



# REPORT

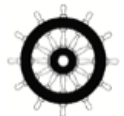
For

## **Dali Wireless, Inc.**

535 Middlefield Road, Suite 280  
Menlo Park, CA 94025

Date: 07 August 2020  
Report No.: 18280-6E  
Revision No.: 0  
Project No.: 18280  
Equipment: Advanced Digital Distributed Antenna System  
Model No.: hd37-3-PS-ABC-21-1N-D0  
FCC ID: HCOHD373PSABC21A

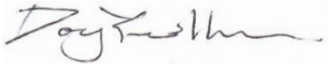

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<b>TEST REPORT_FCC Part 90</b>	
<b>Private Land Mobile Services</b>	
<b>Report Reference No.</b> .....:	18280-6E
<b>Report Revision History.</b> .....	✓ Rev. 0 07 August 2020
<b>Compiled by (+ signature)</b> .....	Daniel Lee 
<b>Approved by (+ signature)</b> .....	Jeremy Lee 
<b>Date of issue</b> .....	07 August 2020
<b>Total number of pages</b> .....	82
<b>FCC Site Registration No.:</b> CA5970	
<b>IC Site Registration No.:</b> 5970A-2	
<b>Testing Laboratory</b> .....	
LabTest Certification Inc.	
<b>Address</b> .....	
Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada	
<b>Applicant's name</b> .....:	
Dali Wireless, Inc.	
<b>Address</b> .....	
535 Middlefield Road, Suite 280, Menlo Park, CA 94025	
<b>Manufacture's Name</b> .....	
Dali Wireless (Canada) Inc.	
<b>Address</b> .....	
8618 Commerce Court, Burnaby, B.C. V5A 4N6, Canada	
<b>Test specification:</b>	
<b>Standards</b> .....	<ul style="list-style-type: none"> <li>➤ FCC Part 2; 2020</li> <li>➤ FCC Part 90; 2020</li> </ul>
<b>Test procedure</b> .....	<ul style="list-style-type: none"> <li>➤ FCC KDB 935210 D05 Indus Booster Basic Meas v01r04: April 03, 2020</li> <li>➤ ANSI/TIA-603- E-2016</li> <li>➤ ANSI C63.4:2014</li> </ul>
<b>Non-standard test method</b> .....:	N/A
<b>Test Report Form(s) Originator</b> .....	Jeremy Lee
<b>Master TRF</b> .....	1036_Rev2 – RF Report Template
<b>Test item description :</b>	
<b>Trade Mark</b> .....	hd37™
<b>Model/Type reference</b> .....	hd37-3-PS-ABC-21-1N-D0

Serial Number .....	10911114E02B9A007
FCC ID .....	HCOHD373PSABC21A
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement .....	P (Pass)
- test object does not meet the requirement .....	F (Fail)
<b>Testing:</b>	
Date of receipt of test item .....	01 June 2020
Date (s) of performance of tests.....	08 June and 15 July 2020

### Revision History

Revision	Date	Reason For Change	Author(s)
0	07 August 2020	Initial Data	Daniel Lee

### Device Under Test Description

Application for .....	PS 900/800/700 Remote Unit, Tri Band Medium Power DAS
Passing Transmit Frequency .....	935 MHz – 940 MHz 851 MHz – 861 MHz 769 MHz – 775 MHz
Operating Transmit Frequency FCC .....	935 MHz – 940 MHz 851 MHz – 861 MHz 758 MHz – 768 MHz 769 MHz – 775 MHz
Passing Receive Frequency .....	896 MHz – 901 MHz 806 MHz – 816 MHz 788 MHz – 805 MHz
Operating Receive Frequency FCC .....	896 MHz – 901 MHz 806 MHz – 816 MHz 788 MHz – 798 MHz 799 MHz – 805 MHz
Number of Channels .....	Up to 64 channels
Rated RF Output(e.i.r.p.) .....	37 dBm

Modulation Type .....	P25 Phase I C4FM, CQPSK; P25 Phase II HDQPSK on full band of Band 900 and Band 800; FM on Band 800 between 851 MHz – 854 MHz only; P25 Phase I C4FM, CQPSK; P25 Phase II HDQPSK on Band 700 between 769 MHz – 775 MHz
Equipment mobility .....	Fixed
Operating condition .....	-40 to +50 °C
Mass of equipment (g) .....	< 27,700g
Dimension(W X D X H)	410 mm X 230 mm X 696 mm
<b>Nominal Voltages for:</b>	<u>48 V</u> stand-alone equipment <u>48 V</u> combined (or host) equipment
Supply Voltage:	_____ AC _____ Amps <u>48V</u> DC <u>7.083</u> Amps
If DC Power:	<input type="checkbox"/> Internal Power Supply <input checked="" type="checkbox"/> External Power Supply <input type="checkbox"/> Battery <input type="checkbox"/> Nickel Cadmium <input type="checkbox"/> Alkaline <input type="checkbox"/> Nickel-Metal Hydride <input type="checkbox"/> Lithium-Ion <input type="checkbox"/> Other

### Program details

Testing Facility by procedure:		
<input checked="" type="checkbox"/>	<b>Radiated Measurement</b>	LabTest Certification Inc.
Testing location/ address .....		Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada
<input checked="" type="checkbox"/>	<b>Conducted Measurement:</b>	LabTest Certification Inc.
Testing location/ address .....		Unit 3128-20800 Westminster HWY, Richmond, B.C. V6V 2W3 Canada

Summary of testing:	
<b>Tests performed (name of test and test clause):</b> <b>Conducted Measurement</b> <b>Radiated Emissions on Enclosure</b>	<b>Testing location:</b> <b>Bench top, Richmond</b> <b>In SAC, Richmond</b>

The tests indicated in Test Summary were performed on the product constructed as described below. The test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted. Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. LabTest does not make any claims of compliance for samples or variants which were not tested.

## Description of Equipment Under Test and Variant Models

### Description:

The hd37 /900PS/800PS/700 PS is a tri-band remote unit that provides at least 5 W of output power on each band. The tri-band unit supports up to 3 bands in a sealed type 2 chassis for Class A operation.

On the downlink path the hd37 PS remote receives an aggregated stream of digitized RF signals from an *airHost* PS, which it then converts into analog RF signals. Depending on the frequency band, the signal is amplified in the RF module and then sent out through simplex RF ports to an external filter.

On the UL path the hd37 PS remote receives analog RF signals for the RF band, from an external filter. The RF signals are converted into a digital data stream and then delivered over optical fiber to an *airHost* PS. The hd37 PS remote also accommodates a 1 Gbps Ethernet backhaul for transporting the data from nearby IP devices such as security cameras and Wi-Fi access points.

The intentional transmitter only exists in the downlink path and hence the EMC tests in this report dedicated to the downlink emission.

In order to build up a complete signal booster system, the *airHost* was connected as the Auxiliary device. The *airHost* does not have antenna port, where the signal was injected and ejected via coaxial cables.



**Variant Models:**

The following variant models were not tested as part of this evaluation, but they have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Labtest does not make any claims of compliance for samples or variants which were not tested.

hd37-3-PS-ABC-21-1N-D0 – tri band 900PS 800PS 700PS model as tested

Tri Band

1. hd37-3-PS-ABC-21-1N-D0 (hd37 with 700,800,900PS)
2. hd33-3-PS-ABC-21-1N-D0 (hd33 with 700,800,900PS)

Dual Band:

1. hd37-2-PS-AB-21-1N-D0 (hd37 with 700,800PS)
2. hd33-2-PS-AB-21-1N-D0 (hd33 with 700,800PS)
3. hd37-2-PS-AC-21-1N-D0 (hd37 with 700,900PS)
4. hd33-2-PS-AC-21-1N-D0 (hd33 with 700,900PS)
5. hd37-2-PS-FB-21-1N-D0 (hd37 with 800,900PS)
6. hd33-2-PS-FB-21-1N-D0 (hd33 with 800,900PS)

Single Band:

1. hd37-1-PS-A-21-1N-D0 (hd37 with 700PS)
2. hd33-1-PS-A-21-1N-D0 (hd33 with 700PS)
3. hd37-1-PS-B-21-1N-D0 (hd37 with 800PS)
4. hd33-1-PS-B-21-1N-D0 (hd33 with 800PS)
5. hd37-1-PS-C-21-1N-D0 (hd37 with 900PS)
6. hd33-1-PS-C-21-1N-D0 (hd33 with 900PS)

**Client Equipment Used During Test**

Use*	Product Type	Manufacturer	Model	Comments
EUT	<i>hd37, 700PS, 800PS, 900PS</i>	Dali Wireless Inc.	hd37-3-PS-ABC-21-1N-D0	EUT where the RF (I/O) antenna attached via duplexers/multiplexer when necessary.
AE1	<i>airHost, 700PS, 800PS, 900PS</i>	Dali Wireless Inc.	AH37-3-PS-ABC-21-3N-D0	Auxiliary equipment, which is the front end of signal booster system air interfaced to donor Base Station.
AE2	Dali Matrix Console	Dali Wireless Inc.	hdCNSL-1-8-4-120G-AC	Auxiliary equipment provides the configuration and control interface to <i>airHost</i> and <i>hd37</i> .
AE3	Power Supply	MeanWell	HGL-480H-48	AC to DC Converter, I/P: 120VAC, 60Hz, 5.5A O/P: +48VDC, 480W

Abbreviations:

- EUT - Equipment Under Test,
- AE - Auxiliary/Associated Equipment, or
- SIM - Simulator (Not Subjected to Test)

### Software and Firmware

Use*	Description	Version
EUT	Software installed	5.0.0-0.5413
AE1	Software installed	5.0.0-0.5415
AE2	Software installed	5.0.0.-704

Abbreviations:  
 EUT - Equipment Under Test,  
 AE - Auxiliary/Associated Equipment, or  
 SIM - Simulator (Not Subjected to Test)

### Input/Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	DC Power Port	DC	No	No	Dual feed 48 VDC Assembly
2	3 * RF Input/Output Ports	I/O	No	No	N-Type Coaxial
3	4 * Optical Fibre I/O Ports	I/O	No	No	LC/UPC Duplex
4	2 * TP	TP	No	No	RJ-45

\*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical  
 I/O = Signal Input or Output Port (Not Involved in Process Control)  
 TP = Telecommunication Ports

### Power Interface

Mode #	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	48	-	-	DC	-	

### EUT Operation Modes

Mode #	Description
1	UL and DL transmission and receiving ON

### EUT Configuration Modes

Mode #	Description
1	airHost maximum input threshold set to -55 dBm, uplink attenuation set to 0dB; <i>hd37</i> uplink and downlink attenuation set to 0dB.



### Test Equipment Verified for function

Model #	Description	Checked Function	Results
N9038A	Spectrum Analyzer	Frequency and Amplitude	Connected 50MHz and -20 dBm Ref_siganl and checked OK.
SAS-540	Antenna, 30 to 300MHz	Checked structure	Normal – no damage.
VUSLP9 111B	Antenna, 300 to 1,000MHz	Checked structure	Normal – no damage.
SAS-571	Antenna, 1 to 18GHz	Checked structure	Normal – no damage.
JB1	Antenna, 30 to 2000MHz	Checked structure	Normal – no damage.
AL-130	Antenna, 9kHz to 30MHz	Checked structure	Normal – no damage.
8449B	Pre-Amplifier	Gain	In Tolerance
KT-N5172B	Signal Generator, up to 6GHz	Frequency, Amplitude and Modulation	Within MFR Specs
KT-N9010A	Spectrum Analyzer	Frquency and Amplitude	Within MFR Specs

### Test Station Cables and Loads

Model #	Manufacture	Description
4 * TM8-N1S1-59	MegaPhase	N male to SMA male coaxial cable in 60 inches
1 * 49-30-34	Aeroflex	30dB 150W attenuators

### Test Station Insertion Loss

	Band 700	Band 800	Band 900
DL Transmitter	31.09 dB	31.19 dB	31.21 dB
DL Receiver	31.08 dB	31.16 dB	31.24 dB

### Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests:

Parameter	Uncertainty
Radio Frequency	±1 ppm
Total RF Power: Conducted	±1 dB
RF Power Density: Conducted	±2.75 dB
Spurious Emissions: Conducted	±3 dB
Temperature	±1 °C
Humidity	±5 %
DC and Low Frequency Voltages	±3 %
Radiated Emission, 30 to 6,000MHz	± 4.95 dB

Uncertainty figures are valid to a confidence level of 95%.

## Result Summary

The Compliance Status is a judgment based on the direct measurements and calculated highest emissions to appropriate standard limits. Measurement uncertainty values, provided on calibration certificates, were not be used in the judgment of the final status of compliance.

<b>FCC Part</b>			
<b>Test Type</b>	<b>Regulation</b>	<b>Measurement Method</b>	<b>Result</b>
AGC Threshold	FCC KDB 935210 D05, v01r04, Section 4.2	ANSI TIA-603- E-2016	PASS
Out of Band Rejection	FCC KDB 935210 D05, v01r04, Section 4.3	ANSI TIA-603- E-2016	PASS
Input-versus-output Signal Comparison	FCC KDB 935210 D05, v01r04, Section 4.4	ANSI TIA-603- E-2016	PASS
Input/output Power and Amplifier/Booster Gain	FCC KDB 935210 D05, v01r04, Section 4.5	ANSI TIA-603- E-2016	PASS
Noise Figure	FCC KDB 935210 D05, v01r04, Section 4.6	ANSI TIA-603- E-2016	PASS
Measuring out-of-band/out-of-block (including intermodulation) and spurious emissions	FCC KDB 935210 D05, v01r04, Section 4.7	ANSI TIA-603- E-2016	PASS
Frequency stability	FCC KDB 935210 D05, v01r04, Section 4.8	ANSI TIA-603- E-2016	PASS
Spurious emissions radiated measurements	FCC KDB 935210 D05, v01r04, Section 4.9	ANSI C63.4:2014	PASS

### AGC Threshold

Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.219(d)	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05, v01r04;	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	06/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/23/21
Frequency Range:	<input checked="" type="checkbox"/> 935 MHz – 940 MHz; <input checked="" type="checkbox"/> 851 MHz – 861 MHz; <input checked="" type="checkbox"/> 769 MHz – 775 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Output Power is less than 37.3 dBm in band 800, less than 37.7 dBm in band 700, and less than 37.0 dBm in band 150.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

Description of test set-up:

Output power is measured by connecting a spectrum analyzer to RF output connector of EUT via 30dB Attenuator. With a nominal input power and the amplifier properly adjusted the RF output is measured. The EUT was set to **Operation Mode #1 with configuration Mode #1**. The maximum output power is measured when the Automatic Level Control (ALC) starting to compress the power and hold to a constant level.

```

    graph LR
      VSG[Vector Signal Generator] --> hdHost[hdHost]
      hdHost --> EUT[EUT]
      EUT --> Att[30 dB Attenuator]
      Att --> SA[Spectrum Analyzer]
    
```

**Results – Output Power FCC Requirement**

Frequency Range (MHz)	Frequency (MHz)	Input Power Trip ALC (dBm)	Output Power (dBm)	Output Power (Watt)
935 - 940	935.025	-54.1	37	5.012
	937.5	-54.7	37.2	5.25
	939.975	-55	37.7	5.89
851 -861	851.0125	-55.7	37.3	5.37
	856	-55.2	37.4	5.49
	860.9875	-53.5	37.5	5.62
769 - 775	769.0125	-54.5	36.9	4.9
	772	-53.4	37.1	5.13
	774.9875	-51.9	37.4	5.49

### Occupied Bandwidth

Governing Doc	FCC Part 2 2.1049	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E-2016; FCC KDB 935210 D05, v01r04	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	06/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/29/21
Frequency Range:	<input checked="" type="checkbox"/> 935 MHz – 940 MHz; <input checked="" type="checkbox"/> 851 MHz – 861 MHz; <input checked="" type="checkbox"/> 769 MHz – 775 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
Type of Facility:	<input checked="" type="checkbox"/> Test bench				
Distance:	<input checked="" type="checkbox"/> Direct				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
<p>Output signal has an occupied channel bandwidth less than the designated channel bandwidth on any location on the operating band.</p> <ul style="list-style-type: none"> <li>- C4FM &lt; 12.5 kHz</li> <li>- CQPSK &lt; 6.25 kHz</li> <li>- HDQPSK &lt; 12.5 kHz</li> <li>- 4 kHz FM with 1kHz deviation &lt; 12.5 kHz</li> </ul>					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

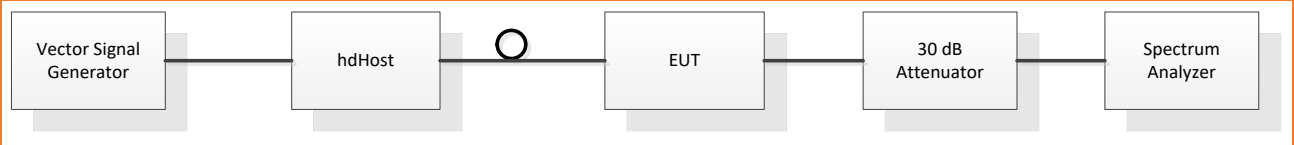
#### Description of test set-up:

Occupied Bandwidth is measured by connecting a Spectrum Analyzer to the RF output connector via 30dB attenuator. The required measurement resolution bandwidth (RBW) is 1% of the emission bandwidth. 99% energy rule was applied to measure the occupied channel bandwidth. The emission bandwidth is measured as the width of the signal between two frequency points on the channel edge, outside of which the transmission power is attenuated at least 26dB below the transmitter output power

The EUT was set to **Operation Mode #1 with configuration Mode #1.**

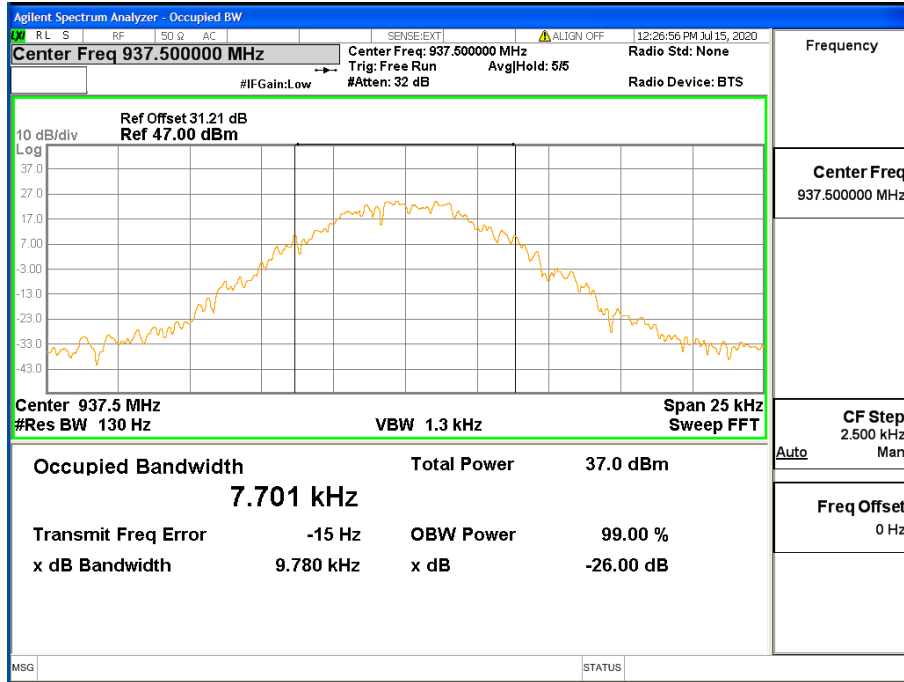
The occupied bandwidth of DL output is measured under one input conditions:

- Nominal: with input 0.5dB below AGC threshold

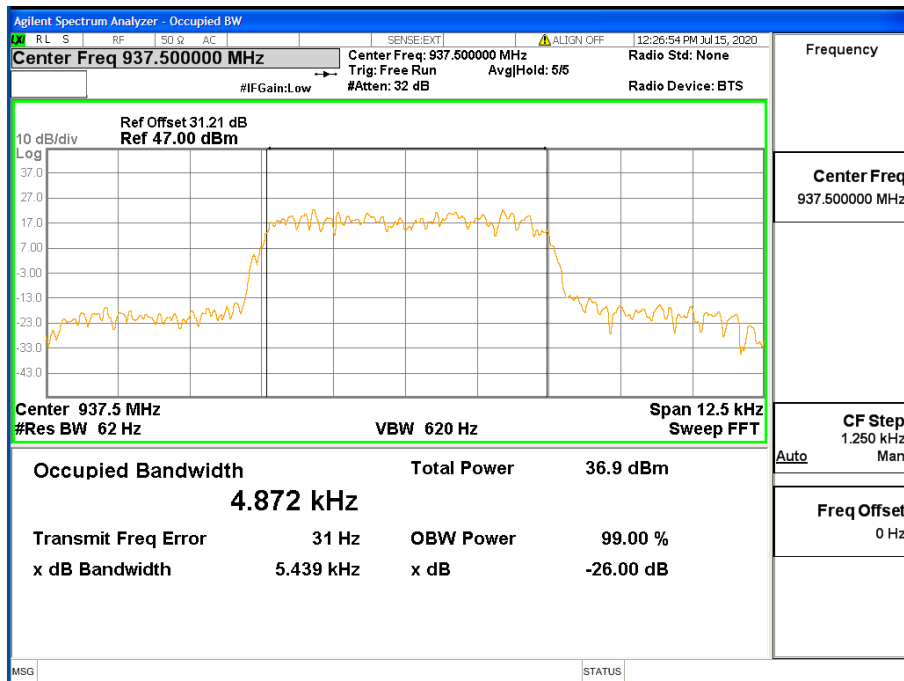


**Results – Occupied Bandwidth (OBW)**

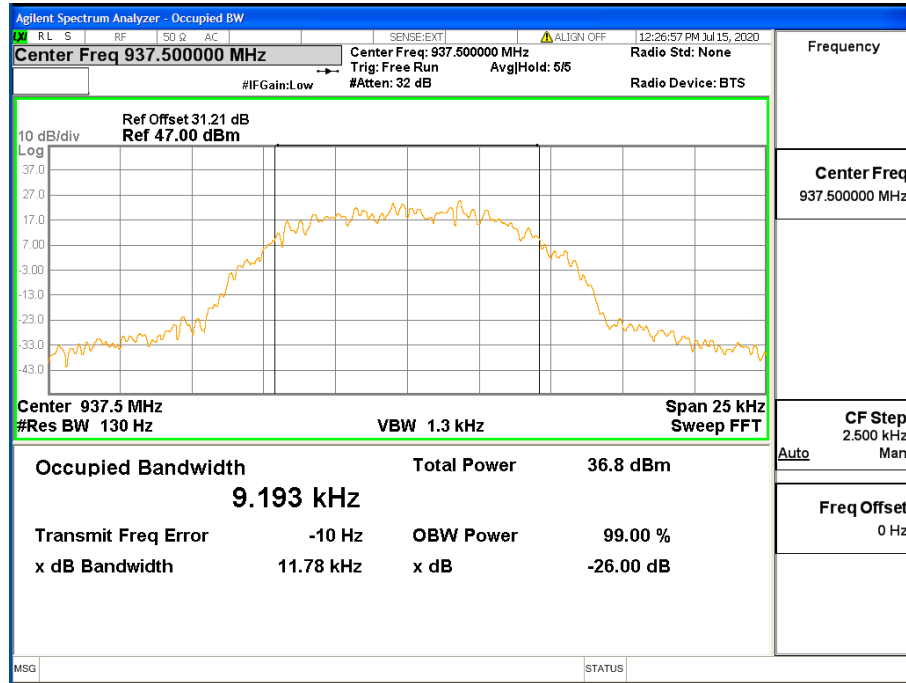
**C4FM Signal at 937.5 MHz**



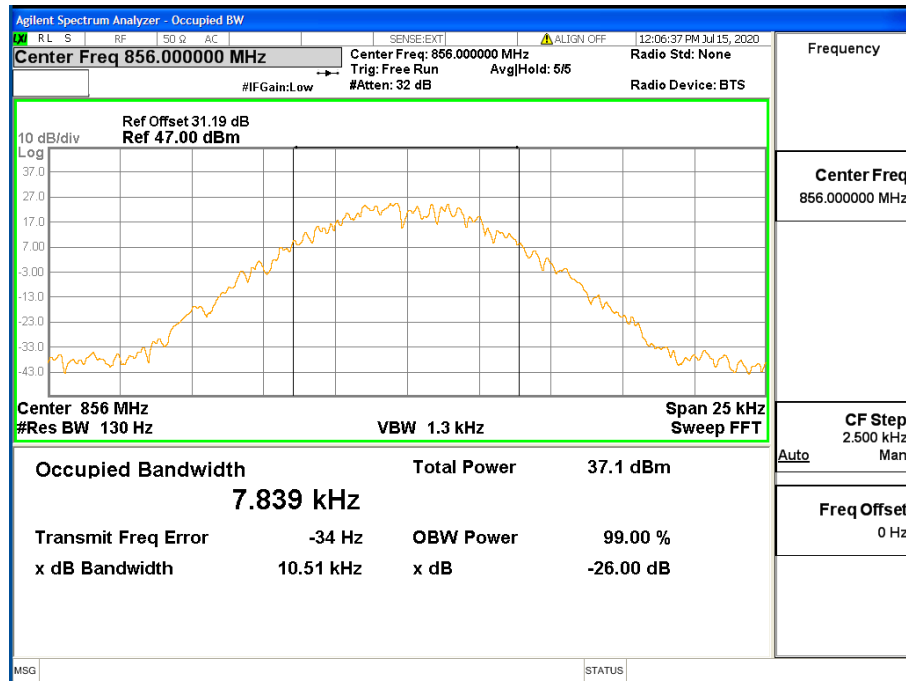
**CQPSK Signal at 937.5 MHz**



### HDQPSK Signal at 937.5 MHz

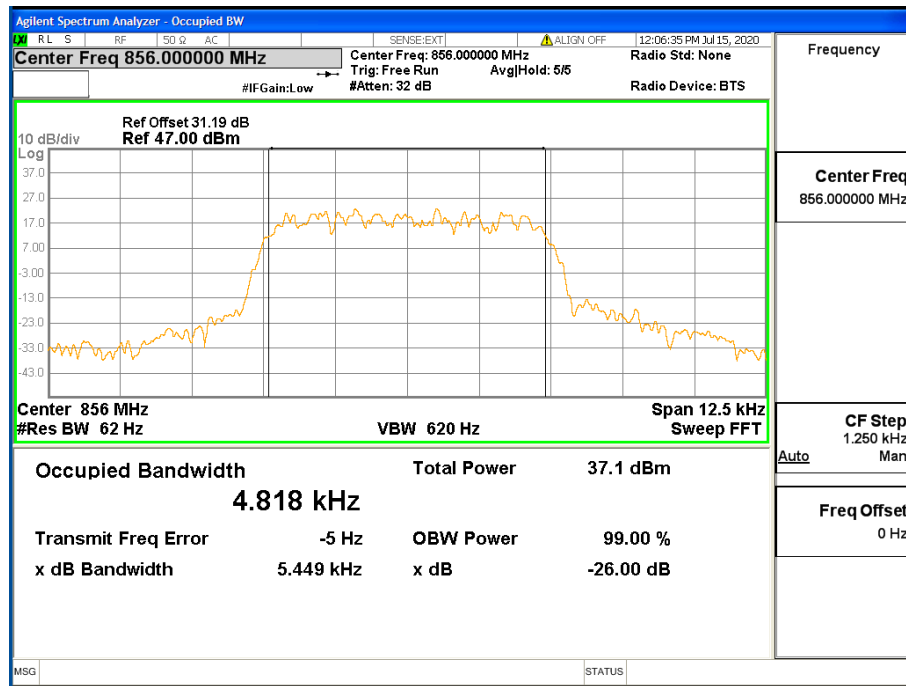


### C4FM Signal at 856.0 MHz

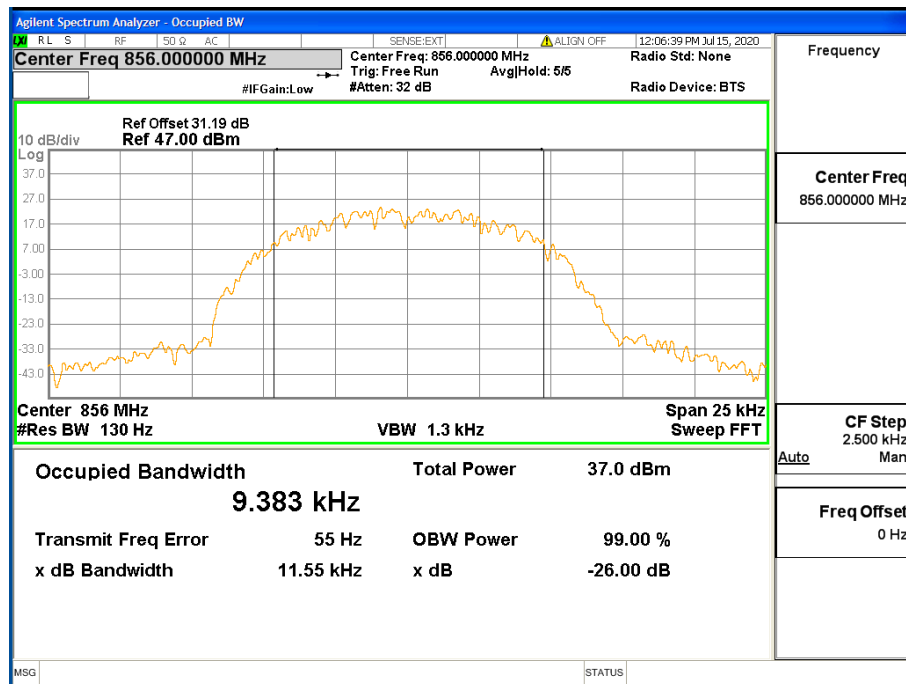




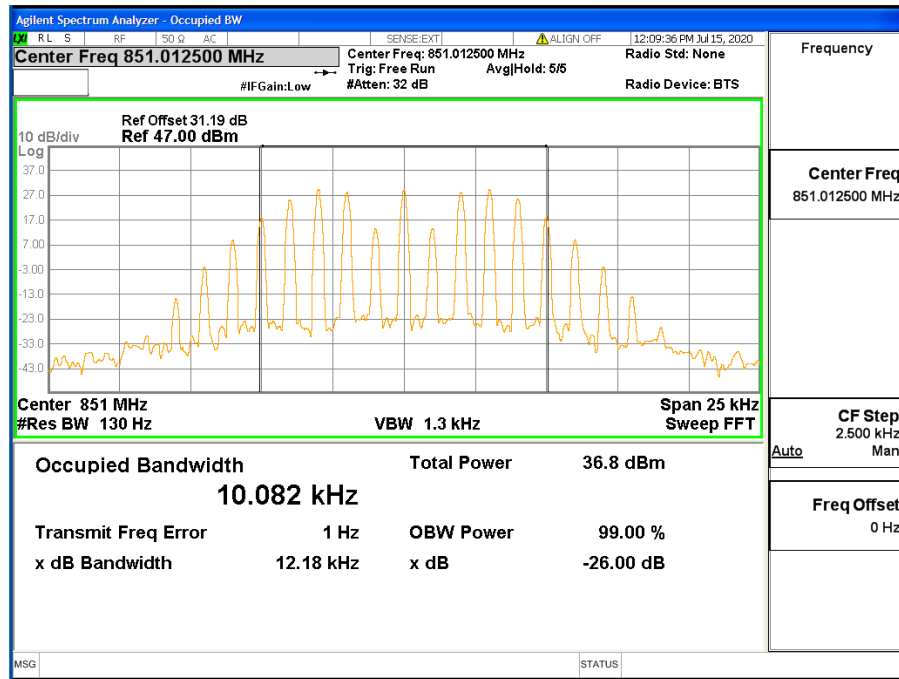
### CQPSK Signal at 856.0 MHz



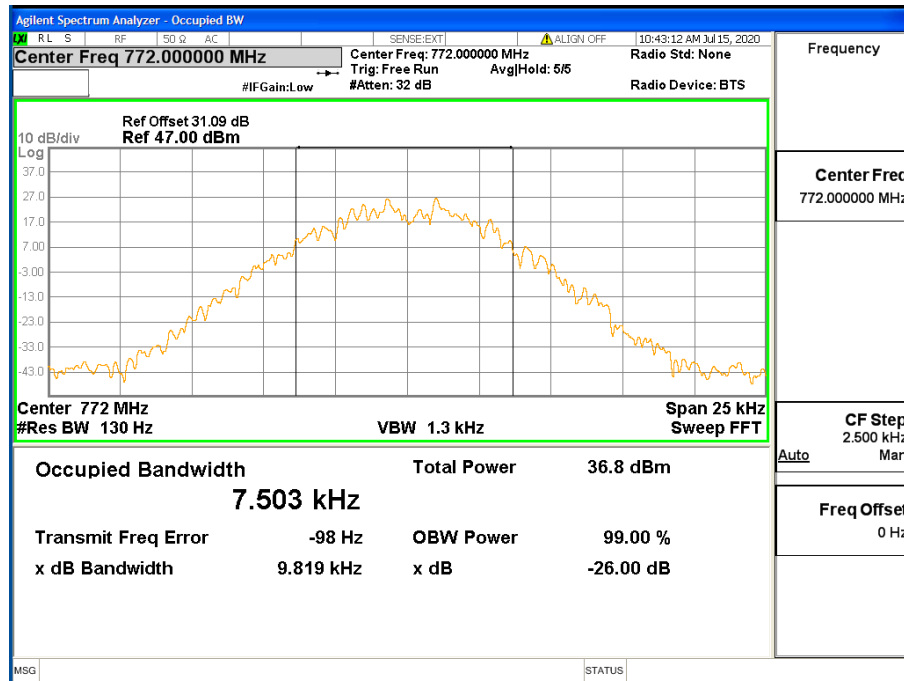
### HDQPSK Signal at 856.0 MHz



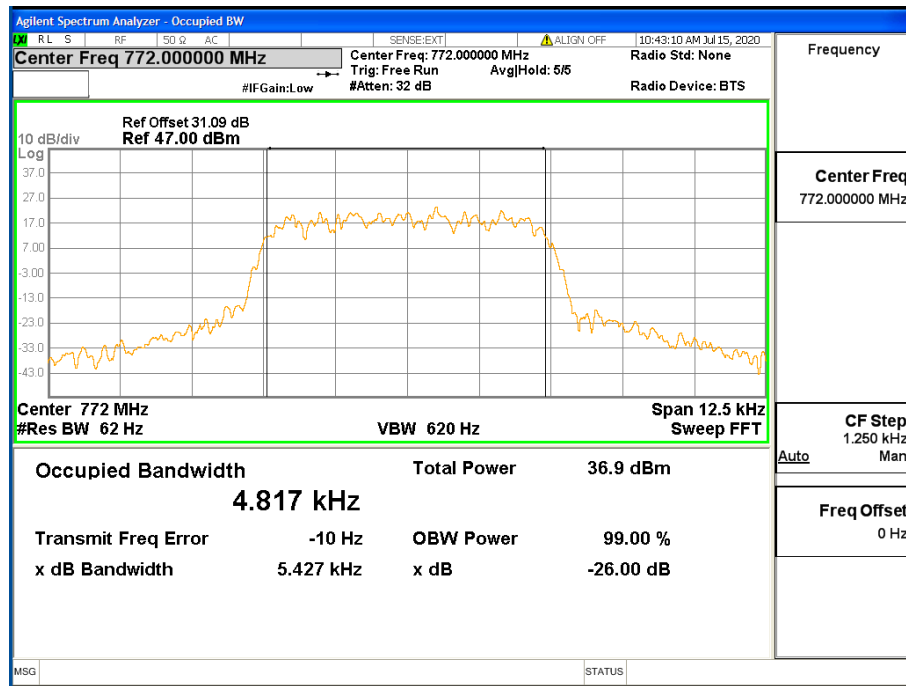
### FM Signal at 851.0125 MHz



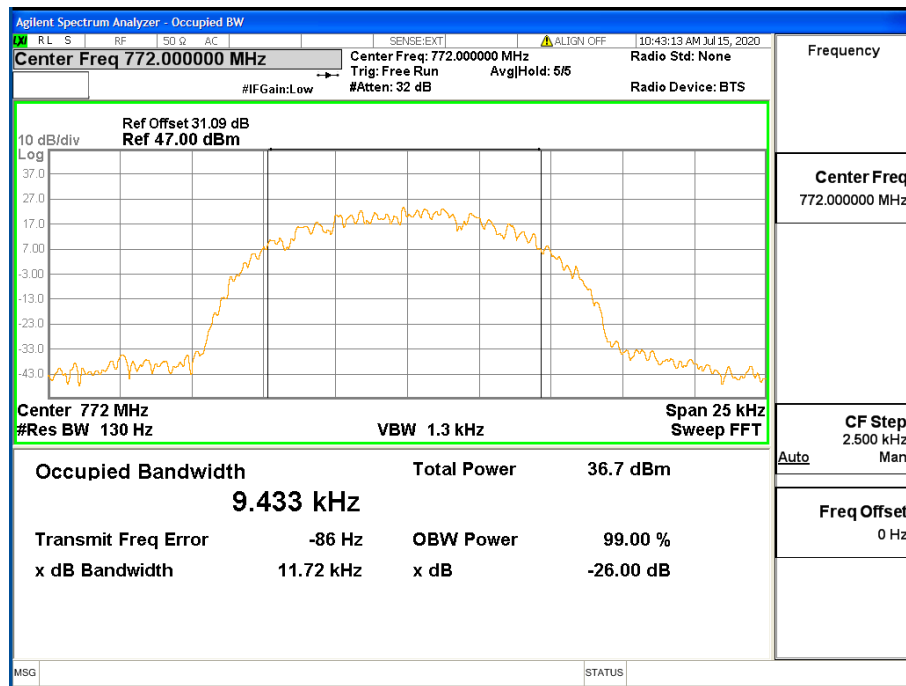
### C4FM Signal at 772.0 MHz



### CQPSK Signal at 772.0 MHz



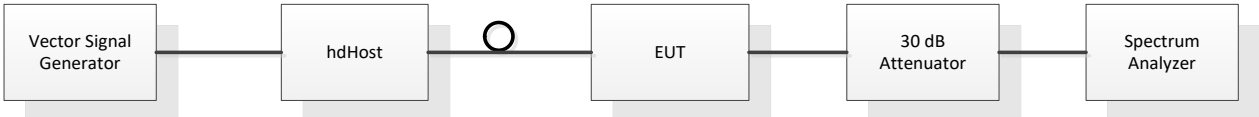
### HDQPSK Signal at 772.0 MHz



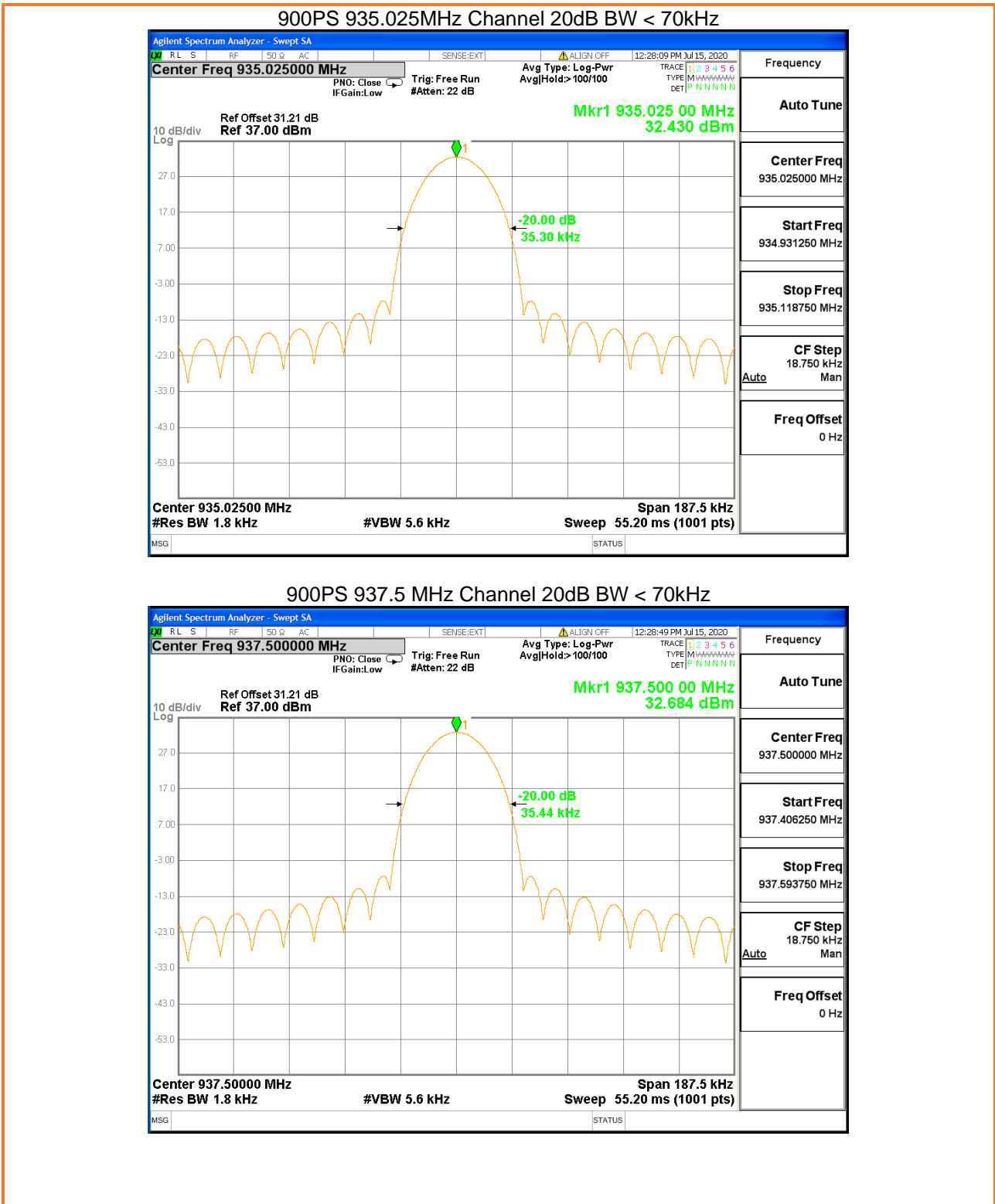
### Out of Band Rejection

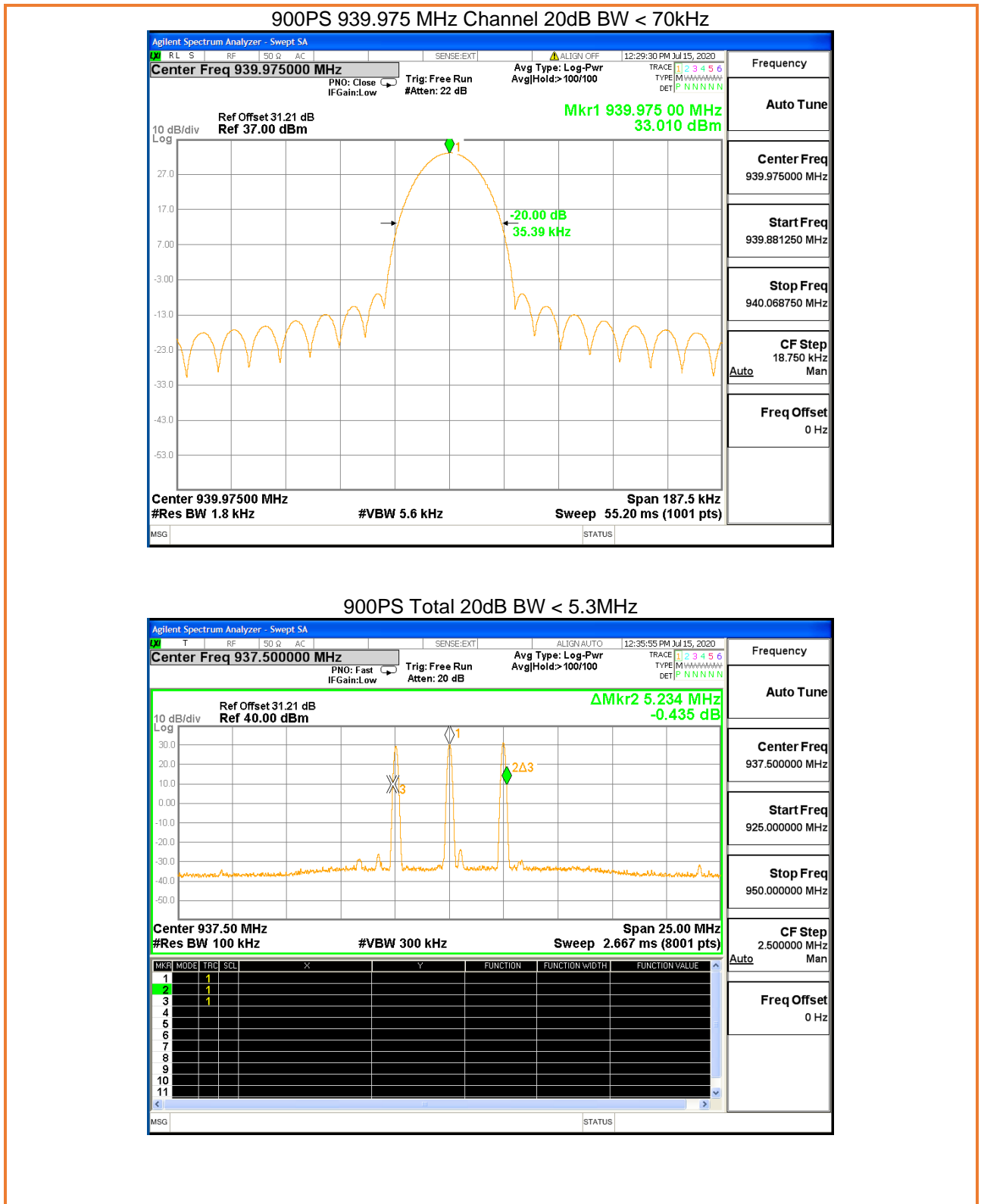
Governing Doc	FCC Part 2 2.1046(a) FCC Part 90.219(d)		Room Temperature (°C)	23.6	
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r04		Relative Humidity (%)	39.9	
Test Location	Richmond		Barometric Pressure (kPa)	102.1	
Test Engineer	Jeremy Lee		Date	15 July 2020	
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	08/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	08/23/21
Frequency Range:	<input checked="" type="checkbox"/> Product Passband $\pm$ 250%				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 1 to 5% of the EUT passband / $\geq$ 3 X RBW				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

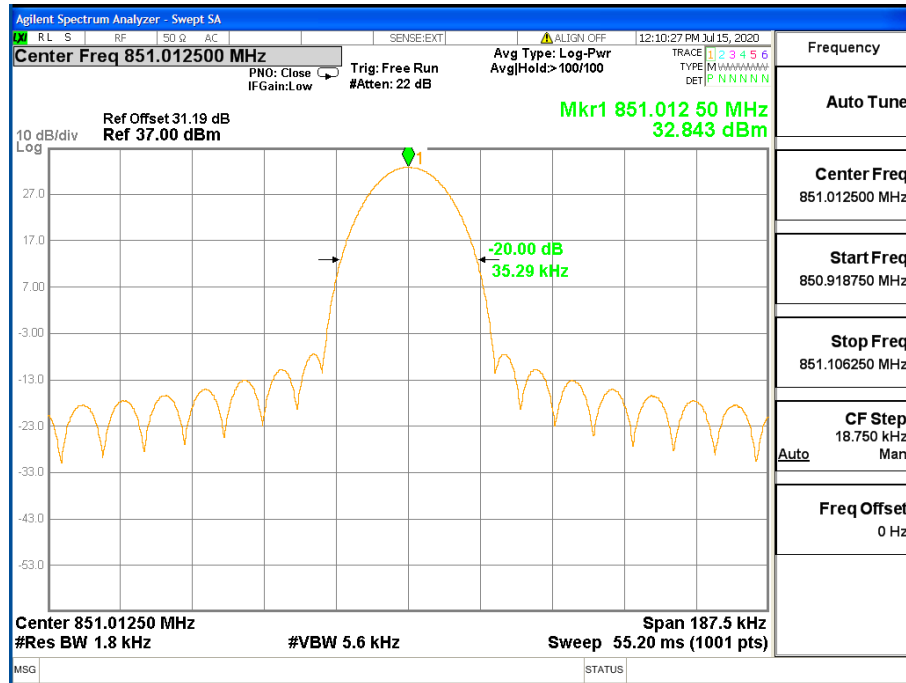
<p>Description of test set-up:</p> <p>The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r04. The signal booster was set to maximum gain. A swept CW signal was set to the range of <math>\pm</math>250 % of the product pass band. The CW amplitude was set to 3 dB below the AGC threshold so that the ALC should not activate throughout the test.</p> <p>After the max-hold sweep trace was completed, a marker was set to the peak amplitude, and a 20dB bandwidth was measured between two additional markers fall 20 dB from the peak.</p> <p>The EUT was set to <b>Operation Mode #1 with configuration Mode #1.</b></p>  <pre>             graph LR             A[Vector Signal Generator] --- B[hdHost]             B --- C(( ))             C --- D[EUT]             D --- E[30 dB Attenuator]             E --- F[Spectrum Analyzer]             </pre>
--

**Results**

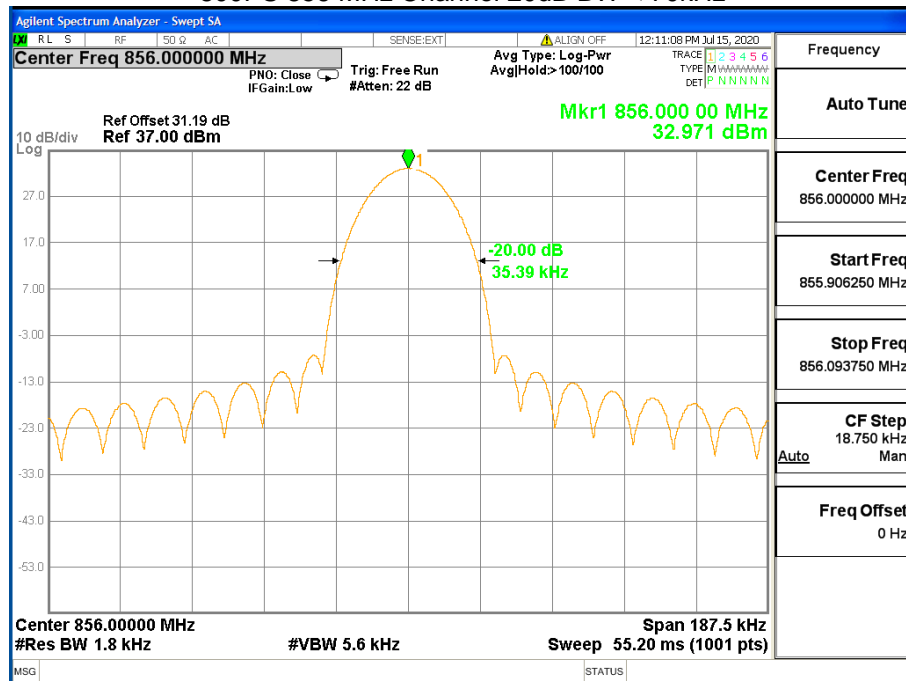




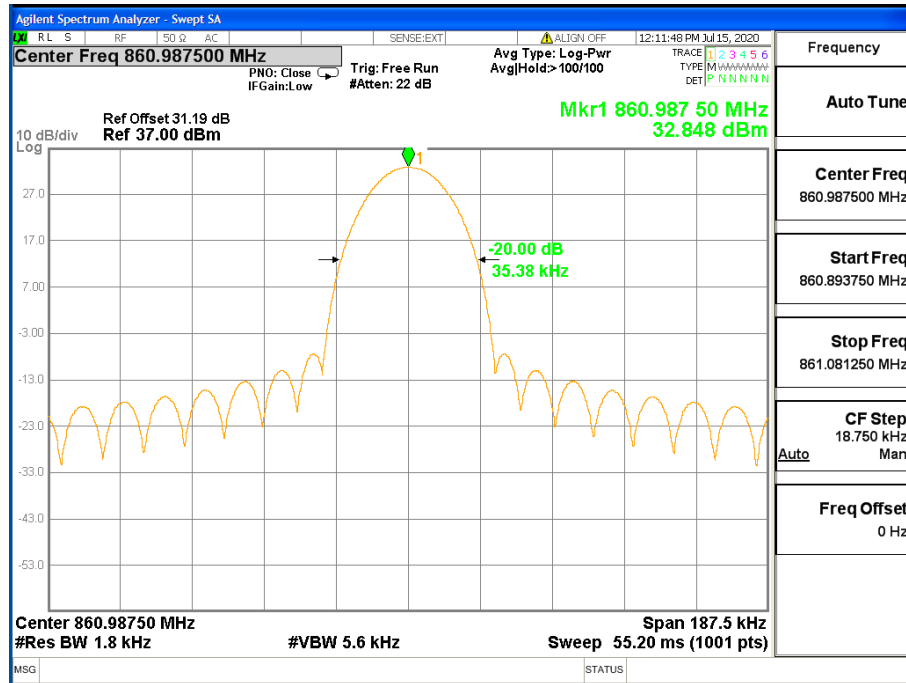
800PS 851.0125 MHz Channel 20dB BW < 70kHz



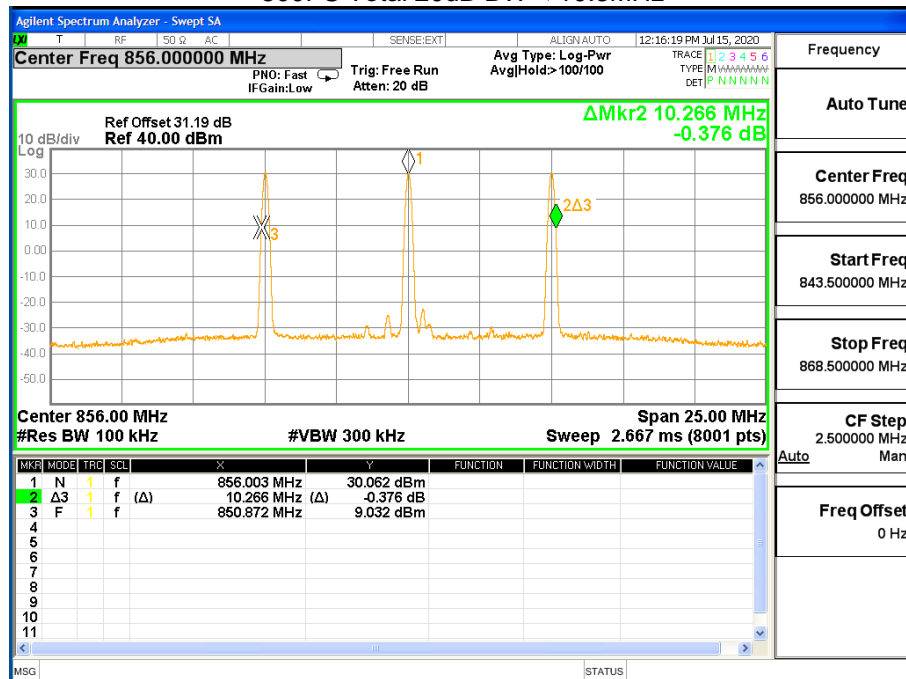
800PS 856 MHz Channel 20dB BW < 70kHz



800PS 860.9875 MHz Channel 20dB BW < 70kHz

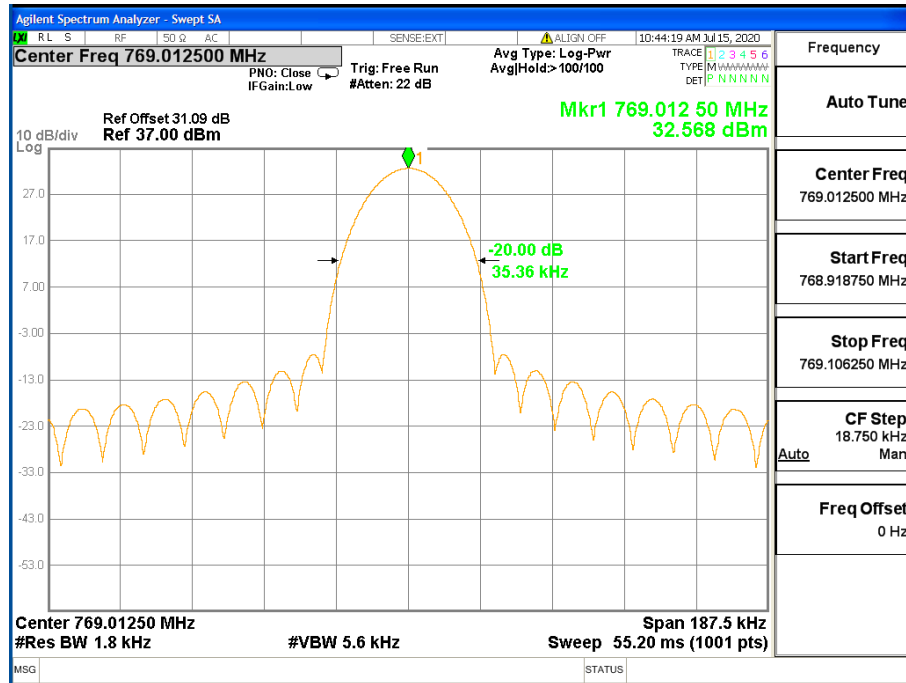


800PS Total 20dB BW < 10.3MHz

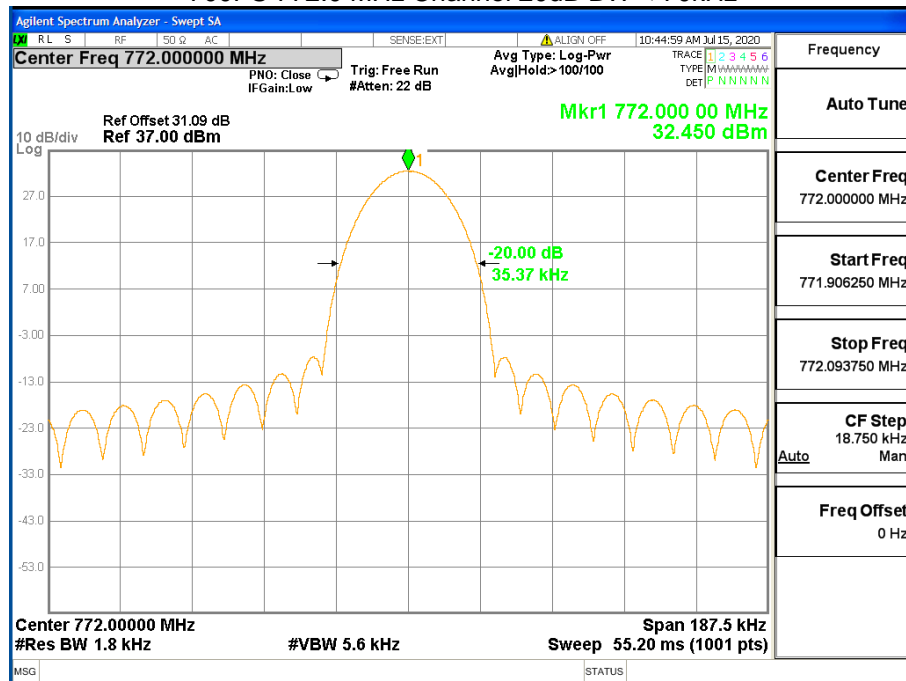




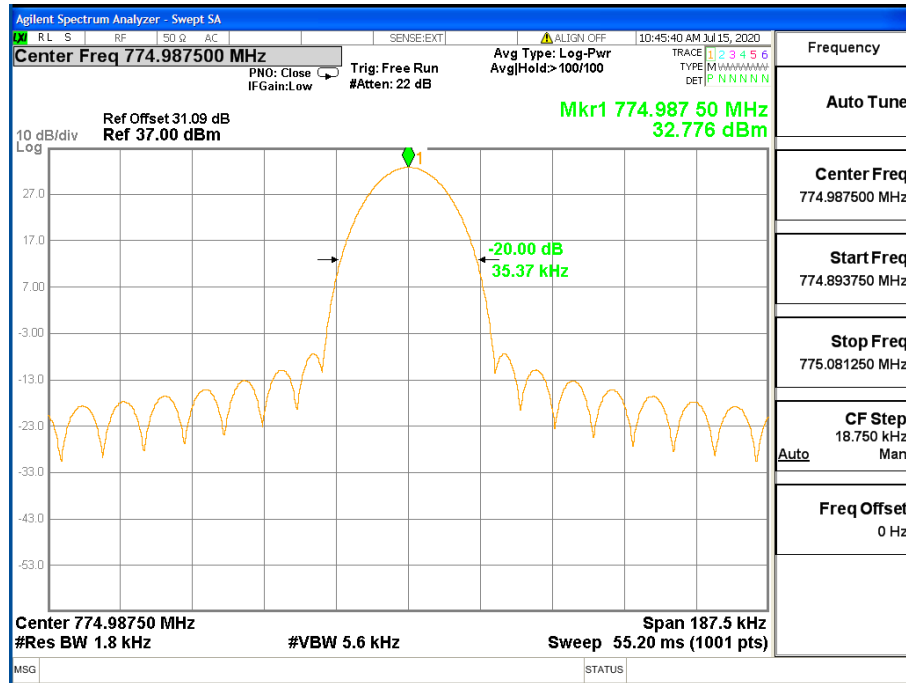
700PS 769.0125 MHz Channel 20dB BW < 70kHz



