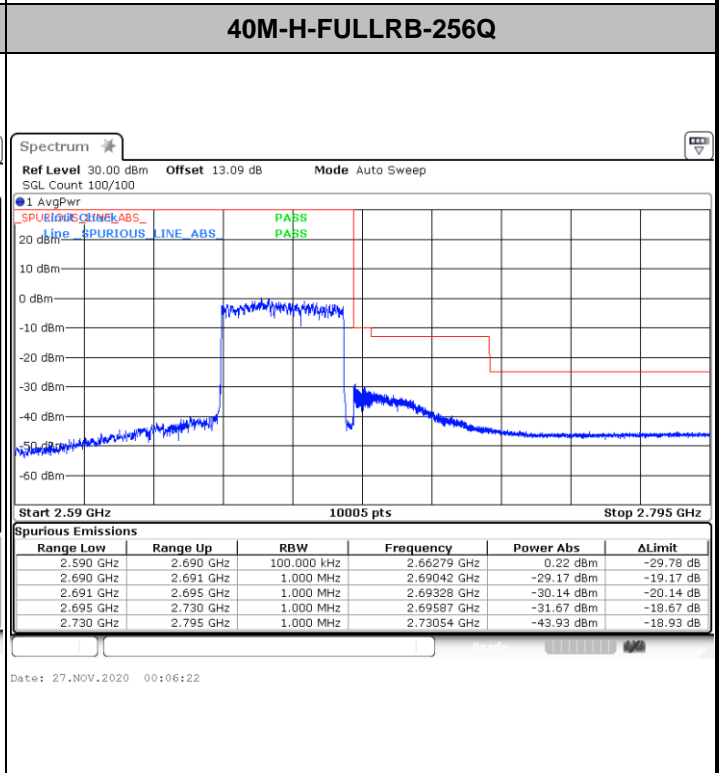
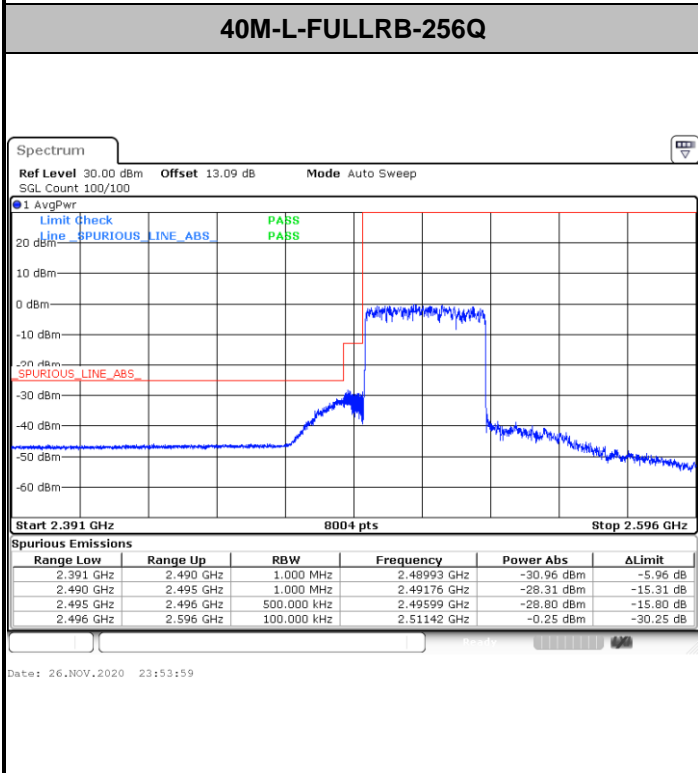
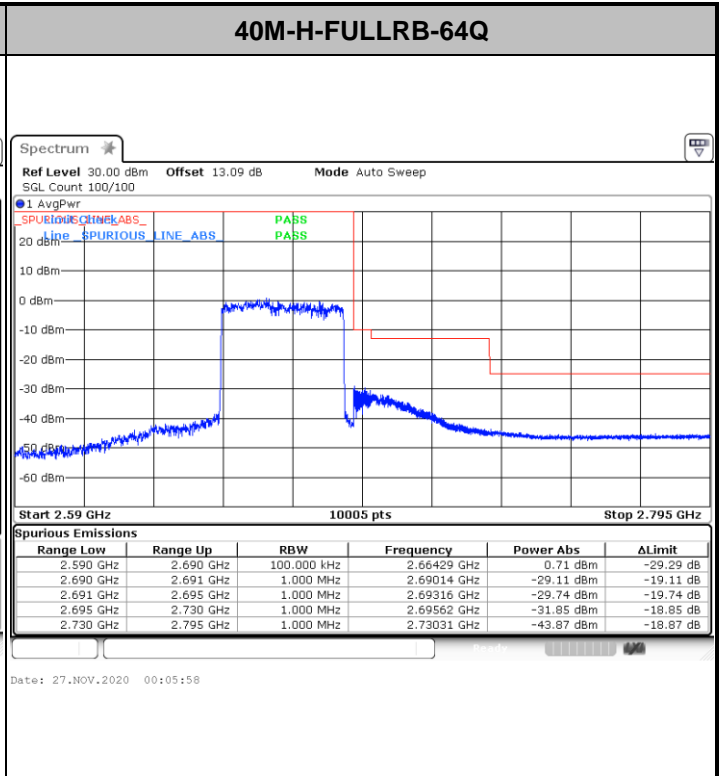
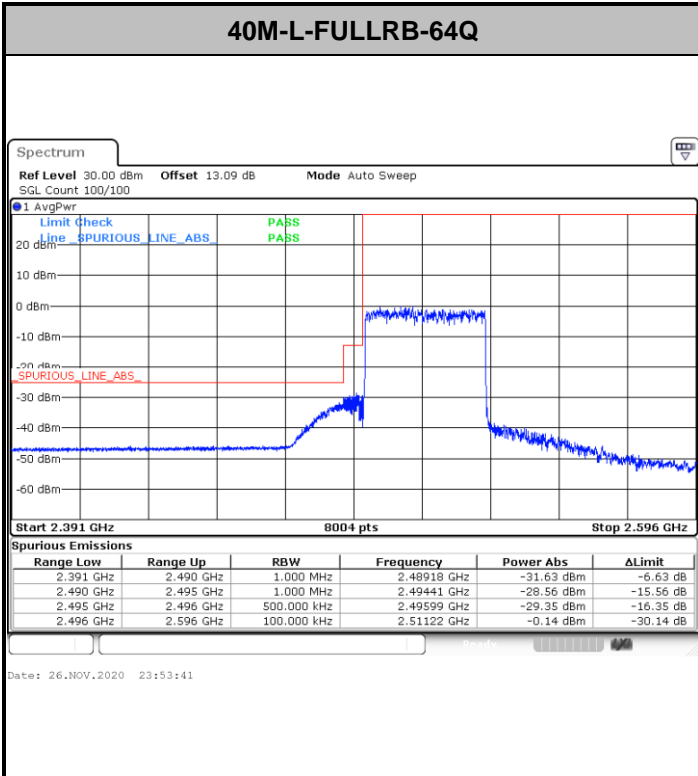
Date: 26.NOV.2020 23:59:24

