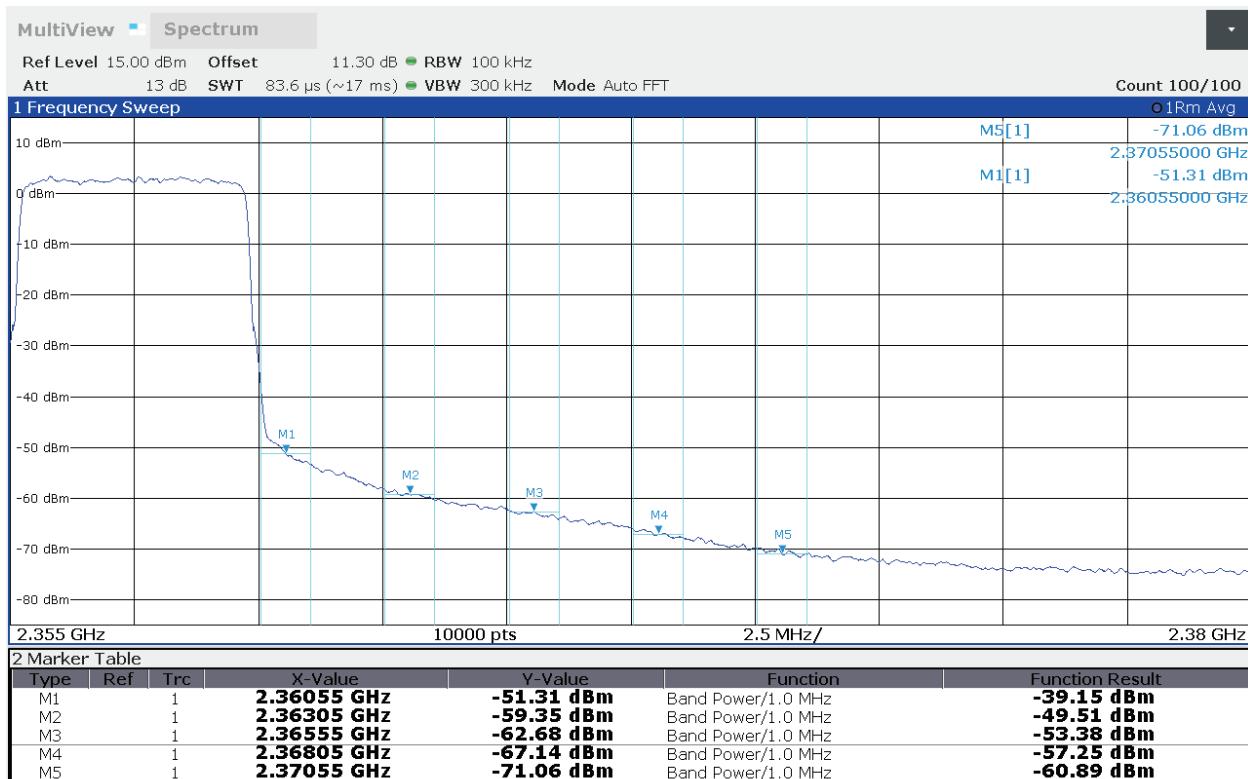
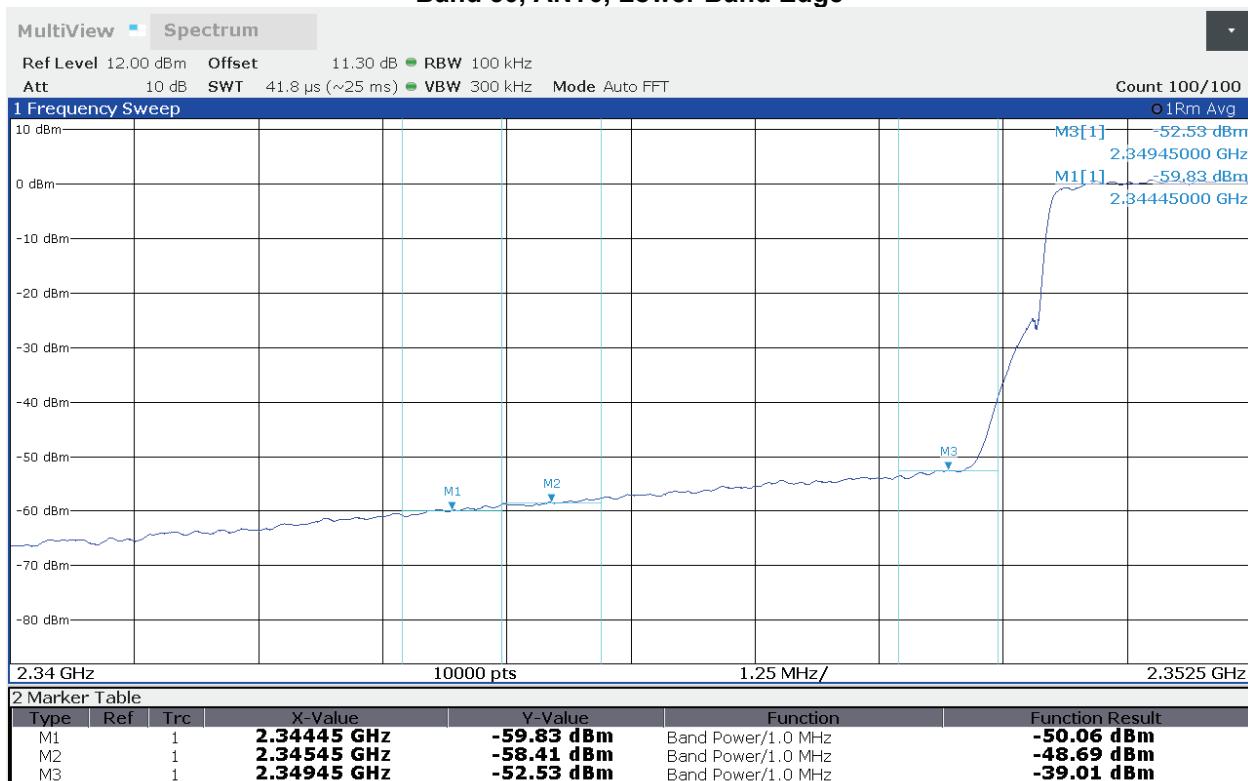


**TM3.1a-256QAM\_5 MHz Bandwidth  
Band 30, ANT1, High Channel, Upper Band Edge**



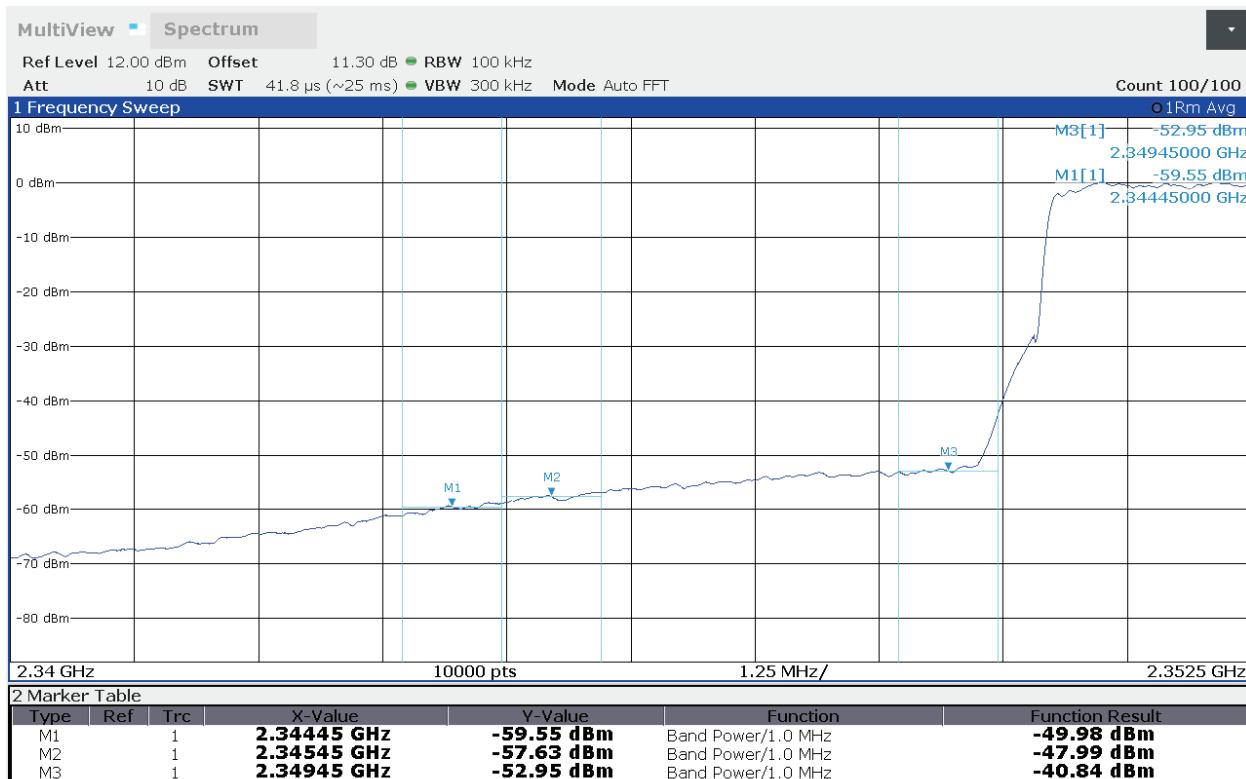
18:21:06 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
5MHz	2357.5	2360.55	-39.15	-13.0	-26.15
		2363.05	-49.51	-25.0	-24.51
		2365.55	-53.38	-40.0	-13.38
		2368.05	-57.25	-42.0	-15.25
		2370.55	-60.89	-45.0	-15.89

**TM1.1-QPSK\_10 MHz Bandwidth  
Band 30, ANT0, Lower Band Edge**


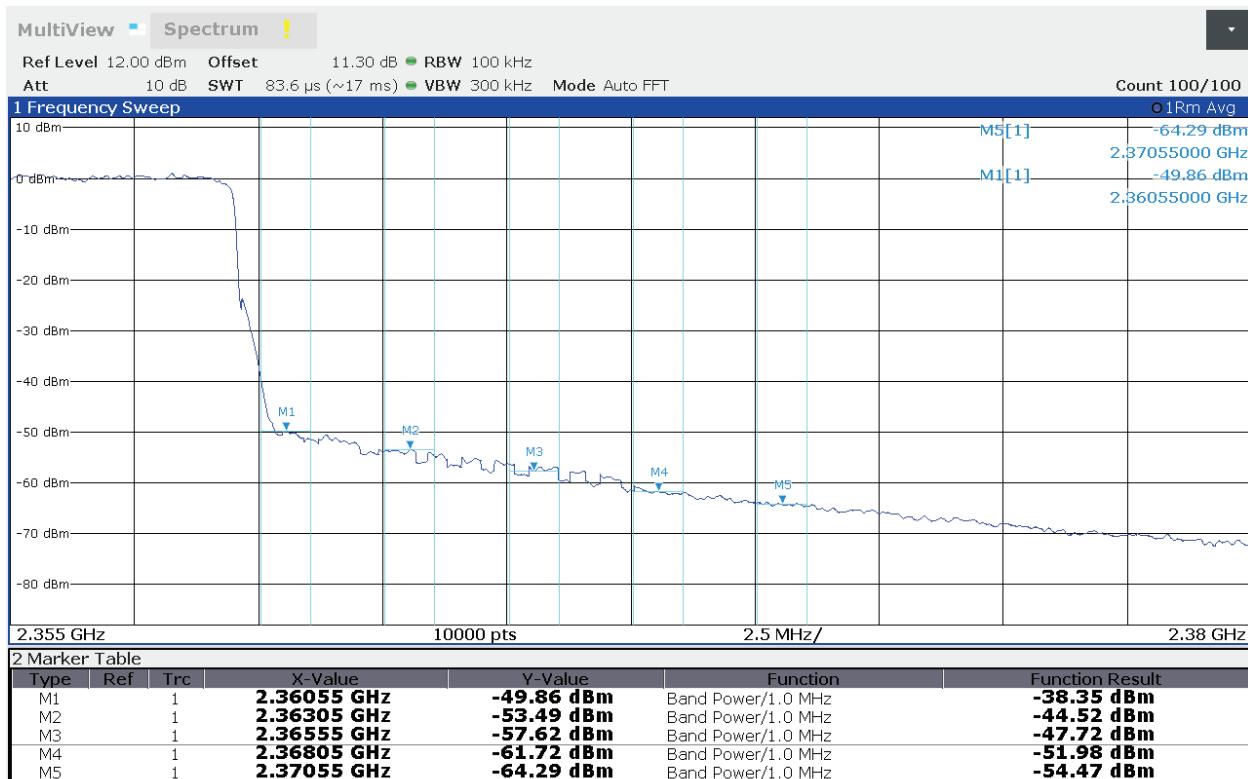
16:31:57 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-50.06	-45.0	-5.06
		2345.45	-48.69	-13.0	-35.69
		2349.45	-39.01	-13.0	-26.01

