

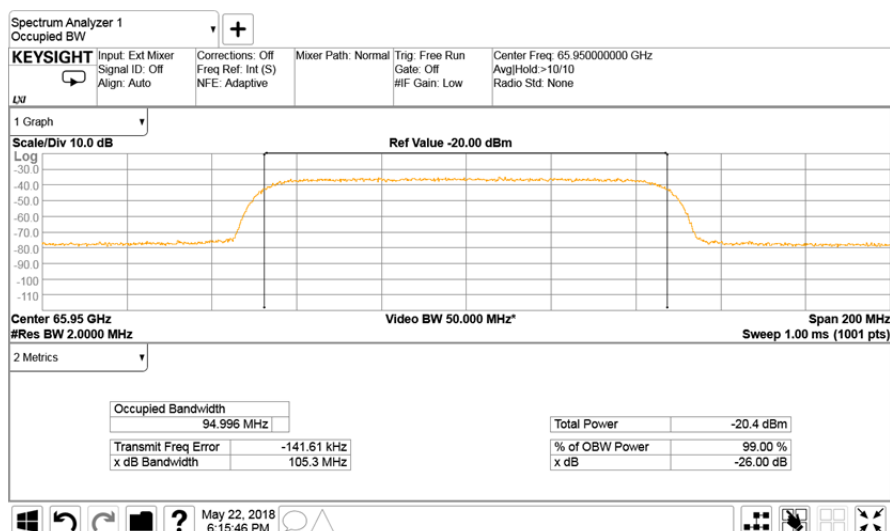


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

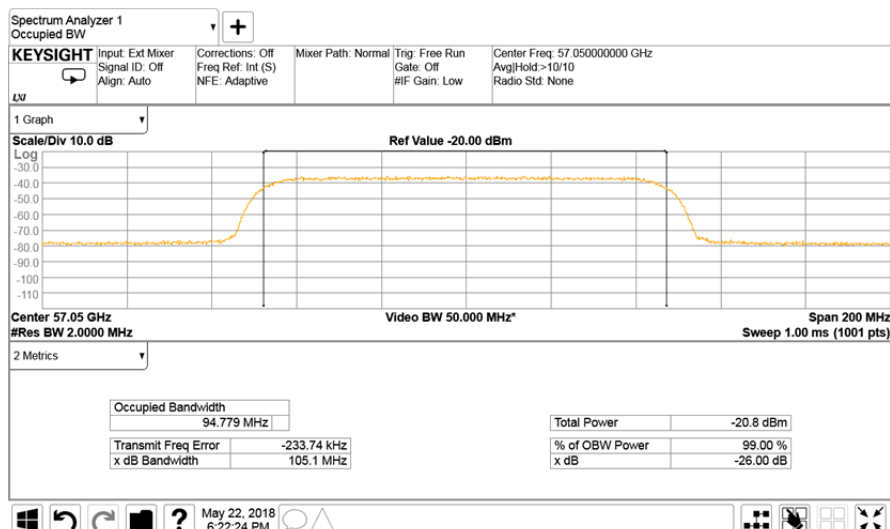
Plot 7.2.39 Occupied bandwidth test result at High frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	100 MHz
at High frequency	65950 MHz



Plot 7.2.40 Occupied bandwidth test result at Low frequency

MODULATION:	128QAM
EMISSION BANDWIDTH:	100 MHz
at low frequency	57050 MHz



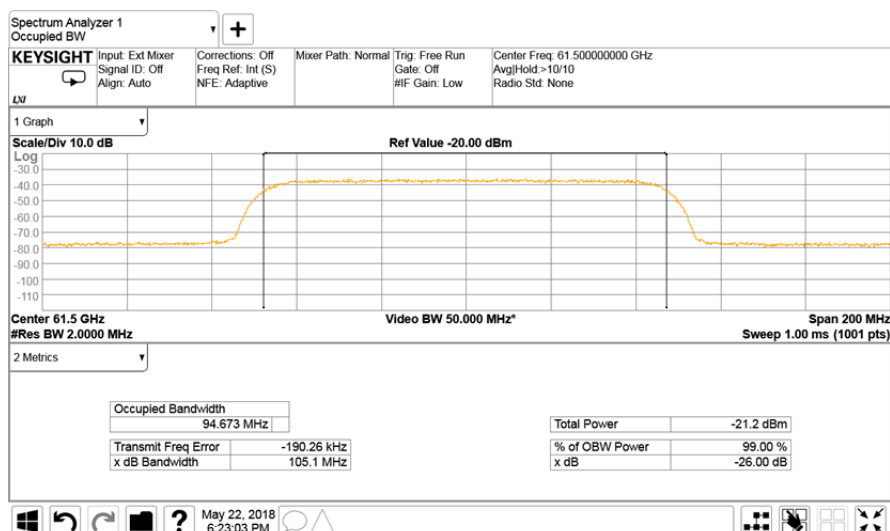


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

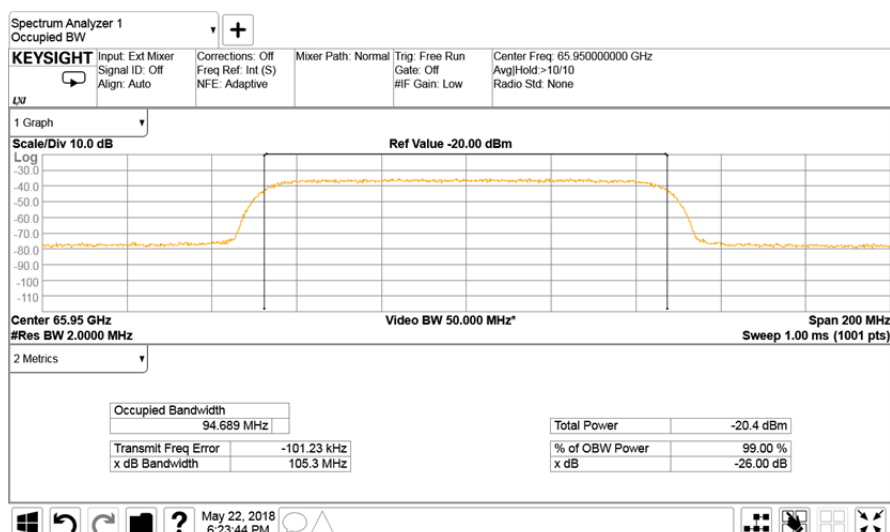
Plot 7.2.41 Occupied bandwidth test result at Mid frequency

MODULATION:	128QAM
EMISSION BANDWIDTH:	100 MHz
at mid frequency	61500 MHz



Plot 7.2.42 Occupied bandwidth test result at High frequency

MODULATION:	128QAM
EMISSION BANDWIDTH:	100 MHz
at High frequency	65950 MHz



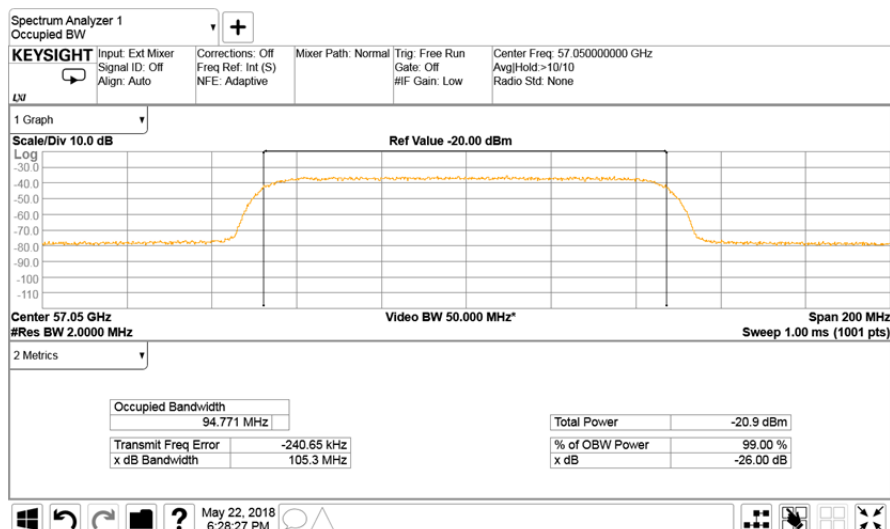


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

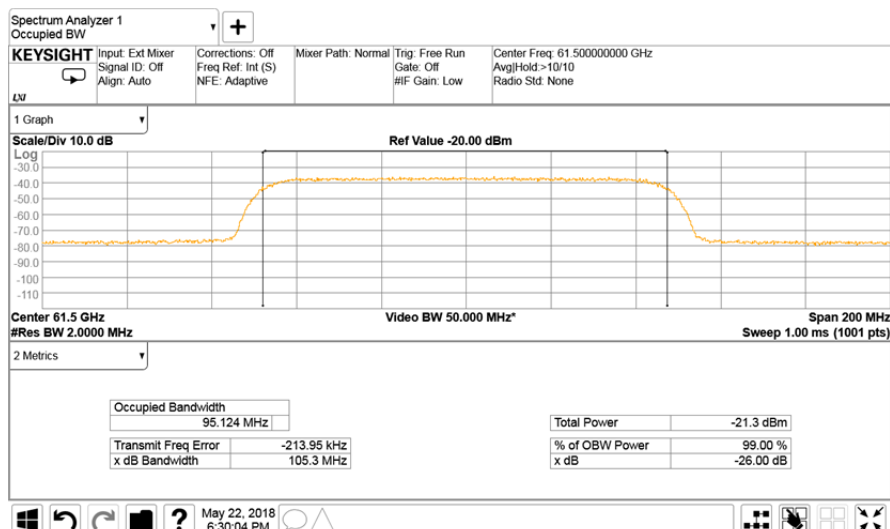
Plot 7.2.43 Occupied bandwidth test result at Low frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	100 MHz
at low frequency	57050 MHz