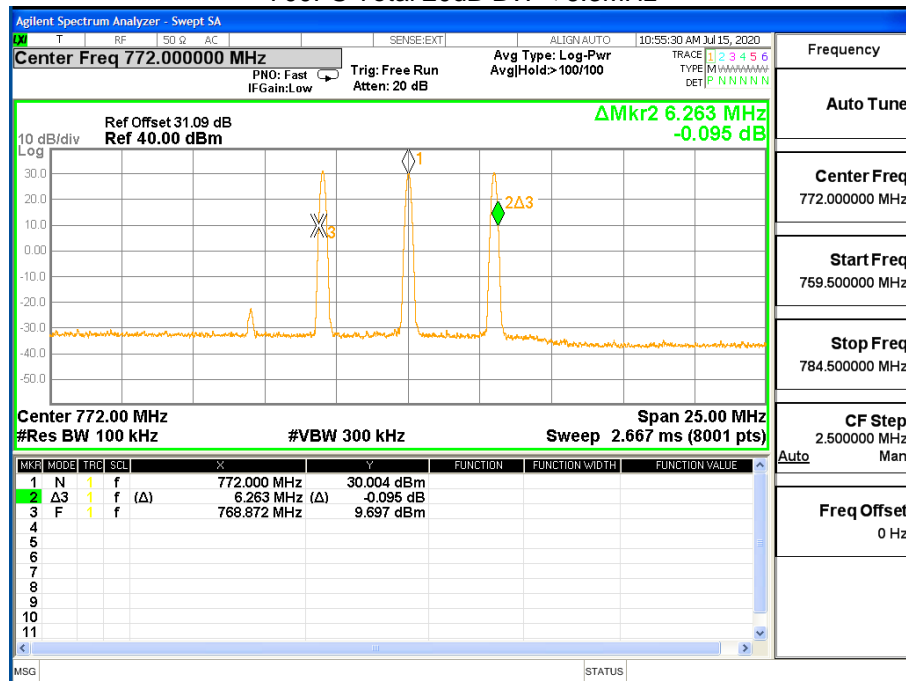
700PS 772.0 MHz Channel 20dB BW < 70kHz



700PS 774.9875 MHz Channel 20dB BW < 70kHz



700PS Total 20dB BW < 6.3MHz



### Input-Versus-Output Signal Comparison

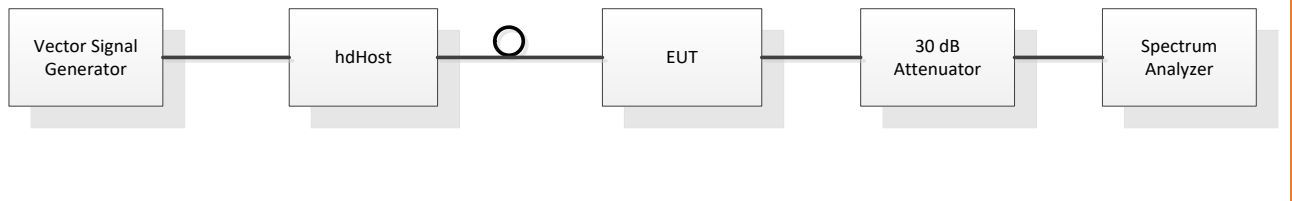
Governing Doc	FCC Part 90.210 (j) (h) (g) (c) (d) and (e)	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r04	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	06/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/23/21
Frequency Range:	<input checked="" type="checkbox"/> 935 MHz – 940 MHz; <input checked="" type="checkbox"/> 851 MHz – 861 MHz; <input checked="" type="checkbox"/> 769 MHz – 775 MHz				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 100 Hz				
Type of Facility:	<input checked="" type="checkbox"/> Testbench				
Distance:	<input checked="" type="checkbox"/> direct connect				
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only <input type="checkbox"/> Floor-standing only <input type="checkbox"/> Rack Mounted				
Based on FCC Part90.210, transmitters without audio low pass filter used in frequency band 769 - 775 MHz must comply to emission mask C; 851 - 854 MHz must comply to emission mask H; 854 - 861 MHz must comply to emission mask D; 935 - 940 MHz must comply to emission mask J;					
Signal of all types of modulation is contained within the emission mask.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

#### Description of test set-up:

Spectrum Emission Mask is measured by connecting a Spectrum Analyzer to the RF output connector. The input power was adjusted to produce maximum output power on the antenna port. The reference level was measured with integrated BW of the designated channel BW. The emission was measured with RBW 100 Hz.

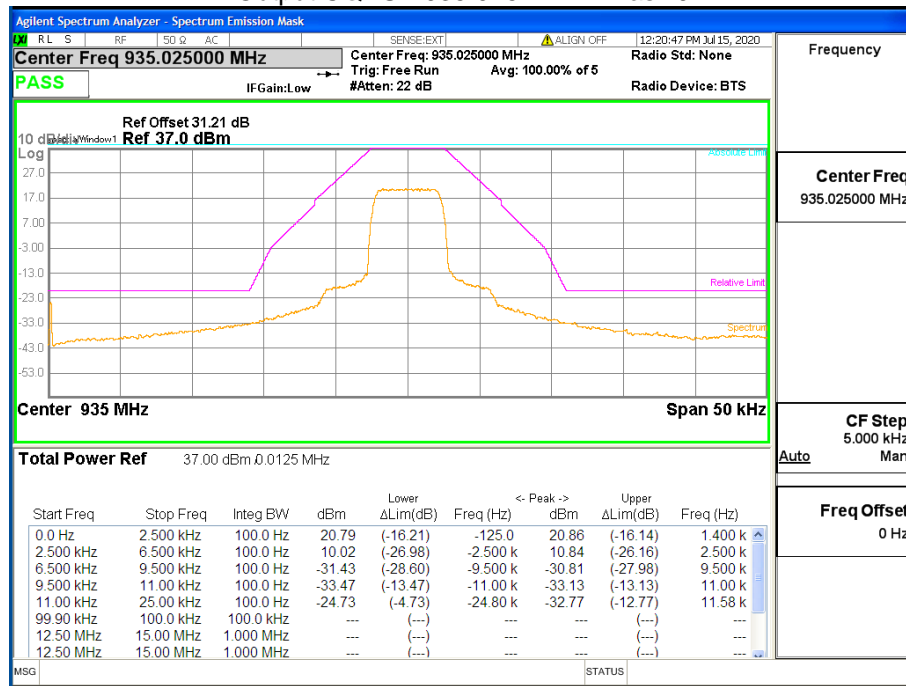
The EUT was set to **Operation Mode #1 with configuration Mode #1**.



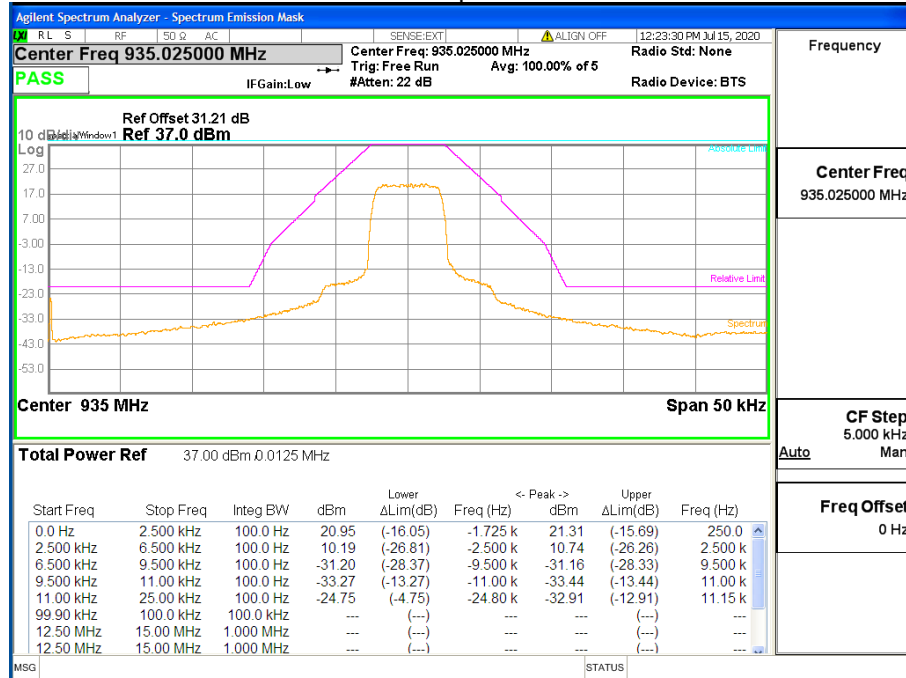
**Results**



### Output CQPSK 935.025 MHz - Mask J



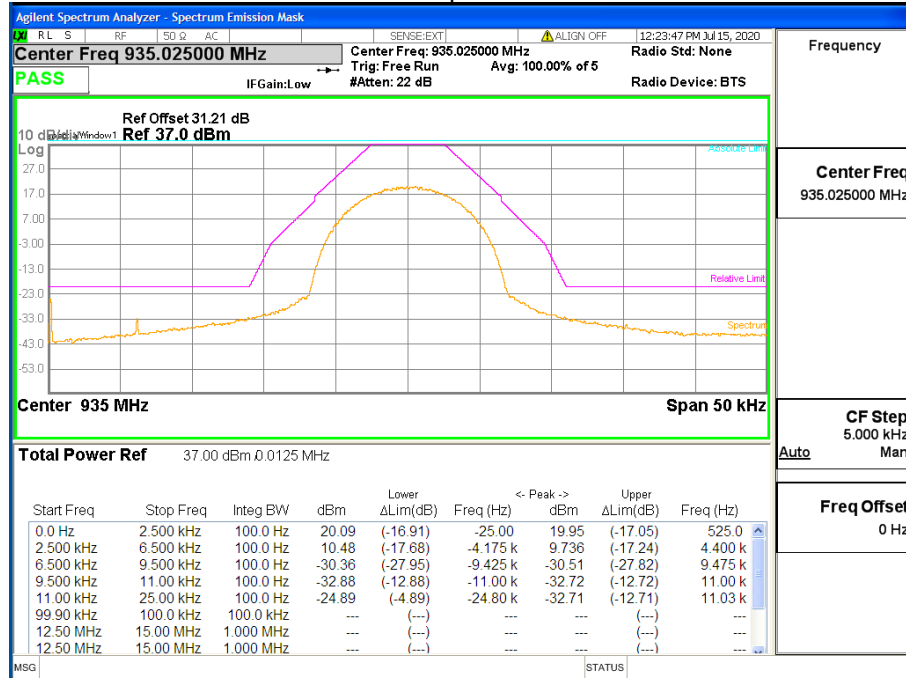
### 3dB above the AGC threshold Output CQPSK 935.025 MHz - Mask J



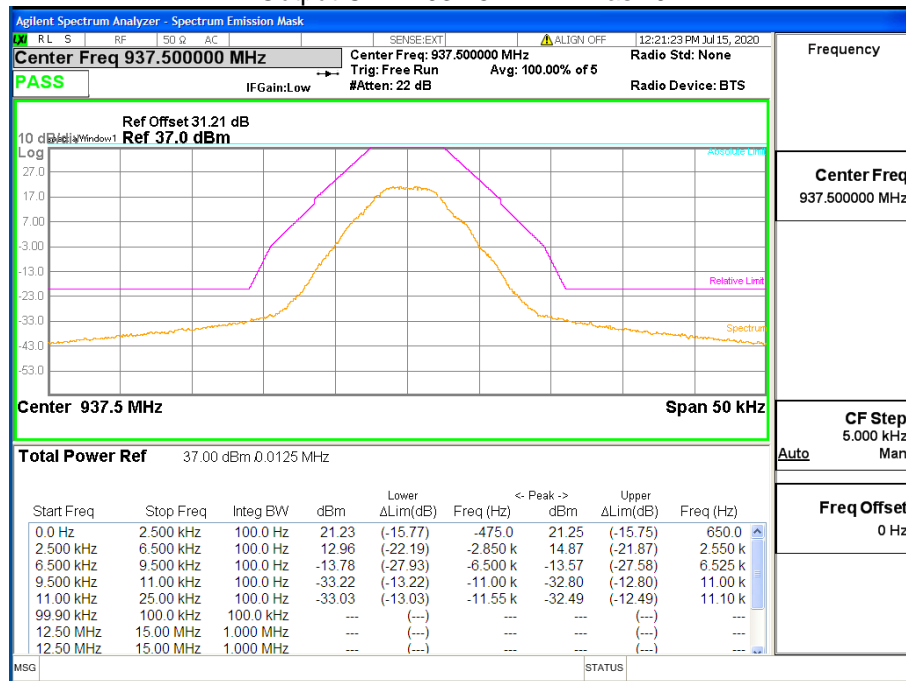
### Output HDQPSK 935.025 MHz - Mask J



### 3dB above the AGC threshold Output HDQPSK 935.025 MHz - Mask J



### Output C4FM 937.5 MHz – Mask J

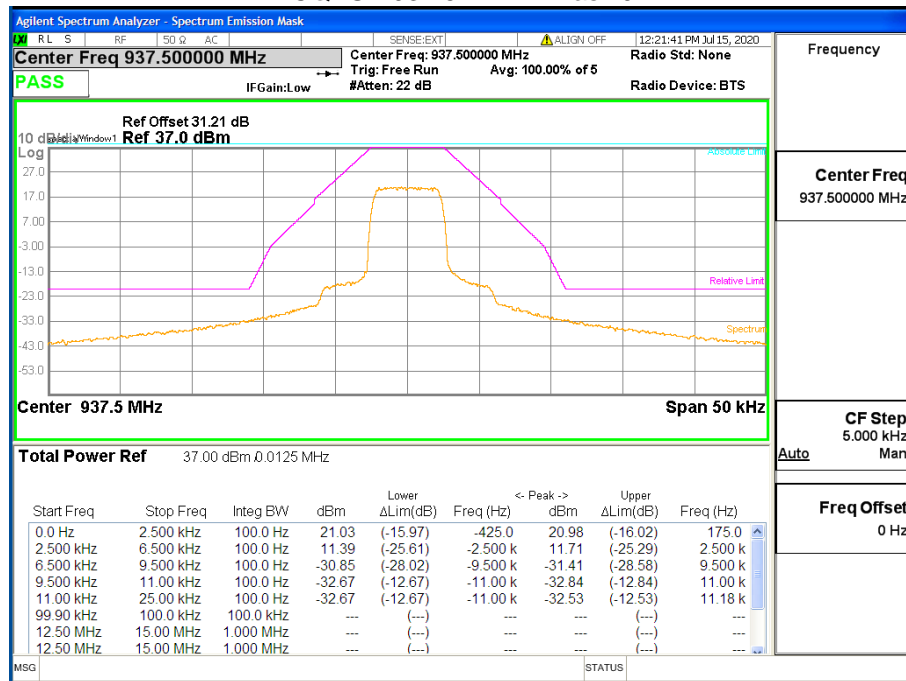


### 3dB above the AGC threshold Output C4FM 937.5 MHz – Mask J

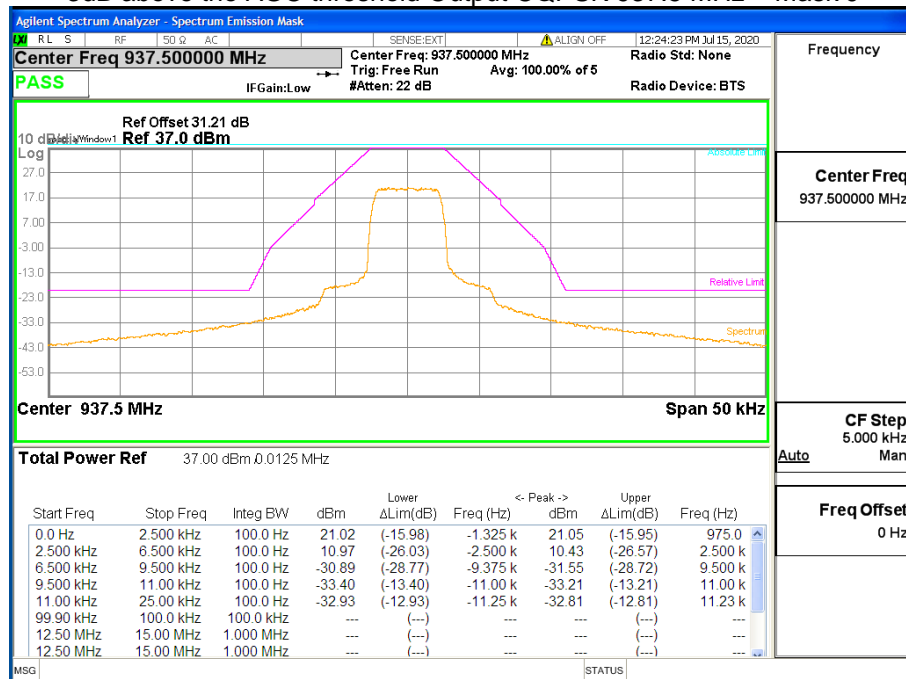




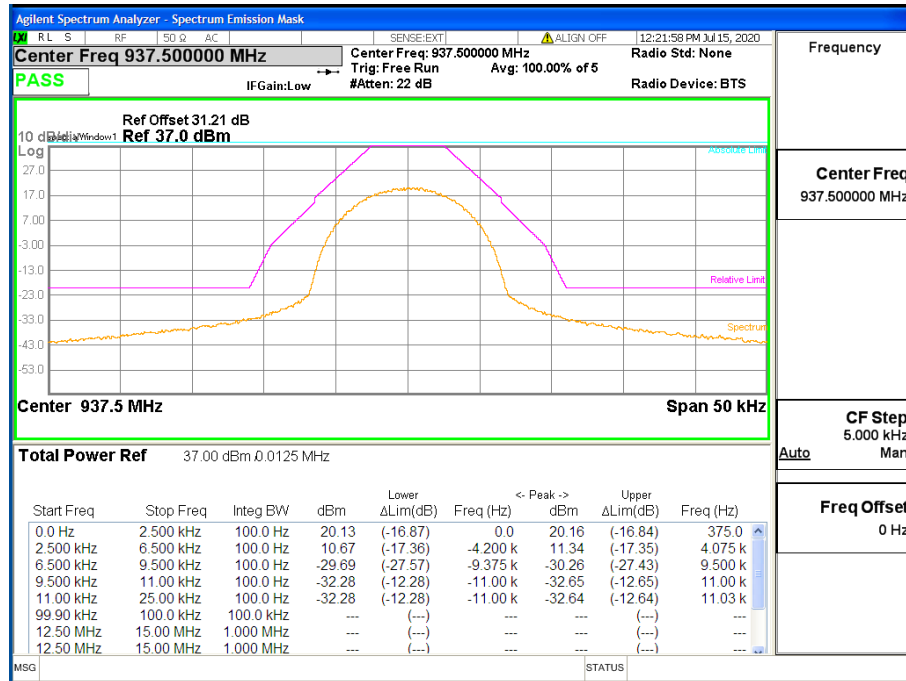
### CQPSK 937.5 MHz – Mask J



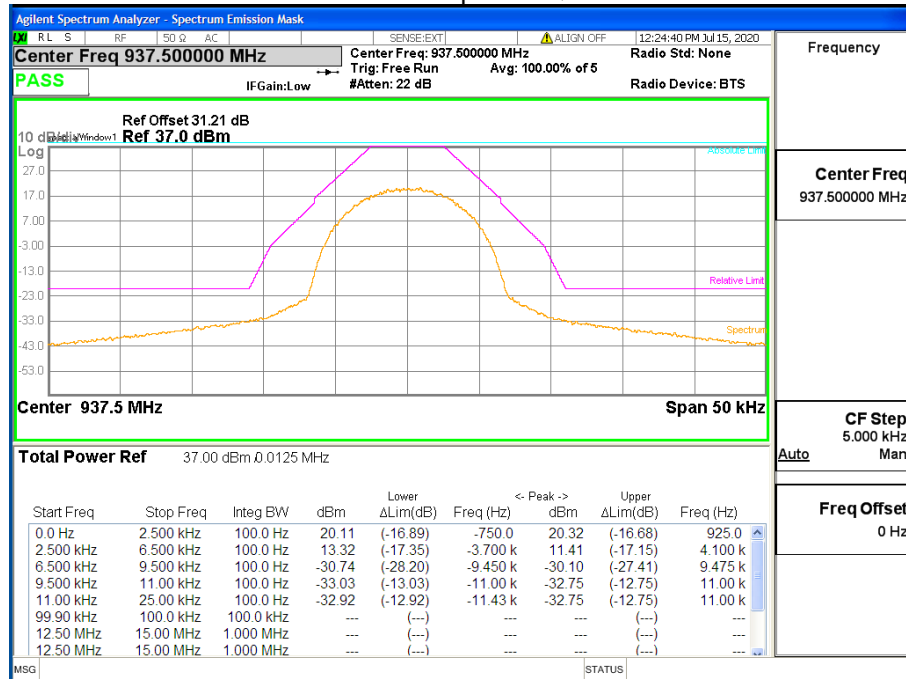
### 3dB above the AGC threshold Output CQPSK 937.5 MHz – Mask J



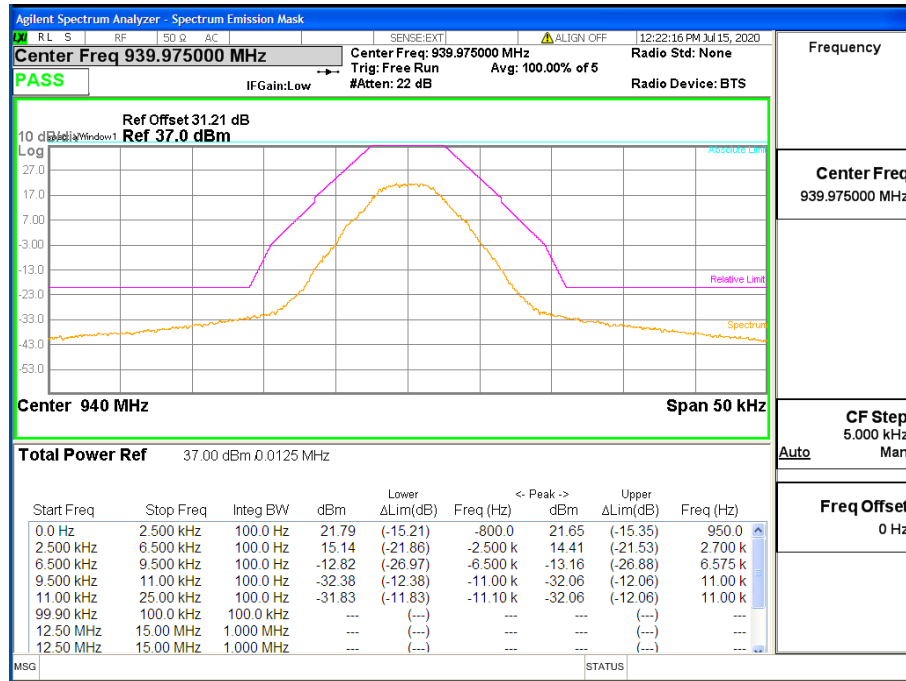
### HDQPSK 937.5 MHz – Mask J



### 3dB above the AGC threshold Output HDQPSK 937.5 MHz – Mask J



C4FM 939.975 MHz – Mask J



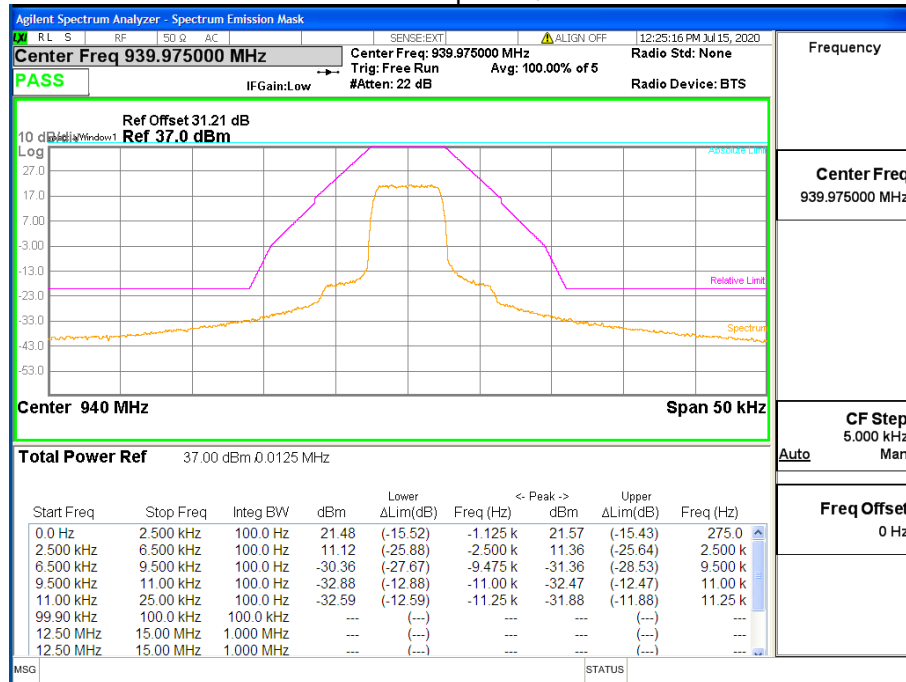
3dB above the AGC threshold Output C4FM 939.975 MHz – Mask J



### CQPSK 939.975 MHz – Mask J



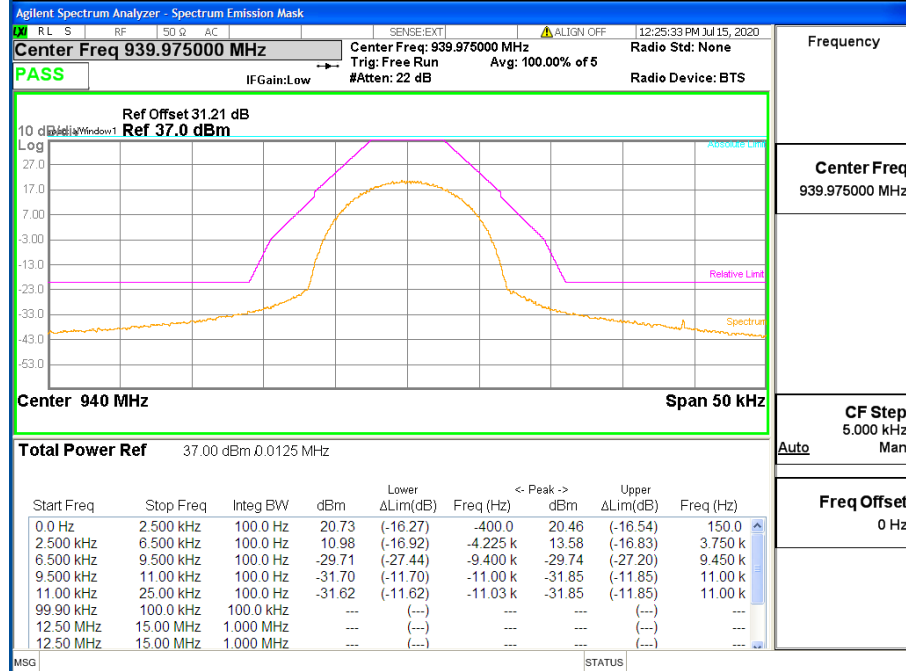
### 3dB above the AGC threshold Output CQPSK 939.975 MHz – Mask J