**TM1.1-QPSK\_10 MHz Bandwidth  
Band 30, ANT1, Lower Band Edge**


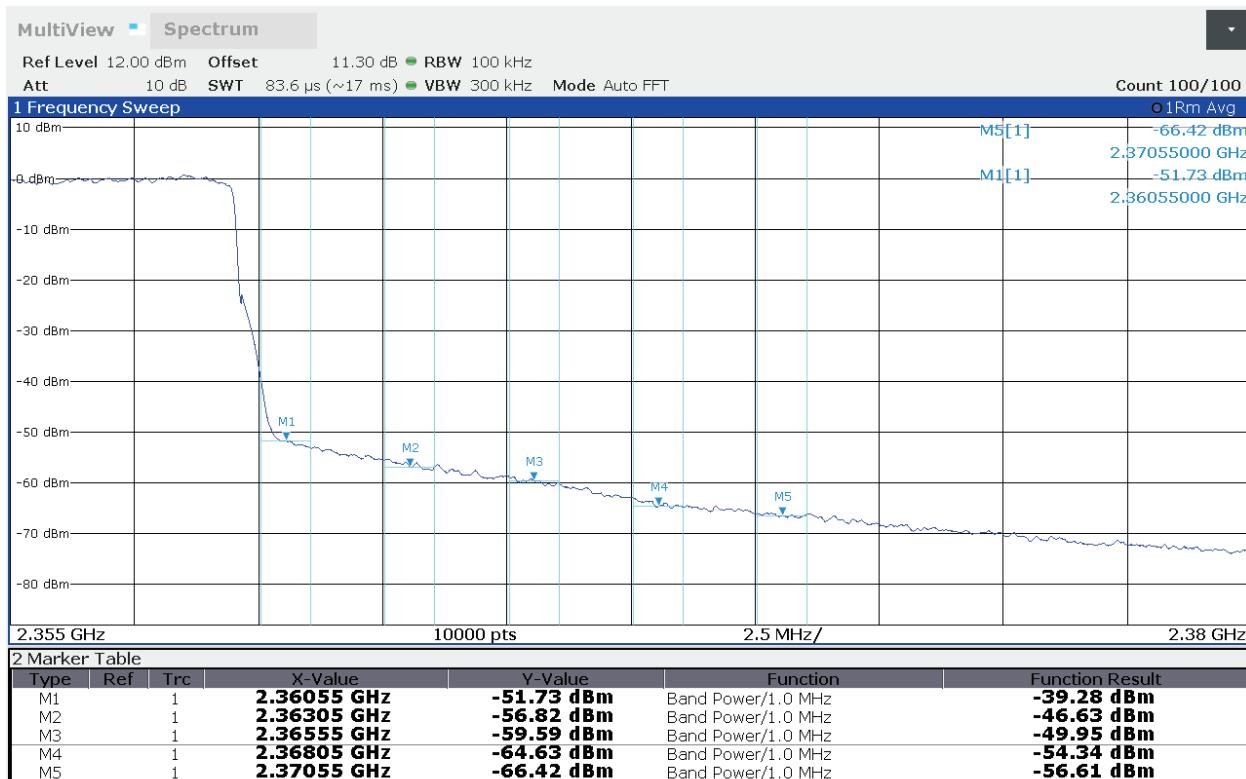
16:32:29 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-49.98	-45.0	-4.98
		2345.45	-47.99	-13.0	-34.99
		2349.45	-40.84	-13.0	-27.84

**TM1.1-QPSK\_10 MHz Bandwidth  
Band 30, ANT0, Upper Band Edge**


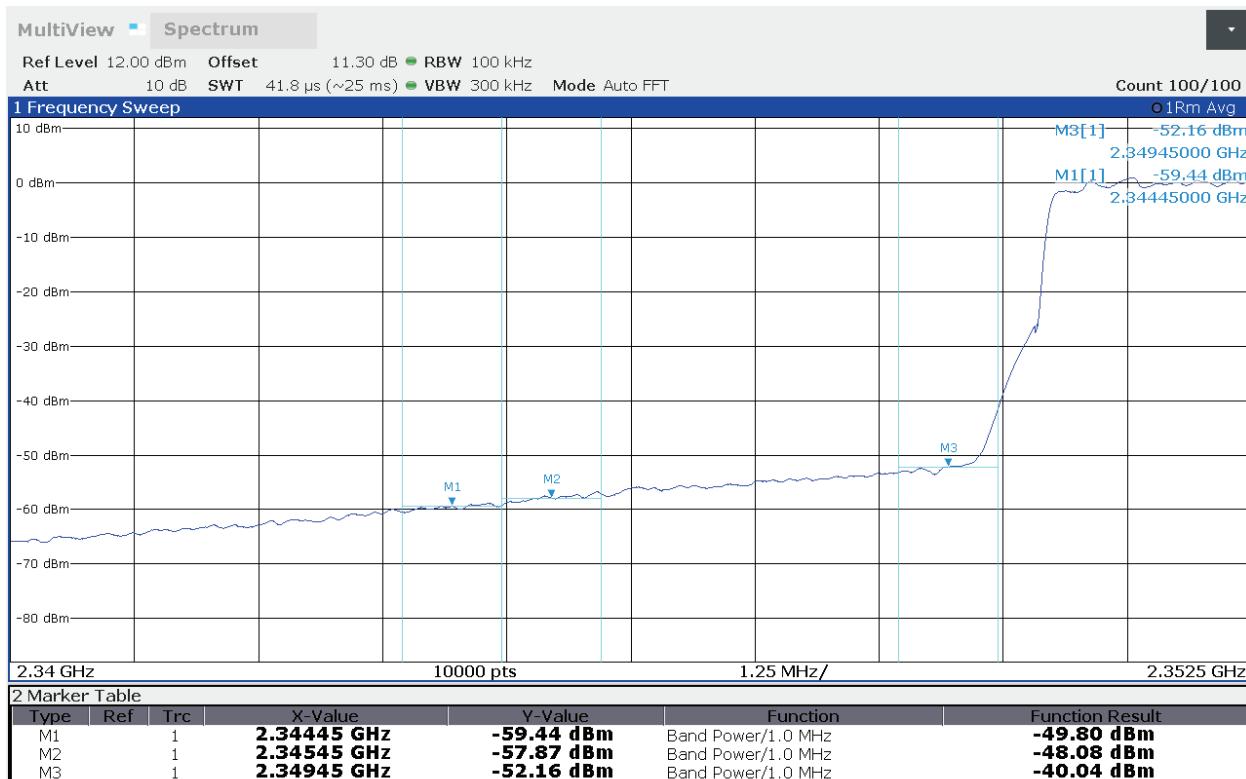
17:28:36 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-38.35	-13.0	-25.35
		2363.05	-44.52	-25.0	-19.52
		2365.55	-47.72	-40.0	-7.72
		2368.05	-51.98	-42.0	-9.98
		2370.55	-54.47	-45.0	-9.47

**TM1.1-QPSK\_10 MHz Bandwidth  
Band 30, ANT1, Upper Band Edge**


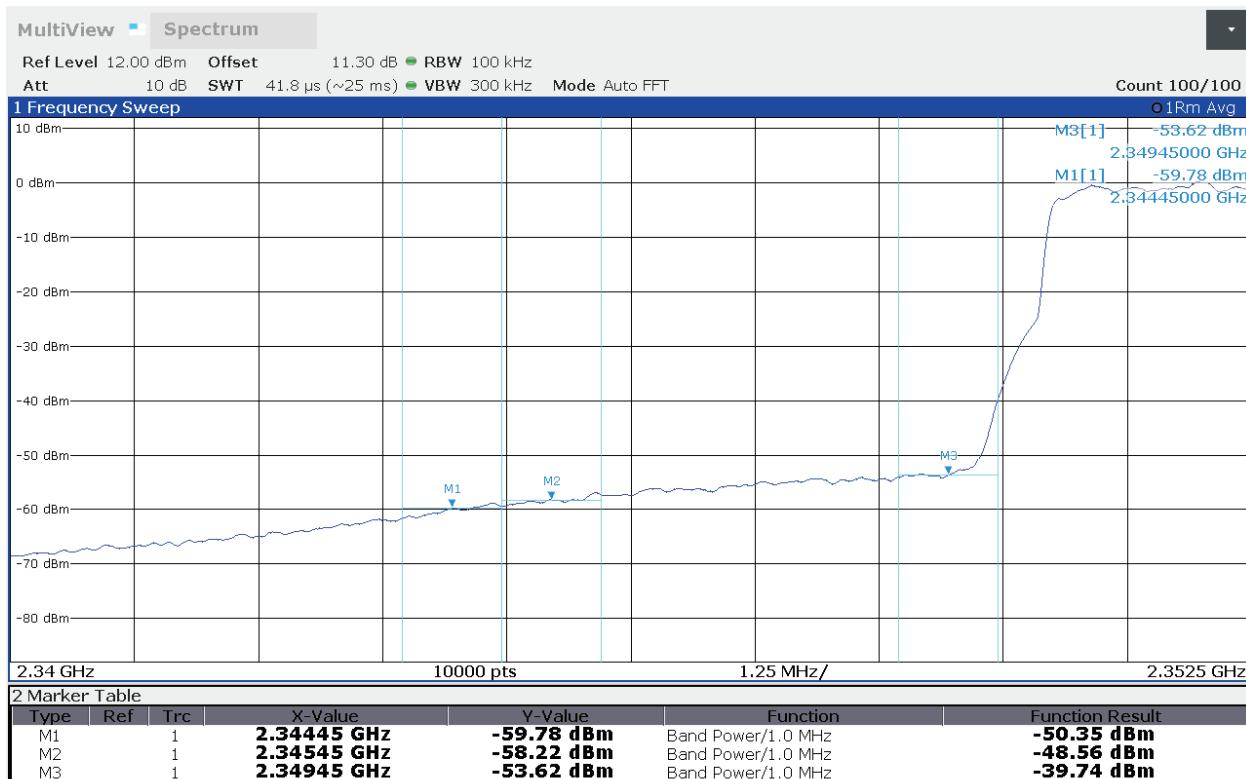
17:28:08 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-39.28	-13.0	-26.28
		2363.05	-46.63	-25.0	-21.63
		2365.55	-49.95	-40.0	-9.95
		2368.05	-54.34	-42.0	-12.34
		2370.55	-56.61	-45.0	-11.61

**TM3.2-16QAM\_10 MHz Bandwidth  
Band 30, ANT0, Lower Band Edge**


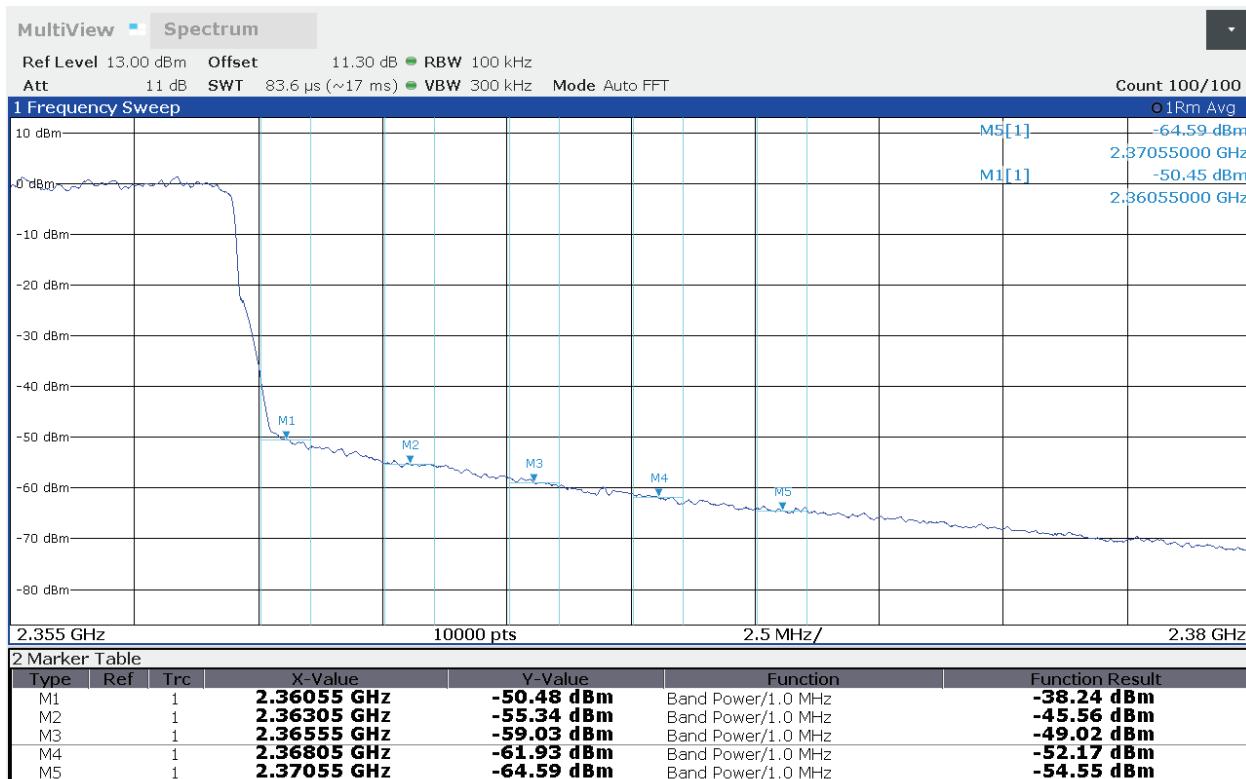
16:40:40 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-49.80	-45.0	-4.80
		2345.45	-48.08	-13.0	-35.08
		2349.45	-40.04	-13.0	-27.04