Date: 27.NOV.2020 00:07:37





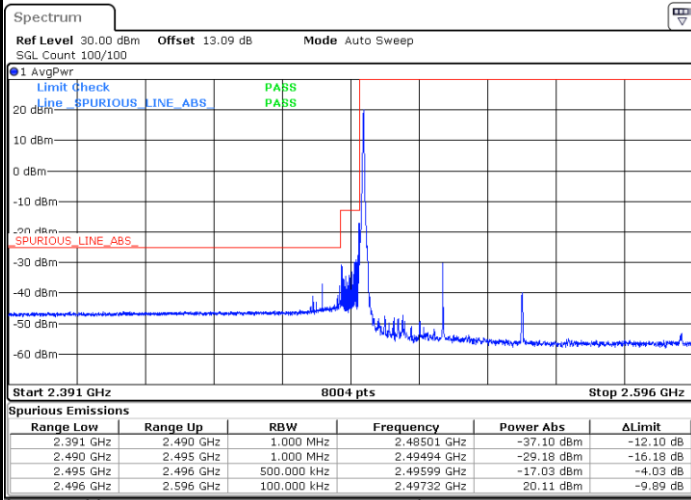






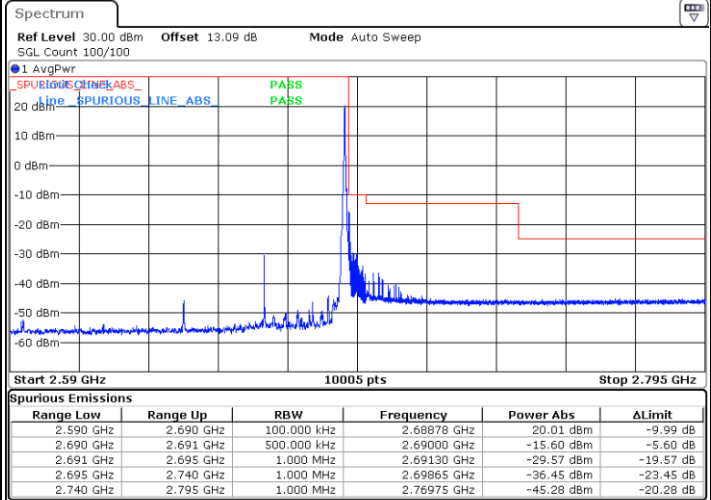
NR 50MHz

50M-L-1RB0-B



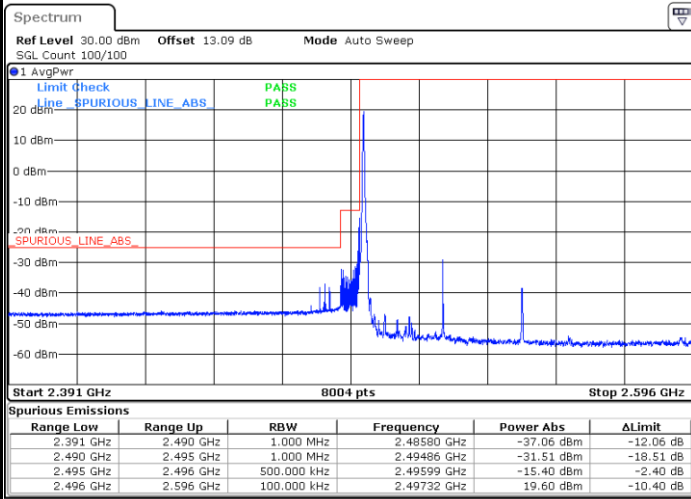
Date: 27.NOV.2020 00:12:00

50M-H-1RBMAX-B



