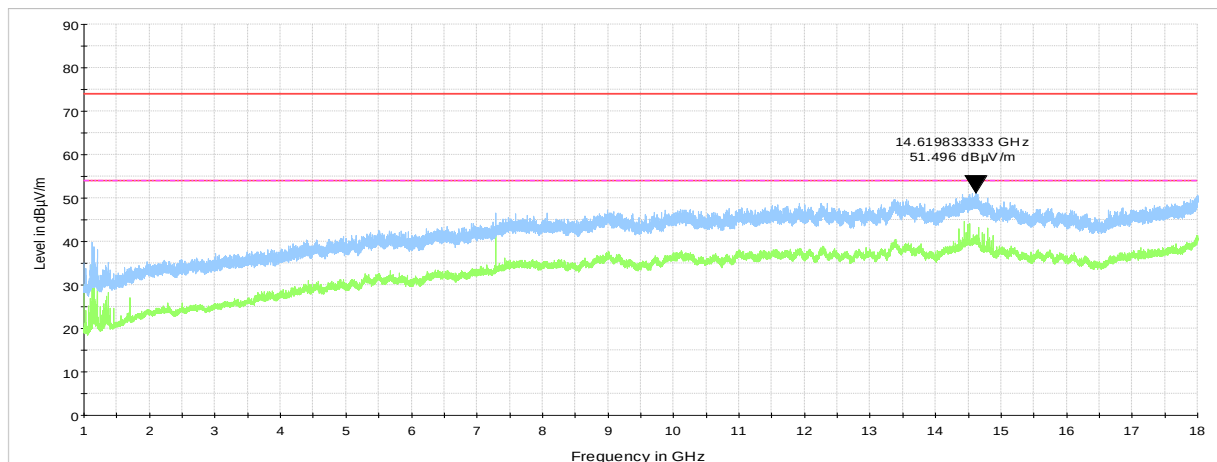




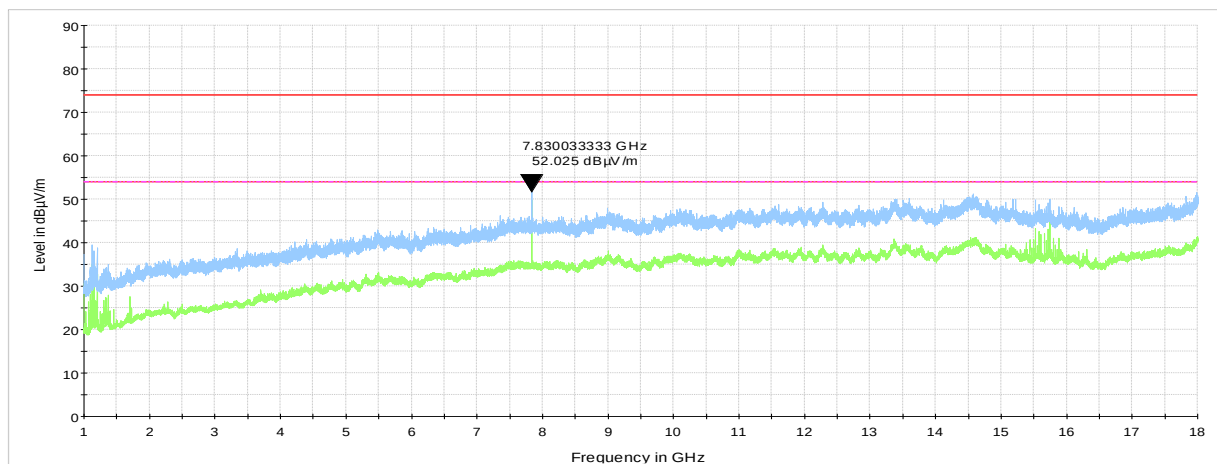
Test specification:		FCC Section 15.255(d)(2), RSS-210 section J.3, Out of band radiated emissions below 40 GHz	
Test procedure:		47 CFR, Section 2.1053; ANSI C63.10, Section 9.13	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.3.7 Radiated emission measurements from 1000 to 18000 MHz at low frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)

**Plot 7.3.8 Radiated emission measurements from 1000 to 18000 MHz at mid frequency**

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)