**TM3.2-16QAM\_10 MHz Bandwidth  
Band 30, ANT1, Lower Band Edge**


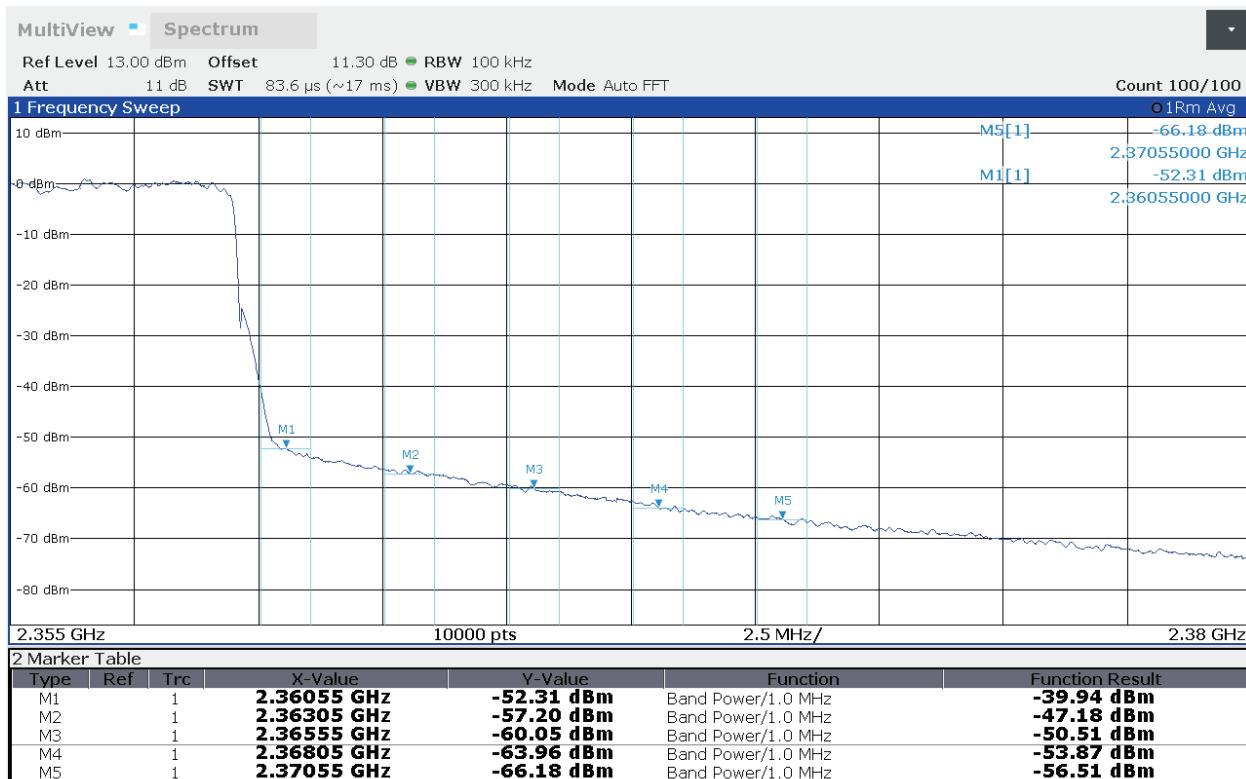
16:40:15 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-50.35	-45.0	-5.35
		2345.45	-48.56	-13.0	-35.56
		2349.45	-39.74	-13.0	-26.74

**TM3.2-16QAM\_10 MHz Bandwidth  
Band 30, ANT0, Upper Band Edge**


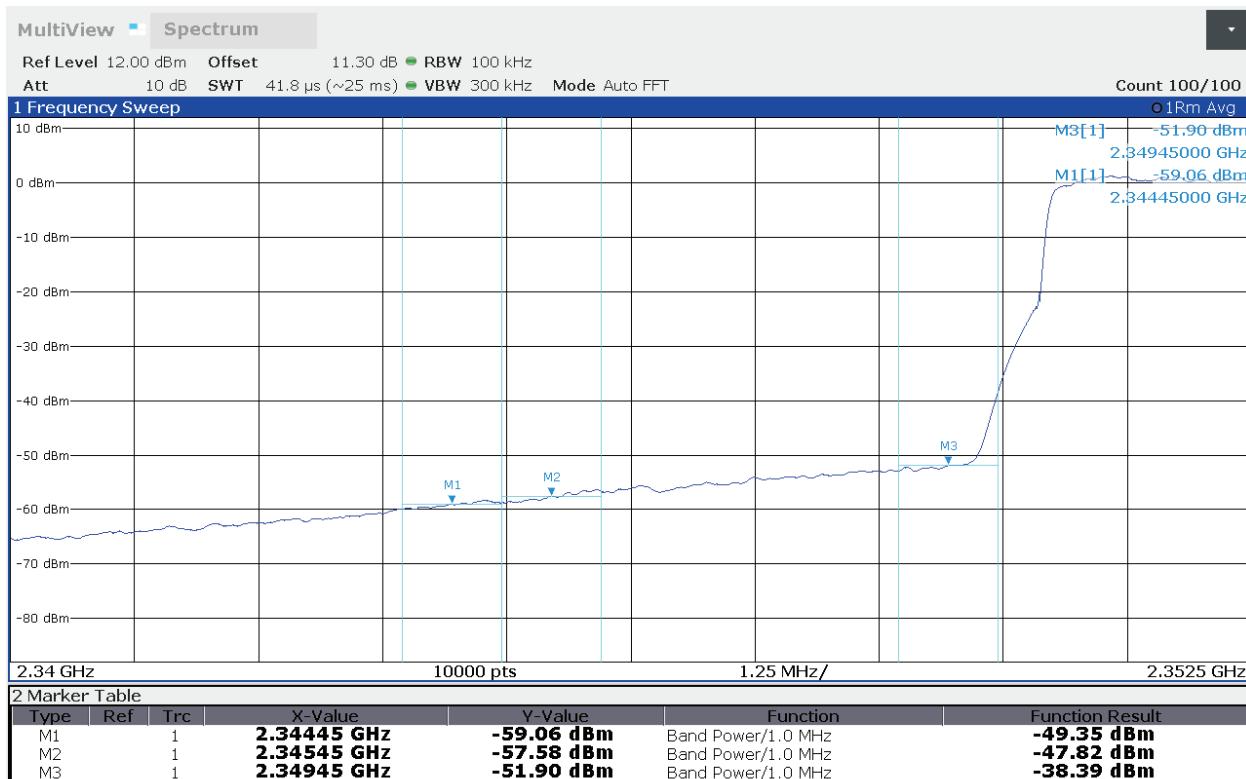
17:43:39 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-38.24	-13.0	-25.24
		2363.05	-45.56	-25.0	-20.56
		2365.55	-49.02	-40.0	-9.02
		2368.05	-52.17	-42.0	-10.17
		2370.55	-54.55	-45.0	-9.55

**TM3.2-16QAM\_10 MHz Bandwidth  
Band 30, ANT1, Upper Band Edge**


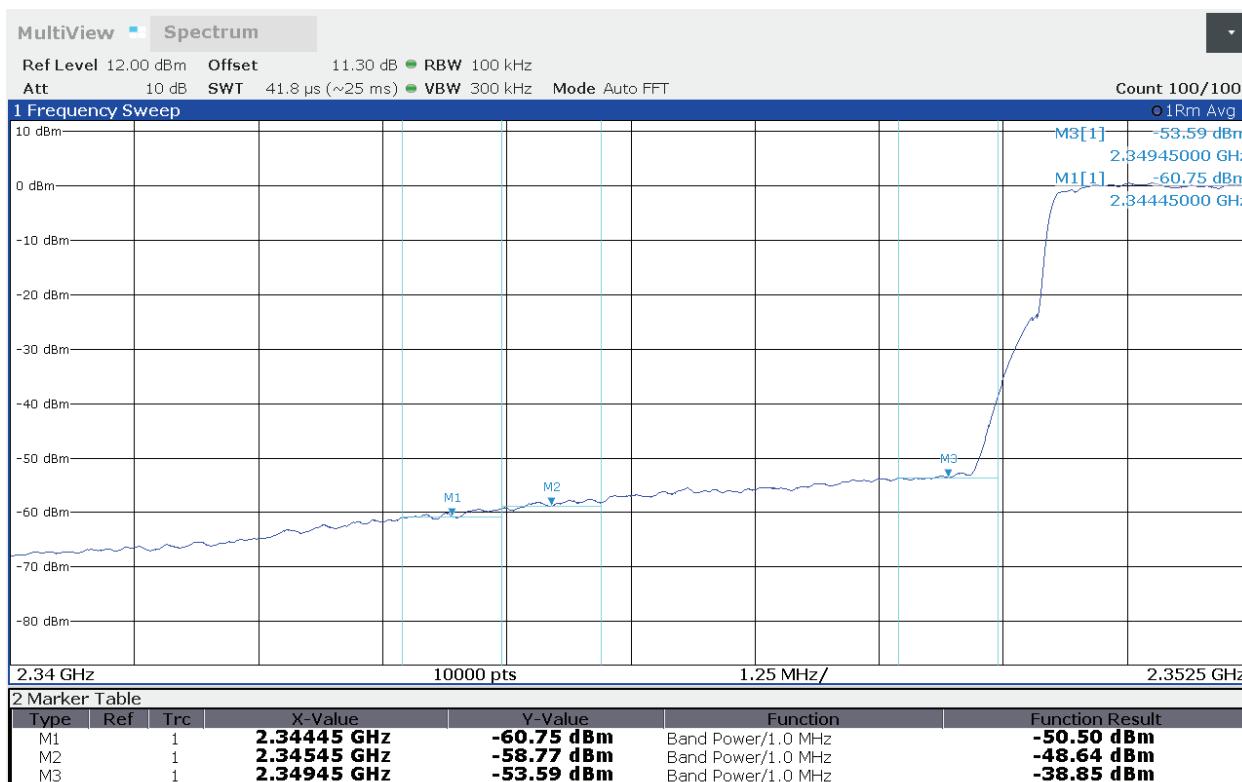
17:43:13 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-39.94	-13.0	-26.94
		2363.05	-47.18	-25.0	-22.18
		2365.55	-50.51	-40.0	-10.51
		2368.05	-53.87	-42.0	-11.87
		2370.55	-56.61	-45.0	-11.61

**TM3.1-64QAM\_10 MHz Bandwidth  
Band 30, ANT0, Lower Band Edge**


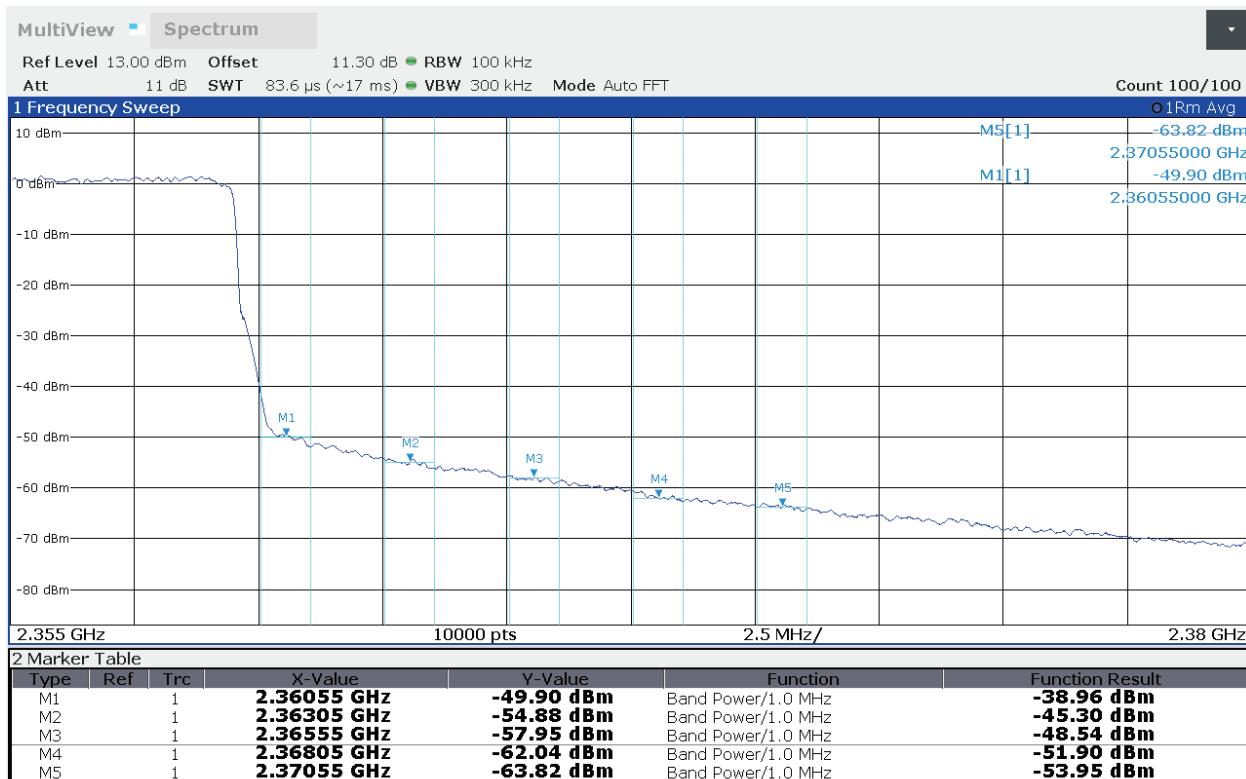
16:47:27 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-49.35	-45.0	-4.35
		2345.45	-47.82	-13.0	-34.82
		2349.45	-38.39	-13.0	-25.39