Plot 7.2.44 Occupied bandwidth test result at Mid frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	100 MHz
at mid frequency	61500 MHz



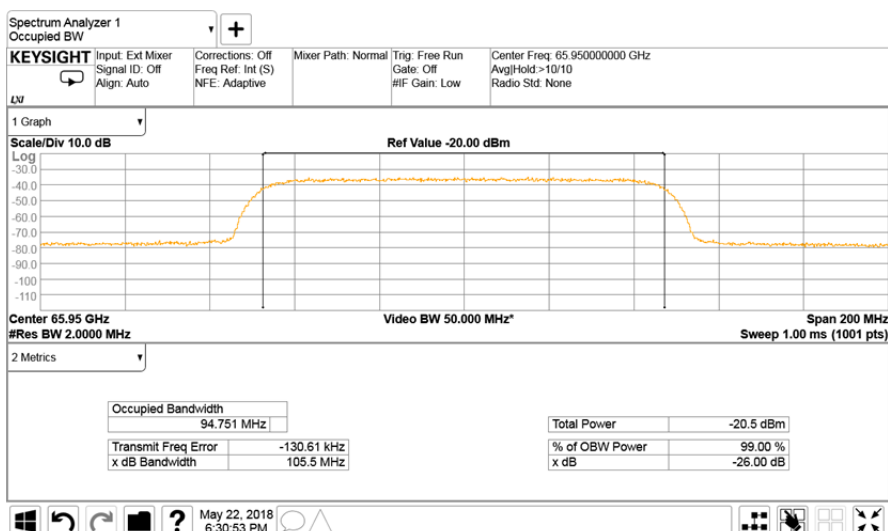


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

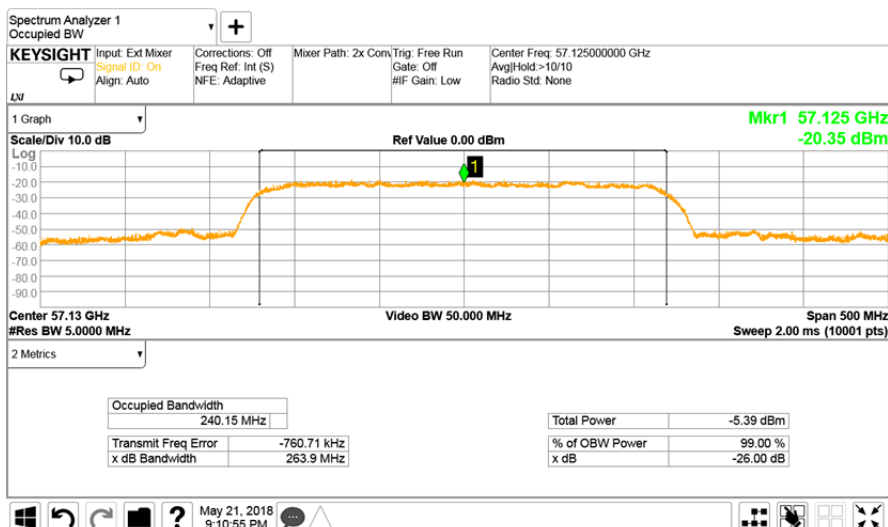
Plot 7.2.45 Occupied bandwidth test result at High frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	100 MHz
at High frequency	65950 MHz



Plot 7.2.46 Occupied bandwidth test result at Low frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



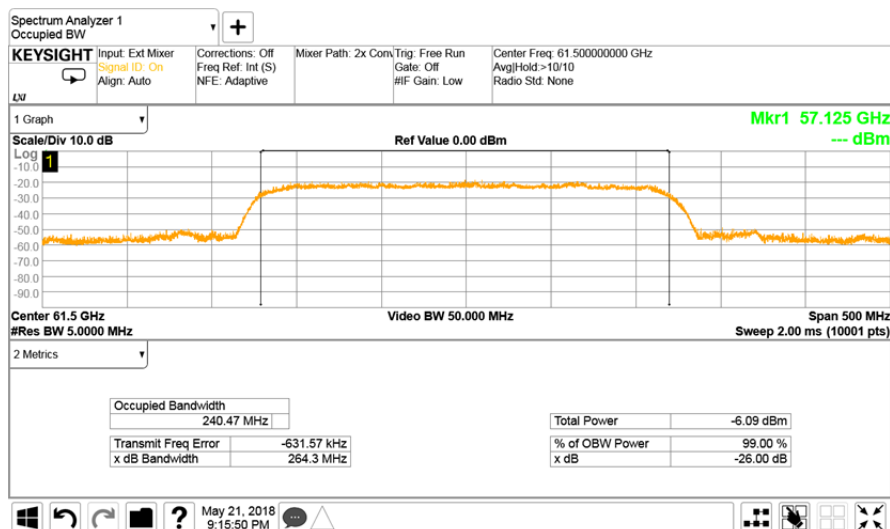


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

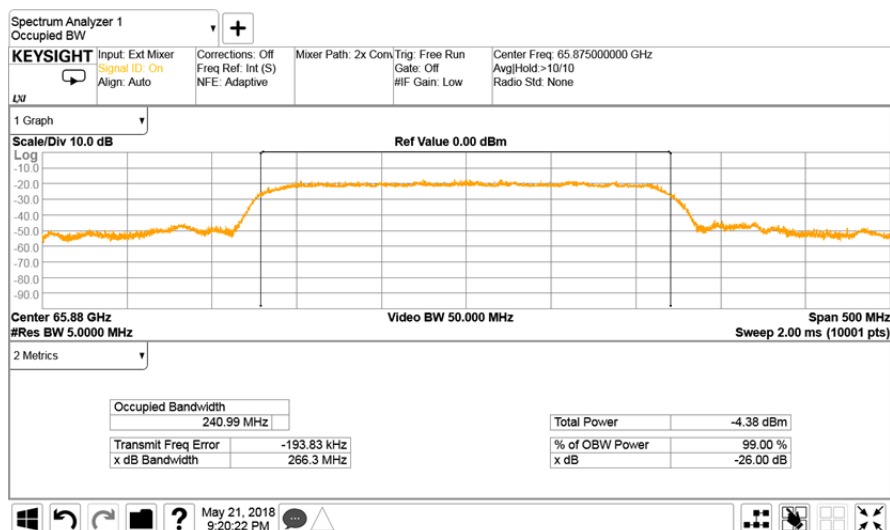
Plot 7.2.47 Occupied bandwidth test result at Mid frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



Plot 7.2.48 Occupied bandwidth test result at High frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



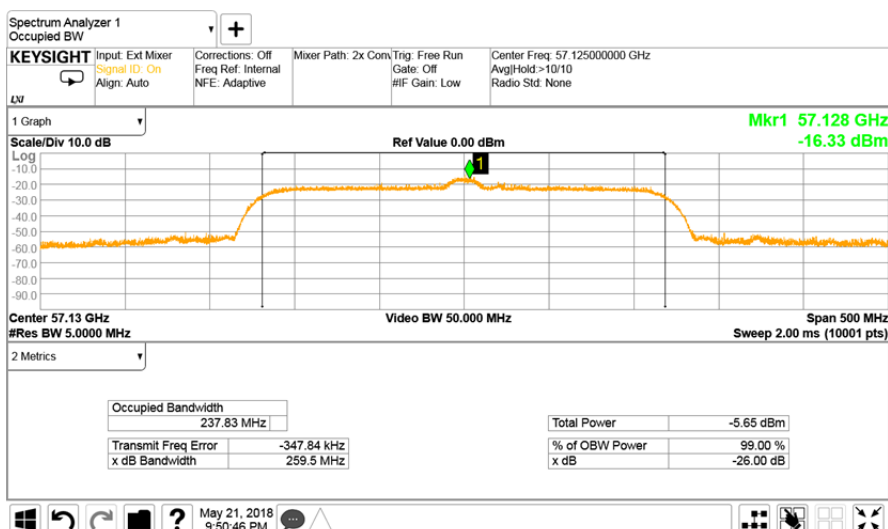


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

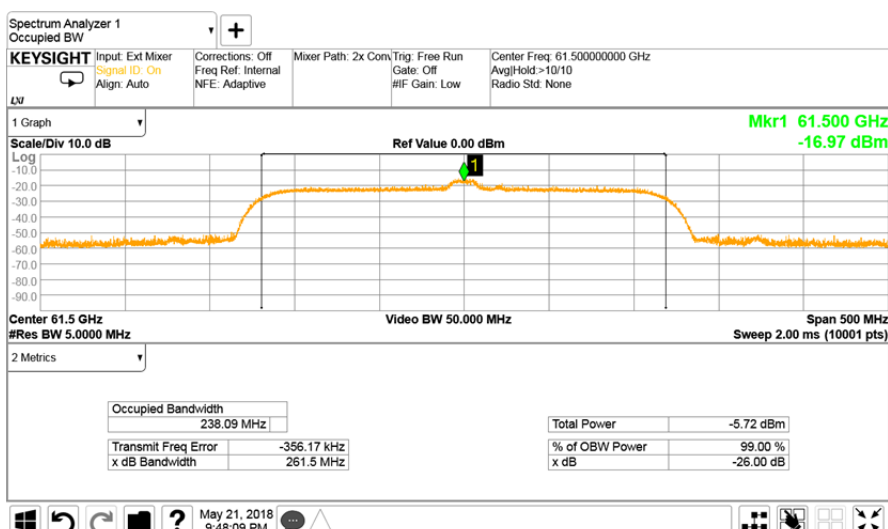
Plot 7.2.49 Occupied bandwidth test result at Low frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



Plot 7.2.50 Occupied bandwidth test result at Mid frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