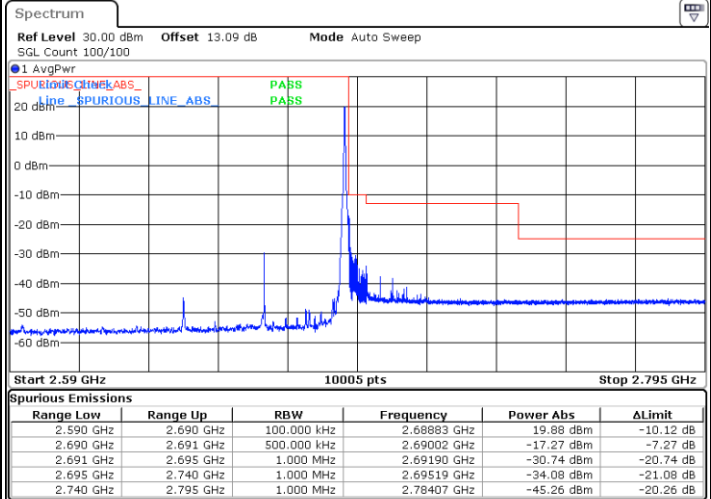
Date: 27.NOV.2020 00:17:34

50M-L-1RB0-Q

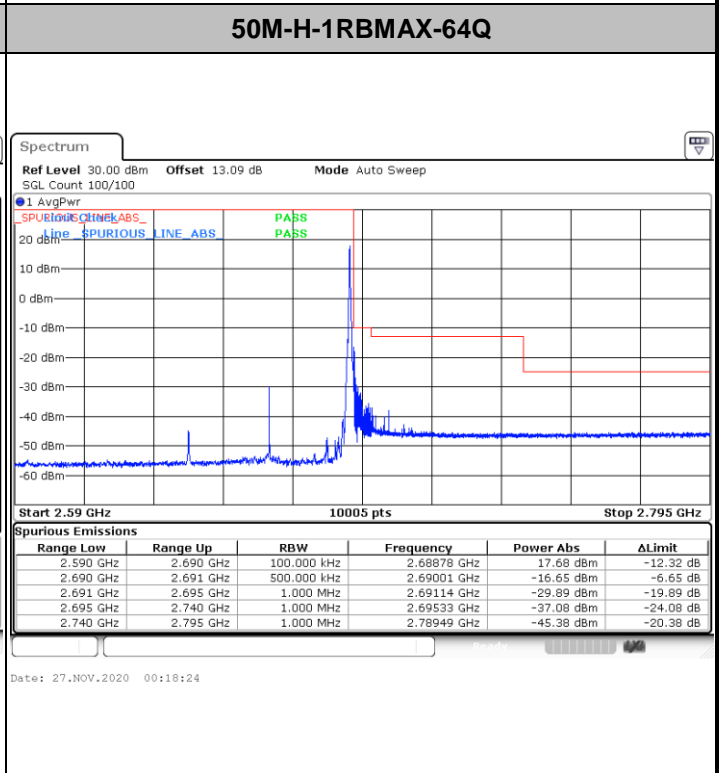
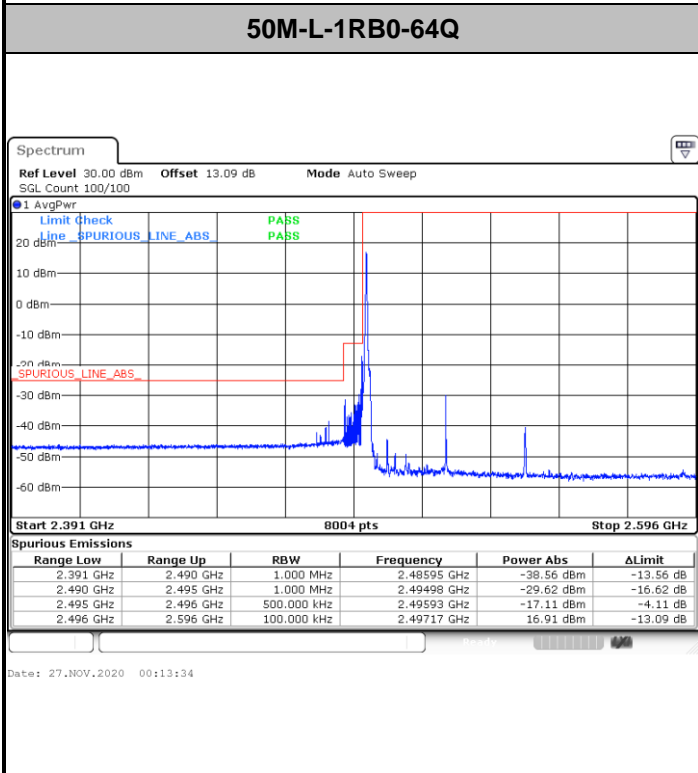
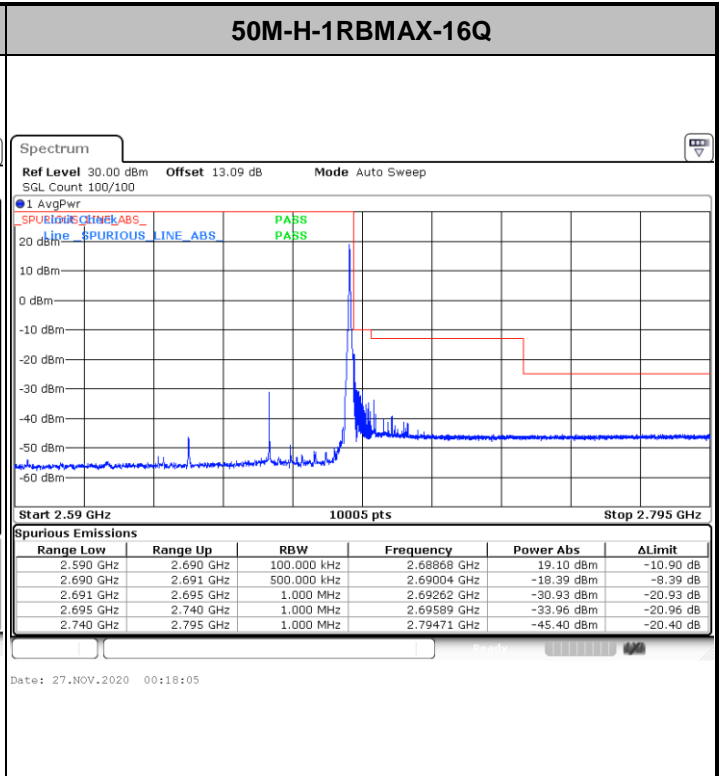
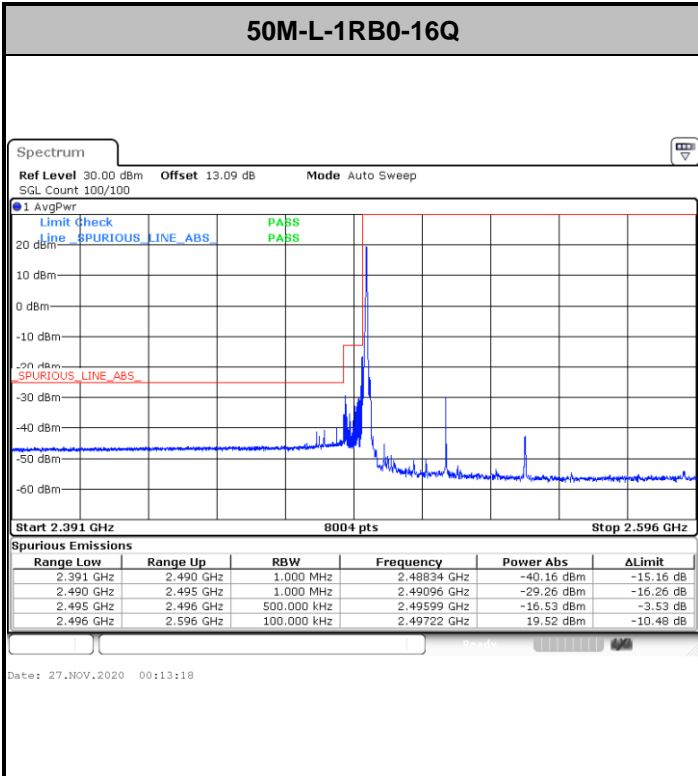