**TM3.1-64QAM\_10 MHz Bandwidth  
Band 30, ANT1, Lower Band Edge**


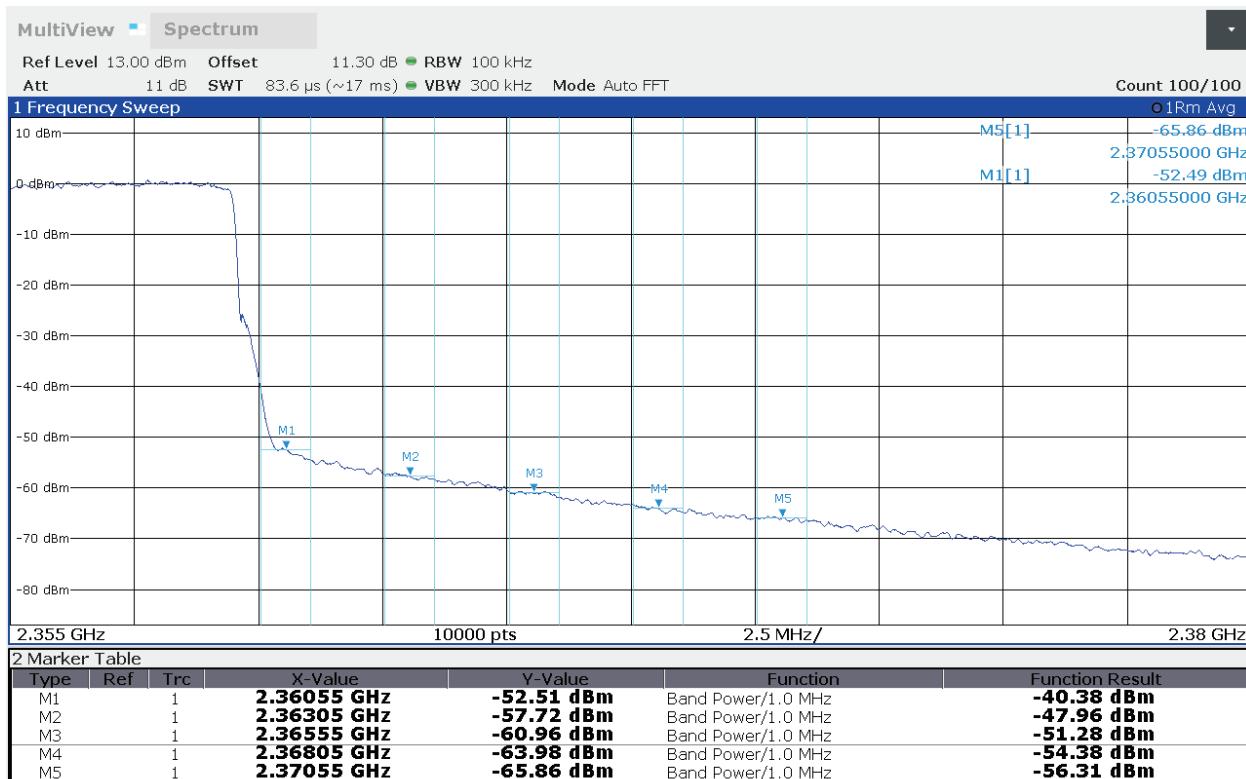
16:55:30 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-50.50	-45.0	-5.50
		2345.45	-48.64	-13.0	-35.64
		2349.45	-38.85	-13.0	-25.85

**TM3.1-64QAM\_10 MHz Bandwidth  
Band 30, ANT0, Upper Band Edge**


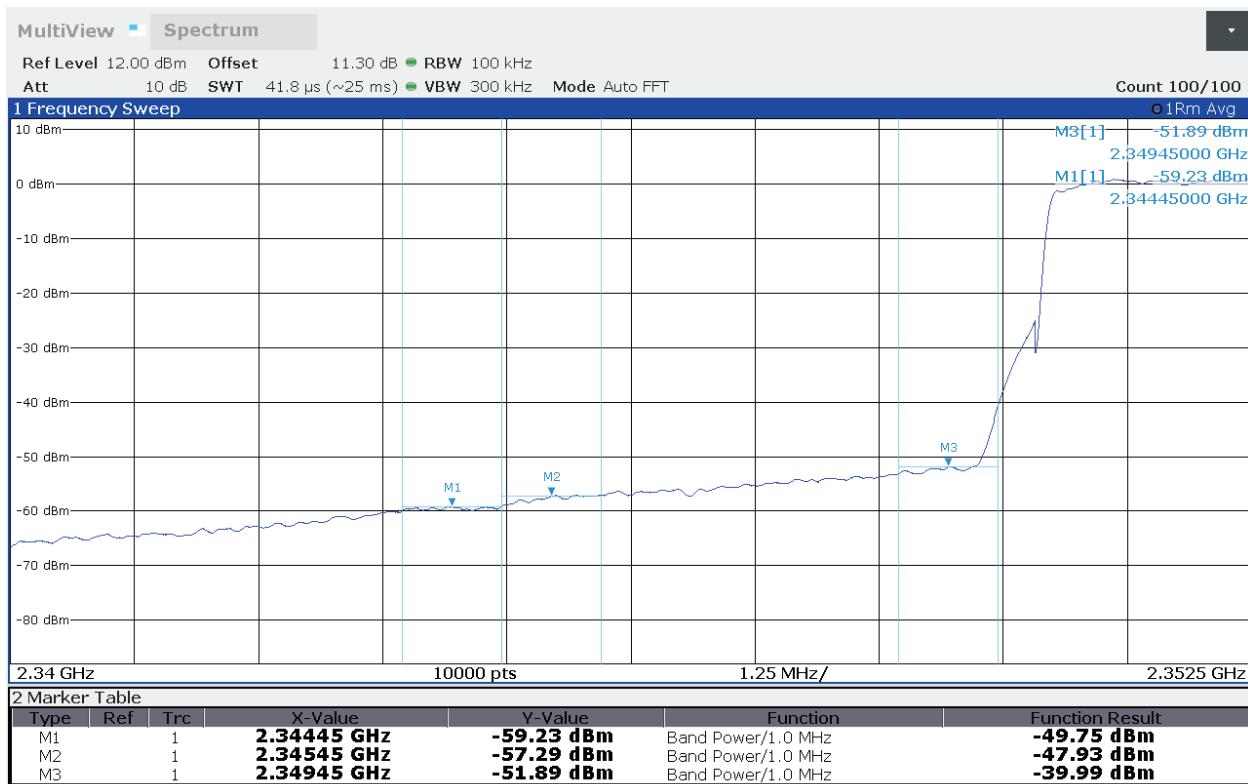
17:48:36 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-38.96	-13.0	-25.96
		2363.05	-45.30	-25.0	-20.30
		2365.55	-48.54	-40.0	-8.54
		2368.05	-51.90	-42.0	-9.90
		2370.55	-53.95	-45.0	-8.95

**TM3.1-64QAM\_10 MHz Bandwidth  
Band 30, ANT1, Upper Band Edge**


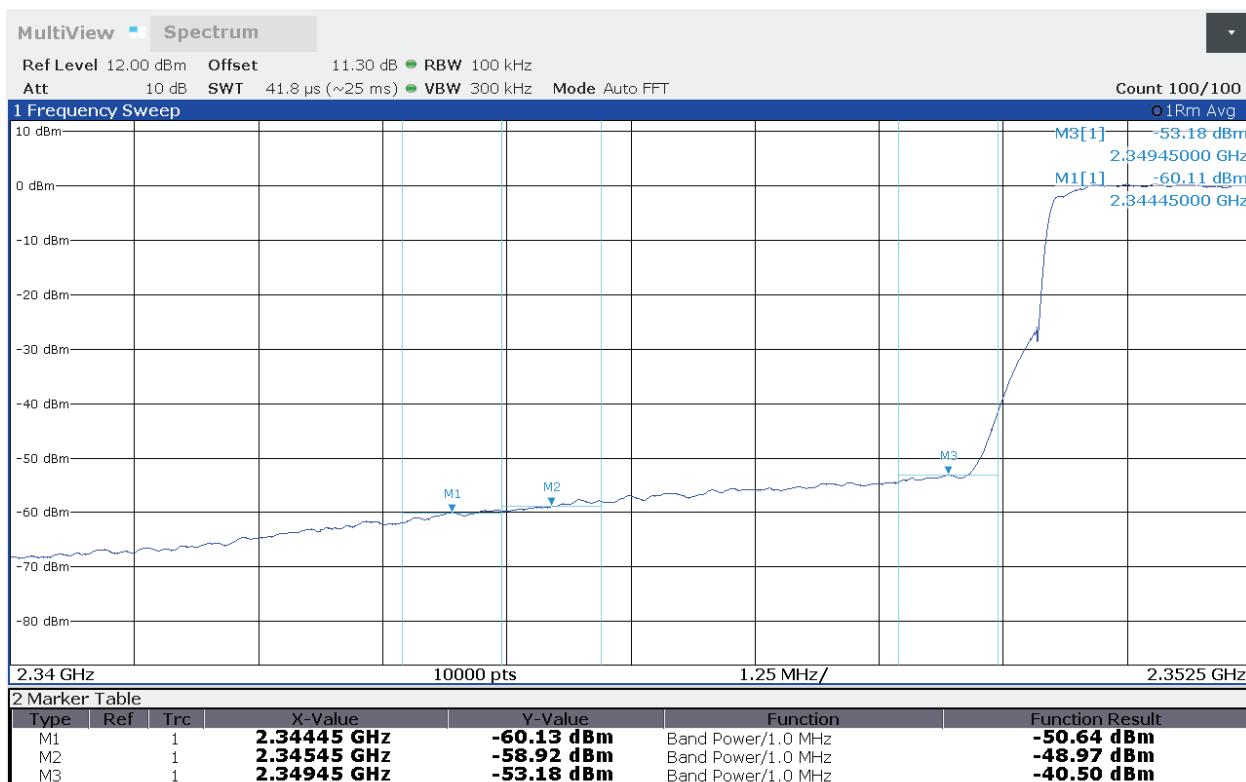
17:48:58 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-40.38	-13.0	-27.38
		2363.05	-47.96	-25.0	-22.96
		2365.55	-51.28	-40.0	-11.28
		2368.05	-54.38	-42.0	-12.38
		2370.55	-56.31	-45.0	-11.31

**TM3.1a-256QAM\_10 MHz Bandwidth  
Band 30, ANT0, Lower Band Edge**


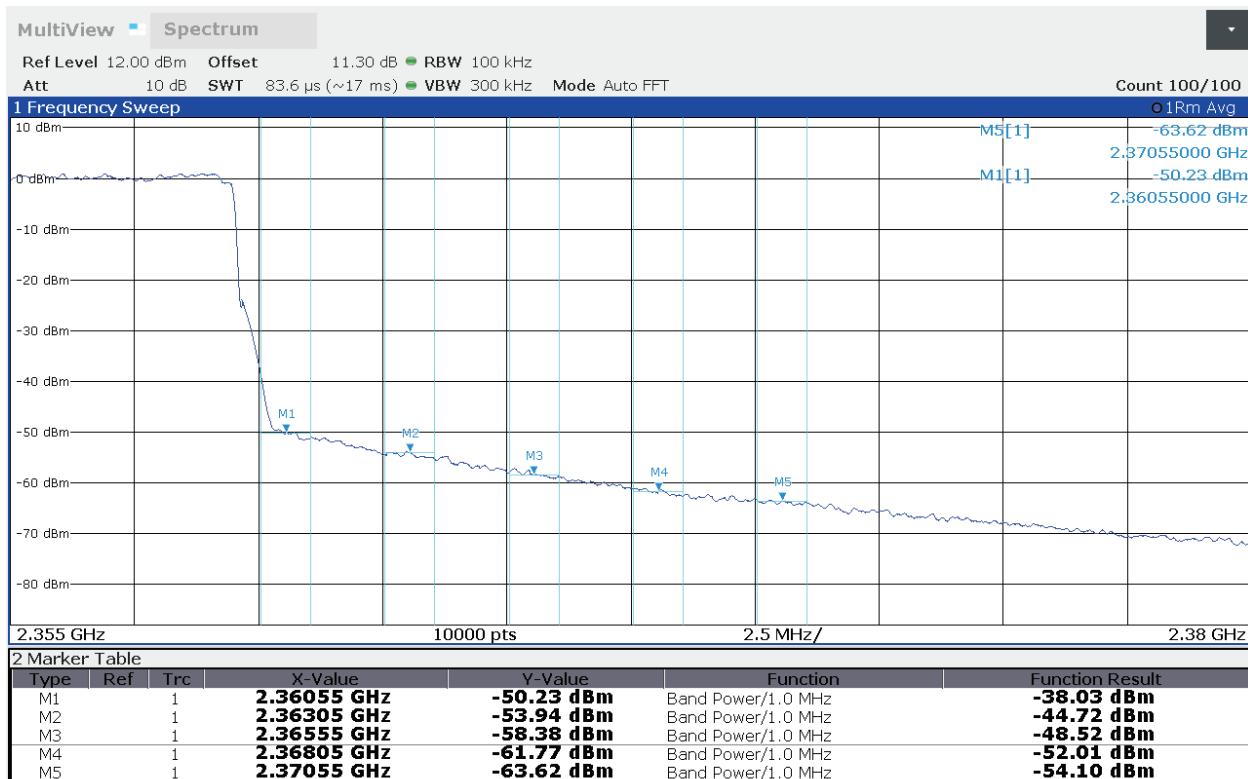
17:01:52 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-49.75	-45.0	-4.75
		2345.45	-47.93	-13.0	-34.93
		2349.45	-39.99	-13.0	-26.99