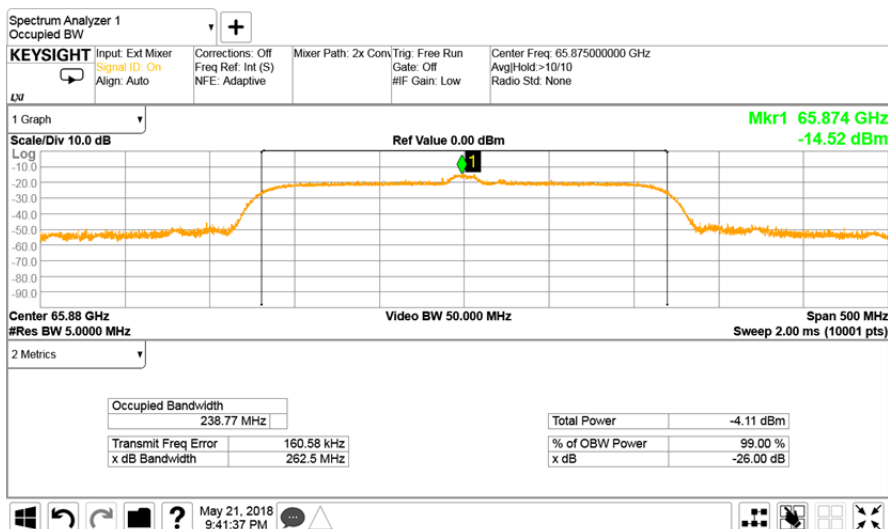


HERMON LABORATORIES

Test specification: Section 15.215(c), Occupied bandwidth			
Test procedure: 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
Test mode: Compliance		Verdict: PASS	
Date(s): 19-Jun-18 - 27-Jun-18			
Temperature: 24.2 °C	Relative Humidity: 48 %	Air Pressure: 1009 hPa	Power: -48 VDC
Remarks:			

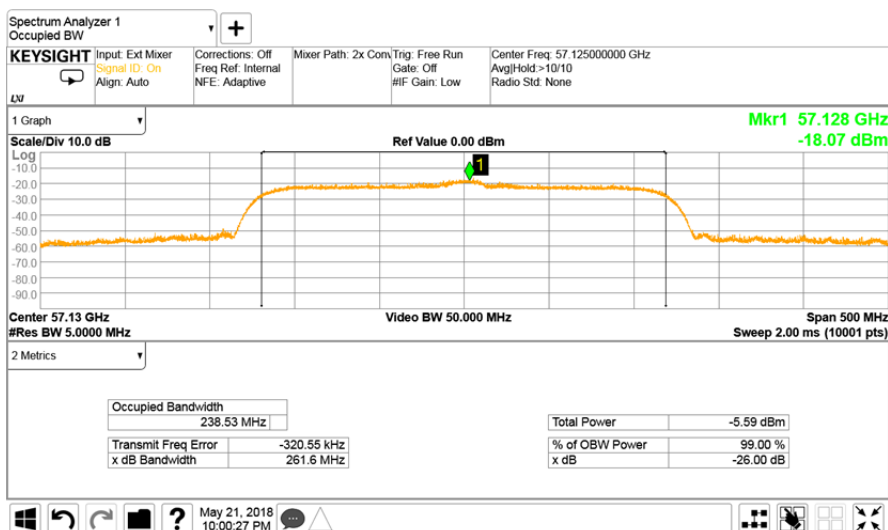
Plot 7.2.51 Occupied bandwidth test result at High frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



Plot 7.2.52 Occupied bandwidth test result at Low frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



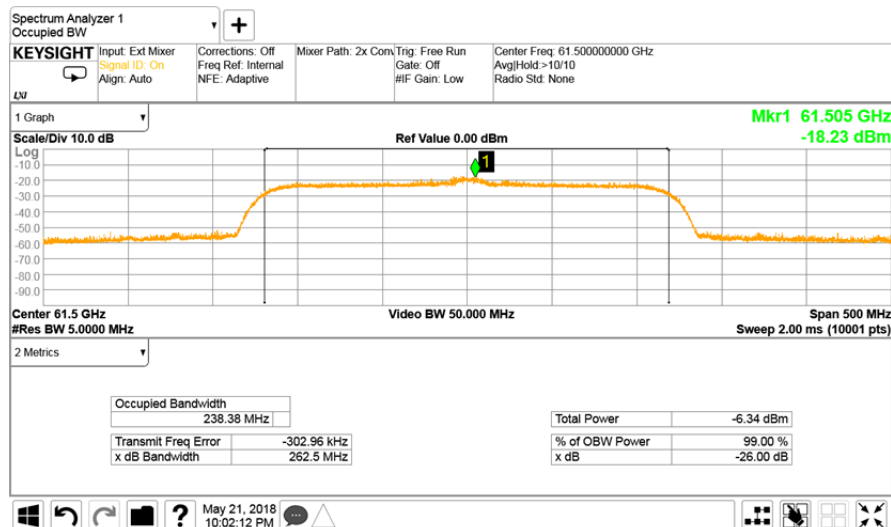


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

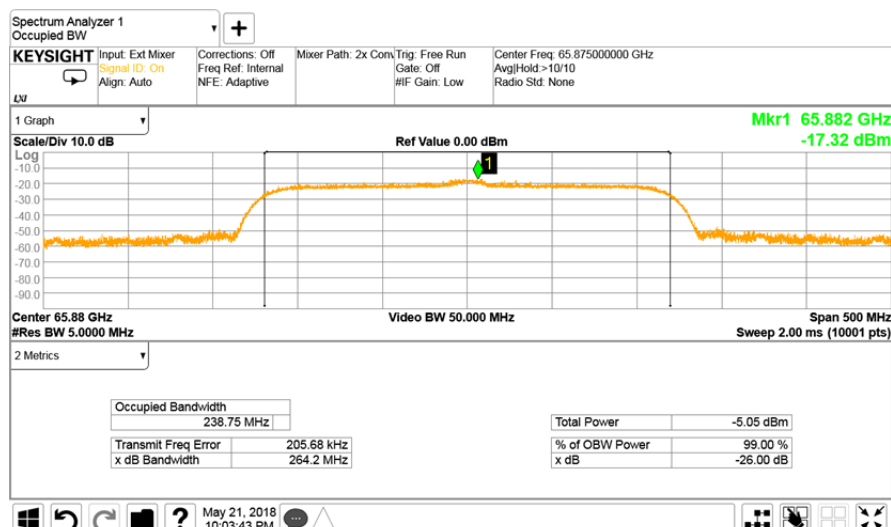
Plot 7.2.53 Occupied bandwidth test result at Mid frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



Plot 7.2.54 Occupied bandwidth test result at High frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz





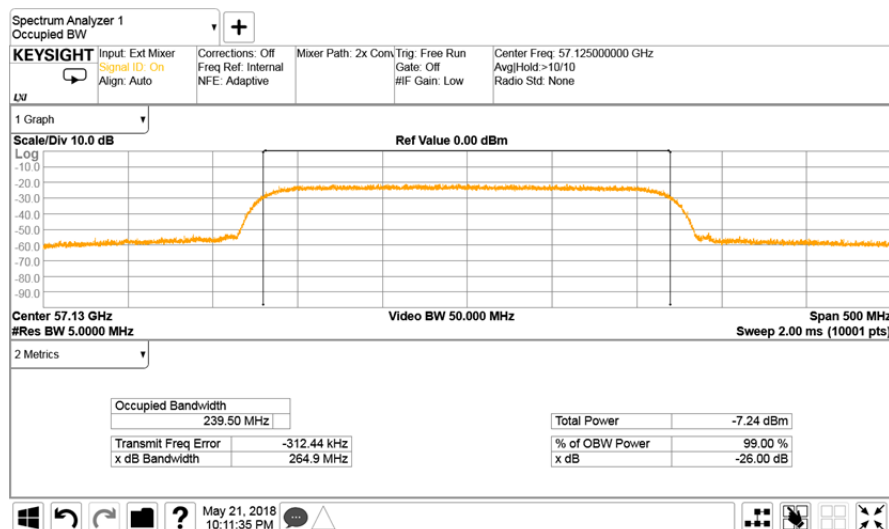


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

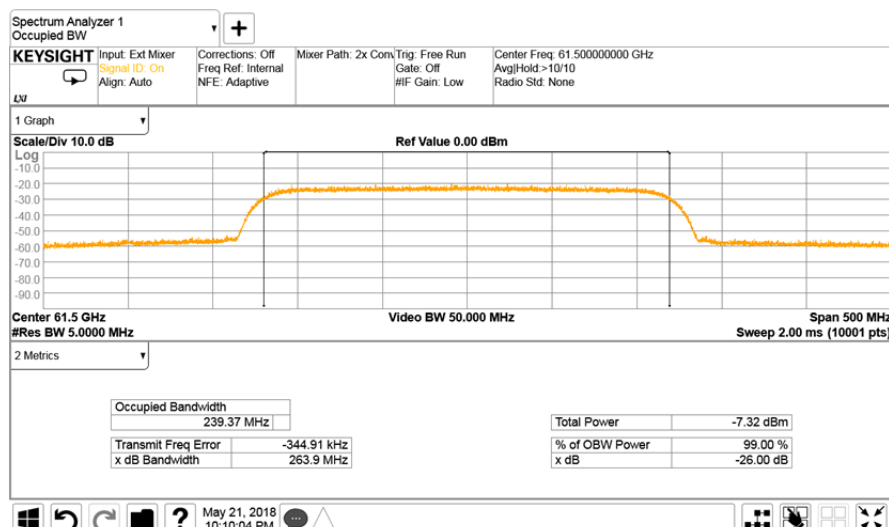
Plot 7.2.55 Occupied bandwidth test result at Low frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



Plot 7.2.56 Occupied bandwidth test result at Mid frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