Date: 27.NOV.2020 00:13:01

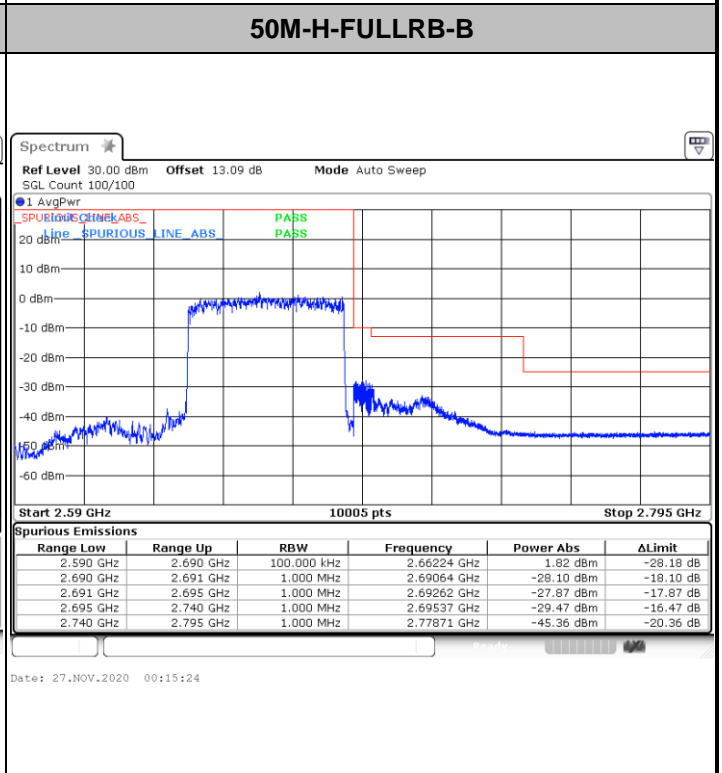
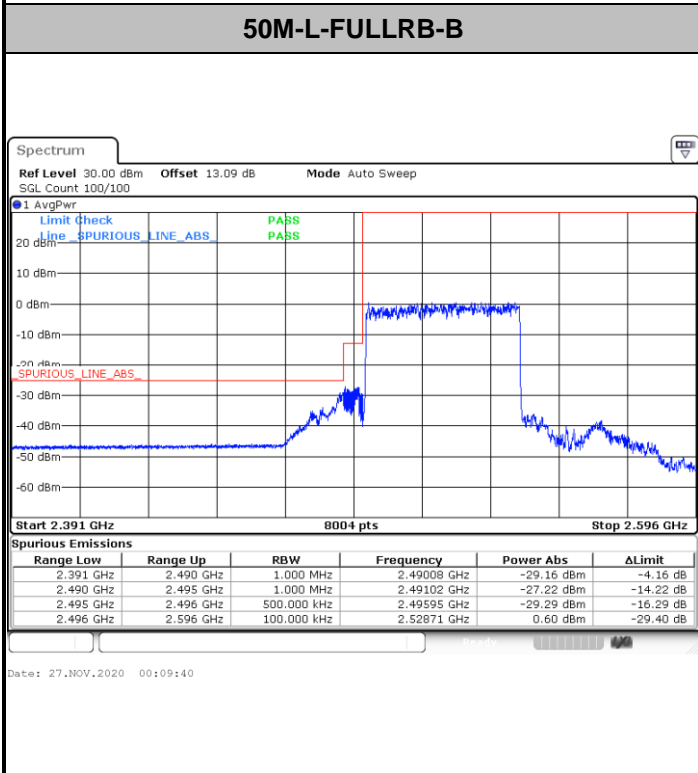
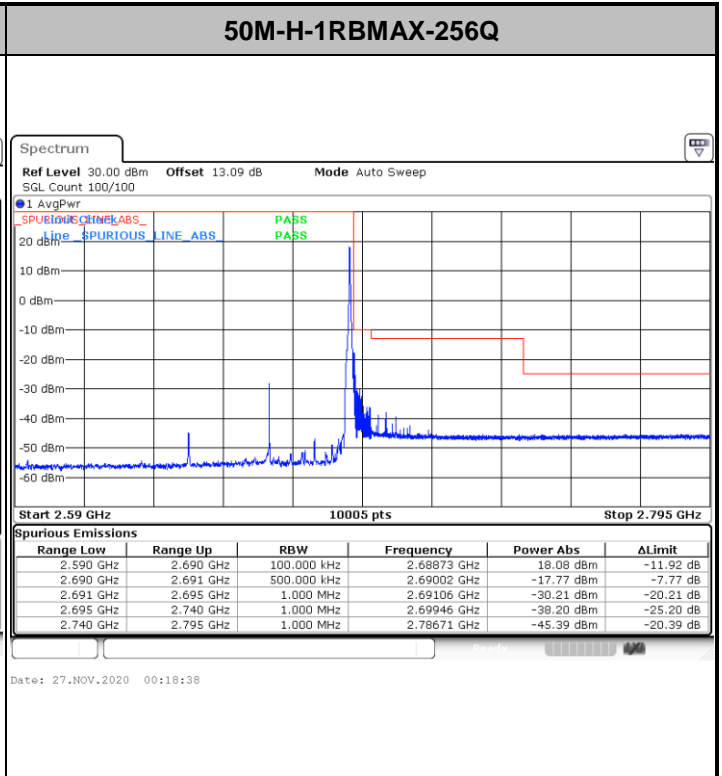
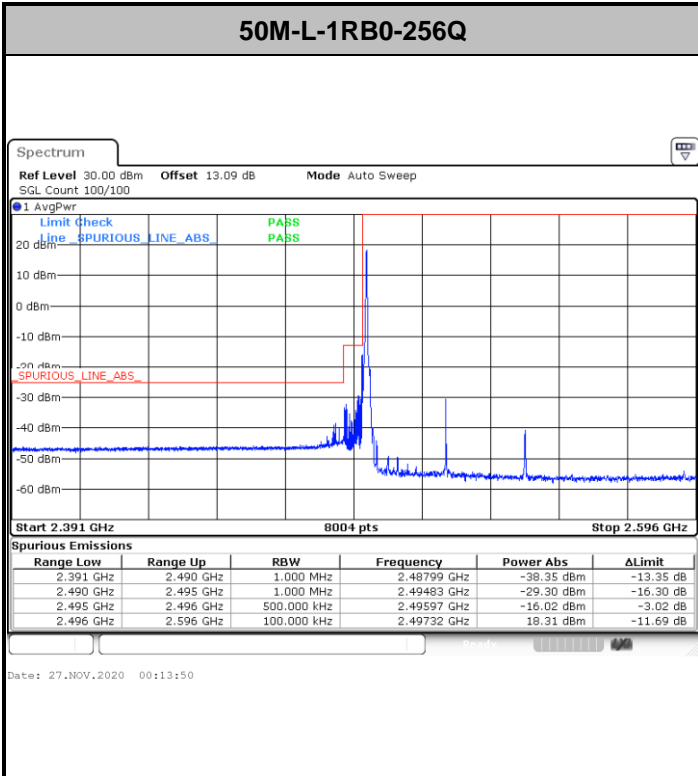
50M-H-1RBMAX-Q