**TM3.1a-256QAM\_10 MHz Bandwidth  
Band 30, ANT1, Lower Band Edge**


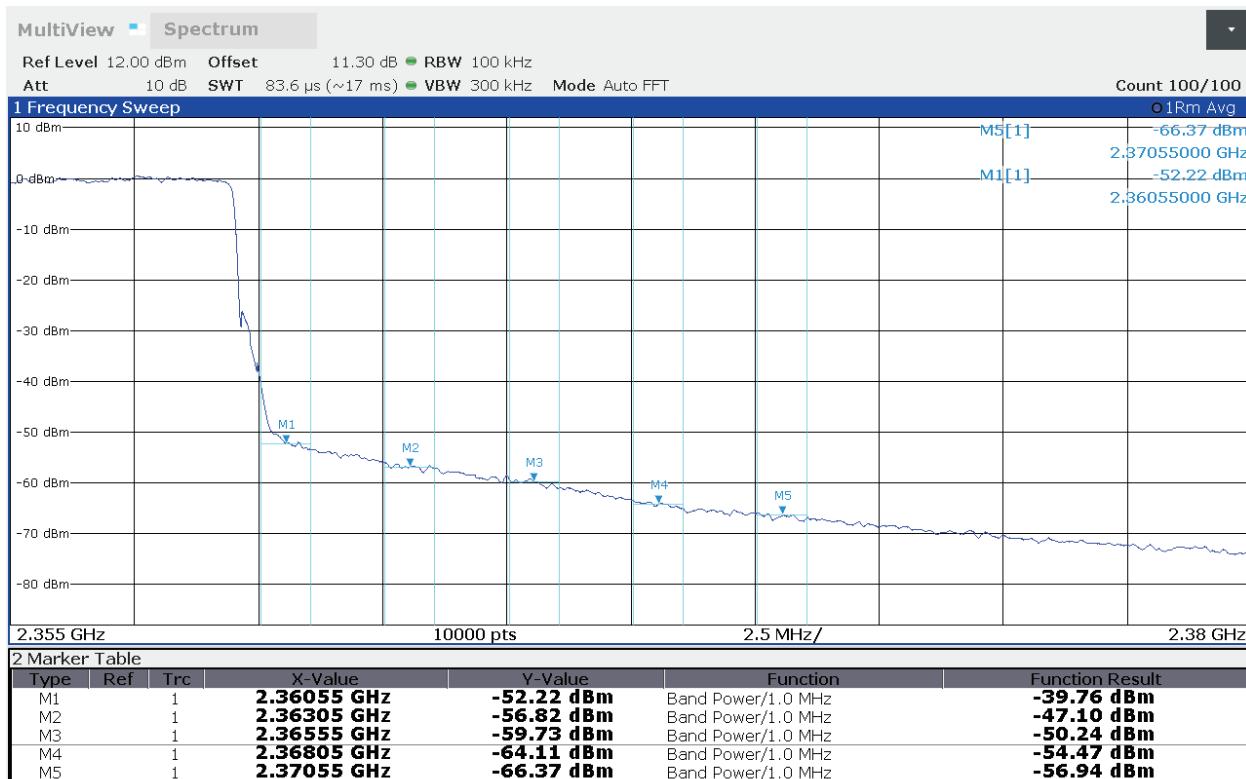
17:01:24 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2344.45	-50.64	-45.0	-5.64
		2345.45	-48.97	-13.0	-35.97
		2349.45	-40.50	-13.0	-27.50

**TM3.1a-256QAM\_10 MHz Bandwidth  
Band 30, ANT0, Upper Band Edge**


17:04:37 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-38.03	-13.0	-25.03
		2363.05	-44.72	-25.0	-19.72
		2365.55	-48.52	-40.0	-8.52
		2368.05	-52.01	-42.0	-10.01
		2370.55	-54.10	-45.0	-9.10

**TM3.1a-256QAM\_10 MHz Bandwidth  
Band 30, ANT1, Upper Band Edge**


17:05:13 03.11.2020

Bandwidth	Tx Frequency (MHz)	Measured Freq (MHz)	Amplitude (dBm)	Limit (dBm)	Margin (dB)
10MHz	2355.0	2360.55	-39.76	-13.0	-26.76
		2363.05	-47.10	-25.0	-22.10
		2365.55	-50.24	-40.0	-10.24
		2368.05	-54.47	-42.0	-12.47
		2370.55	-56.94	-45.0	-11.94

Test Personnel: Minh Ly  
Supervising/Reviewing  
Engineer:  
(Where Applicable) \_\_\_\_\_

Test Date: 11/03/2020

Product Standard: FCC Part 27  
Input Voltage: 56 VDC (POE)

Limit Applied: See report section 9.1

Pretest Verification w/  
Ambient Signals or  
BB Source: N/A

Ambient Temperature: 25 °C

Relative Humidity: 40 %

Atmospheric Pressure: 29.9 in Hg

Deviations, Additions, or Exclusions: None

## **10 Frequency Stability**

### **10.1 Requirement:**

§27.54 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### **10.2 Procedure:**

The procedure described in FCC Publication 971168 D01 Power Meas License Digital Systems v03r01 was used. Tests are performed in accordance with ANSI C63.26 Section 5.6 and CFR47 FCC Parts 2.1055.

The EUT was placed inside the temperature chamber. The EUT was setup to transmit the maximum power at low and high channel. After the temperature stabilized for approximately 20 minutes, the transmitting frequency was measured by using the occupied bandwidth function on the Spectrum analyzer to make sure the lower and upper frequencies of the occupied bandwidth remains within the assigned band of 2450-2560MHz. The measurements were made on the low and high frequency with a 10 degree increment in temperature.

At the room temperature, the frequency was measured when the EUT was powered with the nominal voltage, 48VDC (minimum), and 57VDC (maximum) voltage as declared by customer.

### **10.3 Result:**

The sample tested was found to Comply.

**Frequency Stability Over Temperatures**  
**Band 30, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK, Low CH**

Temperature (°C)	Frequency at nominal voltage (GHz)	Maximum deviation from frequency at 20°C, ppm
<b>Low Edge</b>		
-30	2.35023440	0.72
-20	2.35023279	0.04
-10	2.35023227	0.18
0	2.35023167	0.44
10	2.35023228	0.18
20	2.35023270	0.00
30	2.35023214	0.24
40	2.35023321	0.22
50	2.35023289	0.08
<b>High Edge</b>		
-30	2.35473754	0.37
-20	2.35473959	0.51
-10	2.35473983	0.61
0	2.35473978	0.59
10	2.35473774	0.28
20	2.35473840	0.00
30	2.35473925	0.36
40	2.35473682	0.67
50	2.35473666	0.74

Voltage (DC)	Frequency at 20°C (GHz)	Maximum deviation from 56VDC, ppm
<b>Low Edge</b>		
48V	2.35023266	0.02
57V	2.35023292	0.09
<b>High Edge</b>		
48V	2.35473667	0.73
57V	2.35473624	0.92

**Frequency Stability Over Temperatures**  
**Band 30, Bandwidth: 5 MHz, Modulation: TM1.1-QPSK, High CH**

Temperature (°C)	Frequency at nominal voltage (GHz)	Maximum deviation from frequency at 20°C, ppm
<b>Low Edge</b>		
-30	2.35523041	0.90
-20	2.35522958	0.54
-10	2.35523032	0.86
0	2.35522734	0.41
10	2.35522937	0.45
20	2.35522830	0.00
30	2.35522840	0.04
40	2.35522840	0.04
50	2.35522809	0.09
<b>High Edge</b>		
-30	2.35973418	0.77
-20	2.35973728	0.54
-10	2.35973537	0.27
0	2.35973664	0.27
10	2.35973477	0.52
20	2.35973600	0.00
30	2.35973507	0.39
40	2.35973507	0.39
50	2.35973702	0.43

Voltage (DC)	Frequency at 20°C (GHz)	Maximum deviation from 56VDC, ppm
<b>Low Edge</b>		
48V	2.3552276	0.30
57V	2.35522791	0.17
<b>High Edge</b>		
48V	2.35973535	0.28
57V	2.35973542	0.25

**Frequency Stability Over Temperatures**  
**Band 30, Bandwidth: 10 MHz, Modulation: TM1.1-QPSK**

Temperature (°C)	Frequency at nominal voltage (MHz)	Maximum deviation from frequency at 20°C, ppm
<b>Low Edge</b>		
-30	2.35049533	0.77
-20	2.35049459	0.46
-10	2.35049282	0.29
0	2.35049337	0.06
10	2.35049337	0.06
20	2.35049351	0.00
30	2.35049200	0.64
40	2.35049284	0.29
50	2.35049223	0.54
<b>High Edge</b>		
-30	2.35946018	1.14
-20	2.35945821	0.30
-10	2.35946075	1.38
0	2.35945829	0.33
10	2.35945897	0.62
20	2.3594575	0.00
30	2.35945906	0.66
40	2.35945983	0.99
50	2.35945756	0.03

Voltage (DC)	Frequency at 20°C (MHz)	Maximum deviation from 56VDC, ppm
<b>Low Edge</b>		
48V	2.35049253	0.42
57V	2.35049210	0.60
<b>High Edge</b>		
48V	2.35945806	0.24
57V	2.35945778	0.12

Test Personnel: Minh Ly  
Supervising/Reviewing  
Engineer:  
(Where Applicable) \_\_\_\_\_

Test Date: 11/09/2020

Product Standard: FCC Part 27  
Input Voltage: See plots

Limit Applied: See report section 10.1

Pretest Verification w/  
Ambient Signals or  
BB Source: N/A

Ambient Temperature: N/A

Relative Humidity: N/A

Atmospheric Pressure: N/A

Deviations, Additions, or Exclusions: None

## 11 Transmitter spurious emissions

### 11.1 Requirement:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $75 + 10 \log(P)$  dB.

### 11.2 Procedure:

The procedure described in FCC Publication 971168 D01 Power Meas License Digital Systems v03r01 was used. Tests are performed in accordance with ANSI C63.26 Section 5.7, CFR47 FCC Parts 2.1051 and 2.1053.

#### Conducted Spurious Emission:

A spectrum analyzer was connected to the antenna port of the transmitter.

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq 3 \times$  RBW.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

The unwanted emissions were measured from 30 MHz to 10 GHz for low, mid, and high channel for both 5MHz & 10MHz Bandwidth. Plots are corrected for cable loss and then compared to the limits.

#### Radiated Spurious Emission:

The measurement antenna was placed at a distance of 10 meters for 30MHz – 1GHz and 3 meters for 1-10GHz from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT.

The frequency range up to 10th harmonic was investigated. The worst case of emissions was reported.

During the spurious emission measurement, the antenna port of the EUT was terminated by 50ohms load. The substitution method was used to investigate at the highest peak in each frequency range (30MHz – 1GHz and 1GHz – 26GHz). The EUT was substituted by a reference antenna (Biconical antenna for 30MHz – 200MHz, log-periodic for 200MHz – 1GHz, or Horn antenna - above 1GHz), connected to a signal generator. The signal generator output level ( $V_g$  in dBm) was adjusted to obtain the same reading as from EUT. The ERP at the spurious emissions frequency was calculated as follows.

$$EIRP_{(dBm)} = V_g + G_{(dBd)} + CF_{(dB)}$$

The spurious emissions attenuation is the difference between the ERP level at the fundamental frequency and the level of the spurious emissions.