### HDQPSK 939.975 MHz – Mask J

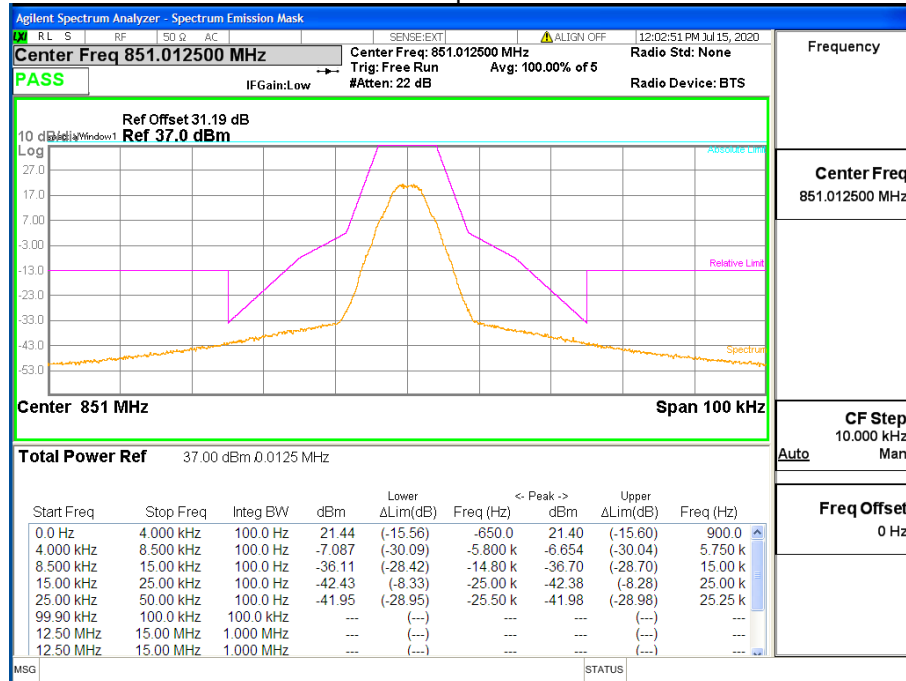


### 3dB above the AGC threshold Output HDQPSK Upper

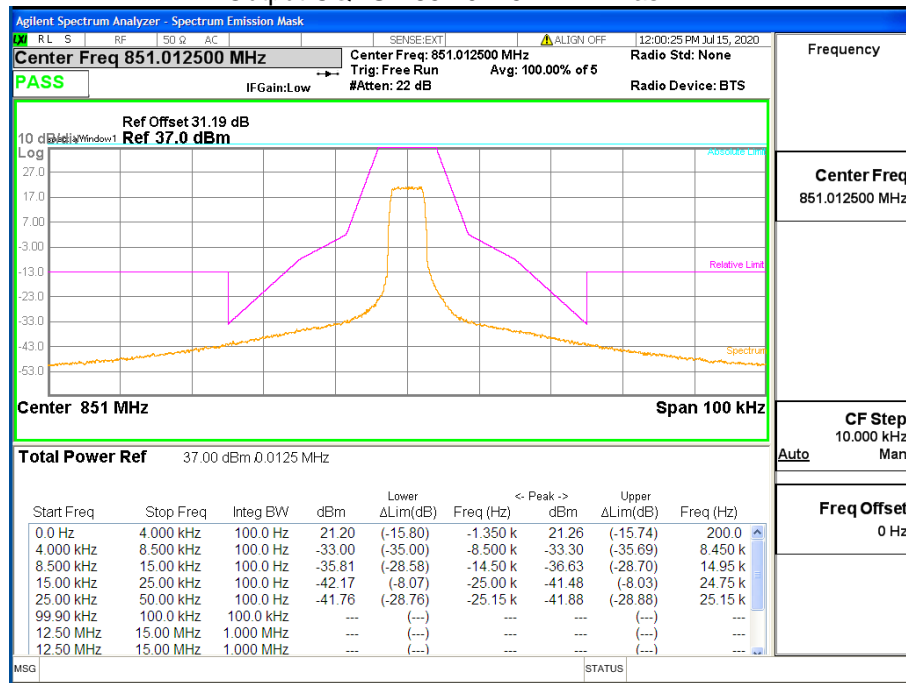




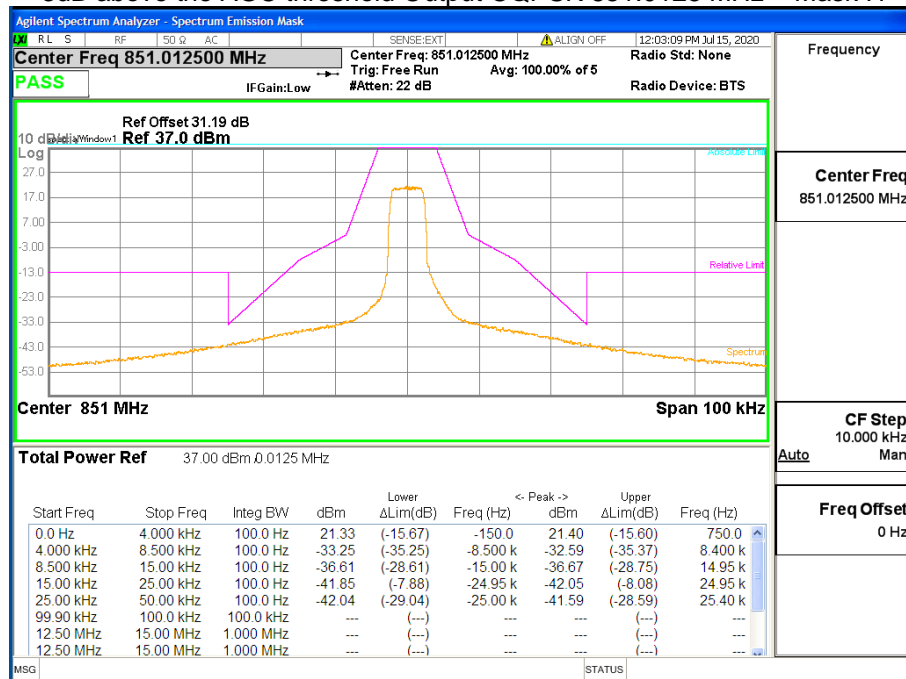
### 3dB above the AGC threshold Output C4FM 851.0125 MHz – Mask H



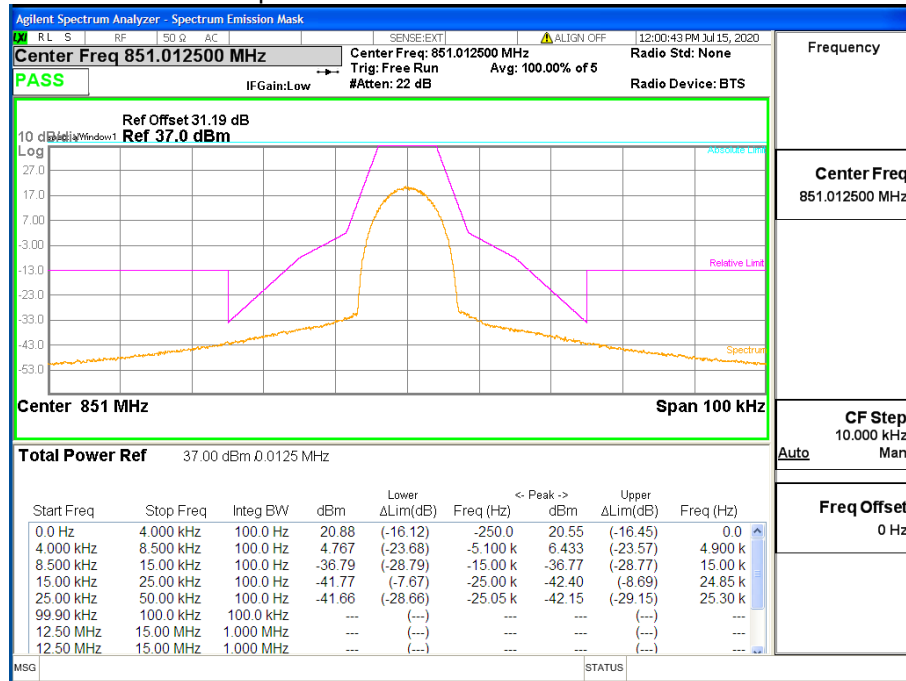
### Output CQPSK 851.0125 MHz - Mask H



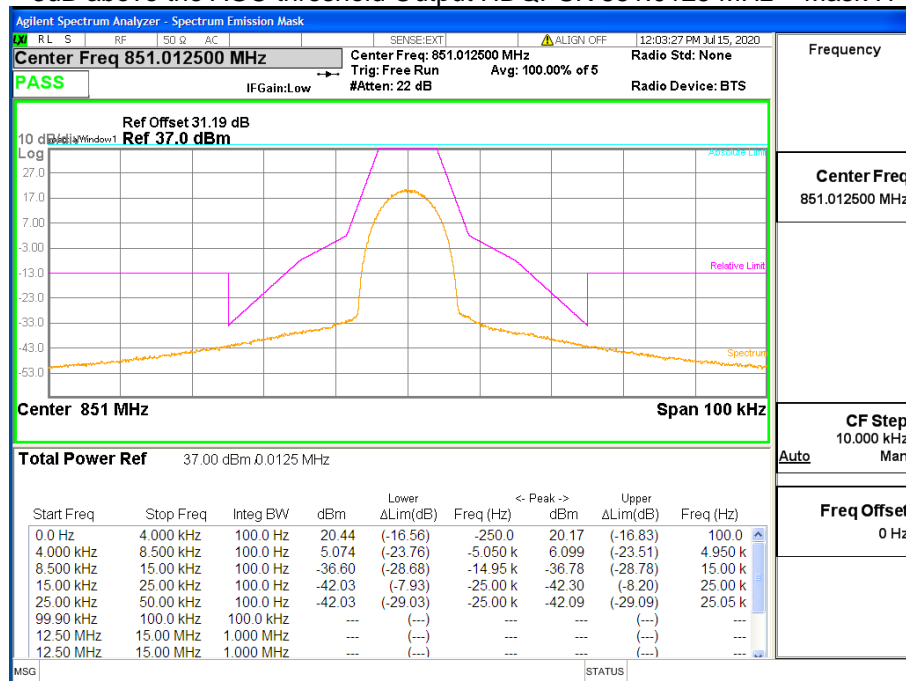
### 3dB above the AGC threshold Output CQPSK 851.0125 MHz – Mask H



### Output HDQPSK 851.0125 MHz - Mask H

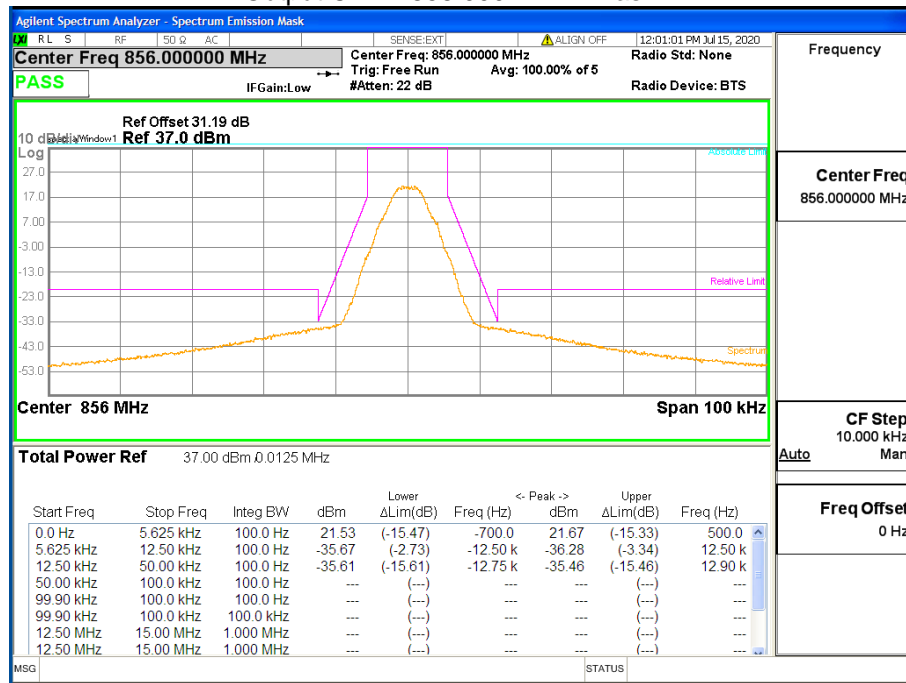


### 3dB above the AGC threshold Output HDQPSK 851.0125 MHz – Mask H

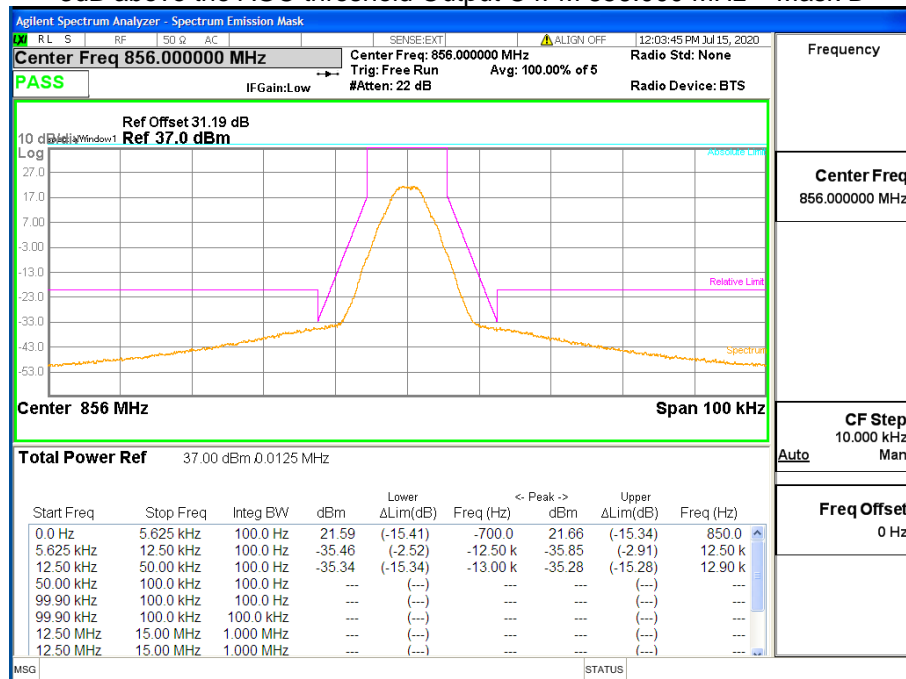




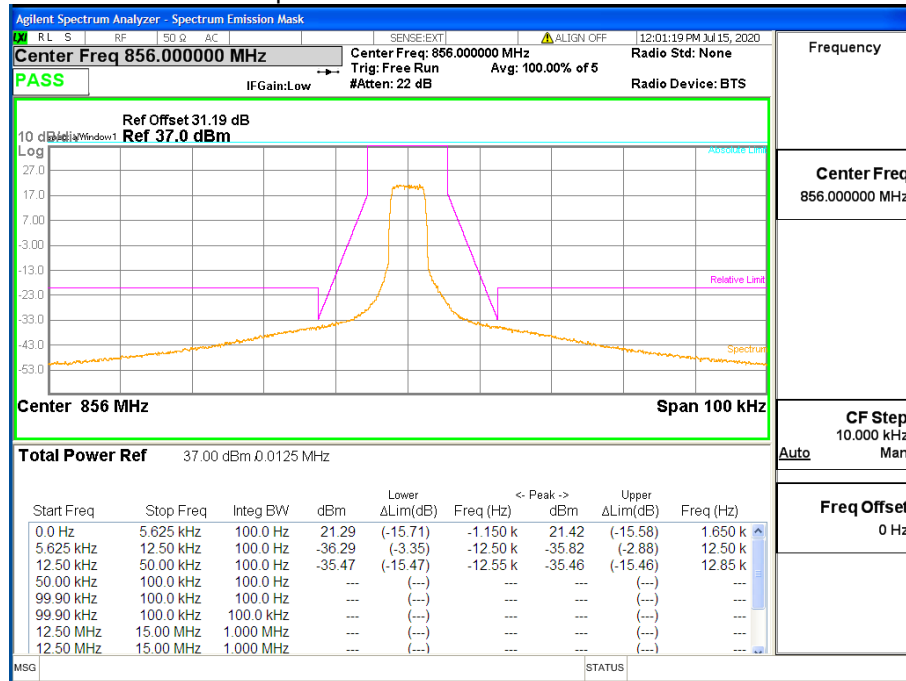
### Output C4FM 856.000 MHz - Mask D



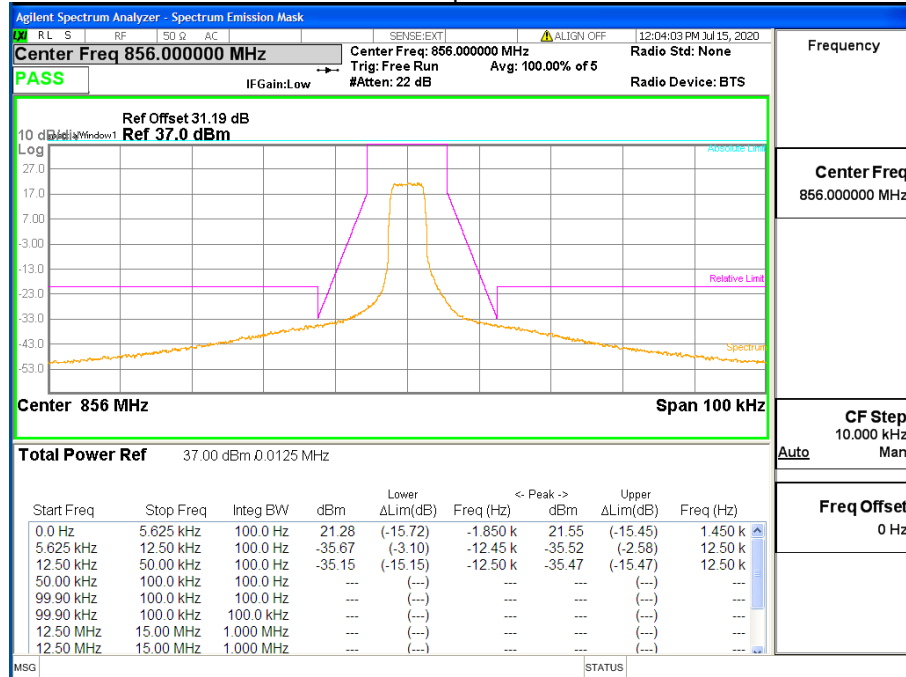
### 3dB above the AGC threshold Output C4FM 856.000 MHz – Mask D



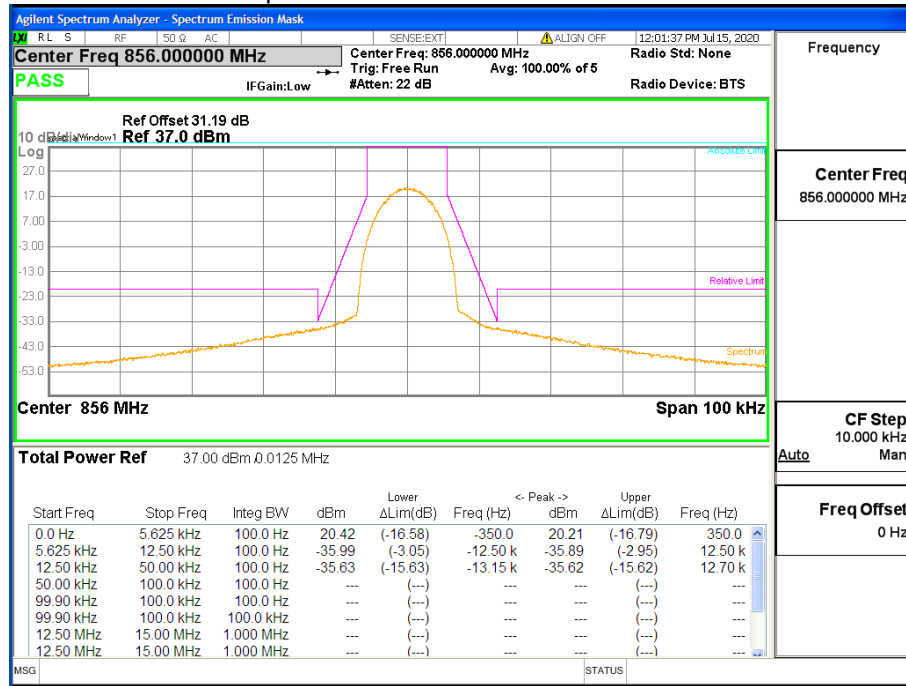
### Output CQPSK 856.000 MHz - Mask D



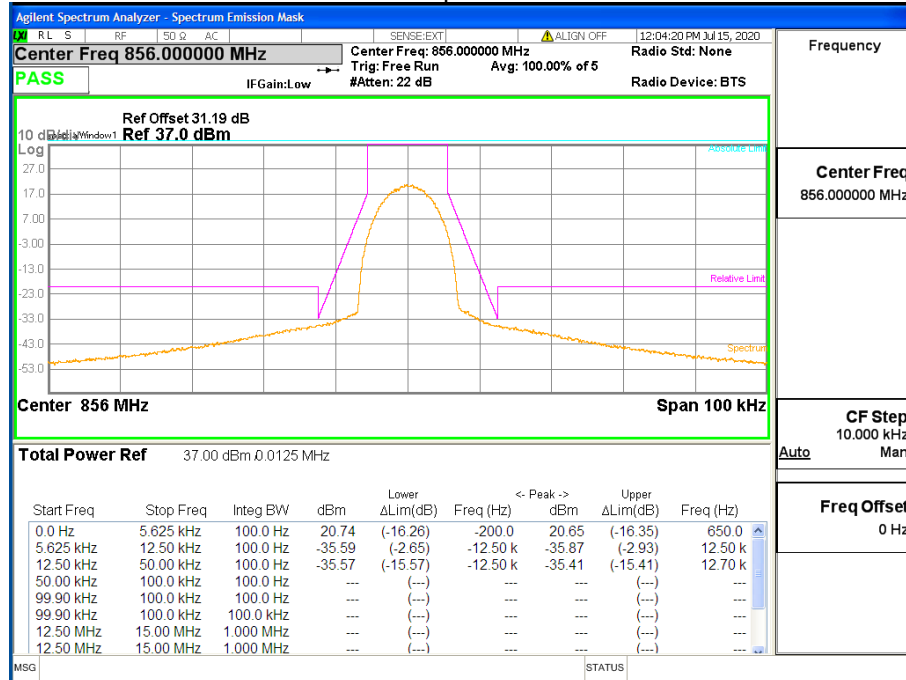
### 3dB above the AGC threshold Output CQPSK 856.000 MHz – Mask D



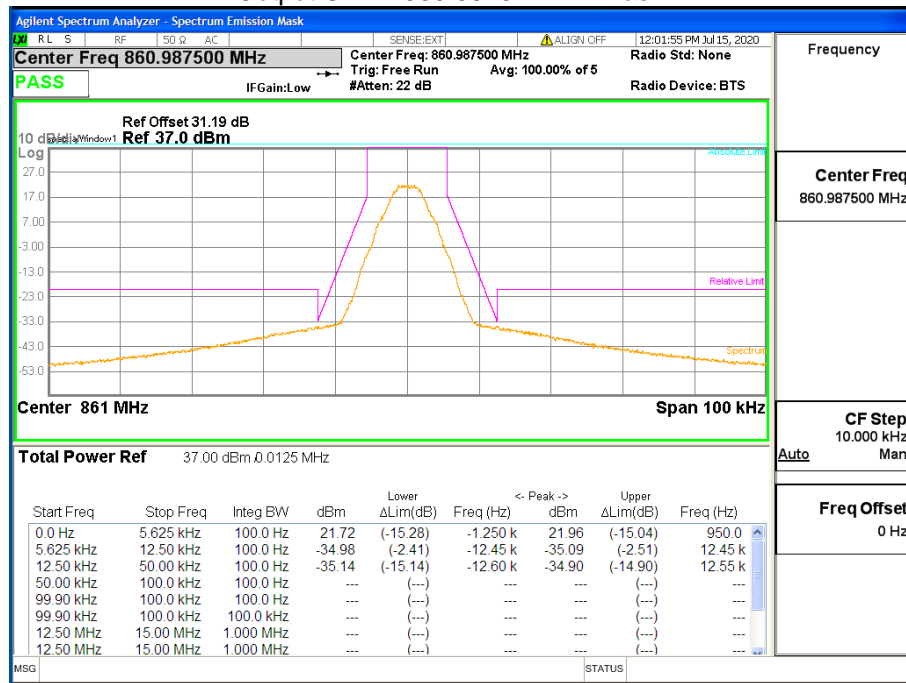
### Output HDQPSK 856.000 MHz - Mask D



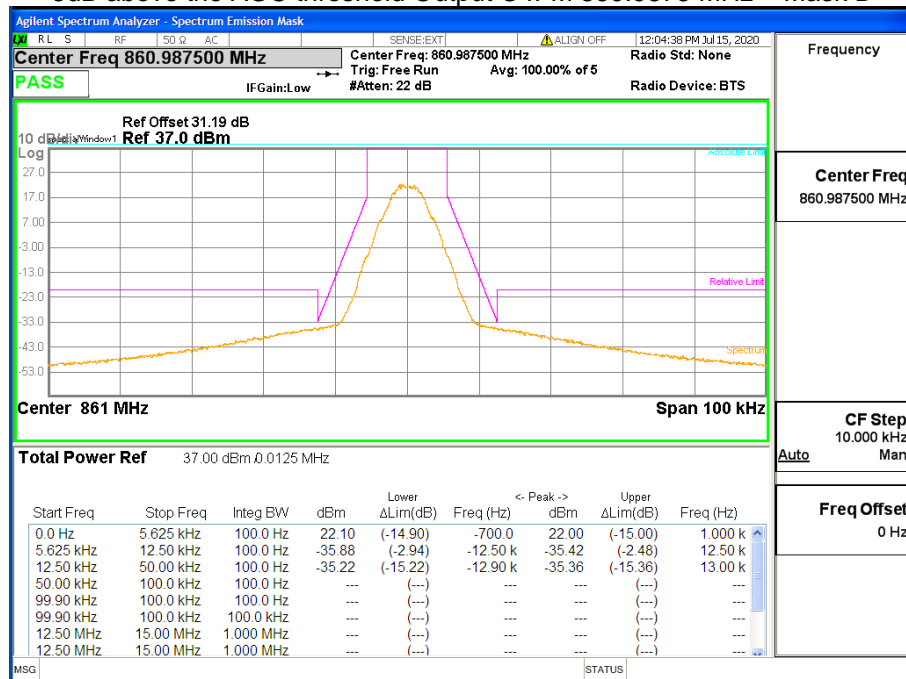
### 3dB above the AGC threshold Output HDQPSK 856.000 MHz – Mask D



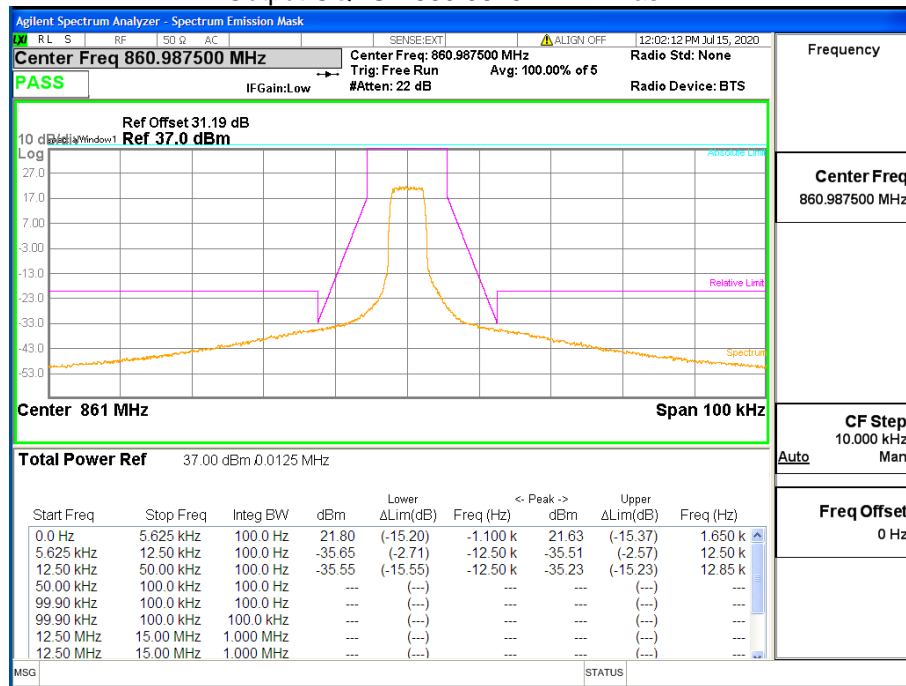
### Output C4FM 860.9875 MHz - Mask D



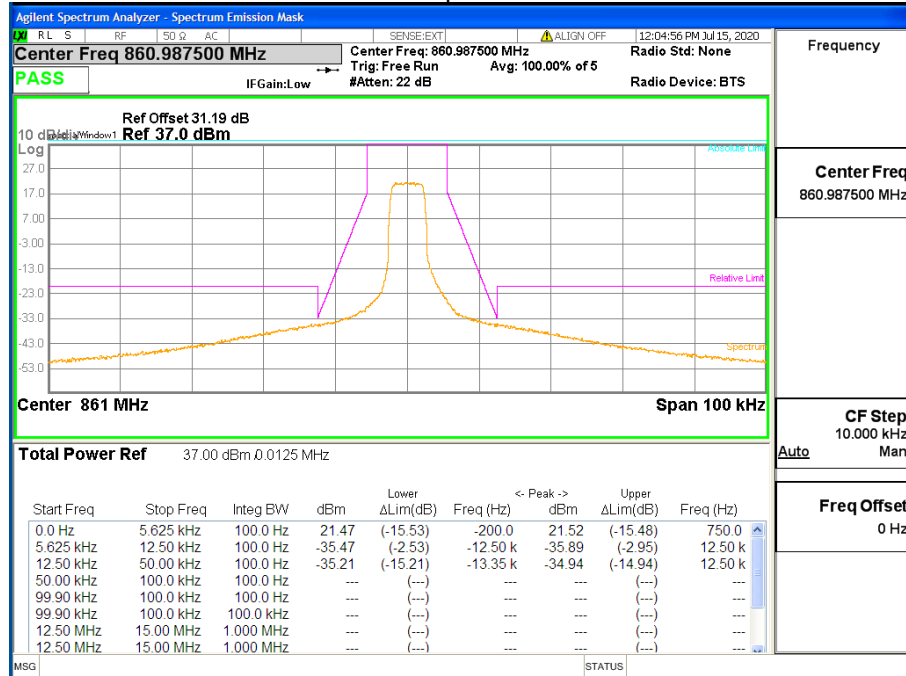
### 3dB above the AGC threshold Output C4FM 860.9875 MHz – Mask D