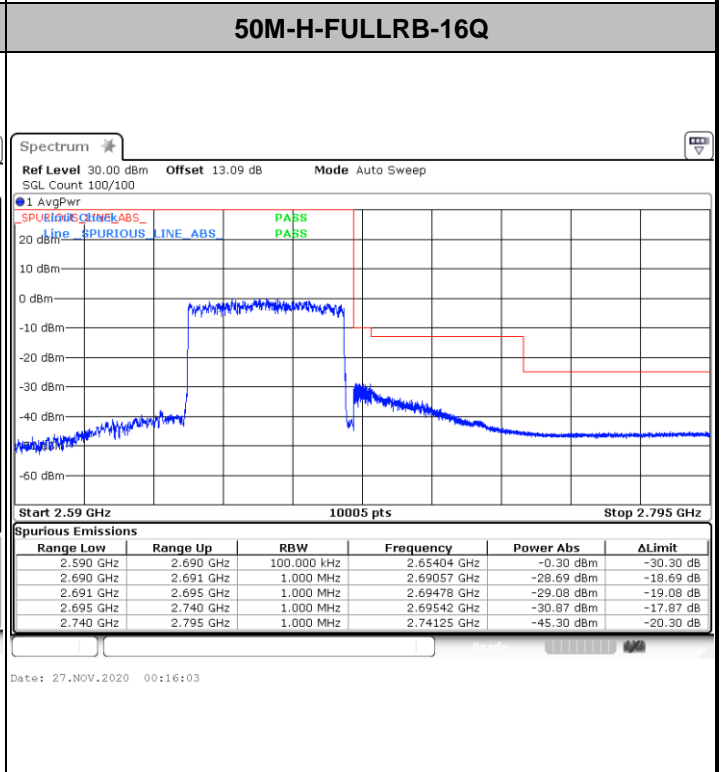
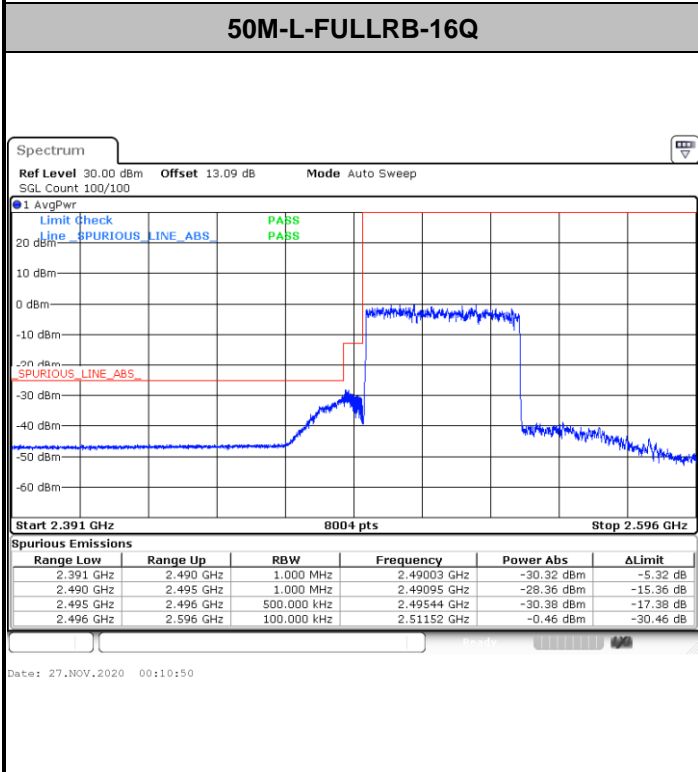