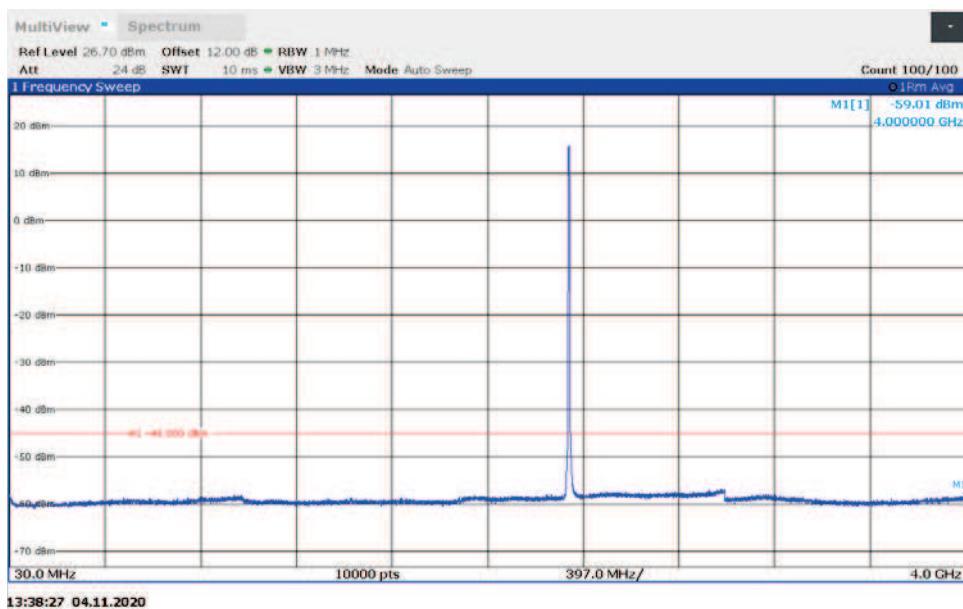
Preliminary testing was performed for all modulation/data rate modes. The worse-case data rate which resulted in the highest power and lowest spectrum were selected for final measurements:

5 MHz, Modulation: TM1.1-QPSK & 10 MHz, Modulation: TM1.1-QPSK

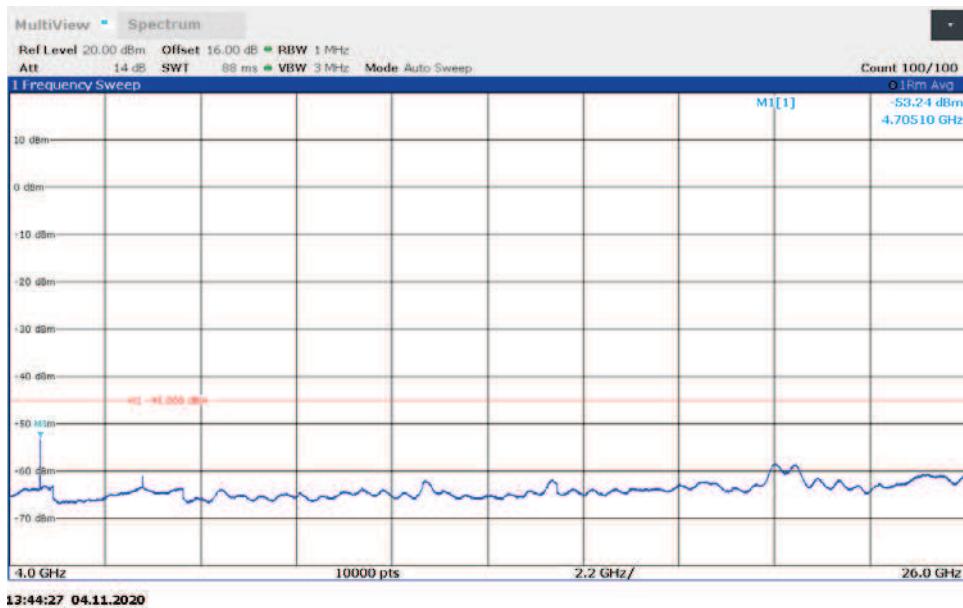
### 11.3 Results:

The sample tested was found to Comply.

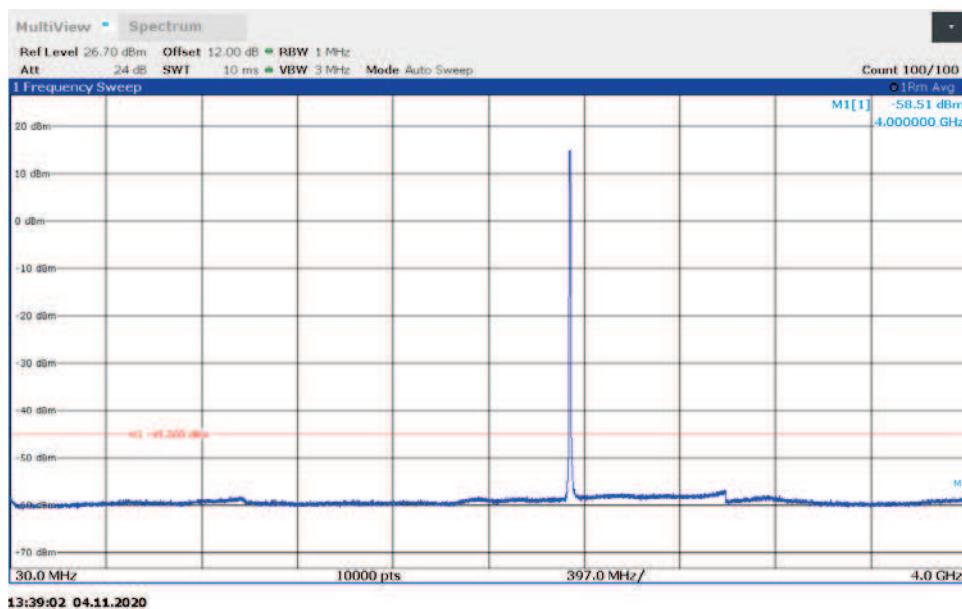
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Low Channel, ANT0, 30MHz - 4GHz**



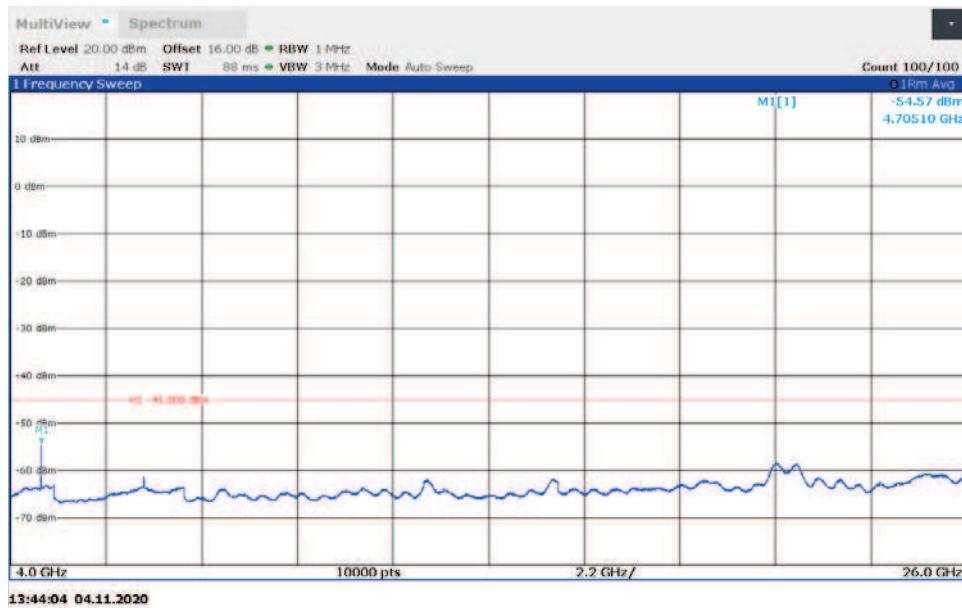
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Low Channel, ANT0, 4GHz - 26GHz**



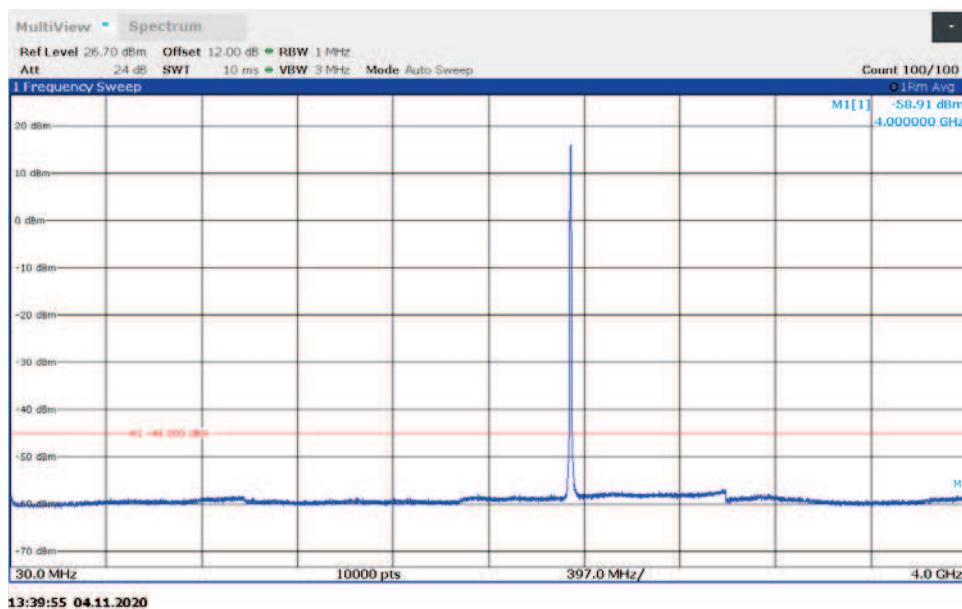
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Low Channel, ANT1, 30MHz-4GHz**



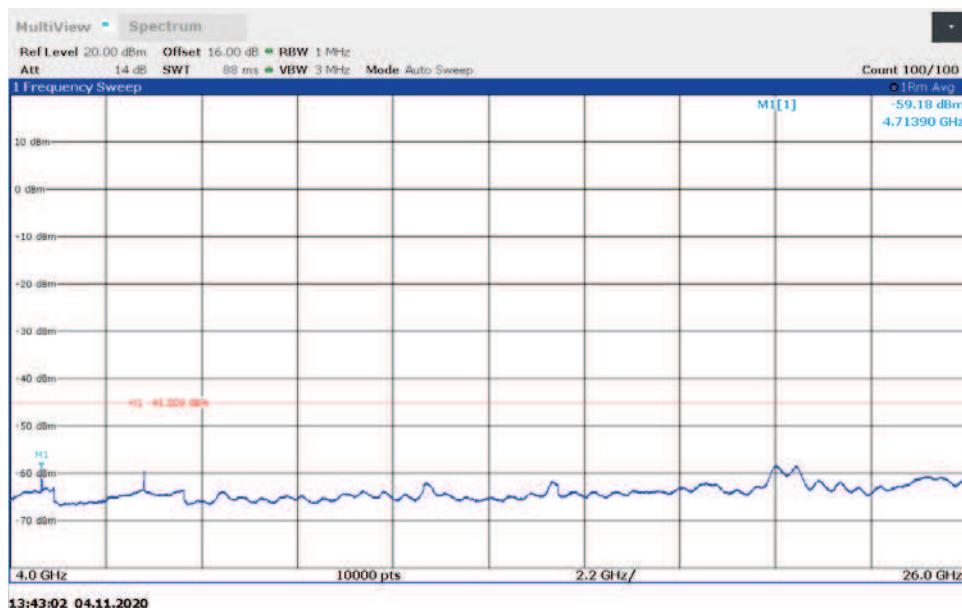
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Low Channel, ANT1, 4GHz - 26GHz**



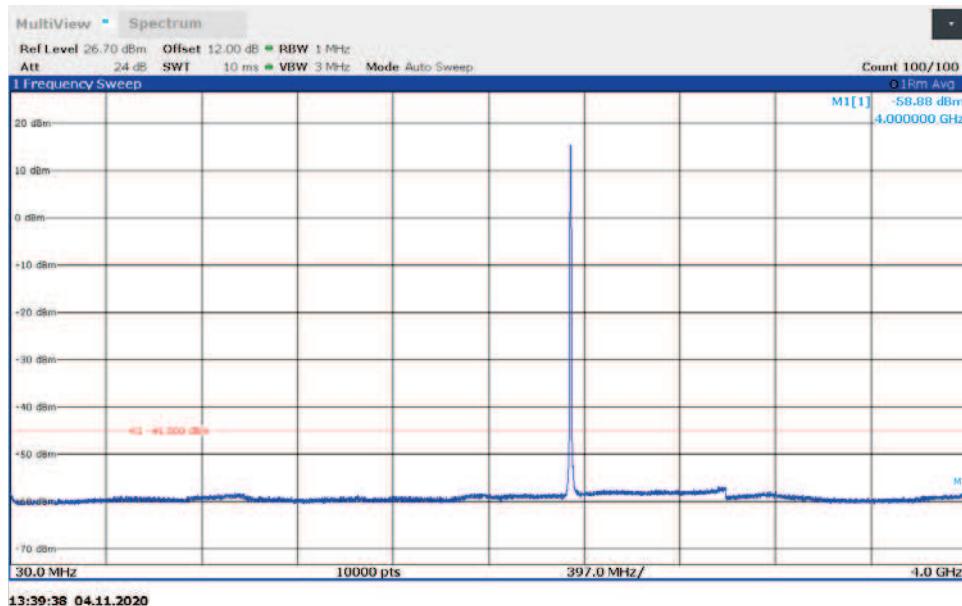
**Conducted Spurious Emission**  
**Band 30, Bandwidth: 5 MHz, Mid Channel, ANT0, 30MHz - 4GHz**