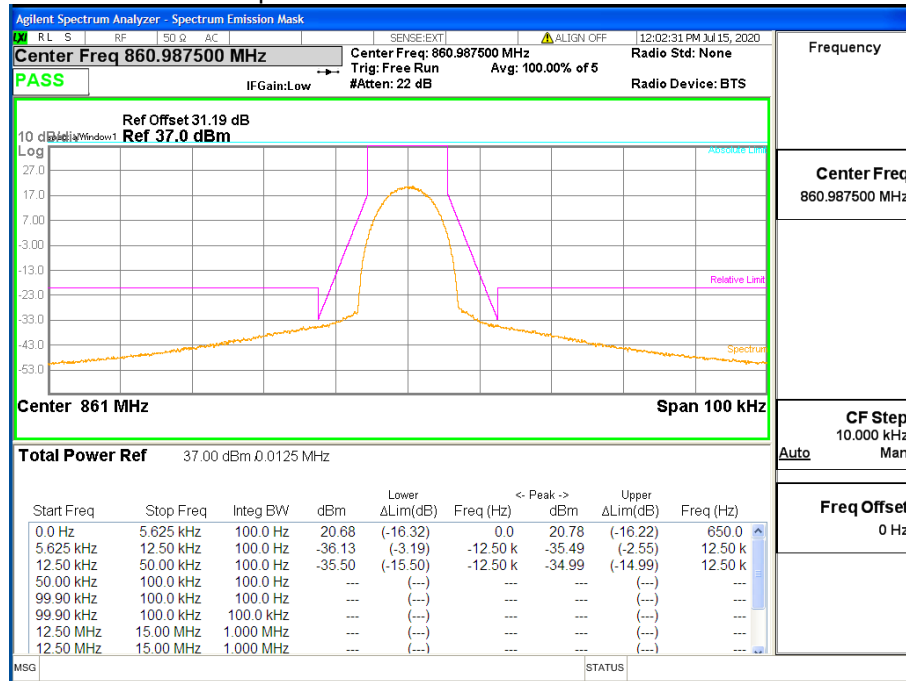
### Output CQPSK 860.9875 MHz - Mask D



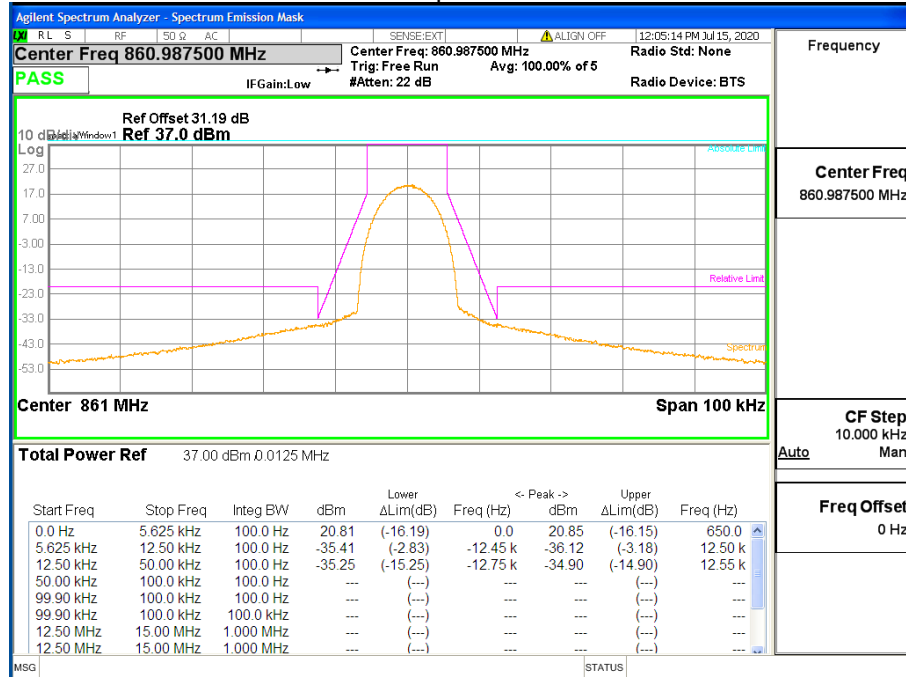
### 3dB above the AGC threshold Output CQPSK 860.9875 MHz – Mask D



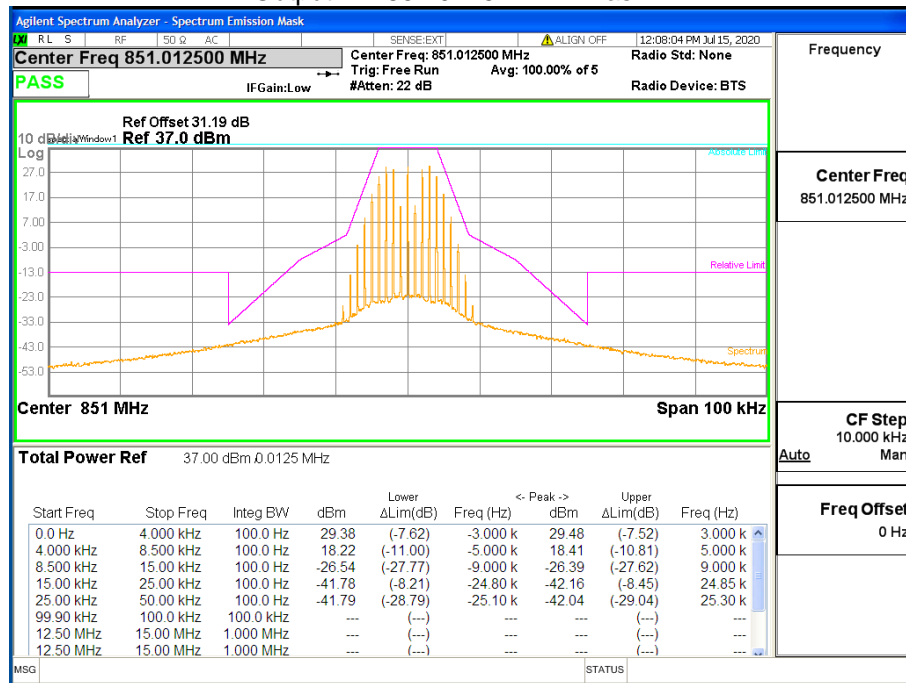
### Output HDQPSK 860.9875 MHz - Mask D



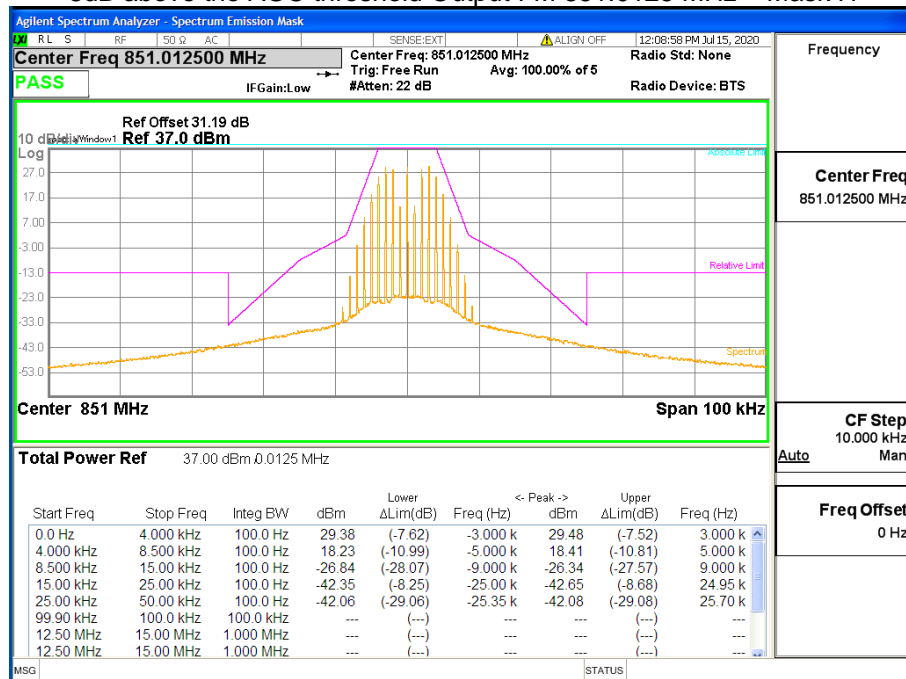
### 3dB above the AGC threshold Output HDQPSK 860.9875 MHz – Mask D



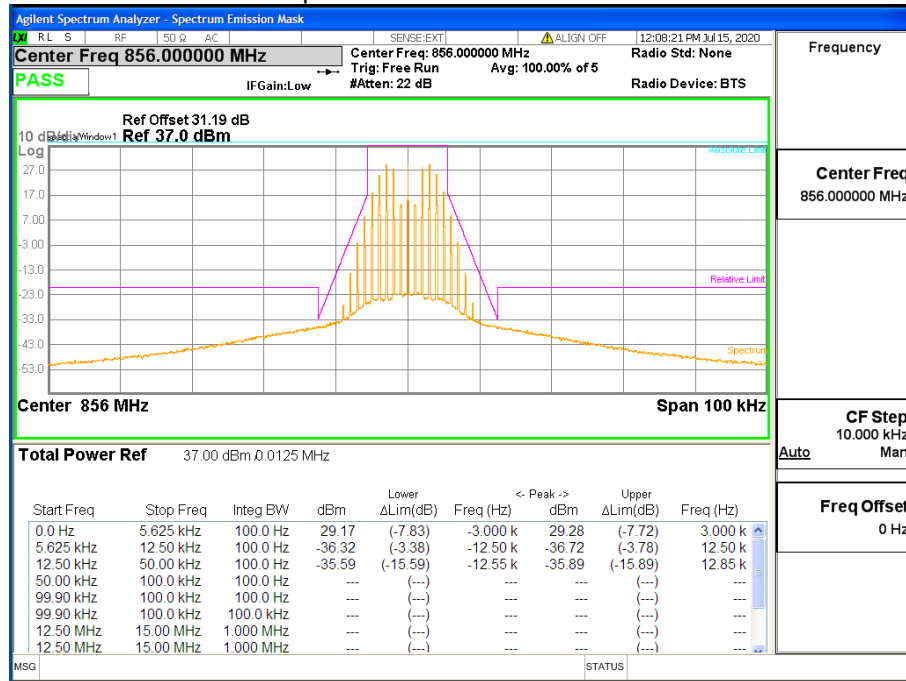
### Output FM 851.0125 MHz - Mask H



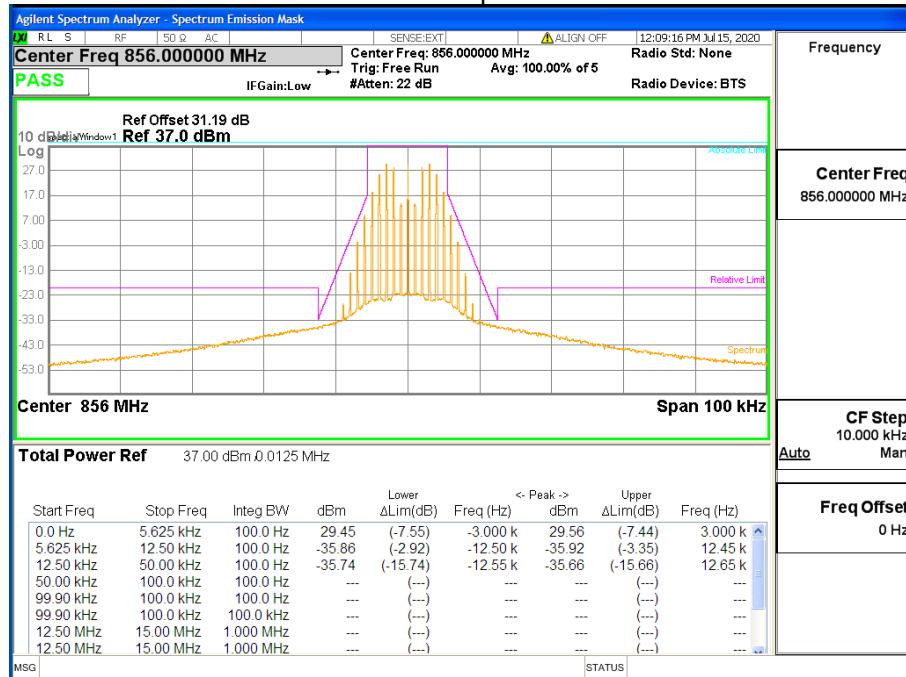
### 3dB above the AGC threshold Output FM 851.0125 MHz – Mask H



### Output FM 856.000 MHz - Mask D

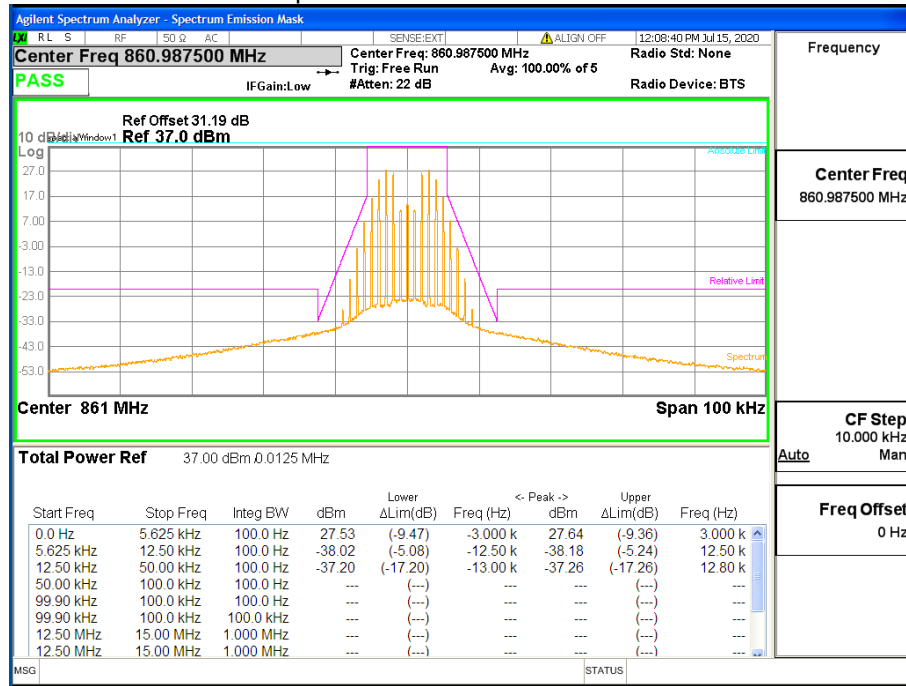


### 3dB above the AGC threshold Output FM 856.000 MHz – Mask D

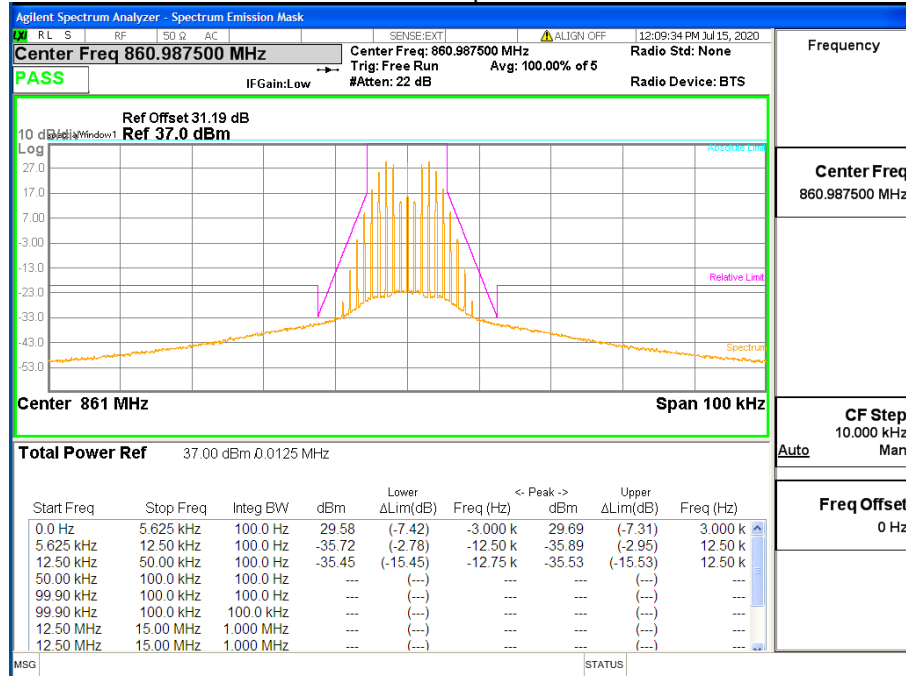




### Output FM 860.9875 MHz - Mask D

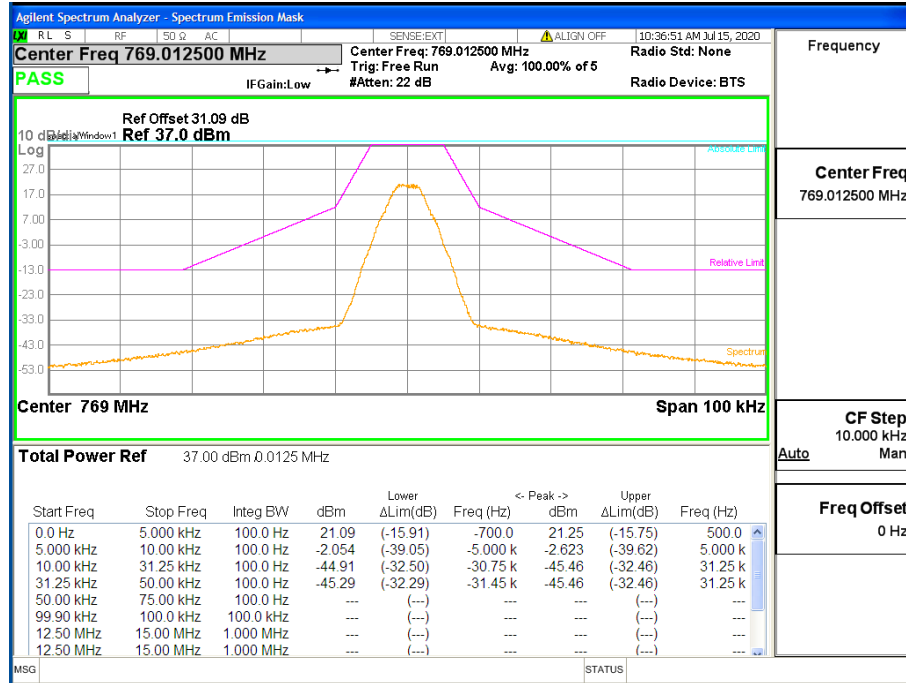


### 3dB above the AGC threshold Output FM 860.9875 MHz – Mask D



\*\*\*\*\* 700PS \*\*\*\*\*

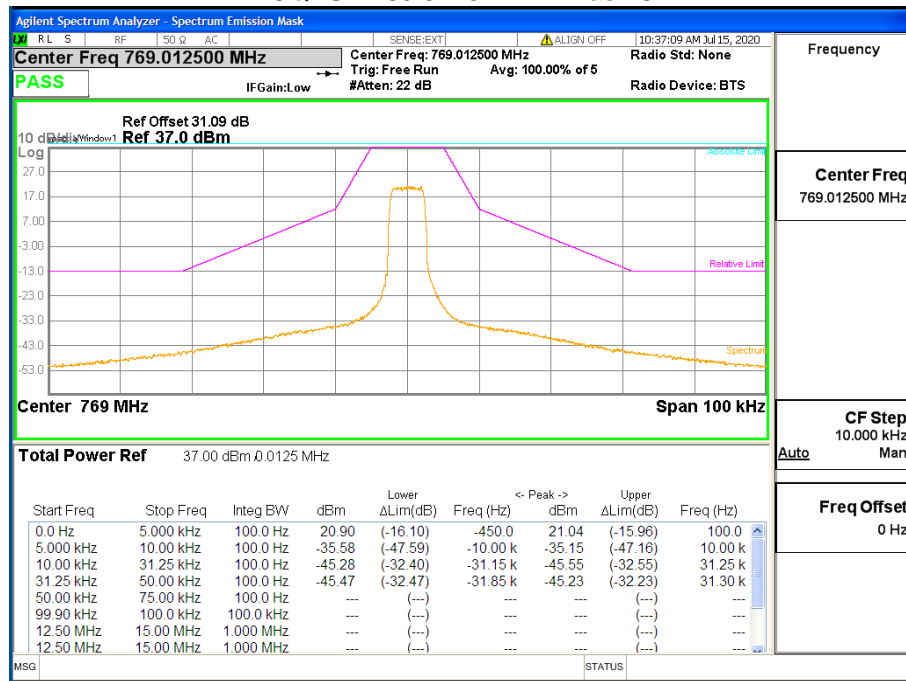
C4FM 769.0125MHz – Mask C



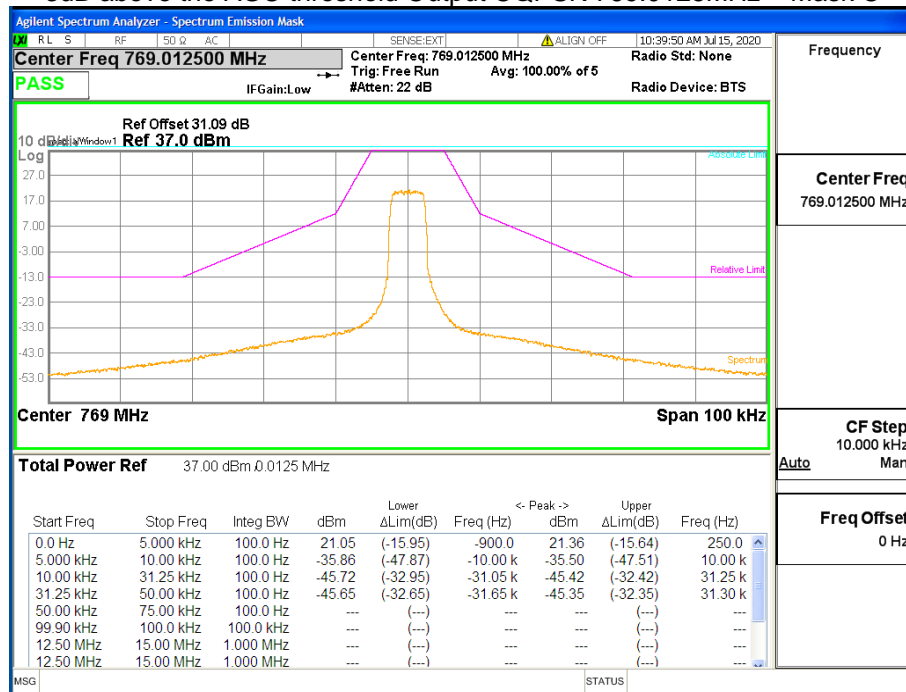
3dB above the AGC threshold Output C4FM 769.0125MHz – Mask C



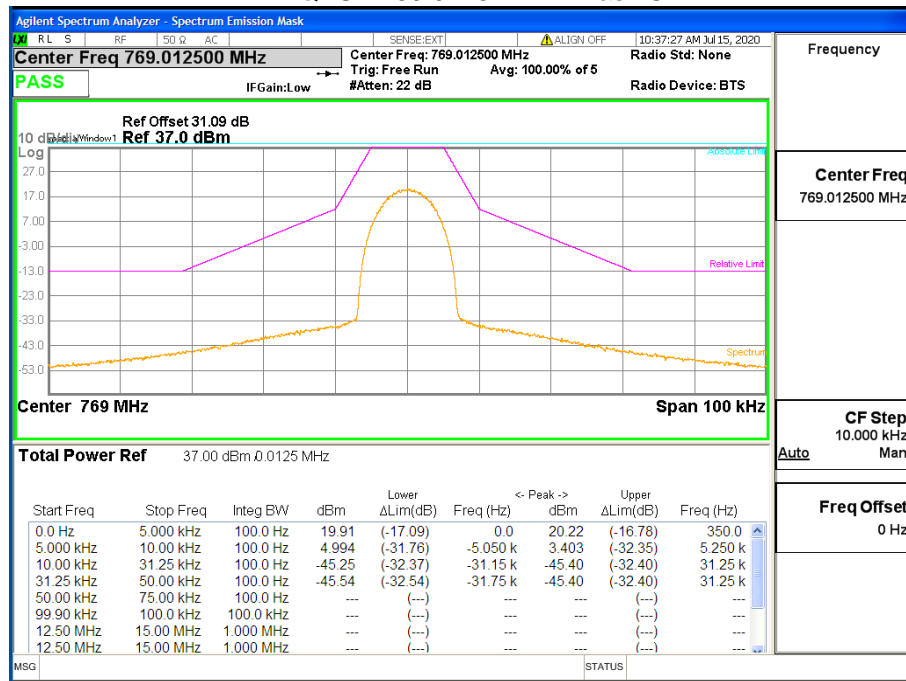
### CQPSK 769.0125MHz – Mask C



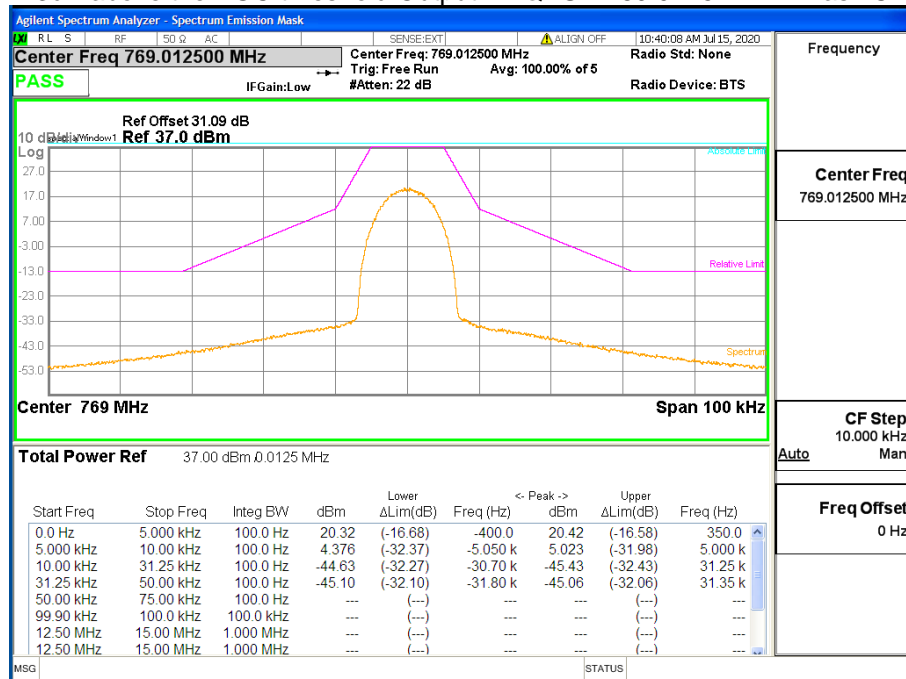
### 3dB above the AGC threshold Output CQPSK 769.0125MHz – Mask C