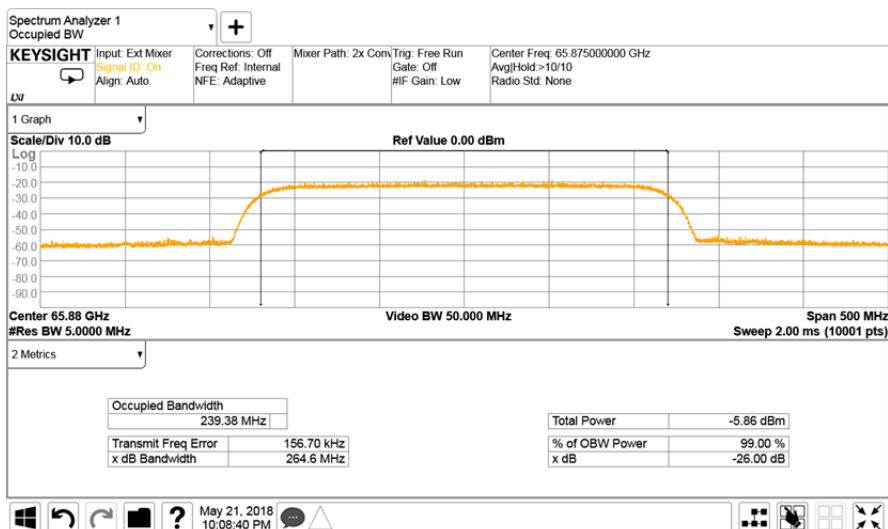


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

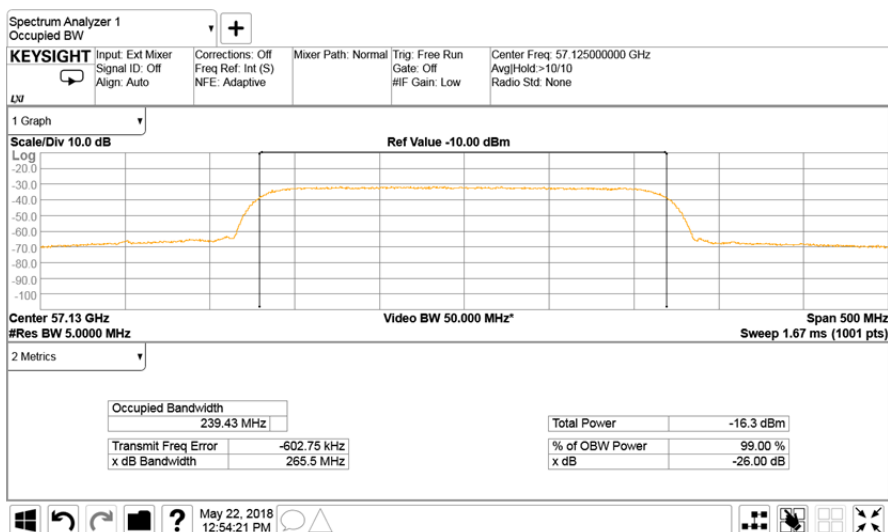
Plot 7.2.57 Occupied bandwidth test result at High frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



Plot 7.2.58 Occupied bandwidth test result at Low frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



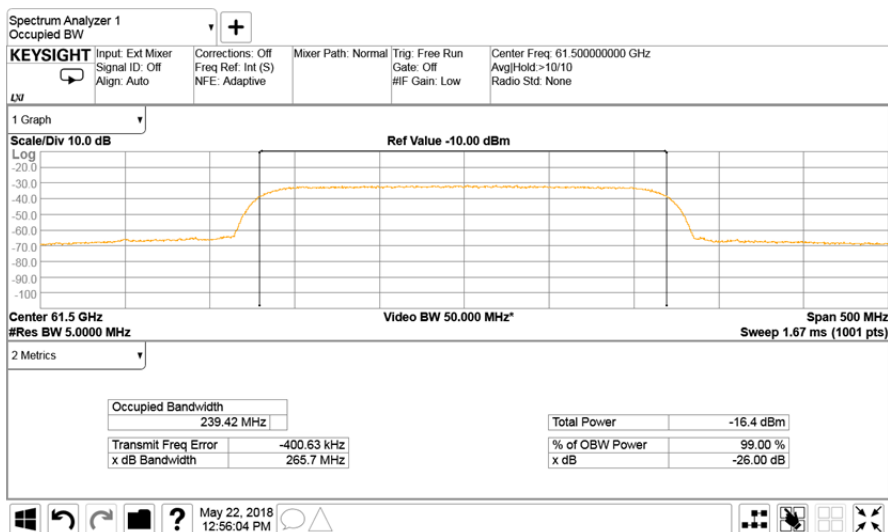


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

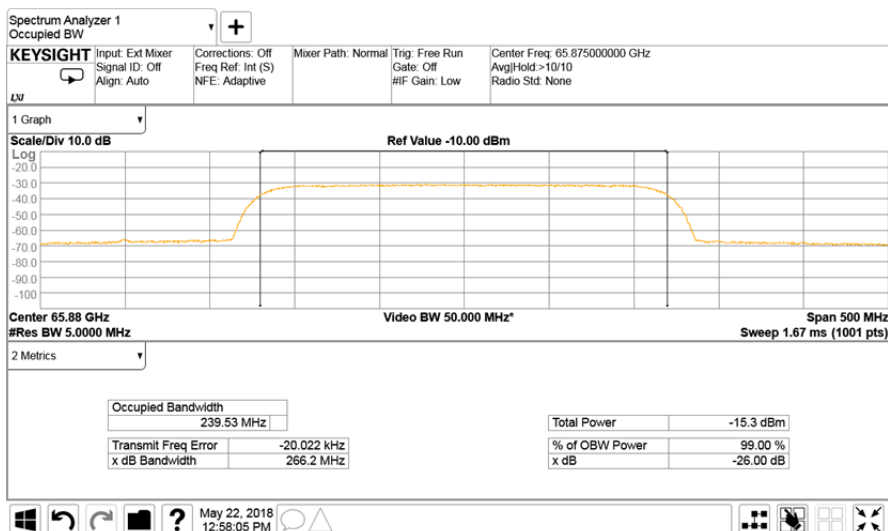
Plot 7.2.59 Occupied bandwidth test result at Mid frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



Plot 7.2.60 Occupied bandwidth test result at High frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



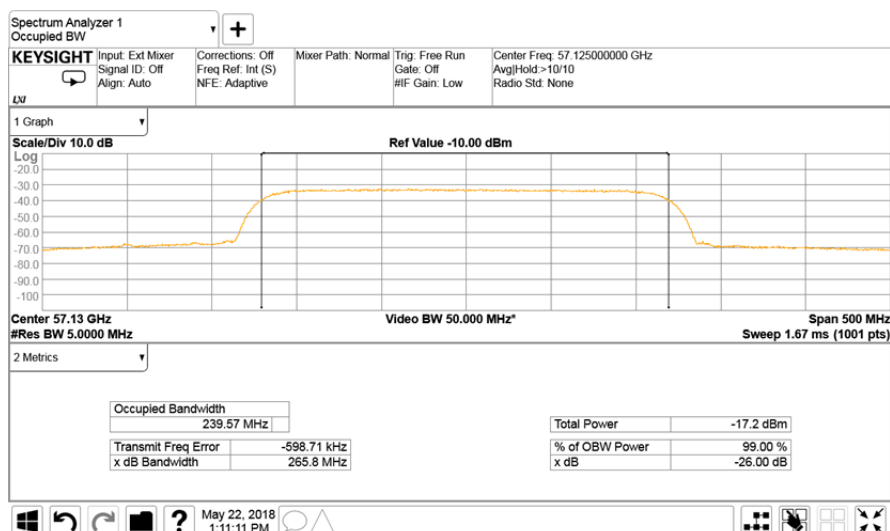


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

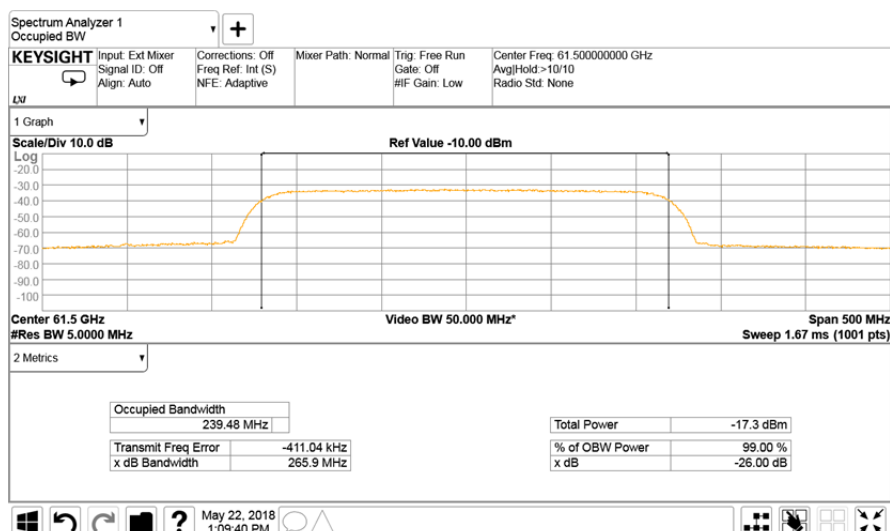
Plot 7.2.61 Occupied bandwidth test result at Low frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



Plot 7.2.62 Occupied bandwidth test result at Mid frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