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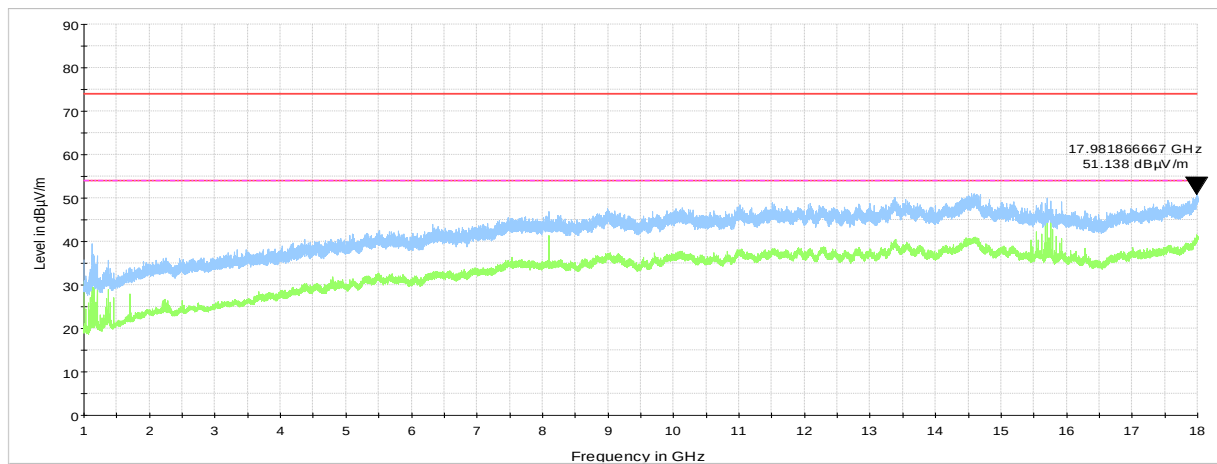
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(2), RSS-210 section J.3, Out of band radiated emissions below 40 GHz	
Test procedure:		47 CFR, Section 2.1053; ANSI C63.10, Section 9.13	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.3.9 Radiated emission measurements from 1000 to 18000 MHz at high frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)