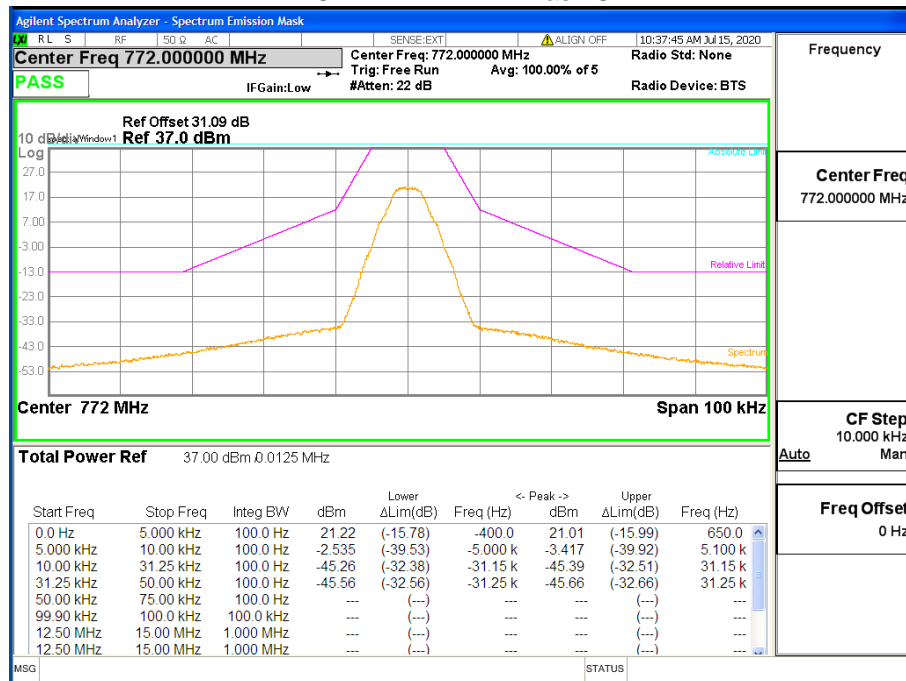
### HDQPSK 769.0125MHz – Mask C



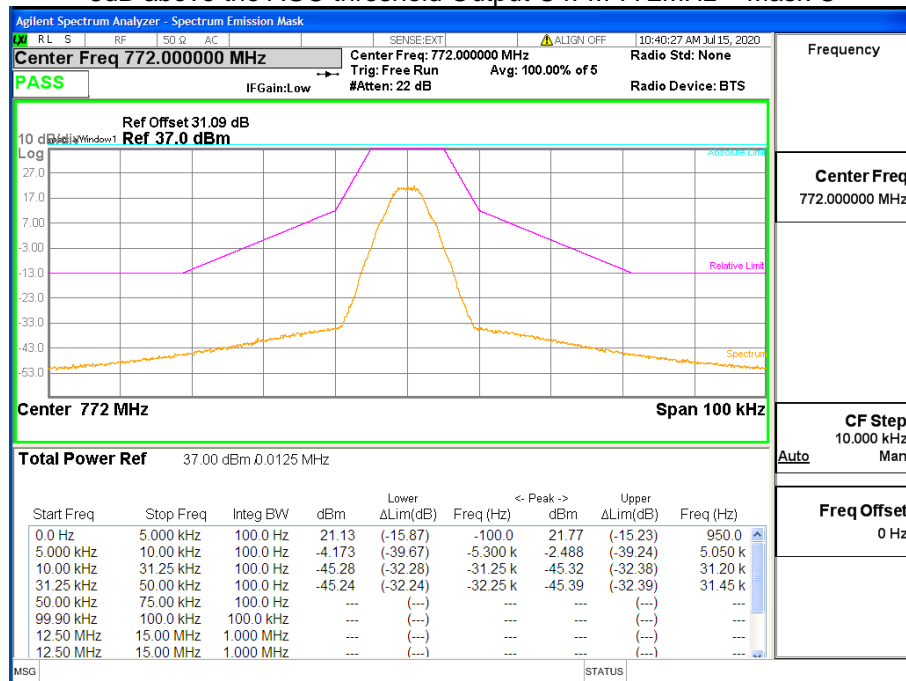
### 3dB above the AGC threshold Output HDQPSK 769.0125MHz – Mask C



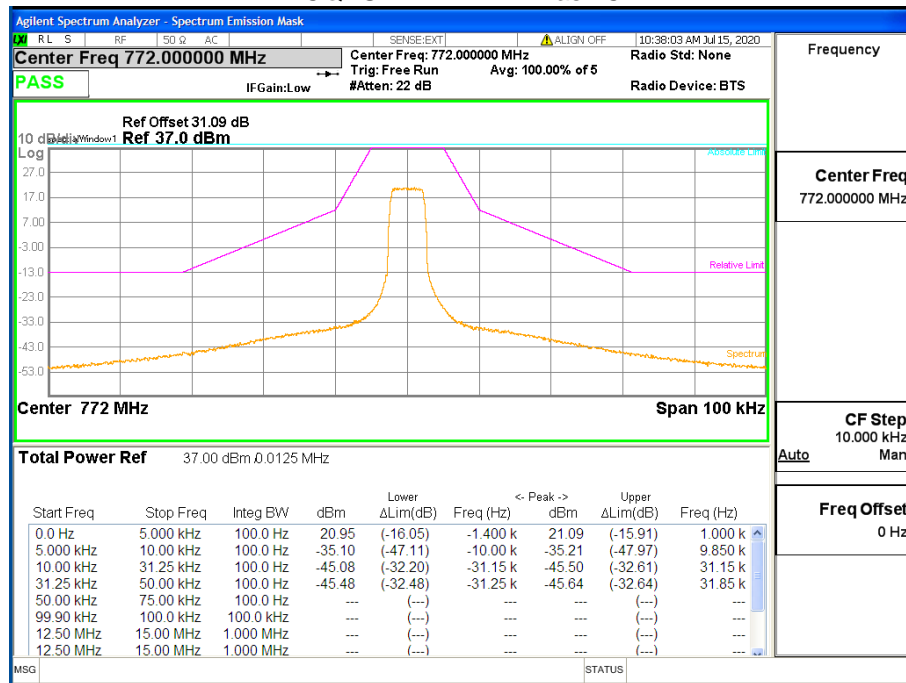
### C4FM 772MHz – Mask C



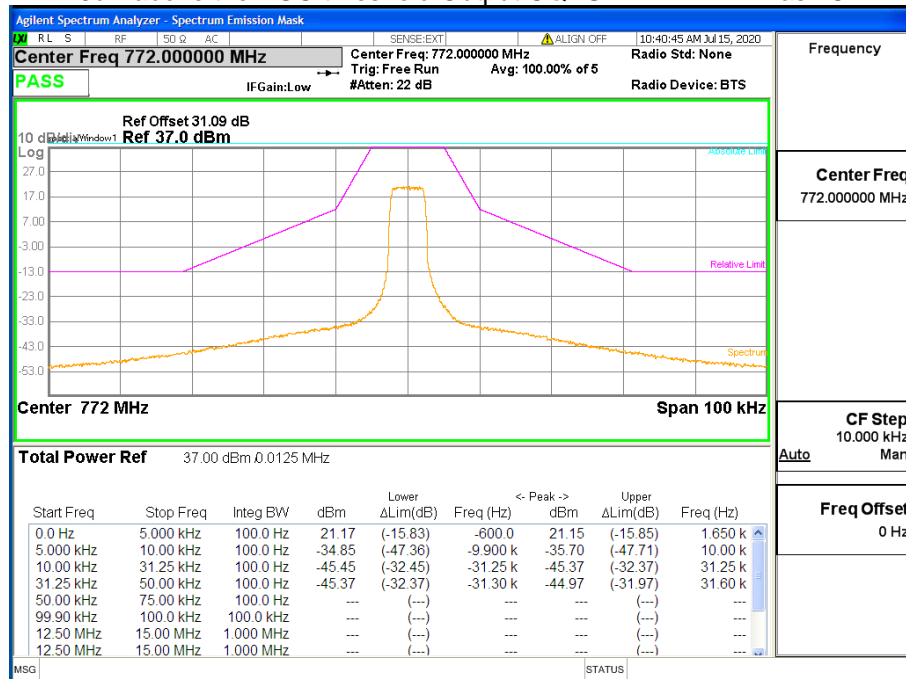
### 3dB above the AGC threshold Output C4FM 772MHz – Mask C



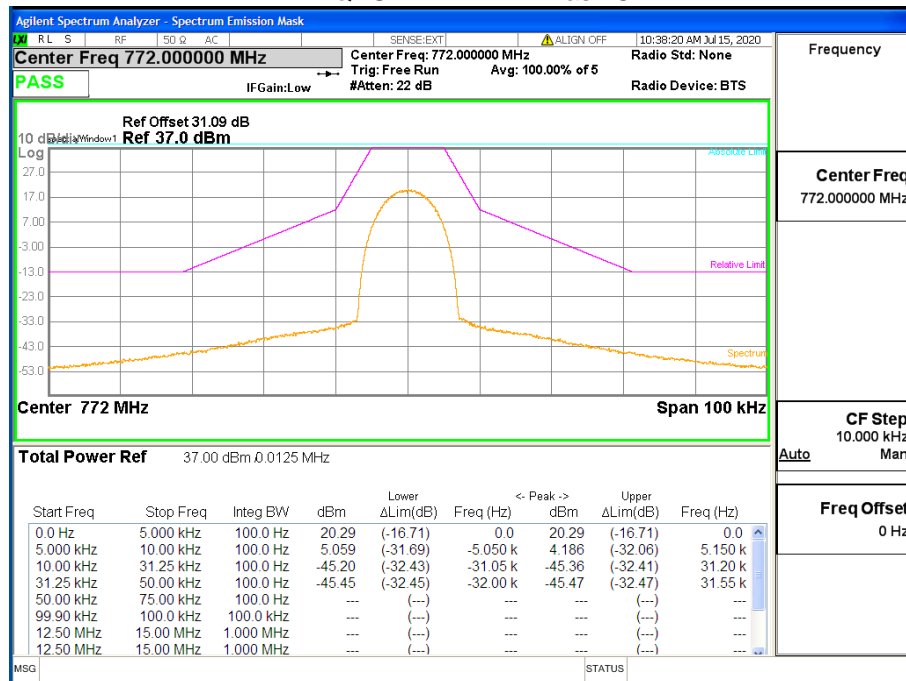
### CQPSK 772MHz – Mask C



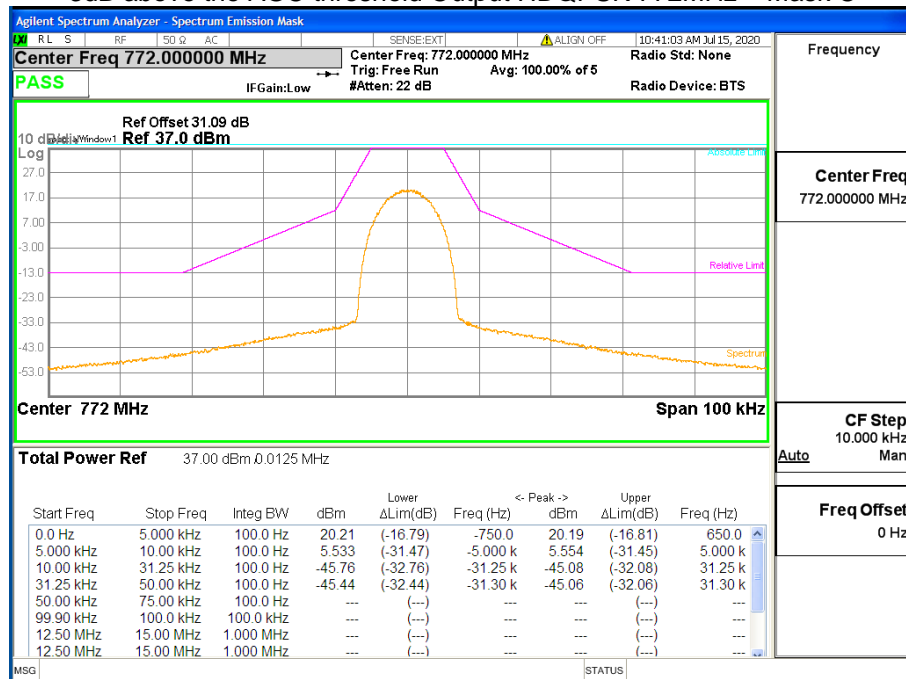
### 3dB above the AGC threshold Output CQPSK 772MHz – Mask C



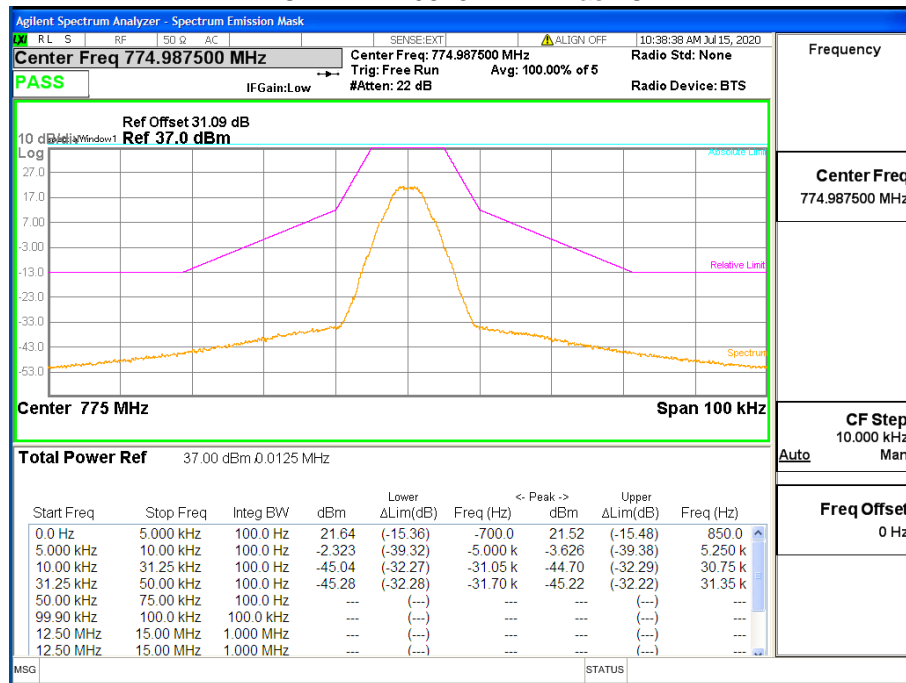
### HDQPSK 772MHz – Mask C



### 3dB above the AGC threshold Output HDQPSK 772MHz – Mask C



### C4FM 777.9875MHz – Mask C

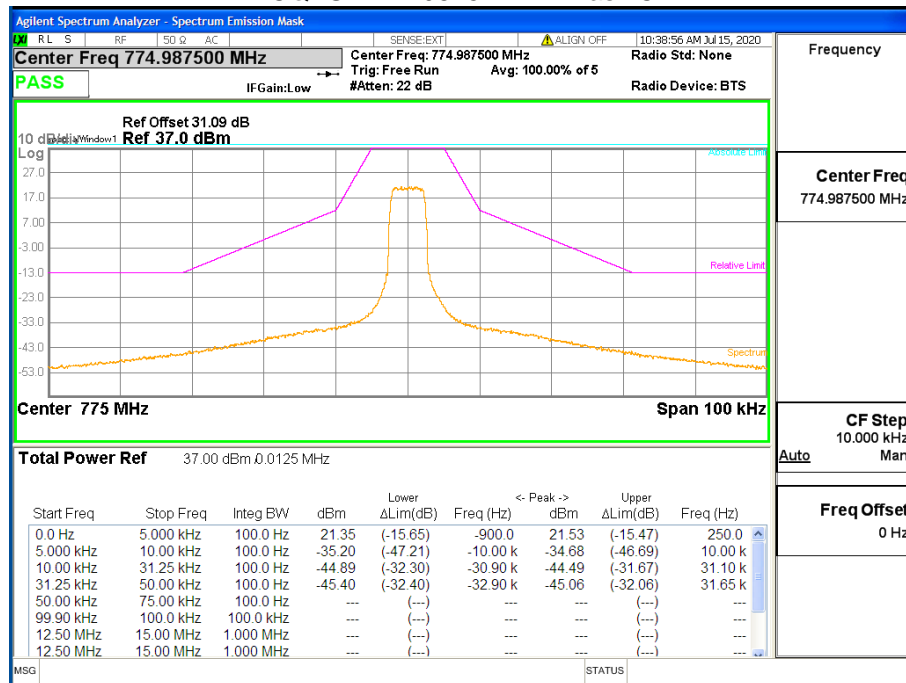


### 3dB above the AGC threshold Output C4FM 777.9875MHz – Mask C

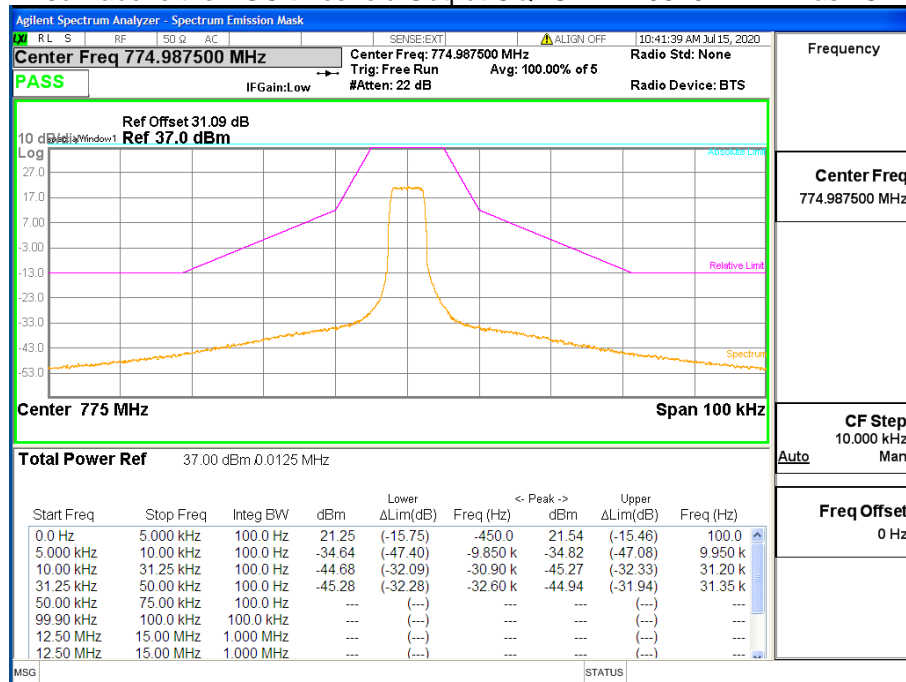




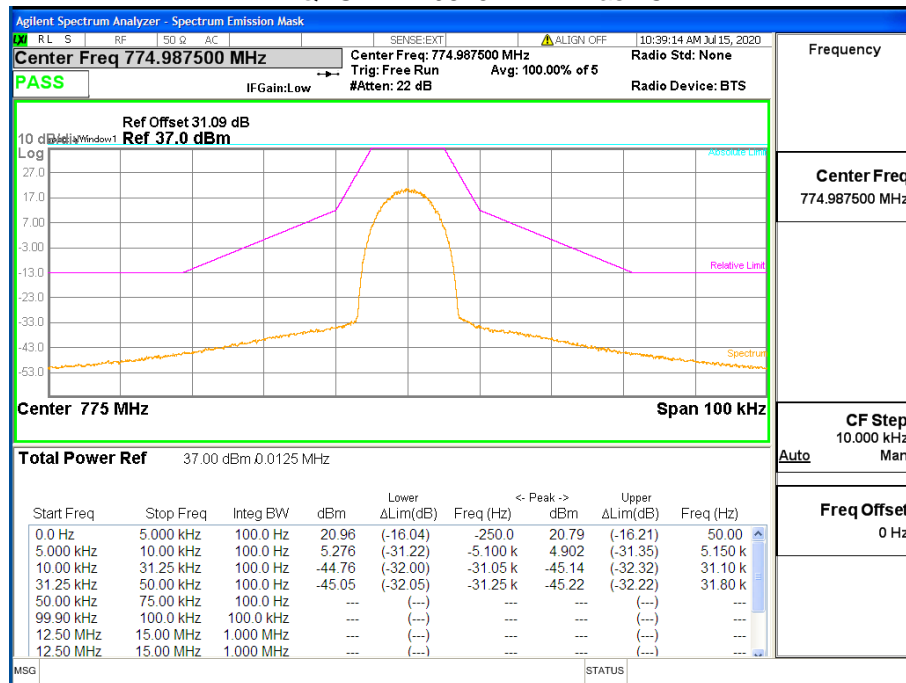
### CQPSK 777.9875MHz – Mask C



### 3dB above the AGC threshold Output CQPSK 777.9875MHz – Mask C



### HDQPSK 777.9875MHz – Mask C



### 3dB above the AGC threshold Output HDQPSK 777.9875MHz – Mask C



### Input/output Power and Amplifier/Booster Gain

Governing Doc	FCC Part 90.219	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r04	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Identifier	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	06/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/23/21
Span:	<input checked="" type="checkbox"/> Max Gain Frequency ± 1500kHz				
Detector:	<input checked="" type="checkbox"/> Peak				
RBW/VBW:	<input checked="" type="checkbox"/> 100k Hz/ 300 kHz				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
Maximum booster gain is 92.6 dB.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

**Description of test set-up:**

The procedure used was ANSI/TIA-603-E-2016 and FCC KDB 935210 D05 Indus Booster Basic Meas v01r04:. A CW tone was input at the frequency where the system gain is the maximum in the pass band, with the nominal input power level -55.2 dBm. The spectrum analyzer was connected to the output RF port via a 50 Ohm 30 dB attenuator. The maximum hold trace and peak detector was used to capture the output power. The output power minus the input power (-55.2 dBm) equals to the booster gain in dB.

The EUT was set to **Operation Mode #1 with configuration Mode #1.**

```

    graph LR
      A[Vector Signal Generator] --> B[hdHost]
      B --> C(( ))
      C --> D[EUT]
      D --> E[30 dB Attenuator]
      E --> F[Spectrum Analyzer]
    
```

**Results**

Test Band	Frequency (MHz)	Input Power (dBm)	Output Power (dBm)	Gain (dB)
900PS	937.5	-54.7	37.2	91.6
800PS	856	-55.2	37.4	92.6
700PS	772	-53.4	37.1	90.5

### Noise Figure

Governing Doc	FCC Part 90.219	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r04	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> DC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/23/21
Frequency Range:	<input checked="" type="checkbox"/> 2 times of the passband on each band				
Detector:	<input checked="" type="checkbox"/> Average				
RBW:	<input checked="" type="checkbox"/> 910 kHz				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
Noise Figure on each band is less than the 9 dB required.					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

**Description of test set-up:**

Based on FCC KDB 935210 D05 Indus Booster Basic Meas v01r04: 2020, the system maximum gain and the noise density is measured. Measurements were performed within the EUT's passband. The noise figure is then calculated by  $NF = NP - Gain + KTB \text{ Noise}$ ; where NP is in band noise power per Herz, Gain is measured at the maximum noise frequency with -60 dBm input signal in UL. KTB Noise is 174dB/Hz at room temperature. The EUT was set to **Operation Mode #1 with configuration Mode #1.**

```

    graph LR
        SA[Spectrum Analyzer] --- hdHost[hdHost]
        hdHost --- EUT[EUT]
        EUT --- Terminator[50 Ω Terminator]
    
```

**Results**

Test Band	Link	Gain (dB)	kTB (dBm/Hz)	Measured Value (dBm/Hz)	Noise Figure (dB)
900PS	DownLink	91.8	-174	-75.42	6.78
800PS	DownLink	92.5	-174	-73.25	8.25
700PS	DownLink	90.6	-174	-75.42	7.98

### Out-Of-Band / Out-Of-Block Intermodulation and Spurious Emissions

Governing Doc	FCC Part 90.219	Room Temperature (°C)	23.6		
Test Procedure	ANSI/TIA-603- E; FCC KDB 935210 D05, v01r04	Relative Humidity (%)	39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1		
Test Engineer	Jeremy Lee	Date	15 July 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Serial Number	Calibration date	Calibration due
Signal Generator	Keysight	N5172B	MY53050270	06/12/19	06/12/21
Spectrum Analyzer	Keysight	N9010A	MY50520285	07/29/19	07/29/21
Frequency Range:	<input checked="" type="checkbox"/> Max Gain Frequency ± 50kHz				
Detector:	<input checked="" type="checkbox"/> Average				
RBW/VBW:	<input checked="" type="checkbox"/> 100/910Hz				
Type of Facility:	<input checked="" type="checkbox"/> Tabletop				
Distance:	<input checked="" type="checkbox"/> Direct				
On 800 band, 700 band and 150 band: The intermodulation product of 2 tone is below the -13dBm emission limit with input power <ul style="list-style-type: none"> <li>- 0.5dBm below AGC threshold and</li> <li>- 3 dB above AGC threshold</li> </ul>					
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

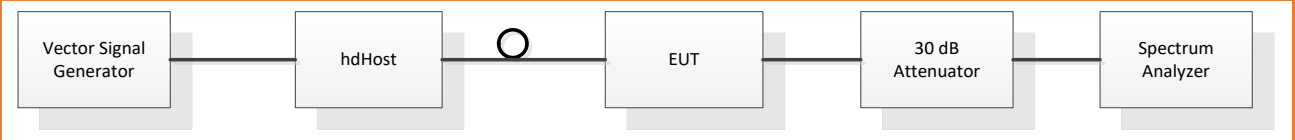
#### Description of test set-up:

The procedure used was ANSI/TIA-603-E-2016. Two tones (CW) method was used. The input power to the amplifier was set at maximum drive level by combining the two tones. The two tones were chosen in such a way (1) the third order intermodulation product frequencies are located within the pass band of the DUT and (2) they produce the worst-case emissions out of band. All signals were modulated.

Based on FCC KDB 935210 D05 Indus Booster Basic Meas v01r04: 2020, the two tone was located on either side of the maximum gain frequency in the passing band, and separated with the available spacing, which is 12.5kHz.

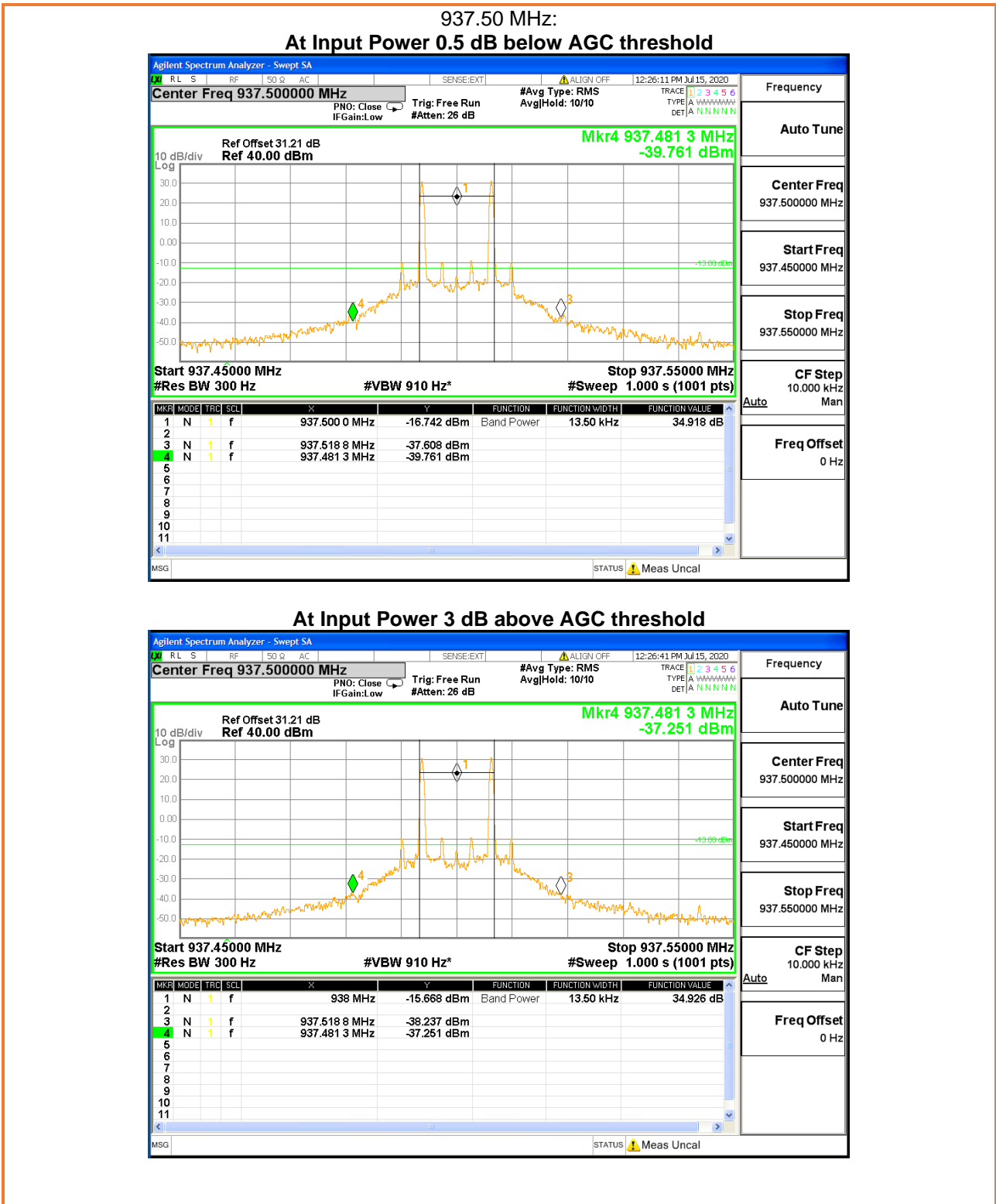
Measurements were performed with modulated -tone at identical input amplitude which produced integrated maximum rated output power.