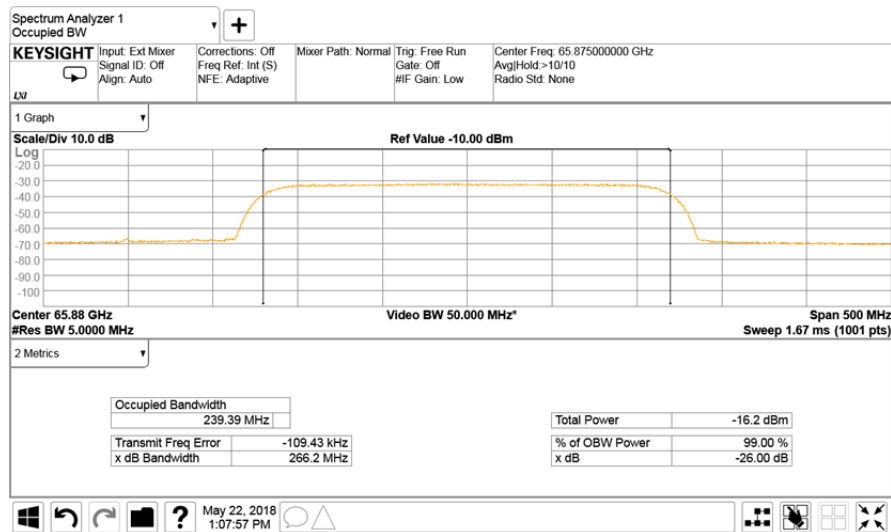


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

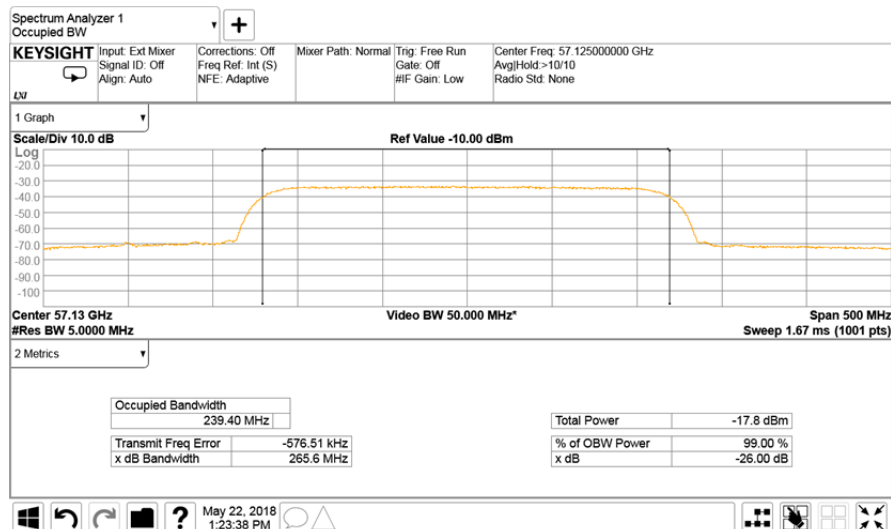
Plot 7.2.63 Occupied bandwidth test result at High frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



Plot 7.2.64 Occupied bandwidth test result at Low frequency

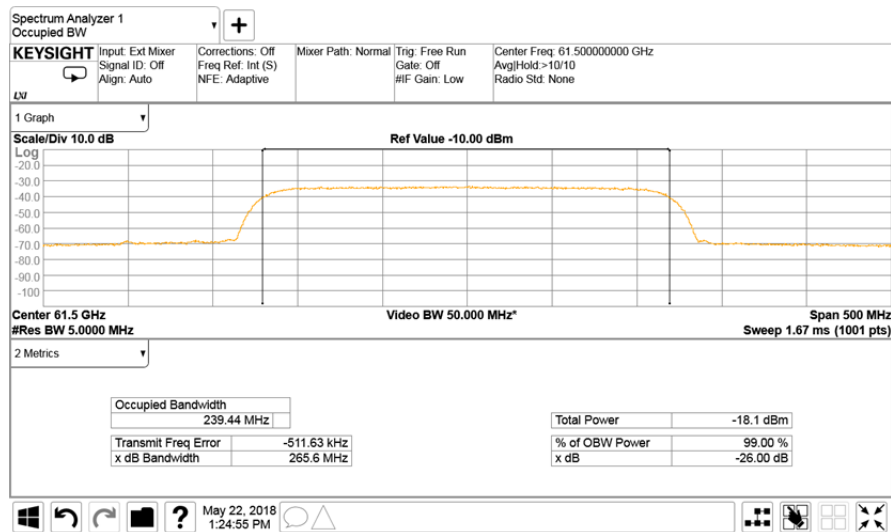
MODULATION:	128QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

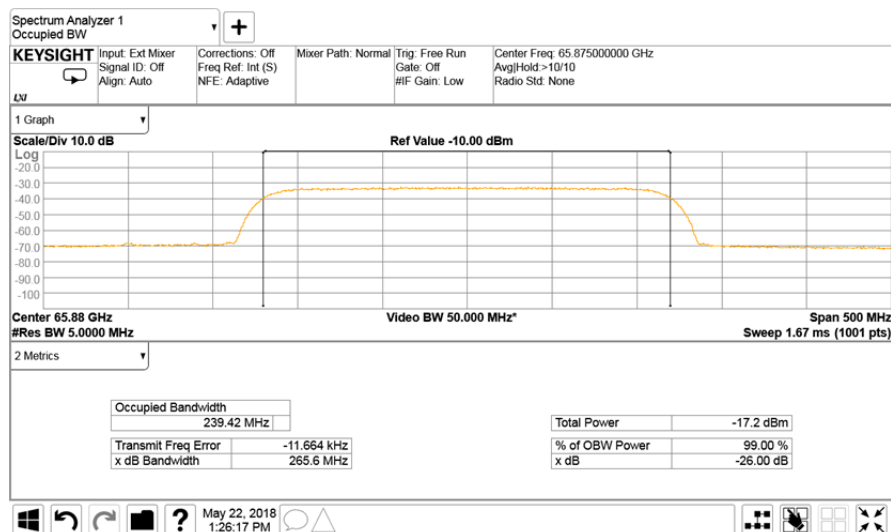
Plot 7.2.65 Occupied bandwidth test result at Mid frequency

MODULATION:	128QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



Plot 7.2.66 Occupied bandwidth test result at High frequency

MODULATION:	128QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



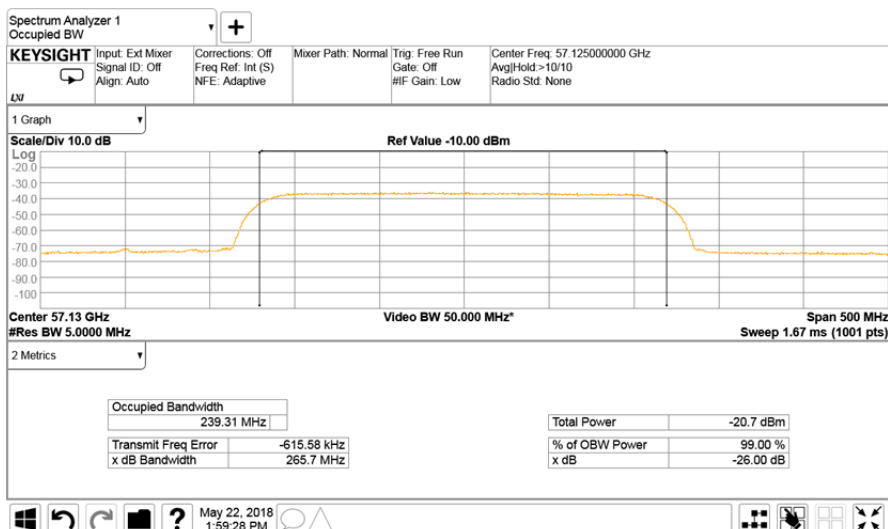


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

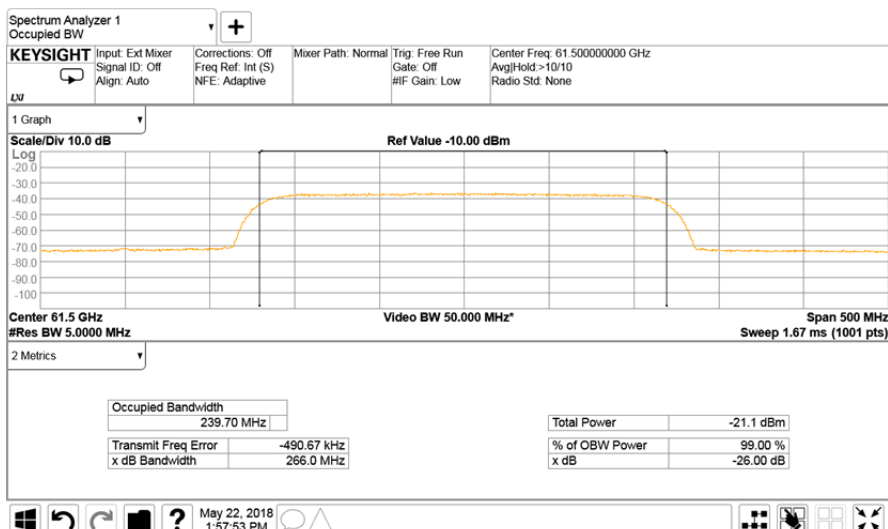
Plot 7.2.67 Occupied bandwidth test result at Low frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	250 MHz
low frequency	57125 MHz



Plot 7.2.68 Occupied bandwidth test result at Mid frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	250 MHz
mid frequency	61500 MHz