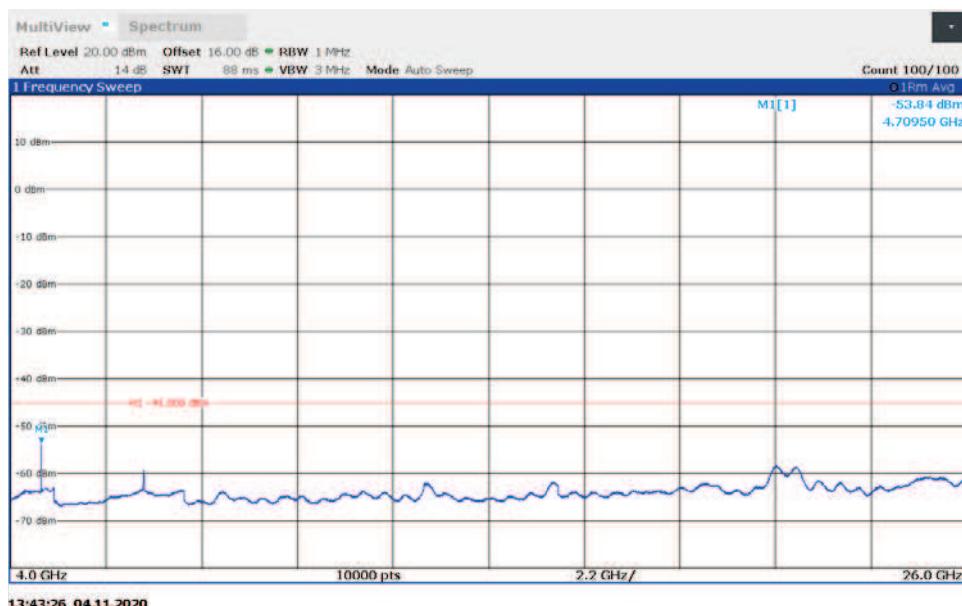
**Conducted Spurious Emission**  
**Band 30, Bandwidth: 5 MHz, Mid Channel, ANT0, 4GHz - 26GHz**



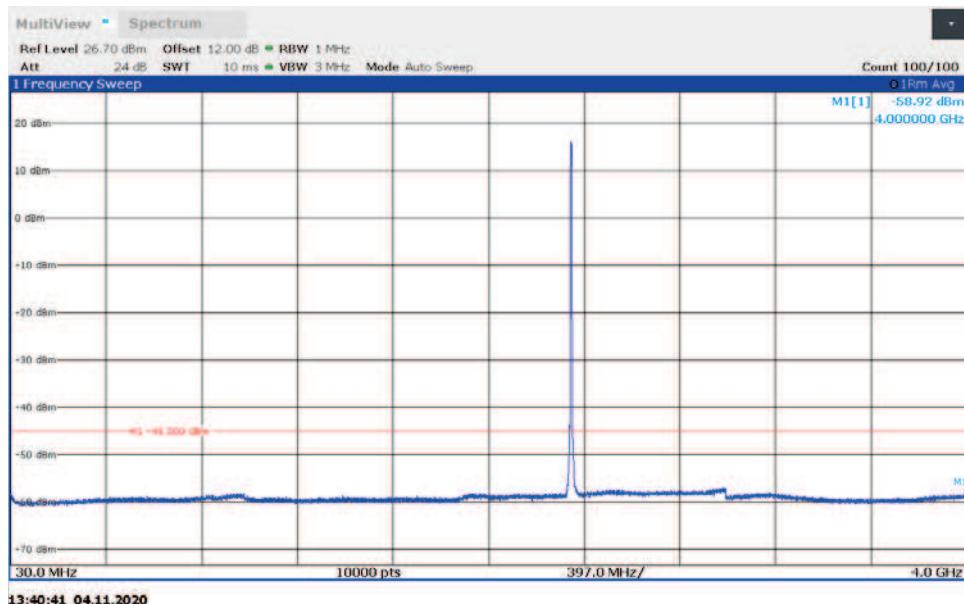
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Mid Channel, ANT1, 30MHz-4GHz**



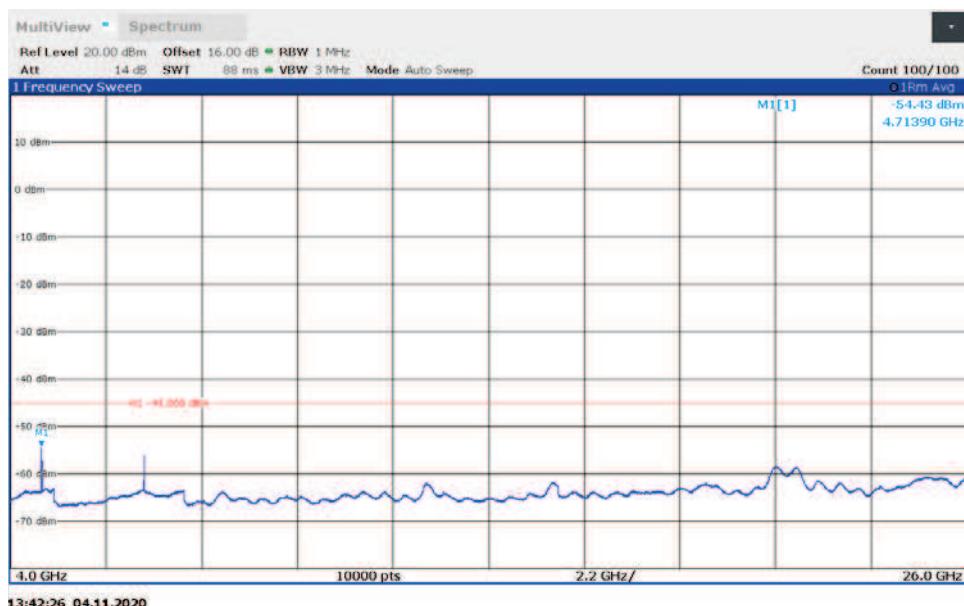
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, Mid Channel, ANT1, 4GHz - 26GHz**



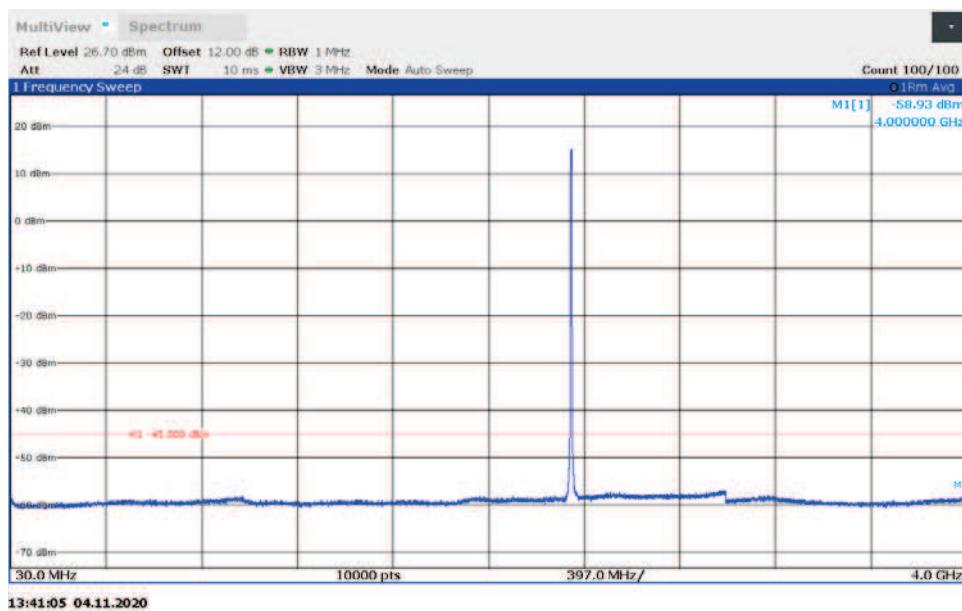
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, High Channel, ANT0, 30MHz - 4GHz**



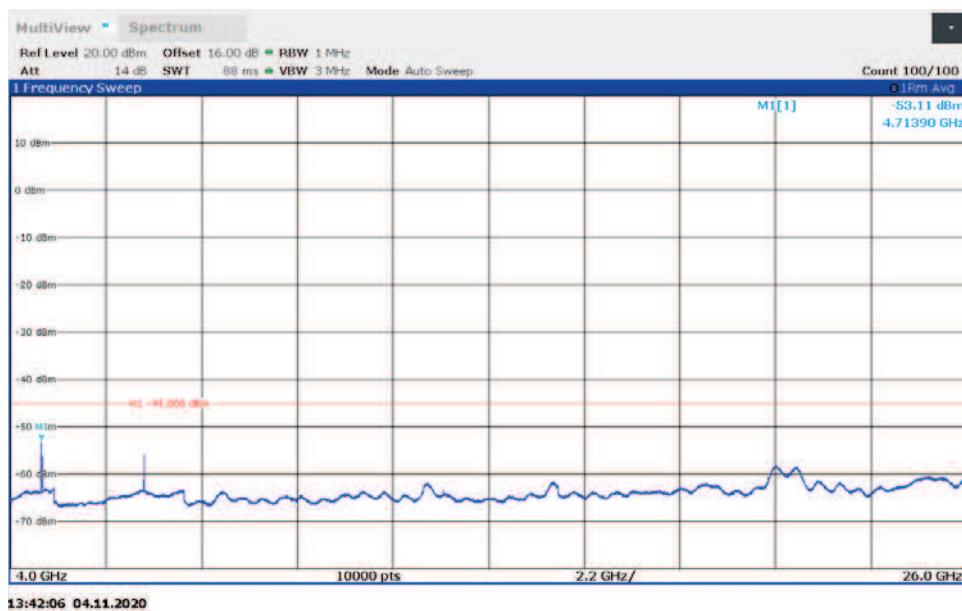
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, High Channel, ANT0, 4GHz - 26GHz**



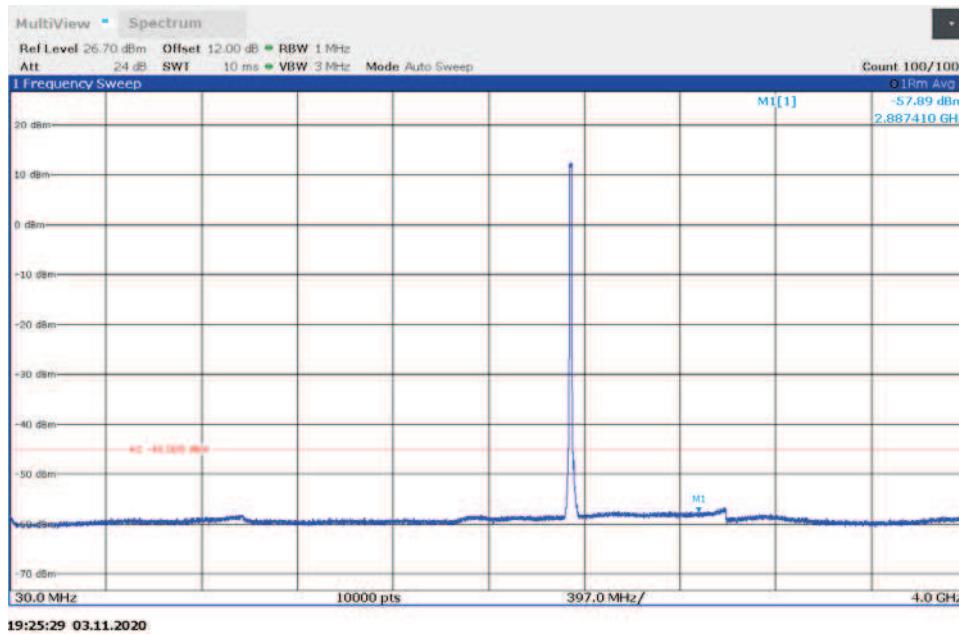
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, High Channel, ANT1, 30MHz-4GHz**



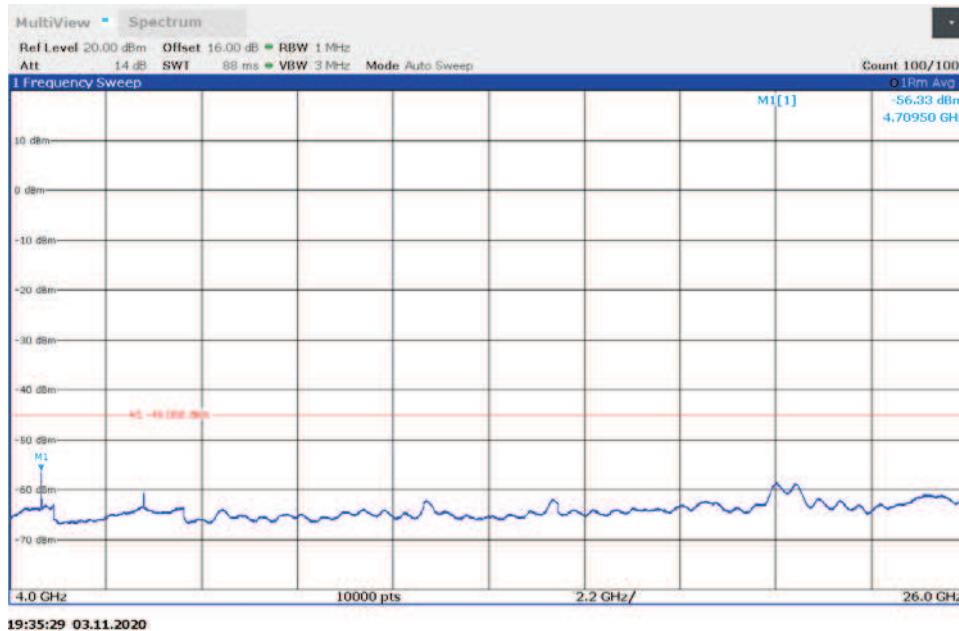
**Conducted Spurious Emission  
Band 30, Bandwidth: 5 MHz, High Channel, ANT1, 4GHz - 26GHz**