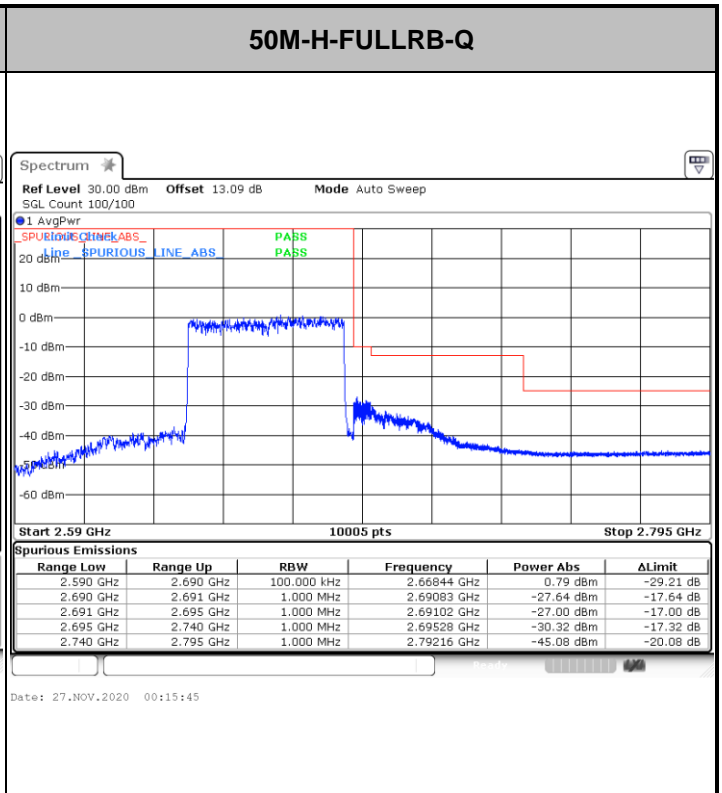
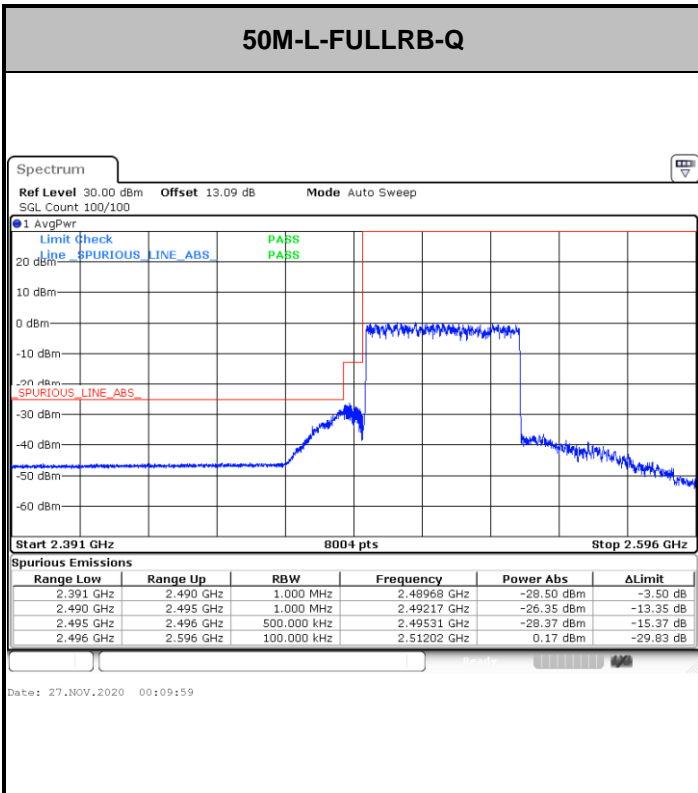
Date: 27.NOV.2020 00:17:50