The EUT was set to **Operation Mode #1 with configuration Mode #1.**

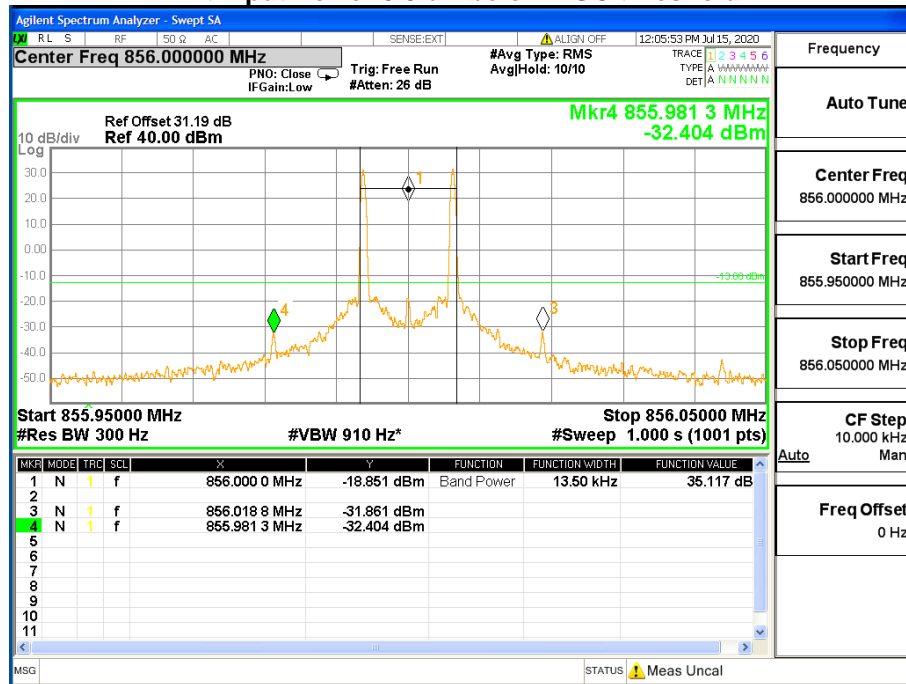




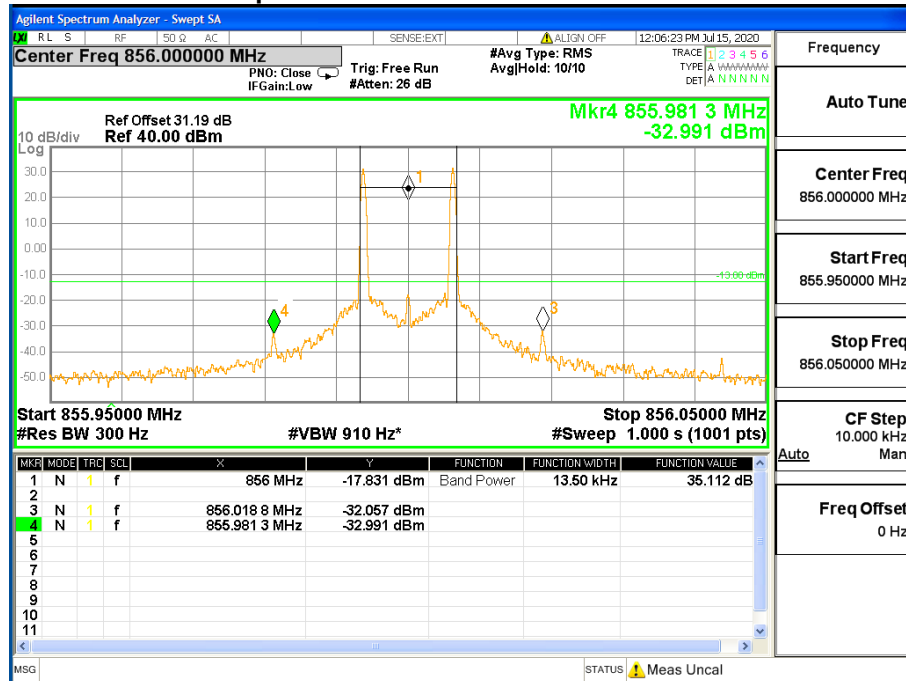
Results Screenshots



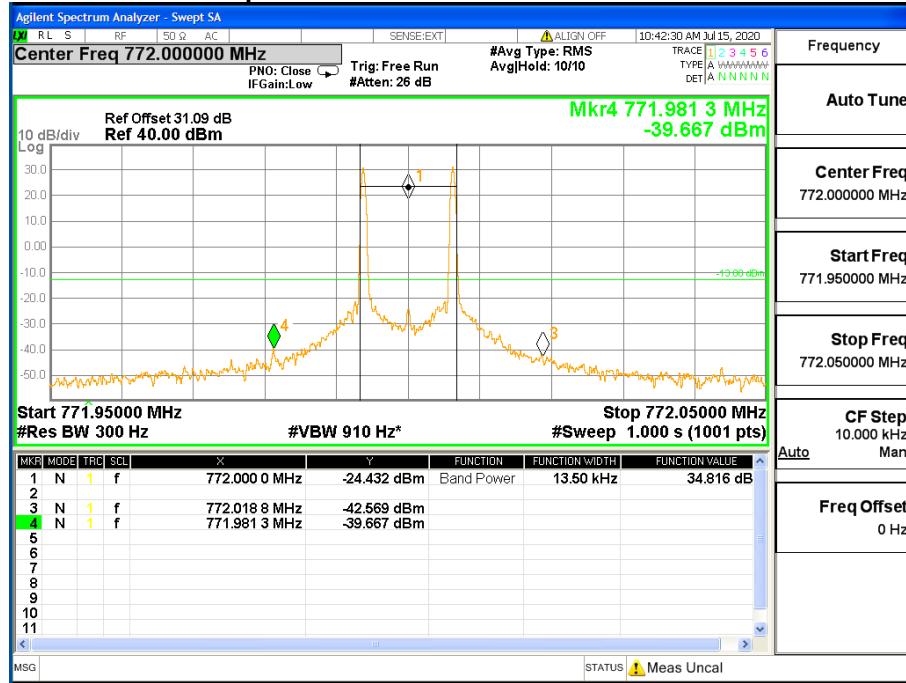
**856.00 MHz:  
 At Input Power 0.5 dB below AGC threshold**



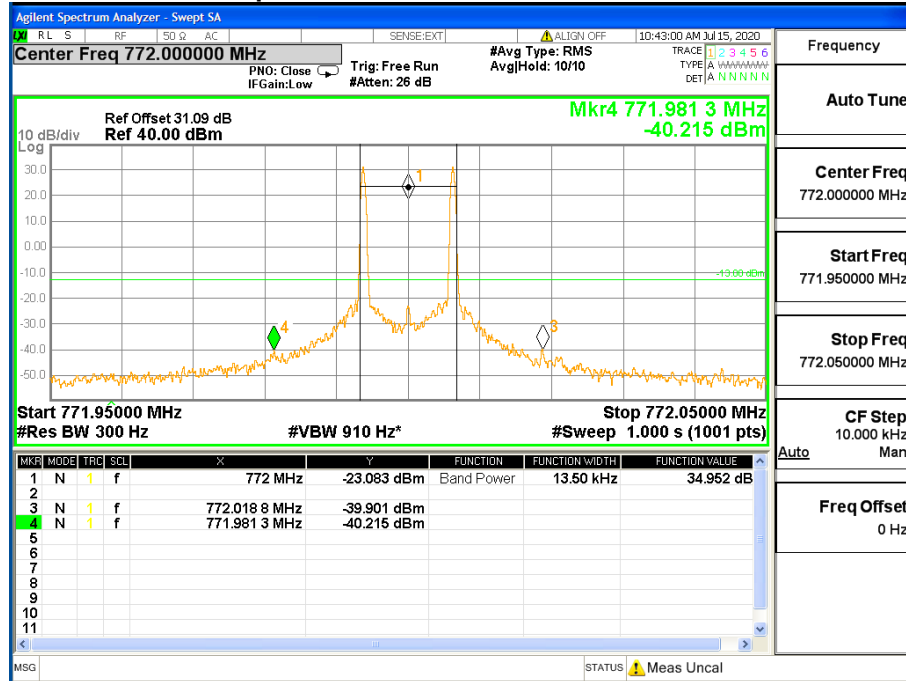
**At Input Power 3 dB above AGC threshold**



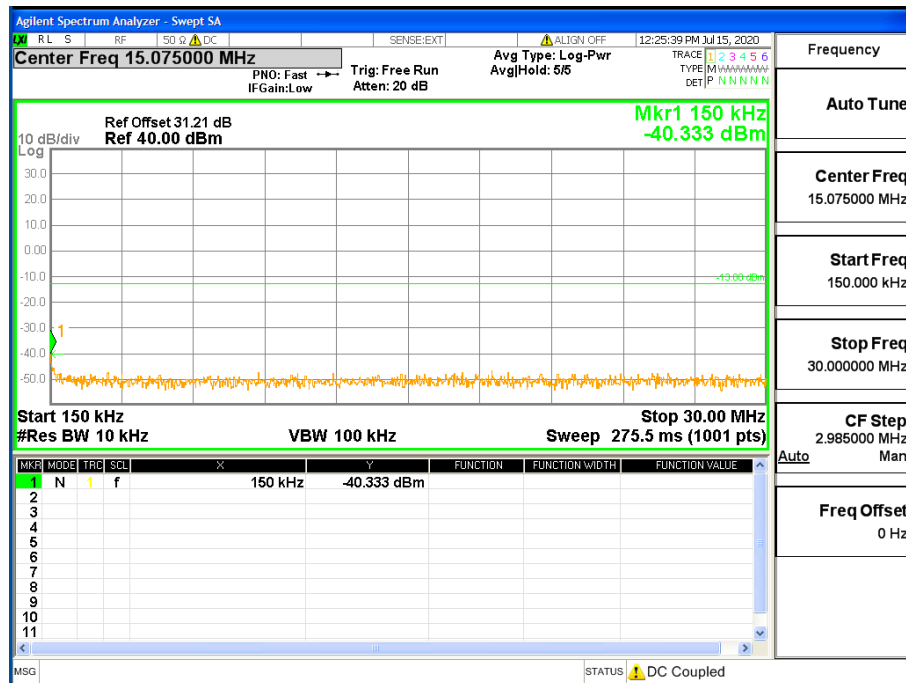
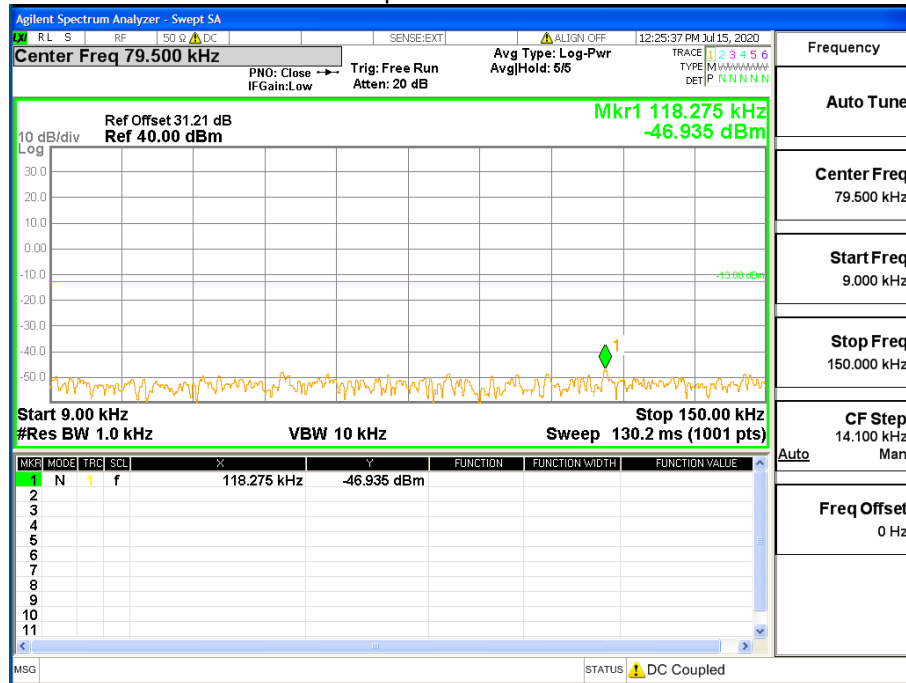
**772.00 MHz:  
 At Input Power 0.5 dB below AGC threshold**

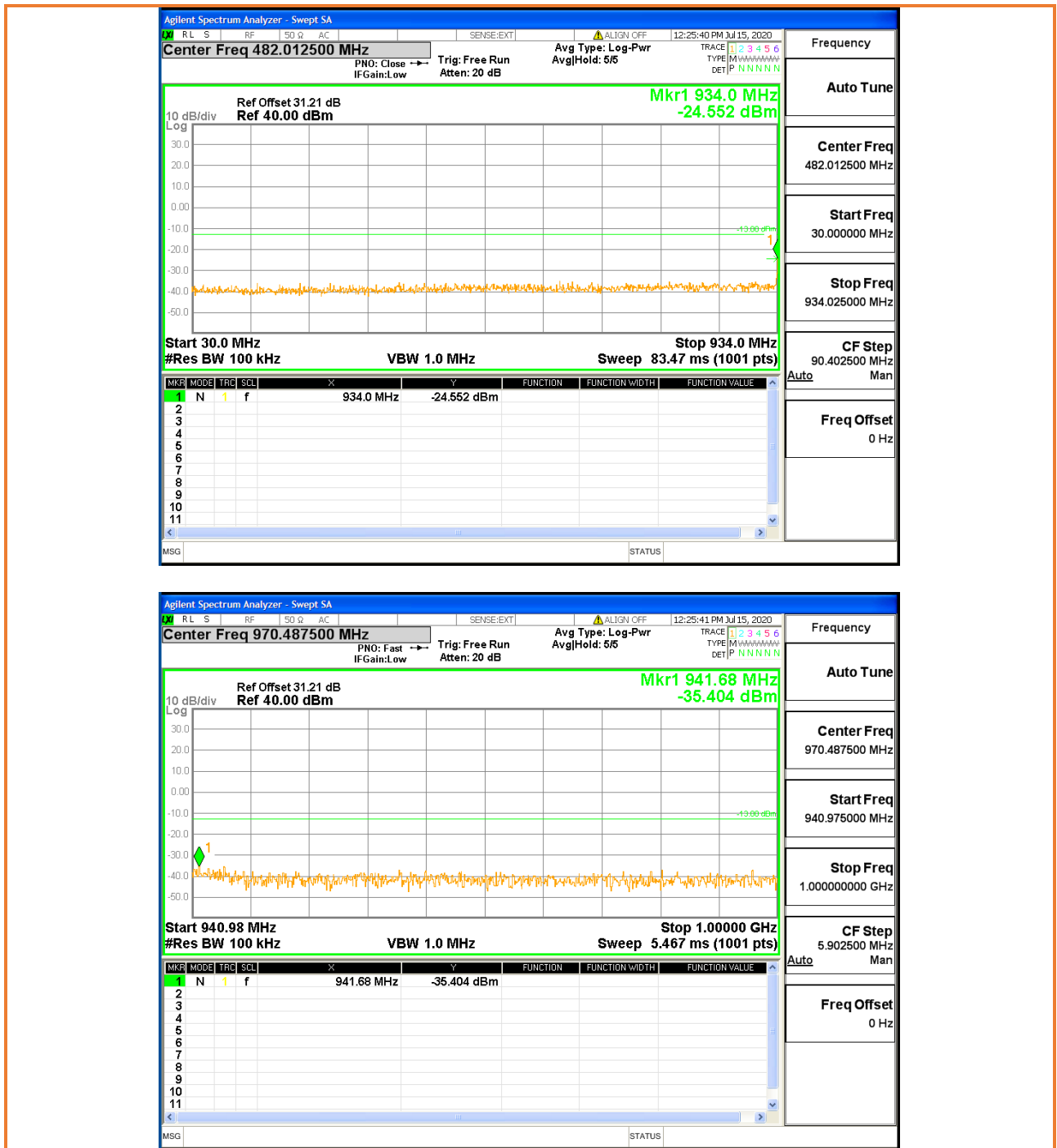


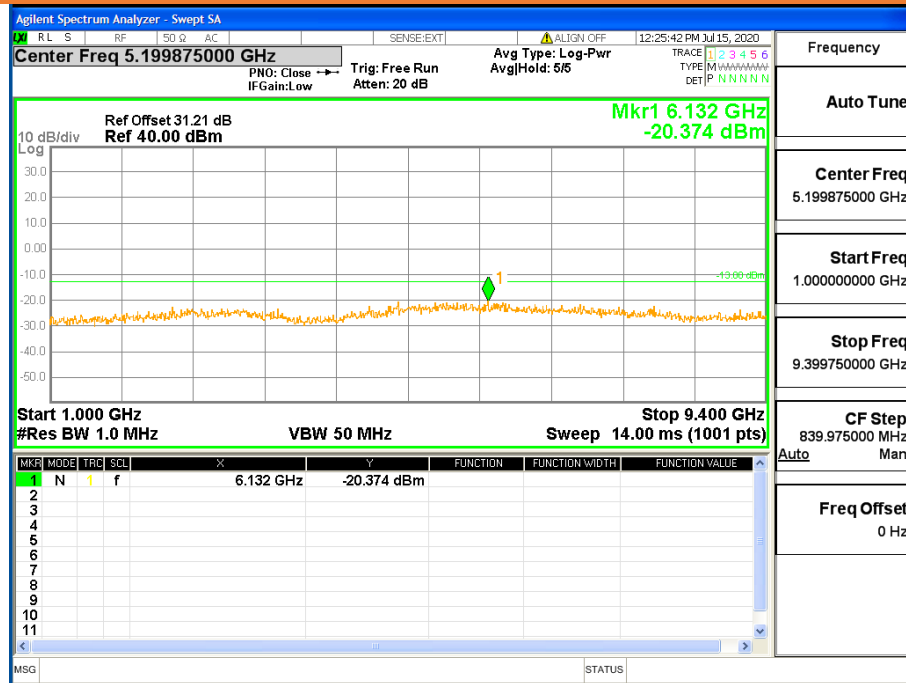
**At Input Power 3 dB above AGC threshold**



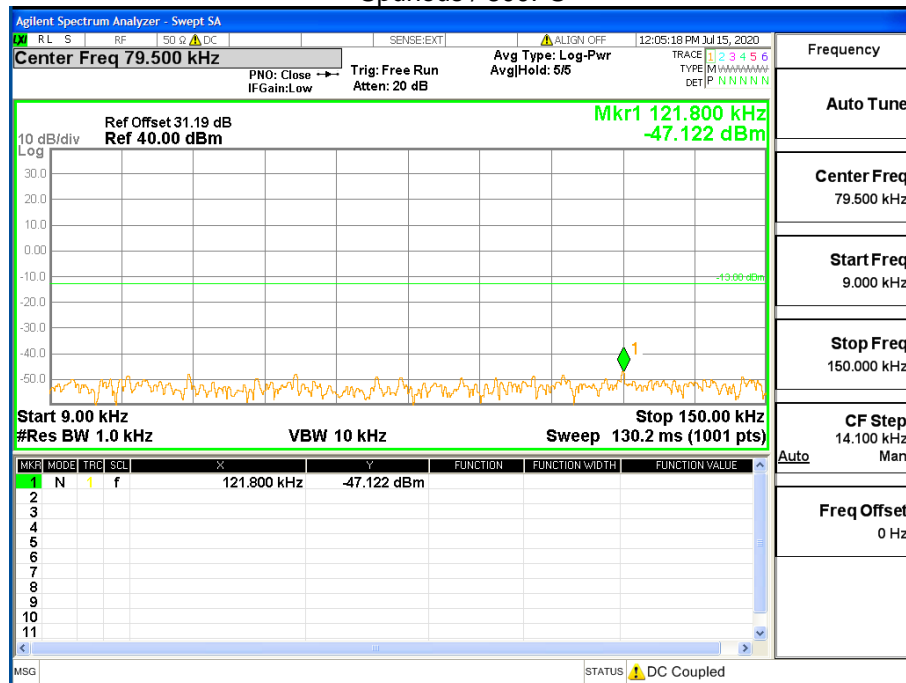
### Spurious 900PS

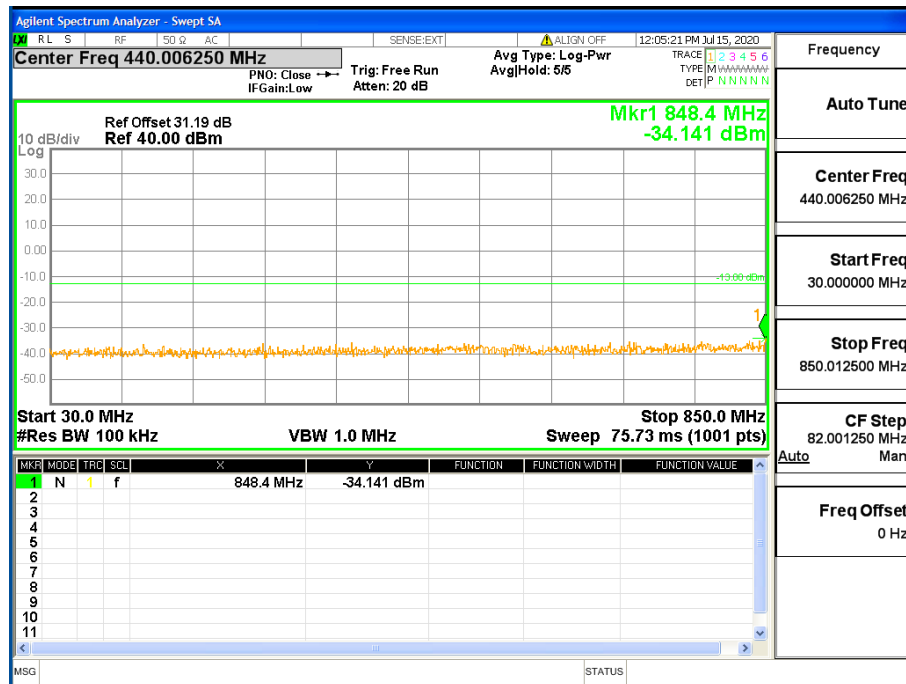
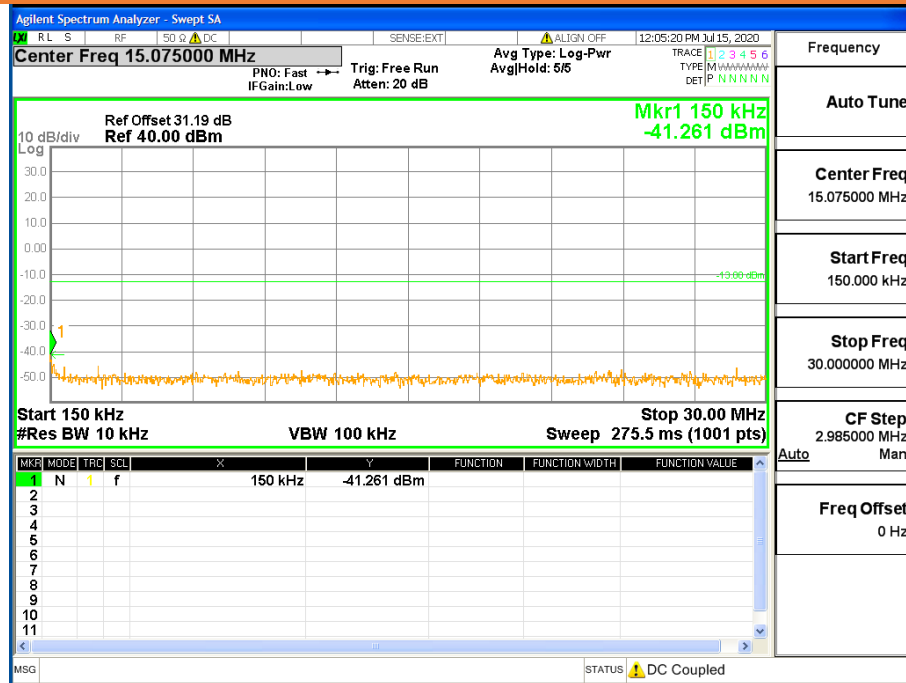


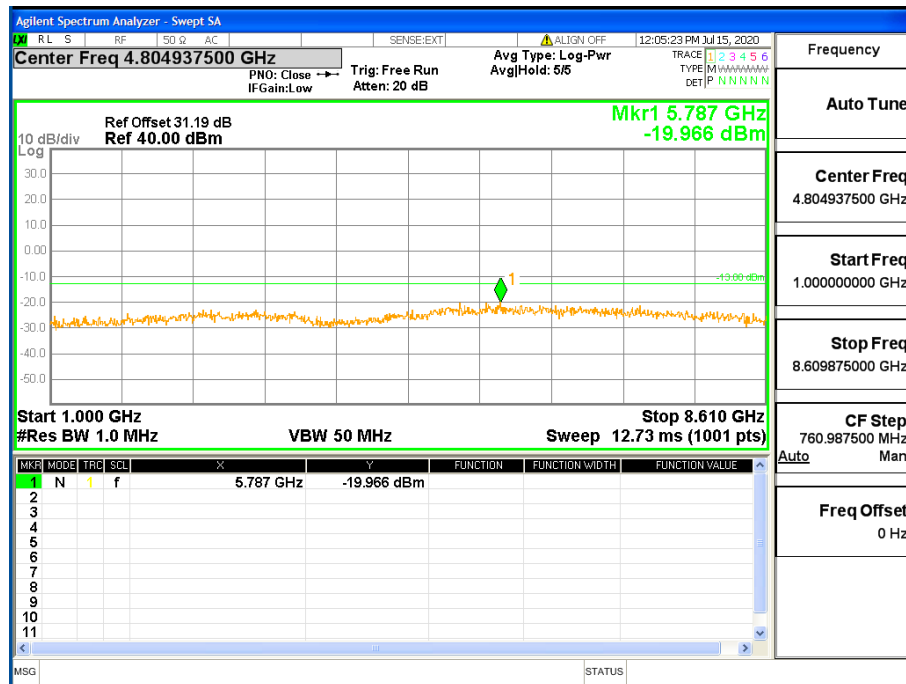
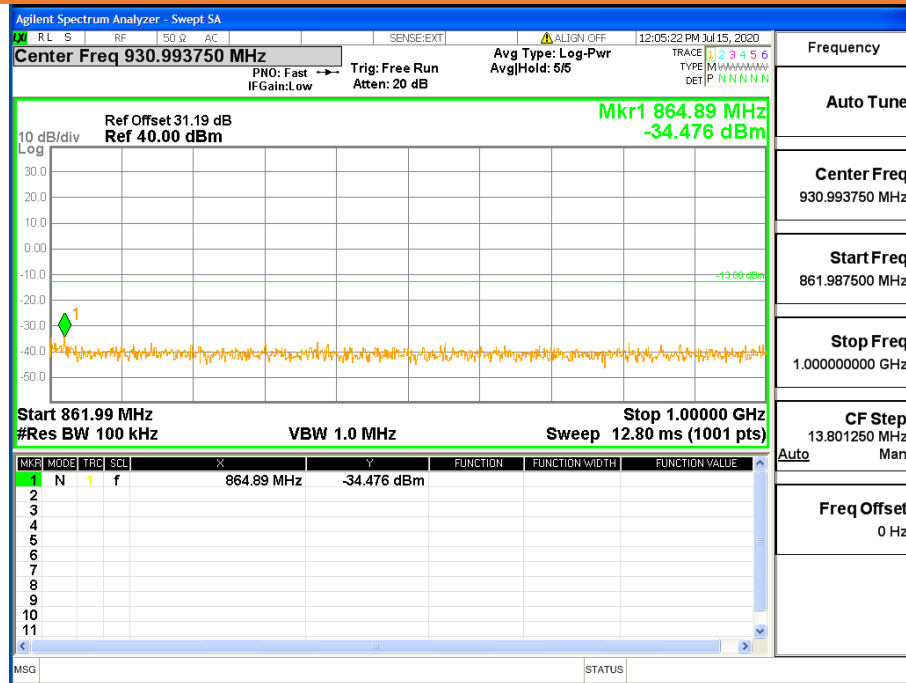




Spurious / 800PS

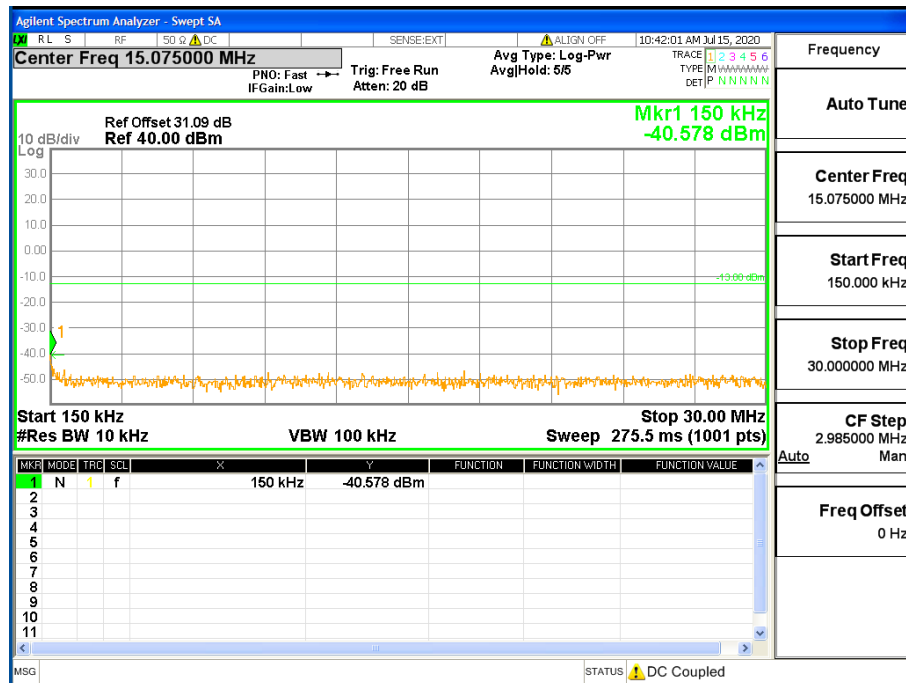
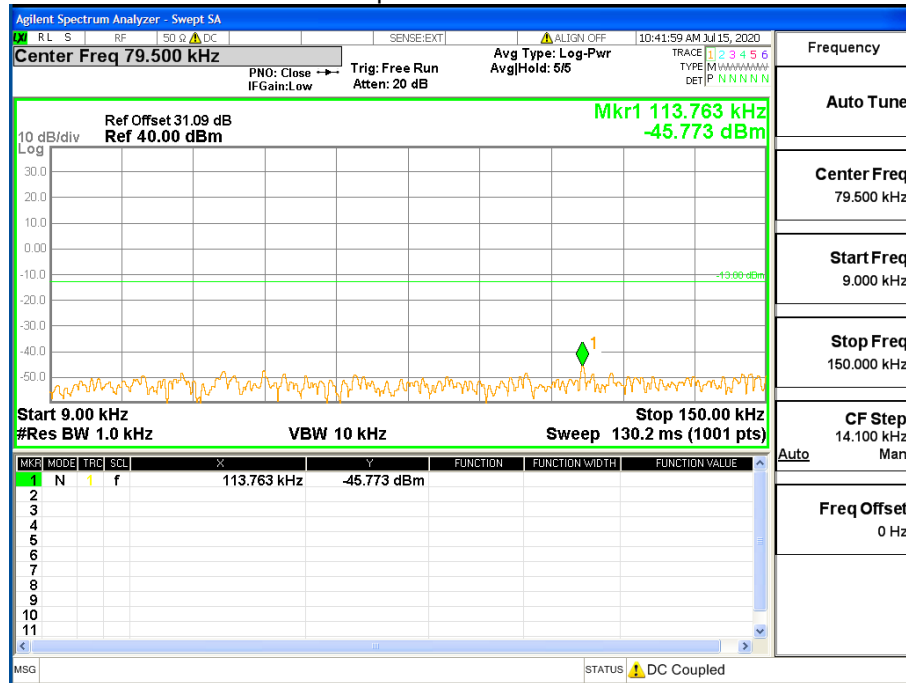