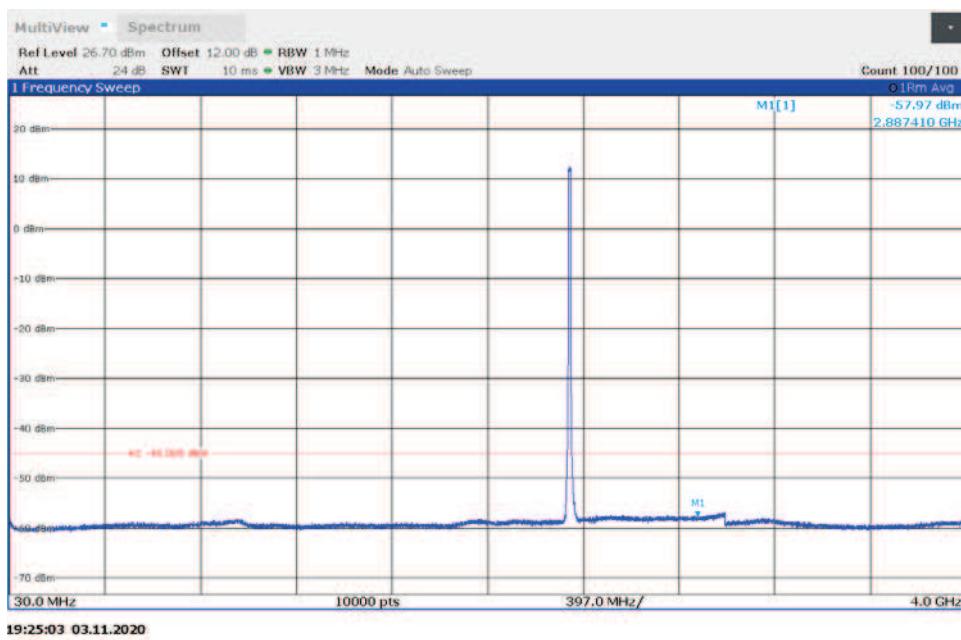
**Conducted Spurious Emission  
Band 30, Bandwidth: 10 MHz, ANT0, 30MHz - 4GHz**



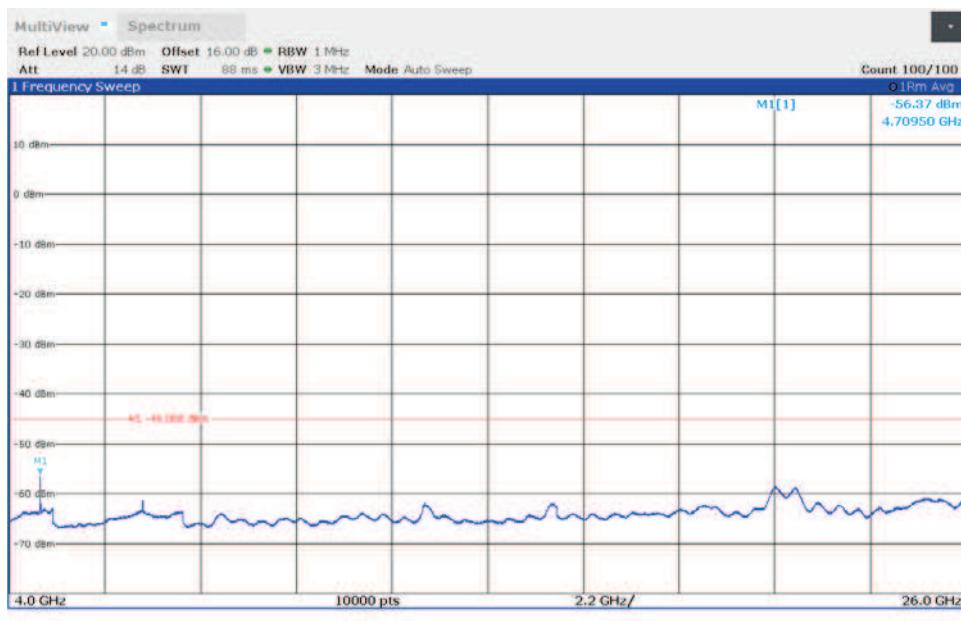
**Conducted Spurious Emission  
Band 30, Bandwidth: 10 MHz, ANT0, 4GHz - 26GHz**



**Conducted Spurious Emission  
Band 30, Bandwidth: 10 MHz, ANT1, 30MHz-4GHz**



**Conducted Spurious Emission  
Band 30, Bandwidth: 10 MHz, ANT1, 4GHz - 26GHz**



**Transmitter Radiated Spurious Emissions**  
 (Measured by Substitution Method)  
 5MHz, Low Channel

Freq.	Raw Amplitude	Sig Gen	Cable Loss	Antenna Sub Gain	EIRP	Limit	Margin
MHz	dBuV/m	dBm	dB	dBi	dBi	dBm	dB
31.164	45.5	-35.7	0.3	-13.0	-49.0	-45	-4.0
44.776	54.0	-39.4	0.3	-7.6	-47.4	-45	-2.4
56.352	60.5	-39.8	0.4	-5.9	-46.0	-45	-1.0
74.717	54.6	-50.5	0.4	0.0	-50.9	-45	-10.3
109.605	45.8	-53.4	0.4	-1.6	-55.3	-45	-10.3
1499.800	56.8	-63.0	2.7	8.5	-57.2	-45	-12.2
2844.500	54.4	-60.0	3.3	10.6	-52.7	-45	-7.7
5183.133	49.1	-59.8	5.5	11.5	-53.7	-45	-8.7

**Transmitter Radiated Spurious Emissions**  
 (Measured by Substitution Method)  
 5MHz, Mid Channel

Freq.	Raw Amplitude	Sig Gen	Cable Loss	Antenna Sub Gain	EIRP	Limit	Margin
MHz	dBuV/m	dBm	dB	dBi	dBi	dBm	dB
31.164	45.5	-35.7	0.3	-13.0	-49.0	-45	-4.0
44.776	54.0	-39.4	0.3	-7.6	-47.4	-45	-2.4
56.352	60.6	-39.7	0.4	-5.9	-45.9	-45	-0.9
74.717	54.6	-50.5	0.4	0.0	-50.9	-45	-5.9
109.605	45.8	-53.4	0.4	-1.6	-55.3	-45	-10.3
1499.800	56.2	-63.6	2.7	8.5	-57.7	-45	-12.7
2843.933	54.8	-59.6	3.3	10.6	-52.4	-45	-7.4
5178.600	51.9	-56.9	5.5	11.5	-50.9	-45	-5.9
9420.100	43.7	-59.6	7.3	11.8	-55.1	-45	-10.1

**Transmitter Radiated Spurious Emissions**  
 (Measured by Substitution Method)  
 5MHz, High Channel

Freq.	Raw Amplitude	Sig Gen	Cable Loss	Antenna Sub Gain	EIRP	Limit	Margin
MHz	dBuV/m	dBm	dB	dBi	dBi	dBm	dB
30.453	45.3	-34.8	0.3	-13.6	-50.9	-45	-5.9
55.705	61.7	-38.3	0.3	-6.1	-46.8	-45	-1.8
74.394	54.9	-50.1	0.4	-0.1	-52.7	-45	-7.7
109.346	44.6	-54.6	0.4	-1.5	-58.6	-45	-13.6
1499.800	56.8	-63.0	2.7	8.5	-57.2	-45	-12.2
2843.933	54.5	-59.8	3.3	10.6	-52.6	-45	-7.6
5000.100	46.4	-62.7	5.4	11.2	-56.8	-45	-11.8
9430.000	43.6	-59.7	7.3	11.8	-55.2	-45	-10.2

**Transmitter Radiated Spurious Emissions**  
 (Measured by Substitution Method)  
 10MHz

Freq.	Raw Amplitude	Sig Gen	Cable Loss	Antenna Sub Gain	EIRP	Limit	Margin
MHz	dBuV/m	dBm	dB	dBi	dBi	dBm	dB
31.940	46.4	-35.7	0.3	-12.3	-50.5	-45	-5.5
47.137	54.5	-40.1	0.3	-7.7	-50.2	-45	-5.2
58.162	59.9	-41.1	0.4	-5.4	-48.9	-45	-3.9
68.056	57.4	-46.2	0.4	-2.3	-51.0	-45	-6.0
74.458	55.1	-50.0	0.4	-0.1	-52.6	-45	-7.6
1499.800	56.4	-63.4	2.7	8.5	-57.6	-45	-12.6
5178.600	47.5	-61.3	5.5	11.5	-55.3	-45	-10.3
9420.100	44.5	-58.8	7.3	11.8	-54.3	-45	-9.3

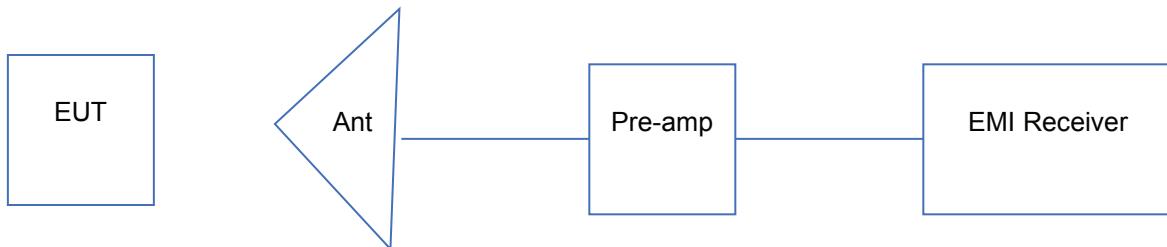
ERP is calculated as:  $ERP_{(dBm)} = Sig\ Gen_{(dBm)} + Antenna\ Gain_{(dBi)} - Cable\ Loss_{(dB)}$

Note: Investigation performed up to 26.0 GHz. All other emissions not reported are at least 10dB below the limits

<b>Result:</b>	<b>Complies by 0.9 dB</b>
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**11.4 Test Setup Configuration:**

The following photographs show the testing configurations used.



Test Personnel: Minh Ly  
Supervising/Reviewing  
Engineer:  
(Where Applicable) \_\_\_\_\_

Test Date: 11/04/2020

Product Standard: FCC Part 27  
Input Voltage: 56 VDC (POE)

Limit Applied: See report section 11.1

Pretest Verification w/  
Ambient Signals or  
BB Source: N/A

Ambient Temperature: 23 °C

Relative Humidity: 44 %

Atmospheric Pressure: 30 inHg

Deviations, Additions, or Exclusions: None

## 12 List of Test Equipment

Measurement equipment used for emission compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model Tested/Type	Asset #	Cal Int	Cal Due
EMI Receiver	Rohde and Schwarz	ESU	ITS 00961	12	03/09/21
BI-Log Antenna	Teseq	CBL6111D	ITS 01505	12	03/11/21
Pre-Amplifier	Sonoma Instrument	310N	ITS 01714	12	11/11/20
RE Cable	TRU Corporation	TRU CORE 300	ITS 01462	12	09/01/21
RE Cable	TRU Corporation	TRU CORE 300	ITS 01465	12	09/01/21
RE Cable	TRU Corporation	TRU CORE 300	ITS 01470	12	09/01/21
RF Cable	TRU Corporation	TRU CORE 300	ITS 01342	12	09/01/21
Active Horn Antenna	ETS Lindgren	3117PA	ITS 0824	12	08/04/21
Log Periodic	Com-power	ALP-100	ITS 01785	12	06/26/21
Bicon	Com-power	AB-900A	ITS 01391	12	07/22/21
Horn Antenna	ETS	3115	ITS 00982	12	04/21/21
DRG Horn Antenna	ETS	3116C	ITS 01376	12	04/24/21
Spectrum Analyzer	Rohde and Schwarz	FSW	ITS 01818	12	07/09/21
Pre-amplifier	Miteq	TTA1840-35-S-M	ITS 01542	12	06/26/21
10 Meter Chamber	Panashield	10 Meter Semi-Anechoic Chamber	ITS 00984	36	09/11/21
Environmental Chamber	Espec	BTX-475	ITS 01436	12	10/20/21

**13 Revision History**

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	November 18, 2020	104326151MPK-005	ML	KV	Original Issue