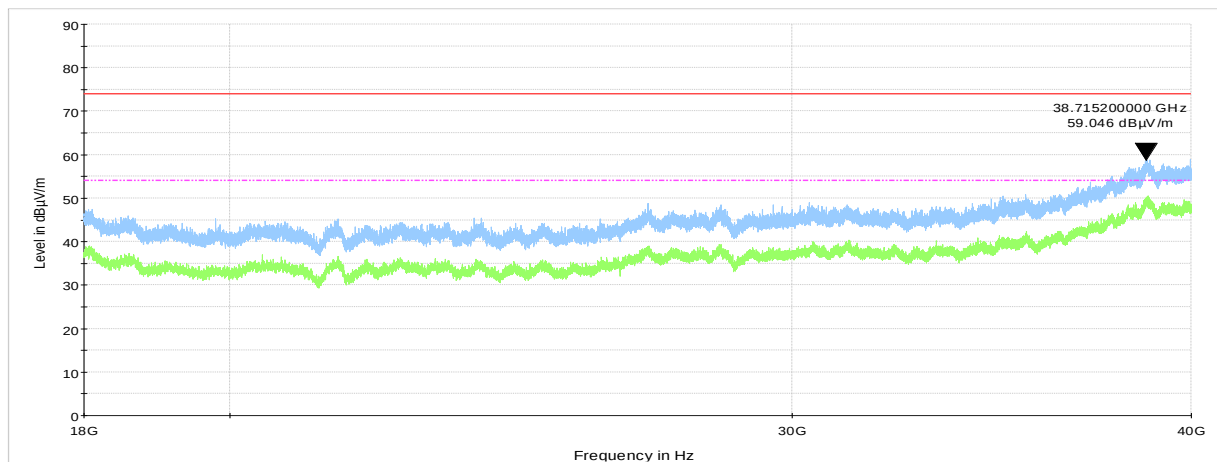




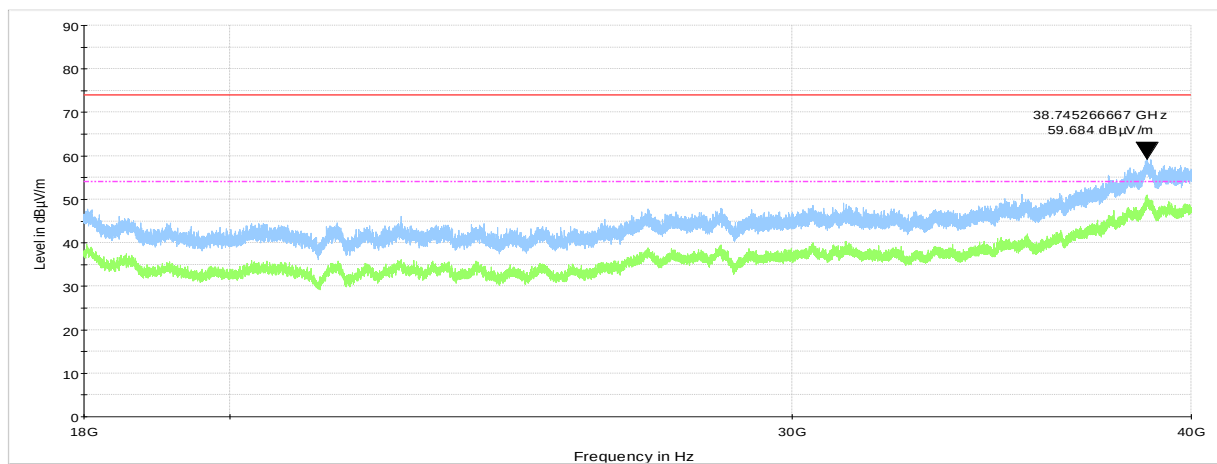
Test specification:		FCC Section 15.255(d)(2), RSS-210 section J.3, Out of band radiated emissions below 40 GHz	
Test procedure:		47 CFR, Section 2.1053; ANSI C63.10, Section 9.13	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.3.10 Radiated emission measurements from 18000 to 40000 MHz at low frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)

**Plot 7.3.11 Radiated emission measurements from 18000 to 40000 MHz at mid frequency**

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)





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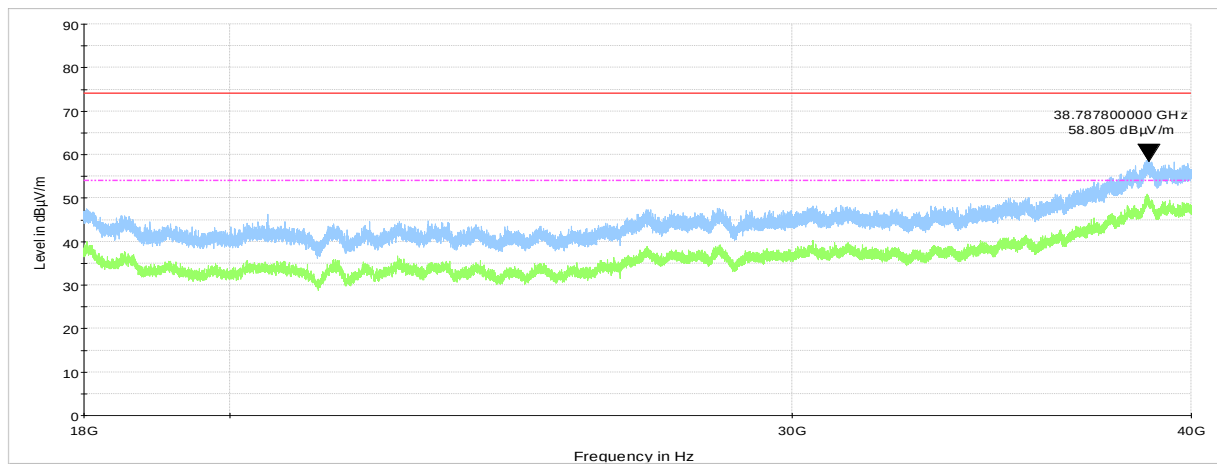
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(2), RSS-210 section J.3, Out of band radiated emissions below 40 GHz	
Test procedure:		47 CFR, Section 2.1053; ANSI C63.10, Section 9.13	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.3.12 Radiated emission measurements from 18000 to 40000 MHz at high frequency