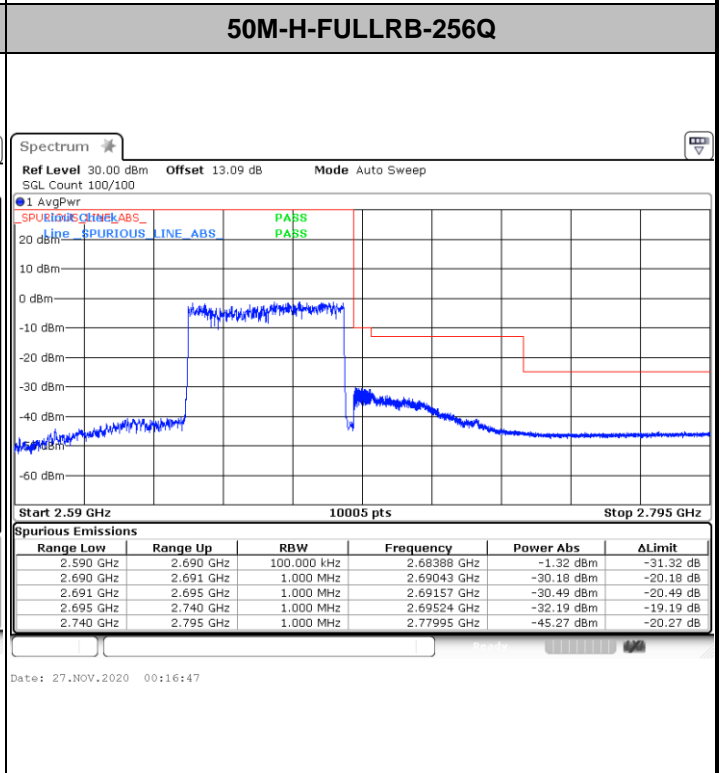
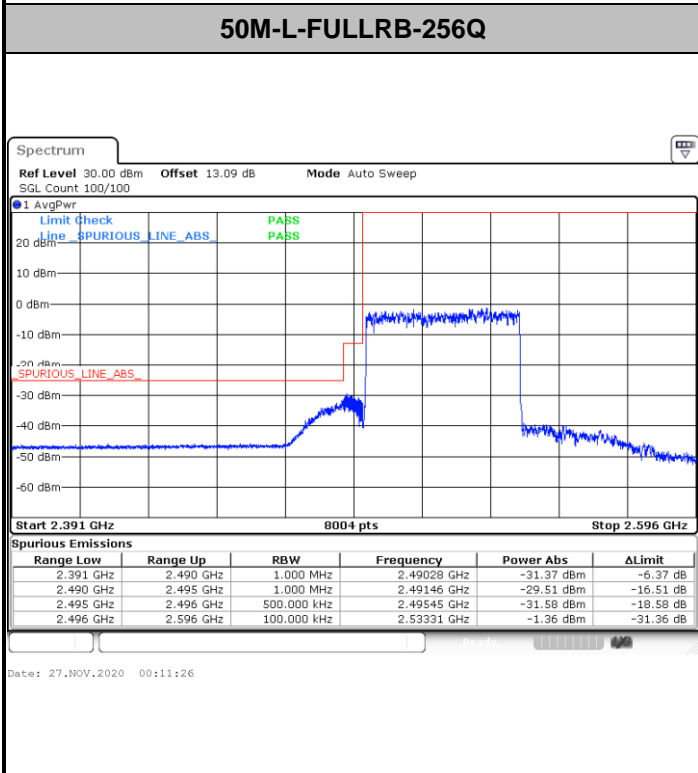
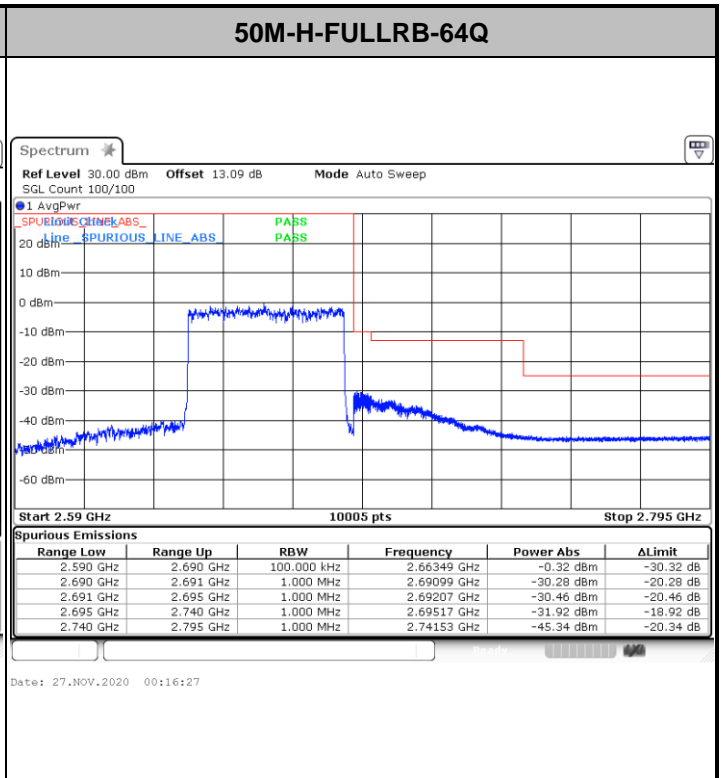
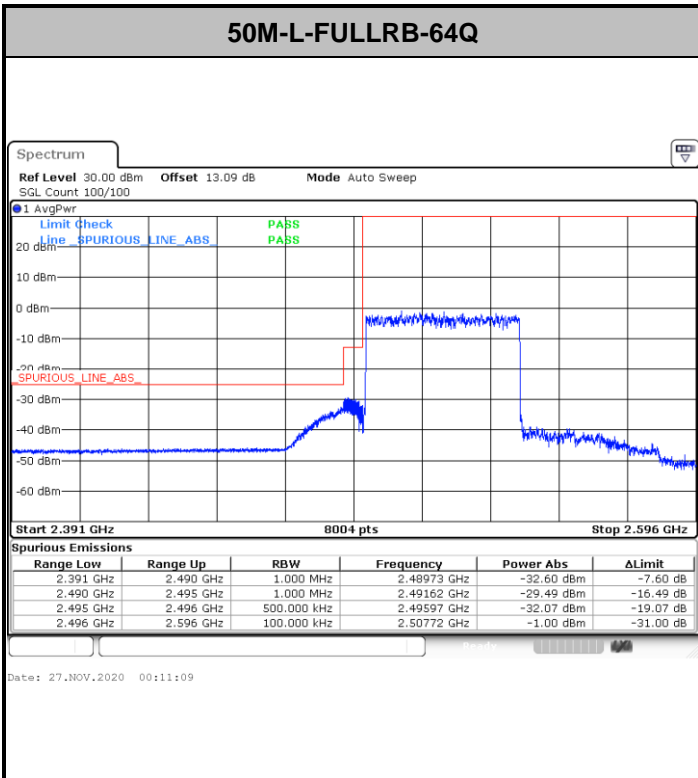