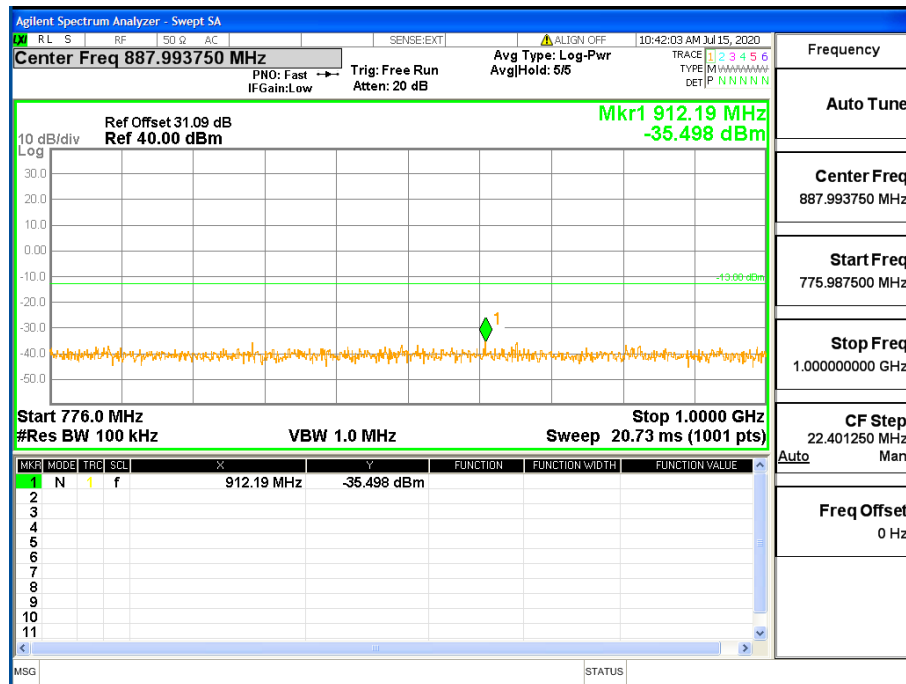
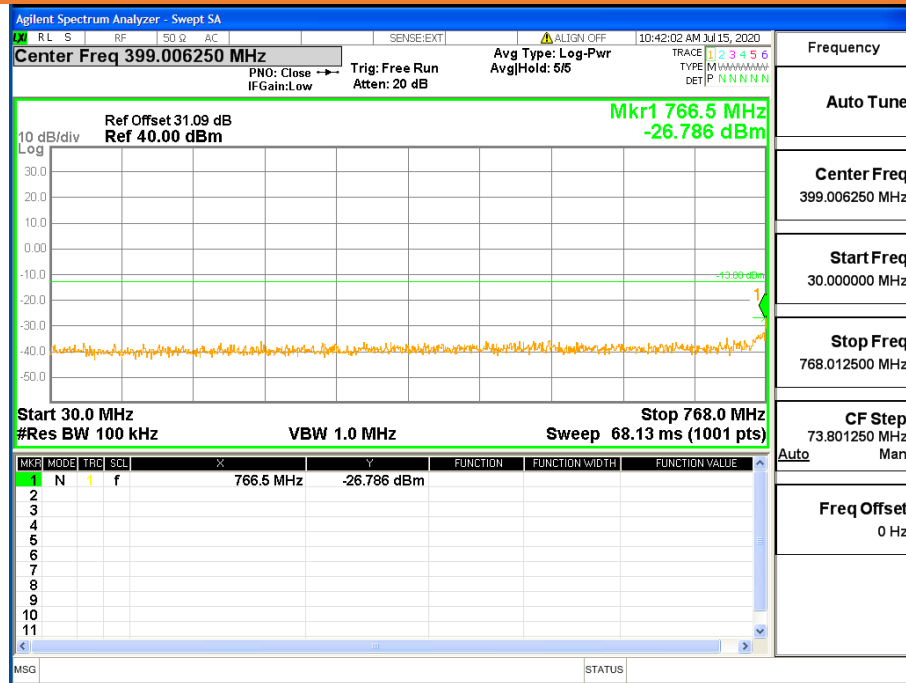


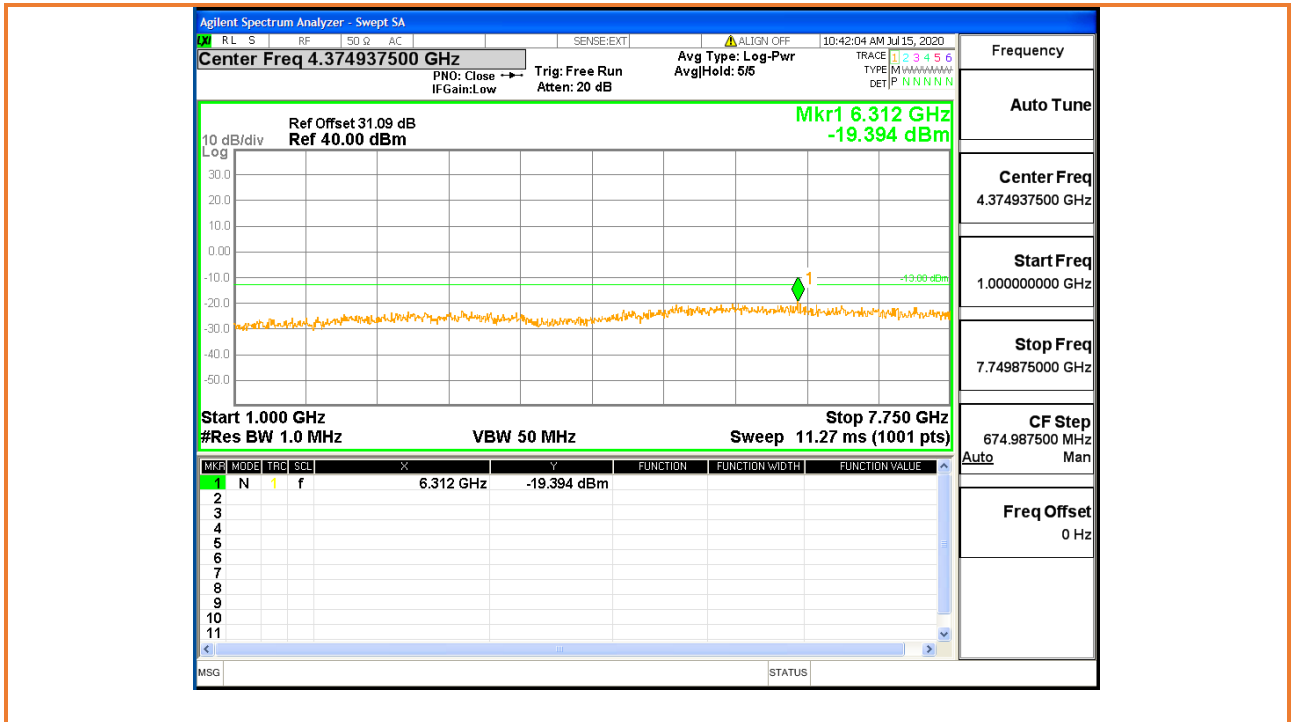




Spurious / 700PS







## **Frequency Stability**

The airHost and hd37 are synchronized to the same reference clock. Therefore there is no frequency error after down and up frequency conversion are performed.

The frequency stability check is not applicable to the EUT.

### Spurious emissions radiated measurements

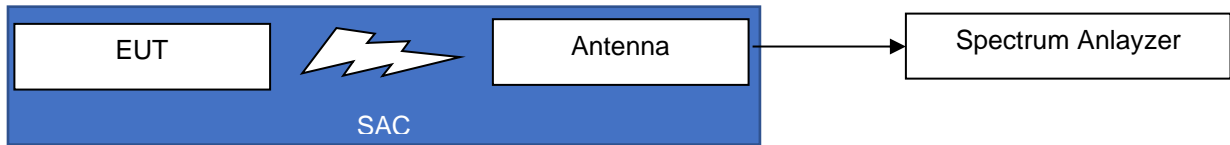
Governing Doc	FCC Part 2.1053, FCC Part 90.210 & FCC Part 90.219	Room Temperature (°C)	23.6 to 23.9		
Test Procedure	ANSI C63.4	Relative Humidity (%)	38.1 to 39.9		
Test Location	Richmond	Barometric Pressure (kPa)	102.1 to 102.2		
Test Engineer	Daniel Lee	Date	08 June 2020		
EUT Voltage	<input checked="" type="checkbox"/> +48VDC <input type="checkbox"/> 120VAC @ 60Hz				
Test Equipment Used	Manufacturer	Model	Identifier	Calibration date	Calibration due
EMC Analyzer	KeySight	N9038A	702	27-May-2020	27-May-2021
Broadband Antenna	Sunol	JB1	967	12-Oct-2018	12-Oct-2020
LPDA Antenna	Schwarzbeck Mess	VUSLP9111B	996	26-Mar-2019	26-Mar-2021
BiCon Antenna	A.H Systems	SAS-540	1115	29-Apr-2019	29-Apr-2021
Horn Antenna	A.H Systems	SAS-571	227C	18-Oct-2018	18-Oct-2020
Motion Controller	Sunol	SC104V	235A	IHC <sup>1</sup>	IHC <sup>1</sup>
Antenna Tower	Sunol	TWR95-4	235B	IHC <sup>1</sup>	IHC <sup>1</sup>
Turn Table	Sunol	SM46C	235C	IHC <sup>1</sup>	IHC <sup>1</sup>
EMC Shielded Enclosure	USC	USC-26	374	IHC <sup>1</sup>	IHC <sup>1</sup>
RF Cable	MRO	n/a	n/a	IHC <sup>2</sup>	IHC <sup>2</sup>
RF Preamplifier	Agilent	8449B	273	IHC <sup>2</sup>	IHC <sup>2</sup>
AC Power Source	California Instruments	5001i	059	IHC <sup>3</sup>	IHC <sup>3</sup>
Used Software	<input checked="" type="checkbox"/> Tile 7! v7.3.0.6				
Used Template	_FCC_RadEmi_30-300MHz_Final_20190716 _FCC_RadEmi_300-1000MHz_Final_20190716 _FCC_RadEmi_1-10GHz_90SPUR_20190716				
Note1) In House Calibration Ref. # 4 Note2) In House Calibration Ref. # 6 Note3) In House Calibration Ref. # 7					
Frequency Range:	<input checked="" type="checkbox"/> 9kHz-30MHz	<input checked="" type="checkbox"/> 30-1000MHz	<input checked="" type="checkbox"/> 1-18GHz		
Detector:	<input checked="" type="checkbox"/> Peak (for Prescan)	<input checked="" type="checkbox"/> Quasi-Peak(for Formal)	<input checked="" type="checkbox"/> Average(for Formal)		
RBW/VBW:	<input checked="" type="checkbox"/> 9/30kHz	<input checked="" type="checkbox"/> 120/300kHz	<input checked="" type="checkbox"/> 1/3MHz		
Type of Facility:	<input checked="" type="checkbox"/> SAC	<input checked="" type="checkbox"/> FSOATS	<input type="checkbox"/> <i>in-situ</i>		
Distance:	<input checked="" type="checkbox"/> 3meter	<input type="checkbox"/> 10meter	<input type="checkbox"/> 1meter		
Arrangement of EUT:	<input checked="" type="checkbox"/> Table-top only	<input type="checkbox"/> Floor-standing only	<input type="checkbox"/> Rack Mounted		
Compliant <input checked="" type="checkbox"/> Non-Compliant <input type="checkbox"/> Not Applicable <input type="checkbox"/>					

### Test setup

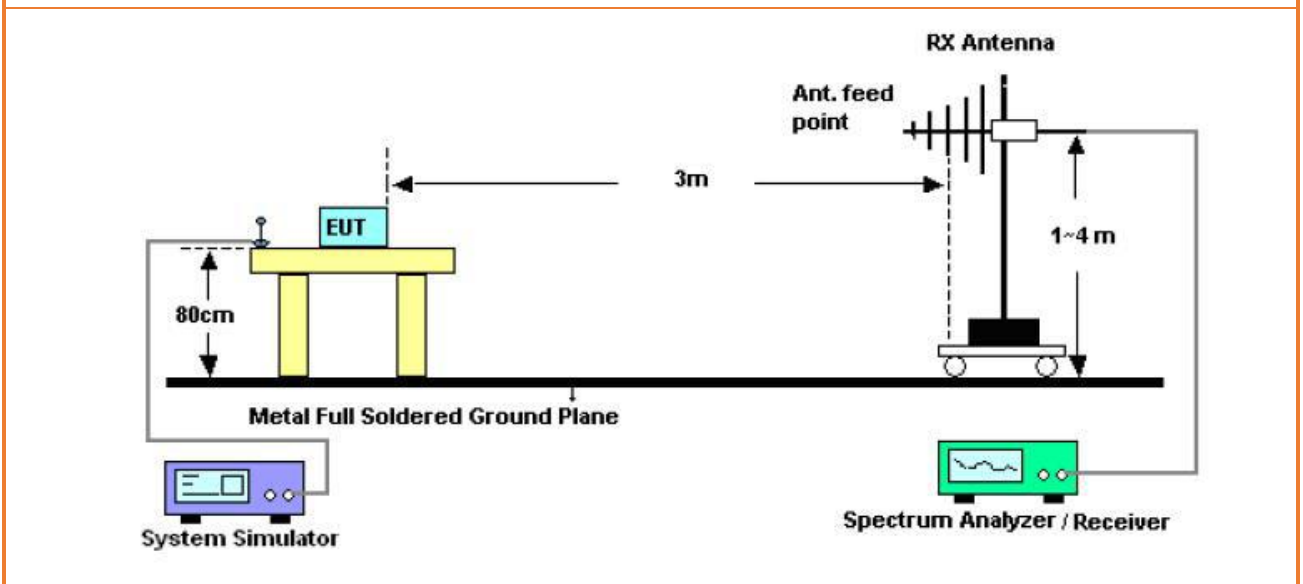
#### Description of test set-up:

The EUT was placed on a nonconducting platform (i.e., an “EUT support table”), of nominal size 1 m by 1.5 m, whose top surface is nominally 80 cm above the reference ground plane. The EUT was set up on 3 meters away from the EUT. The EUT was set continually on its Radio, 5W Max., which was downlinked from airHost. And the output of RF was terminated via 30dB attenuator, for rejecting the high power of carrier. The lowest, middle and highest channels were used for measuring of all radiated spurious emissions .

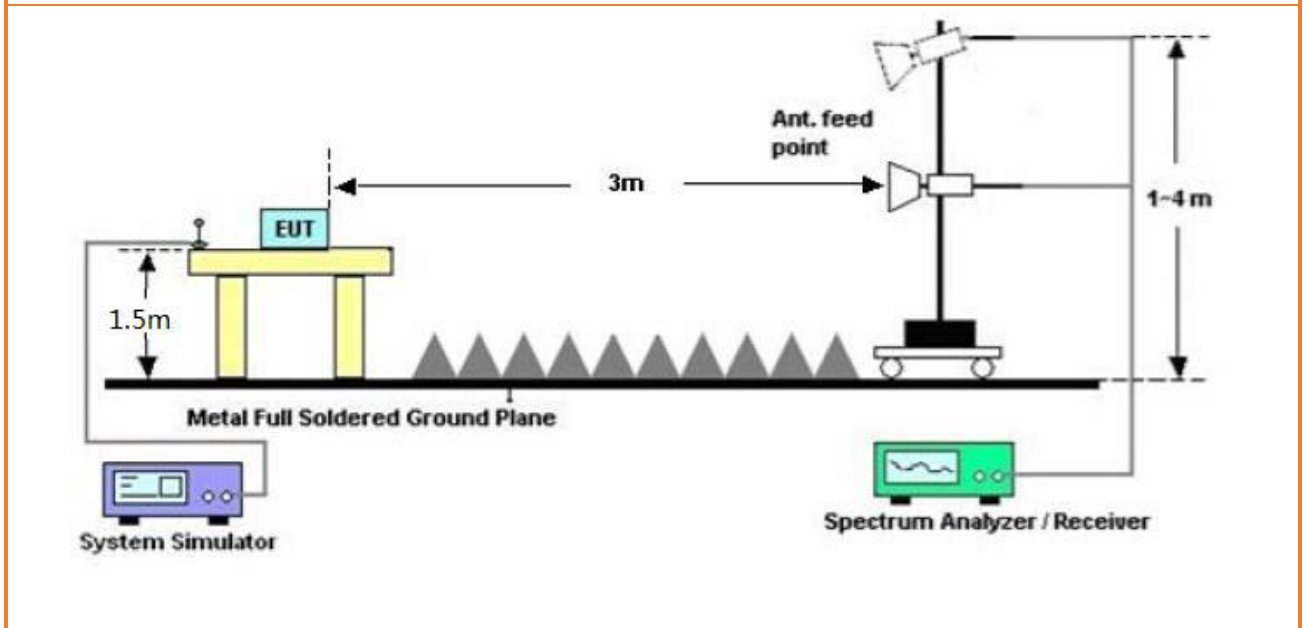
The EUT was set to **Operation Mode #1 with configuration Mode #1.**



#### - Radiated Emission 30 to 1,000MHz, with JB-1



- Radiated Emission 1 to 18GHz, with SAS-571



### Measurement Procedure

Testing was performed in accordance with the test standard(s) referenced in the test summary section of this report. The Equipment Under Test (EUT) was configured based upon the requirements of the applicable test standard. Initially, the primary emission frequencies are identified by positioning a broadband receive antenna three meter from the EUT.

Scans were made with an EMC Analyzer, controlled by EMC Test Software, Tile7!, from 30kHz to 10GHz with the receiver in the peak mode. The receiver IF bandwidth was 9kHz, 120 kHz or 1MHz as appropriate for the frequency and scan step was about 30kHz. To ensure that the maximum emission at each discrete frequency of interest is observed, the receive antenna is varied in height from one to four meters and rotated to produce horizontal and vertical polarities while the turntable is rotated to determine the worst emitting configuration. Under 30MHz was only tested at 1meter height and Antenna was changed both polarization, Horizontal and Vertical. Measurements were then made using CISPR quasi peak when the peak readings were within 10dB of the limit line. The numerical results are included herein to demonstrate compliance.

### Test Result

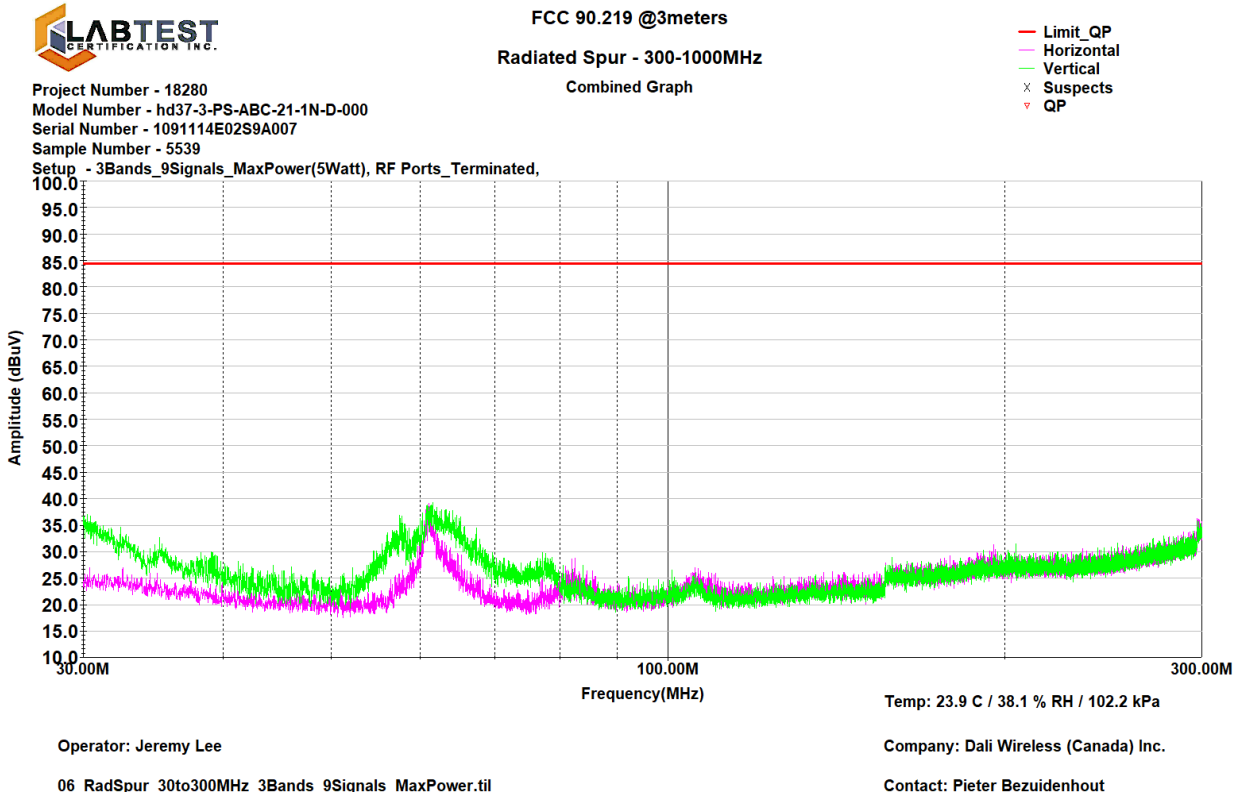
The output of EUT was set to 5 Watts(+37dBm), the PASS level of Spurious is:  $43 + 10\log(P) = 43 + 10\log(5) = 50\text{dB}$  attenuation = -13dBm Since of radiated measurement was performed at 3 meters, the limit line was converted to dBuV/m using the formulas ad outlined in KDB 971168: -13 dBm ERP = 84.38 dBuV/m at 3 meters. Spurious Emission level (dBuV/m) = Detected level (dBuV) + Path Loss(dB) + Antenna Factor (dB/m) - Preamplifier's Gain (dB)

**Graphical Representation for Emission - Radiated 30kHz to 30MHz**

Spectrum was scanned manually from 30kHz to 30MHz. No automated plot is available for this frequency range. No spurious emissions from the product were detectable

**Graphical Representation for Emission - Radiated 30MHz to 1GHz**

- 30 to 300MHz with SAS-540





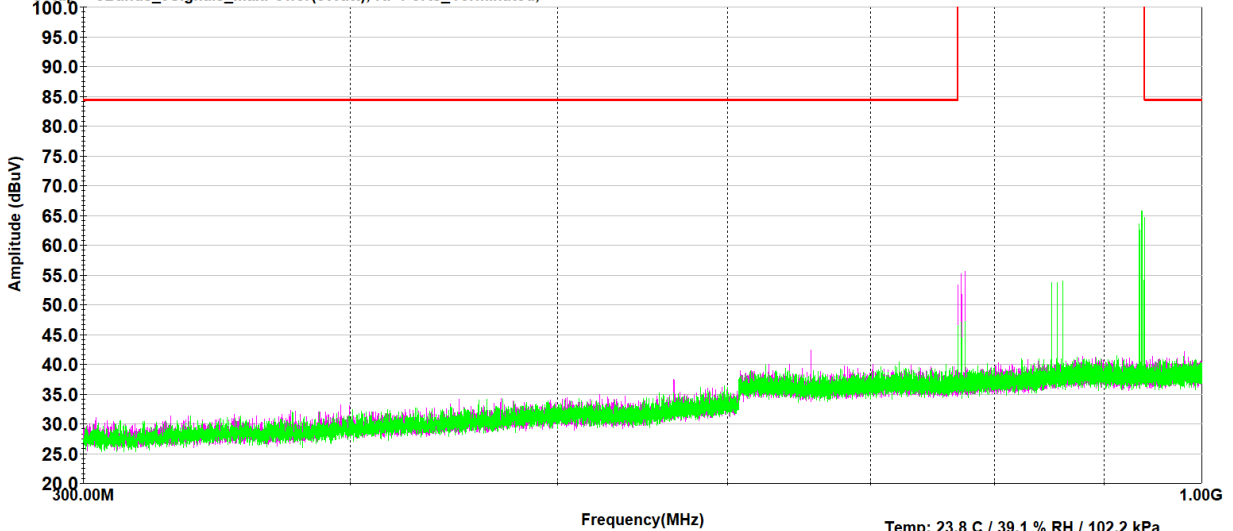
- 300 to 1,000MHz with VUSLP9111B



FCC 90.219 @3meters  
Radiated Spur - 300-1000MHz  
Combined Graph

- Limit\_QP
- Horizontal
- Vertical
- x Suspects
- ▼ QP

Project Number - 18280  
Model Number - hd37-3-PS-ABC-21-1N-D-000  
Serial Number - 1091114E02S9A007  
Sample Number - 5539  
Setup - 3Bands\_9Signals\_MaxPower(5Watt), RF Ports\_Terminated,



Operator: Jeremy Lee

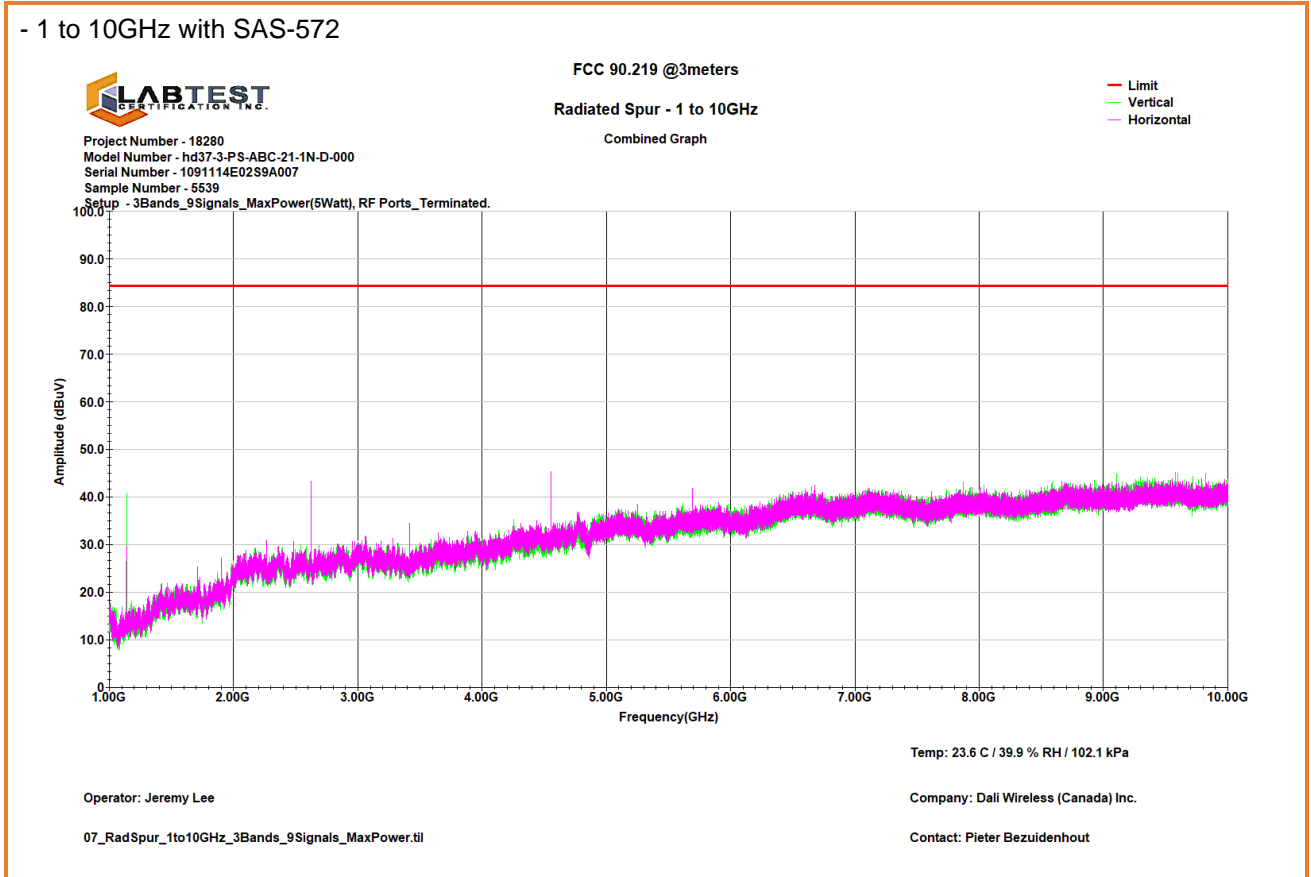
05 RadSpur 300to1000MHz 3Bands 9Signals MaxPower.til

Temp: 23.8 C / 39.1 % RH / 102.2 kPa

Company: Dali Wireless (Canada) Inc.

Contact: Pieter Bezuidenhout

**Graphical Representation for Emission - Radiated 1 to 10GHz**



**Table Representation for Emission - Radiated 30MHz to 10GHz**

No Emissions were measured. All emissions detected, other than the fundamental, were related to the Digital Mode circuitry. No Transmitter Spurious Emissions were detectable and are greater than 20dB below the limit line.

**END OF REPORT**