TEST SITE: Semi anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
EUT POSITION: Typical (Vertical)





Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Verdict: PASS	
Date(s):			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

7.4 Out of band radiated emissions above 40 GHz up to 200 GHz

7.4.1 General

This test was performed to measure radiated spurious emissions from the EUT. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Spurious emission field strength limits

Frequency, GHz	Power density at 3 m distance pW/cm ²	Distance, m	Field strength dB(μV/m)*, peak	Field strength dB(μV/m)*, average
40 – 220	90.0	3.0	105.30	85.30
75 - 110	90.0	0.50	120.90**	100.90**
110 - 140	90.0	0.05	140.90**	120.90**
140 - 200	90.0	0.01	154.80**	134.80**

*- The limit is provided in average values.

**-. The limit for 1 m and other test distance was calculated using the inverse distance extrapolation factor as follows:

for far field: $\text{Lim}_{S_2} = \text{Lim}_{S_1} + 20 \log (S_1/S_2)$,

where S_1 – standard defined distance in meters;

S_2 – measurement distance in meters (according to ANSI C63.10)

7.4.2 Test procedure for spurious emission field strength measurements

7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and the performance check was conducted.

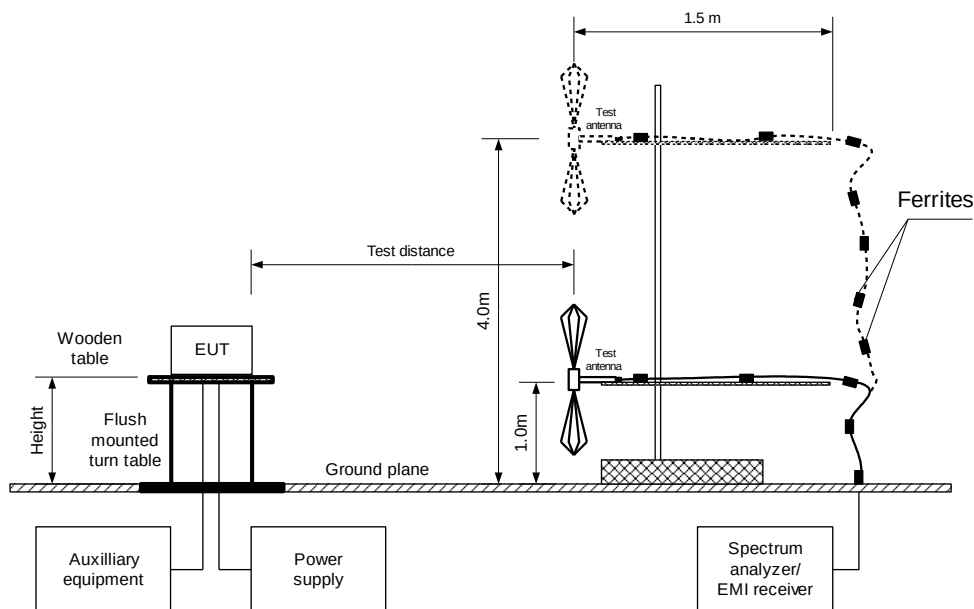
7.4.2.2 The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.

7.4.2.3 The test results are given in Table 7.4.2 and shown in the associated plots.



Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz			
Test procedure: ANSI C63.10, Sections 9.9, 9.12			
Test mode: Compliance		Verdict: PASS	
Date(s): 04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Figure 7.4.1 Spurious emission field strength above 40 GHz test set up





Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz			
Test procedure: ANSI C63.10, Sections 9.9, 9.12			
Test mode: Compliance		Verdict: PASS	
Date(s): 04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Table 7.4.2 Spurious emission field strength test results