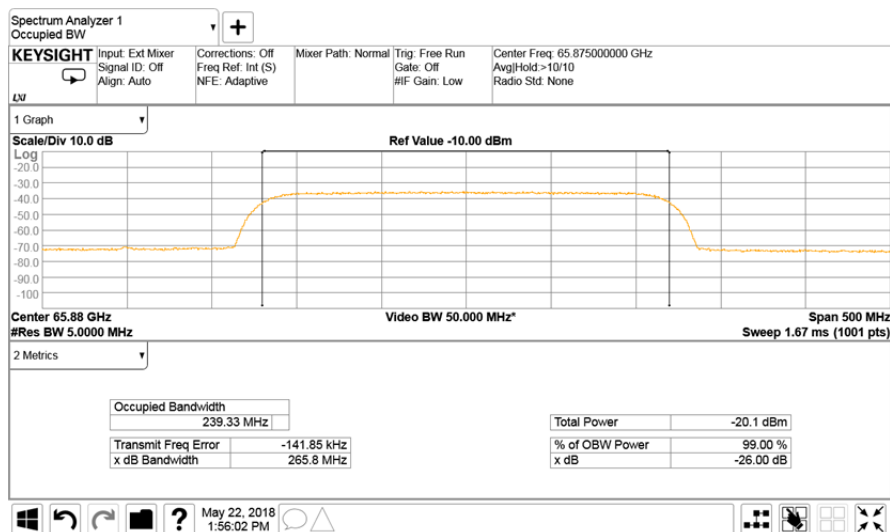


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

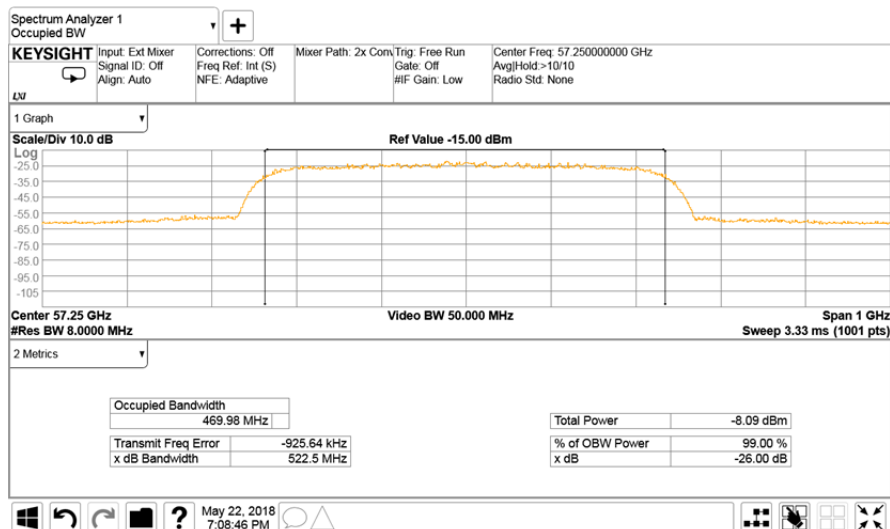
Plot 7.2.69 Occupied bandwidth test result at High frequency

MODULATION:	256QAM
EMISSION BANDWIDTH:	250 MHz
High frequency	65875 MHz



Plot 7.2.70 Occupied bandwidth test result at Low frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz





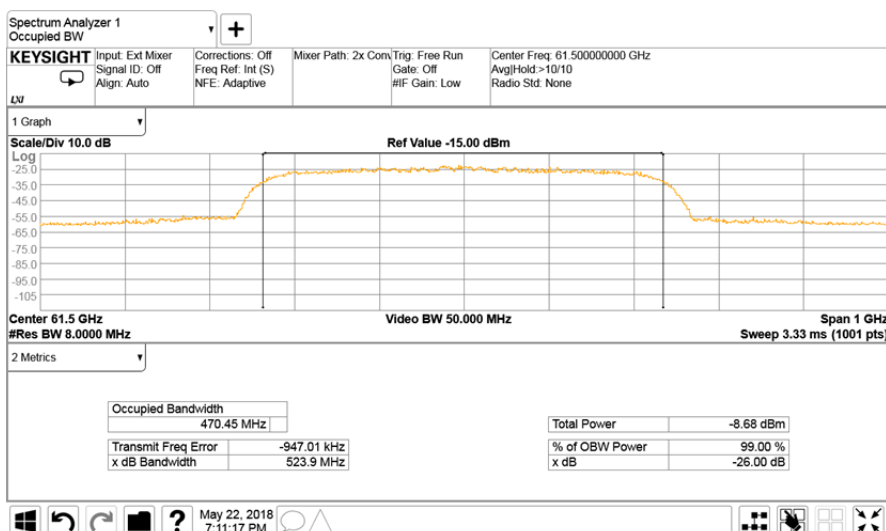


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

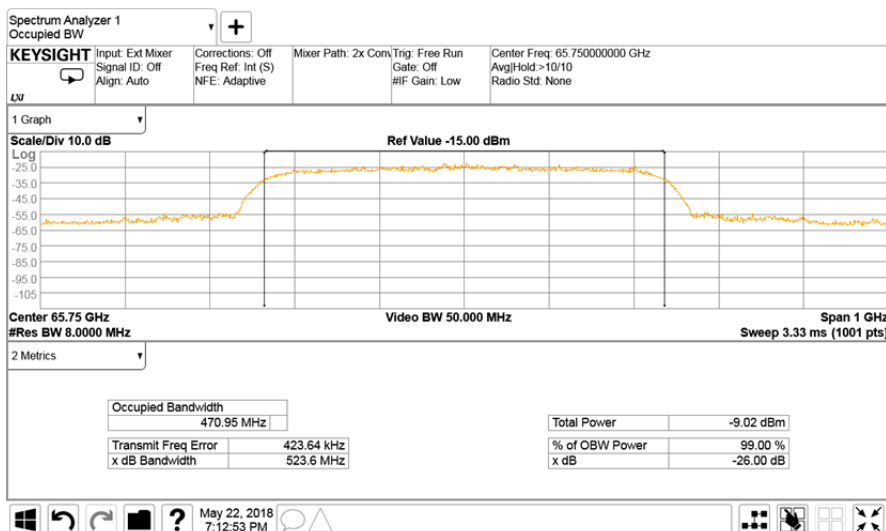
Plot 7.2.71 Occupied bandwidth test result at Mid frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz



Plot 7.2.72 Occupied bandwidth test result at High frequency

MODULATION:	2QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz



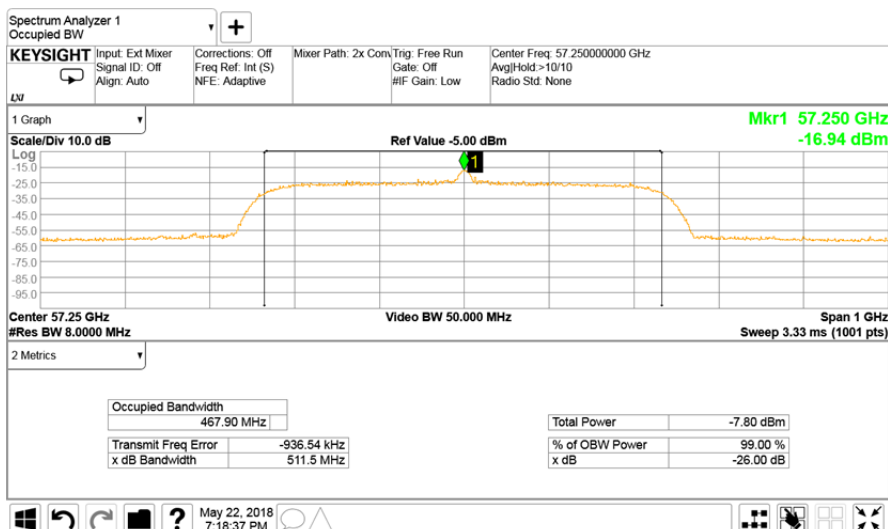


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

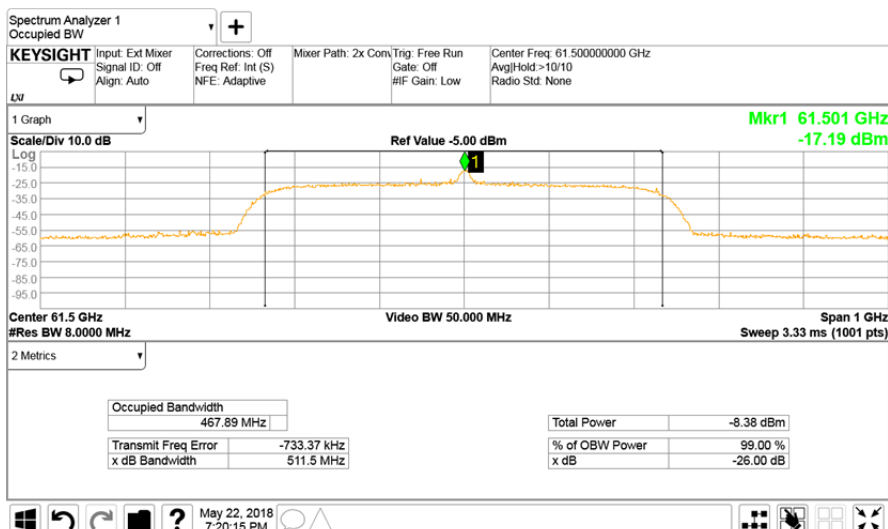
Plot 7.2.73 Occupied bandwidth test result at Low frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz



Plot 7.2.74 Occupied bandwidth test result at Mid frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz