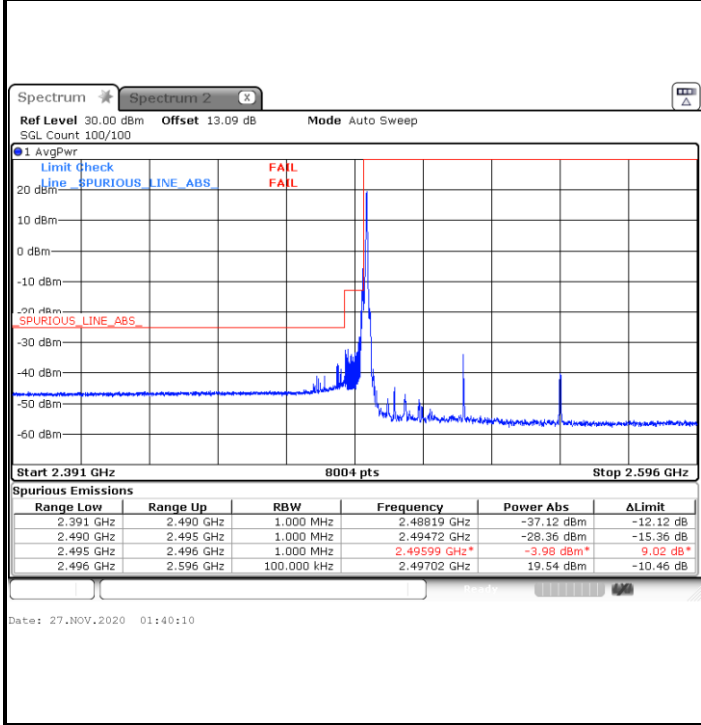




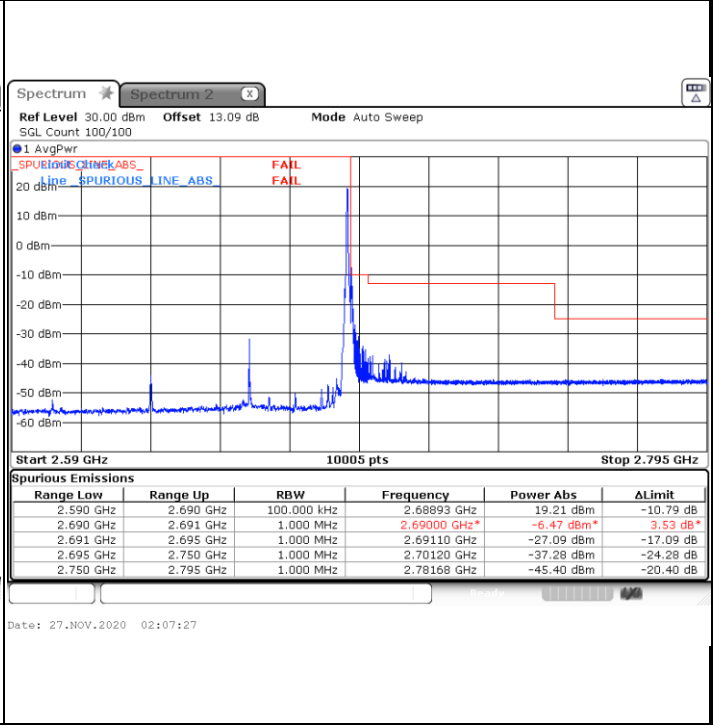


**NR 60MHz**

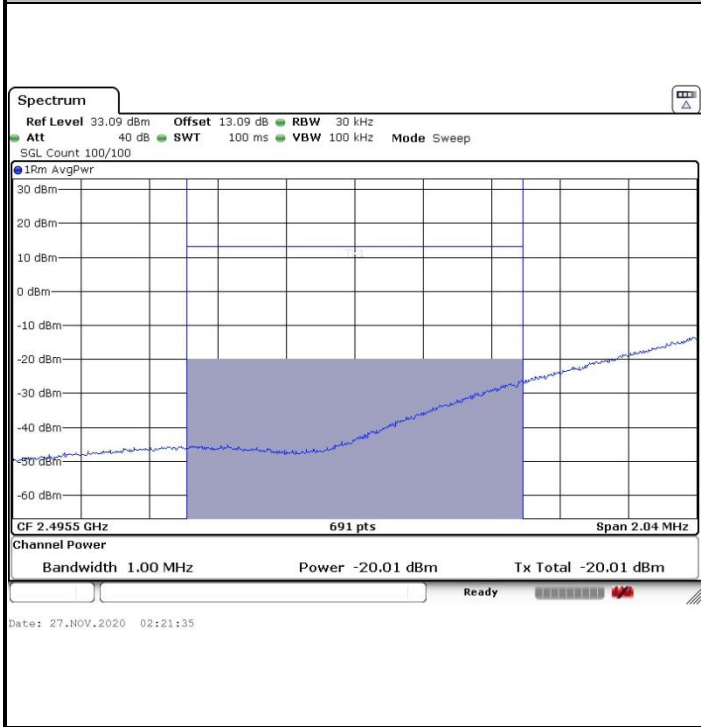
**60M-L-1RB0-B**



**60M-H-1RBMAX-B**



**Channel power < -13dBm PASS**



**Channel power < -10dBm PASS**