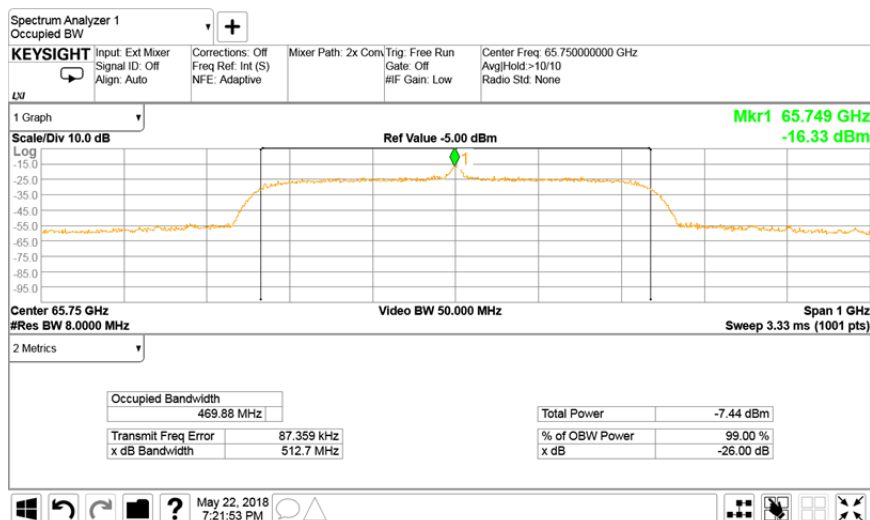


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

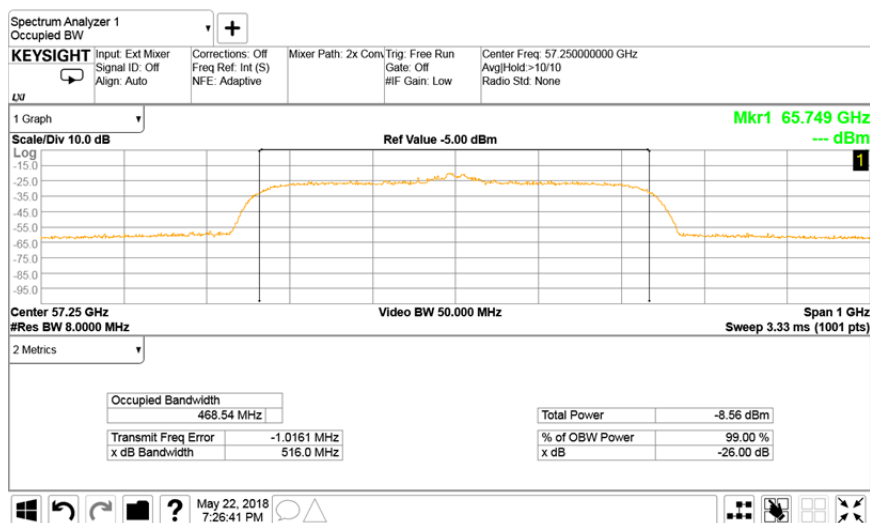
Plot 7.2.75 Occupied bandwidth test result at High frequency

MODULATION:	4QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz



Plot 7.2.76 Occupied bandwidth test result at Low frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz



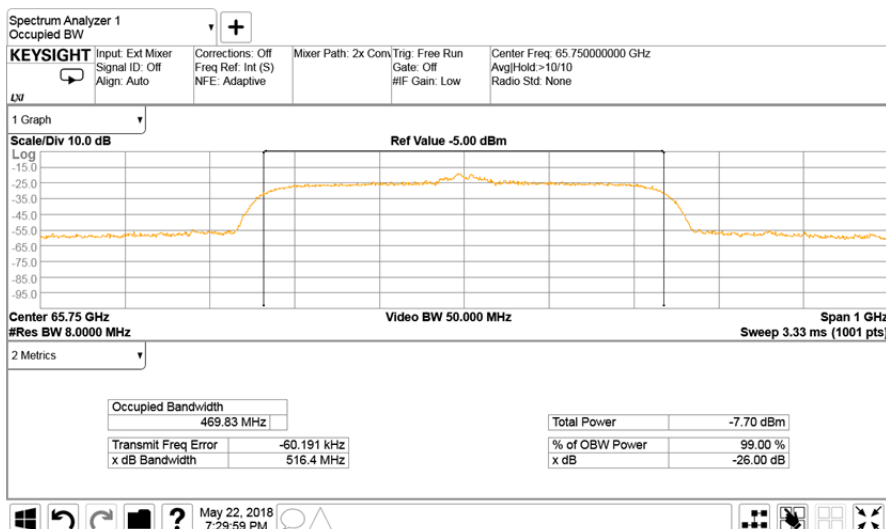


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

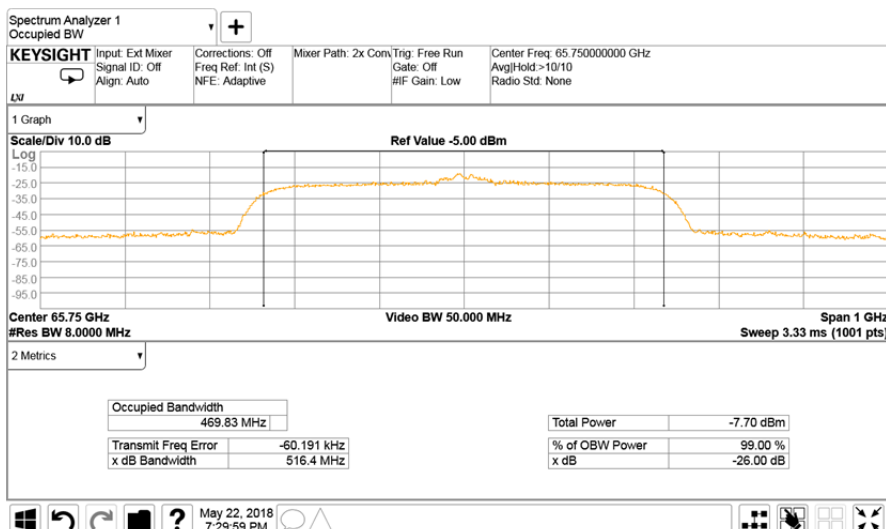
Plot 7.2.77 Occupied bandwidth test result at Mid frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz



Plot 7.2.78 Occupied bandwidth test result at High frequency

MODULATION:	8QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz



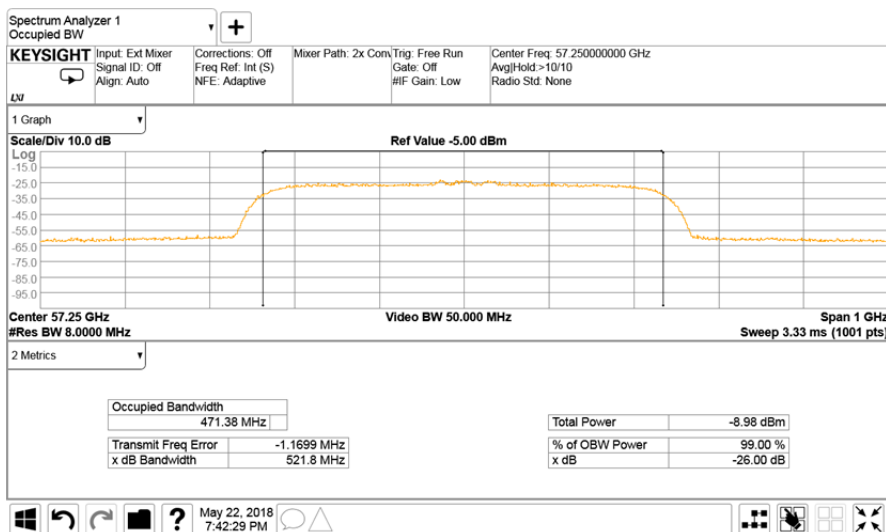


HERMON LABORATORIES

Test specification: Section 15.215(c), Occupied bandwidth			
Test procedure: 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
Test mode: Compliance		Verdict: PASS	
Date(s): 19-Jun-18 - 27-Jun-18			
Temperature: 24.2 °C	Relative Humidity: 48 %	Air Pressure: 1009 hPa	Power: -48 VDC
Remarks:			

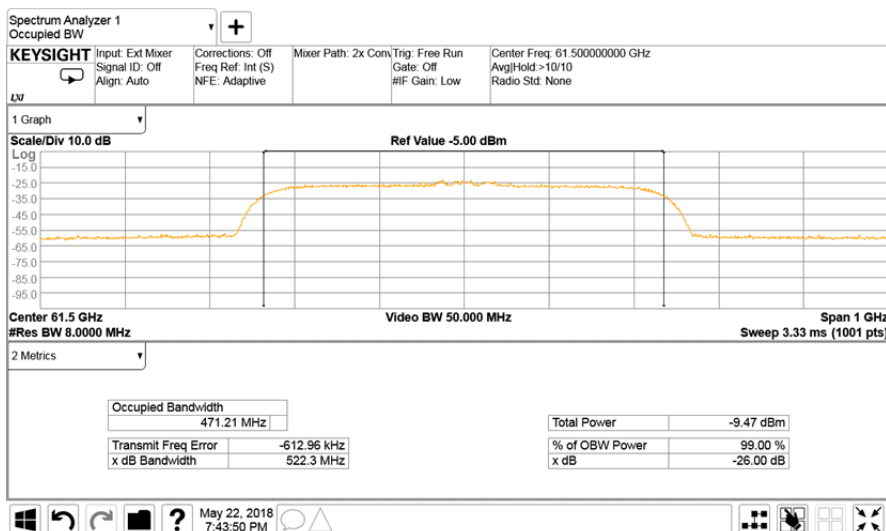
Plot 7.2.79 Occupied bandwidth test result at Low frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz



Plot 7.2.80 Occupied bandwidth test result at Mid frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz



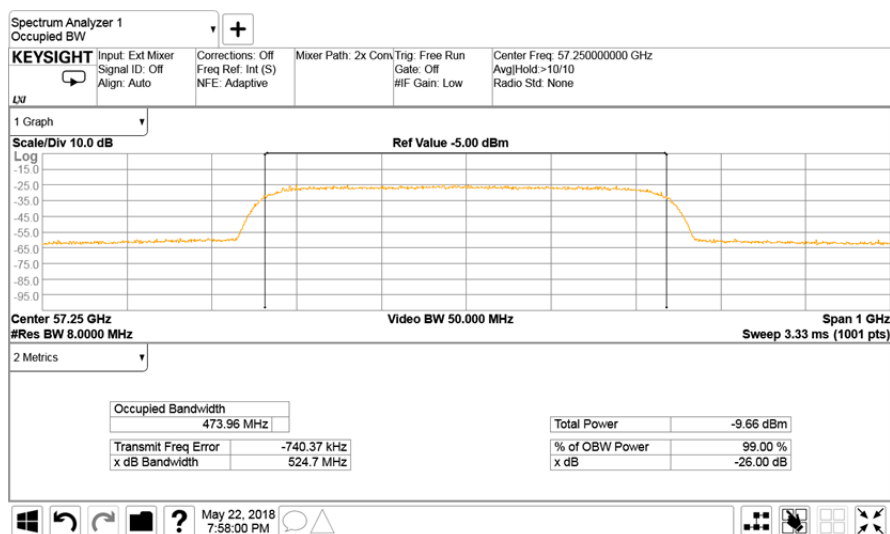


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

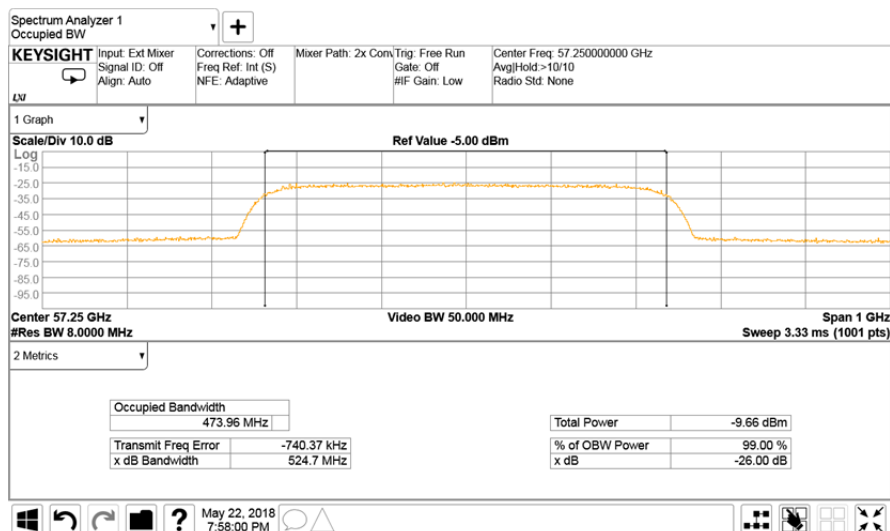
Plot 7.2.81 Occupied bandwidth test result at High frequency

MODULATION:	16QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz



Plot 7.2.82 Occupied bandwidth test result at Low frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz



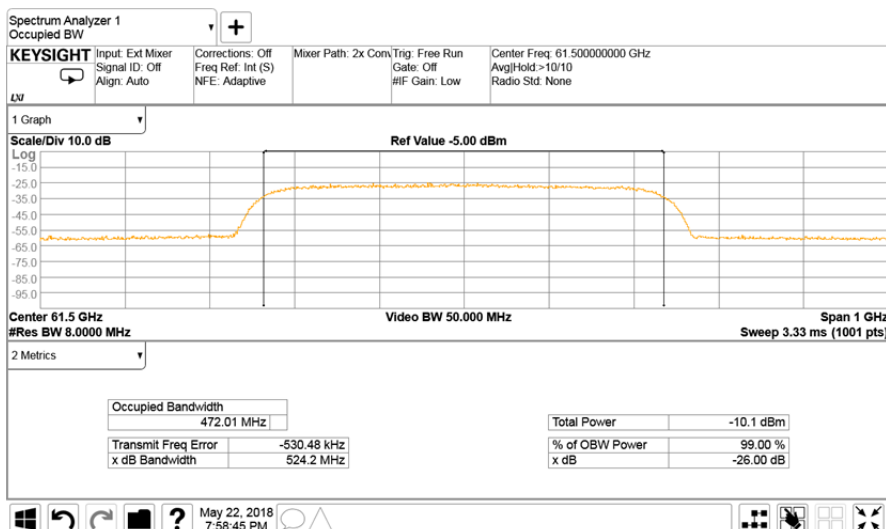


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

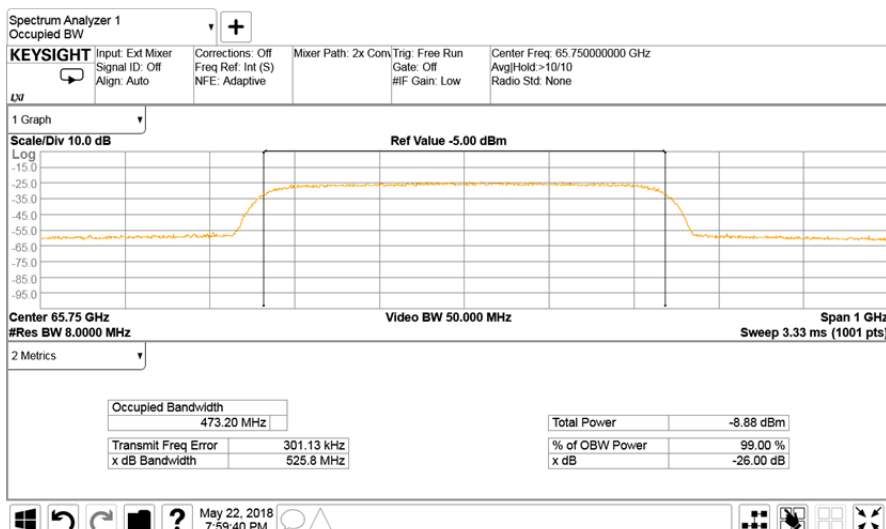
Plot 7.2.83 Occupied bandwidth test result at Mid frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz



Plot 7.2.84 Occupied bandwidth test result at High frequency

MODULATION:	32QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz



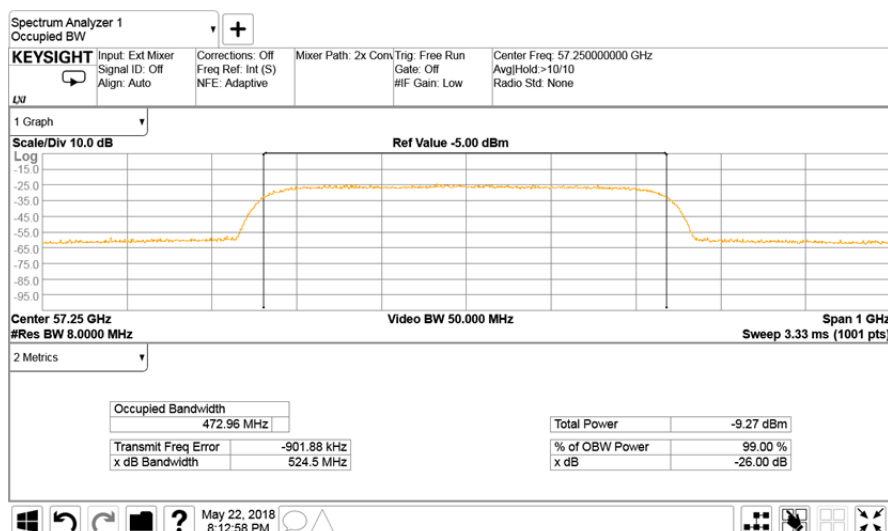


HERMON LABORATORIES

<b>Test specification: Section 15.215(c), Occupied bandwidth</b>			
<b>Test procedure:</b> 47 CFR, Section 2.1049, ANSI C63.10, Section 9.3			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 19-Jun-18 - 27-Jun-18			
<b>Temperature:</b> 24.2 °C	<b>Relative Humidity:</b> 48 %	<b>Air Pressure:</b> 1009 hPa	<b>Power:</b> -48 VDC
<b>Remarks:</b>			

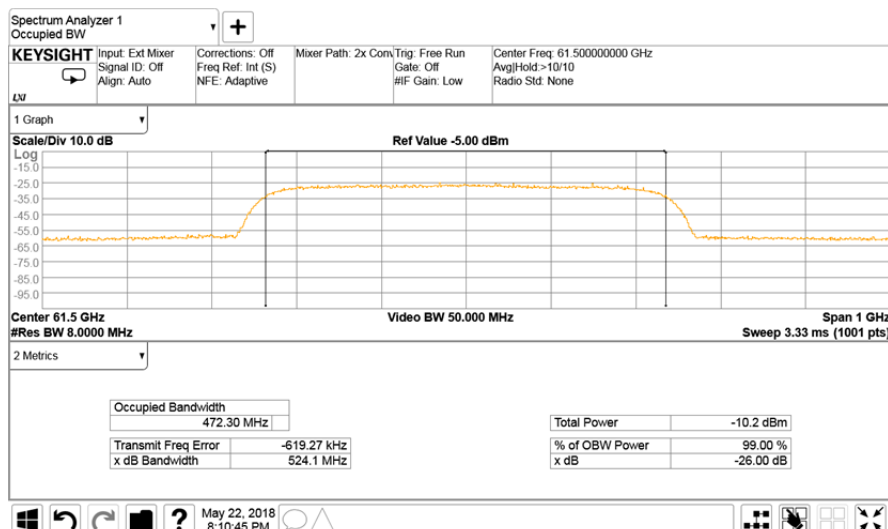
Plot 7.2.85 Occupied bandwidth test result at Low frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	500 MHz
at low frequency	57250 MHz



Plot 7.2.86 Occupied bandwidth test result at Mid frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	500 MHz
at mid frequency	61500 MHz







HERMON LABORATORIES

Test specification:		Section 15.215(c), Occupied bandwidth	
Test procedure:		47 CFR, Section 2.1049, ANSI C63.10, Section 9.3	
Test mode:		Verdict: PASS	
Date(s):			
19-Jun-18 - 27-Jun-18			
Temperature: 24.2 °C	Relative Humidity: 48 %	Air Pressure: 1009 hPa	Power: -48 VDC
Remarks:			

Plot 7.2.87 Occupied bandwidth test result at High frequency

MODULATION:	64QAM
EMISSION BANDWIDTH:	500 MHz
at High frequency	65750 MHz