TEST DISTANCE:	0.05 - 3 m
EUT POSITION:	Typical (Vertical)
MODULATION:	16QAM
TRANSMITTER OUTPUT POWER:	Maximum
INVESTIGATED FREQUENCY RANGE:	40 – 200 GHz
RESOLUTION BANDWIDTH:	1000 kHz
VIDEO BANDWIDTH:	≥ Resolution bandwidth
TEST ANTENNA TYPE:	Standard Gain Horn 24dB (40-60 GHz) Standard Gain Horn 24dB (50-75 GHz) Standard Gain Horn 24dB (75-110 GHz) Standard Gain Horn 24dB (90-140 GHz) Standard Gain Horn 24dB (140-220 GHz)

Frequency, MHz	Antenna		Azimuth, degrees*	Peak field strength(VBW=3 MHz)			Average field strength(VBW=10 kHz)			Verdict
	Polariz.	Height, m		Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	
Low carrier frequency										
52052.5	Vert	1.5	5	101.34	105.3	-3.96	79.12	85.3	-6.18	Pass
Mid carrier frequency										
53052.5	Vert	1.5	5	86.44	105.3	-18.86	84.01	85.3	-1.29	Pass
High carrier frequency										
56802.5	Vert	1.5	5	103.54	105.3	-1.76	83.62	85.3	-1.68	Pass

*- EUT front panel refer to 0 degrees position of turntable.

**- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

HL 3305	HL 5986	HL 2909	HL 3433	HL 3434	HL 3235	HL 0770	HL 0772
HL 3306	HL 4023	HL 0747	HL 3536				

Full description is given in Appendix A.



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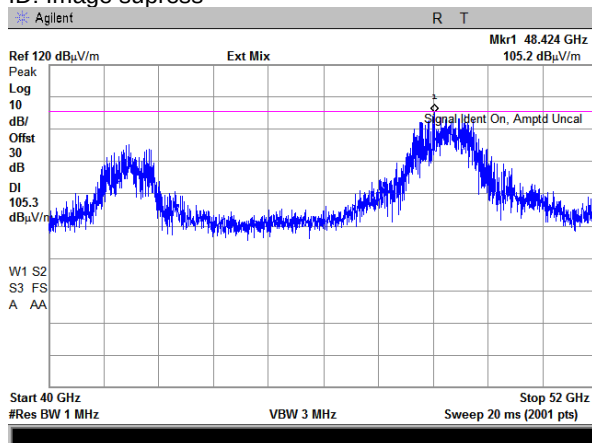
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

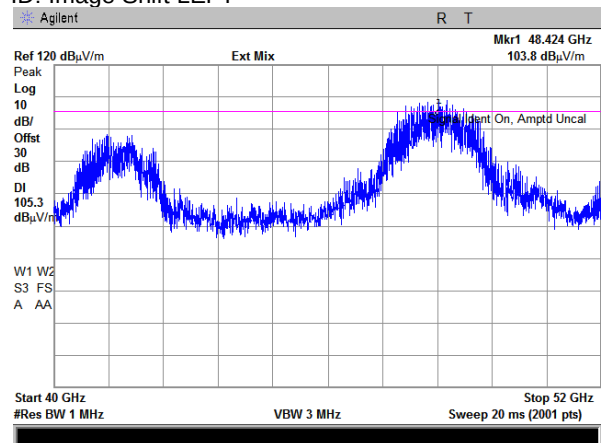
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.1 Spurious emission measurements in 40 – 52 GHz range

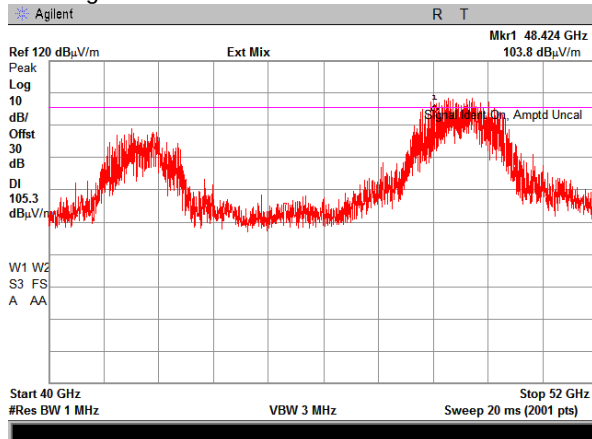
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:
ID: Image suppress



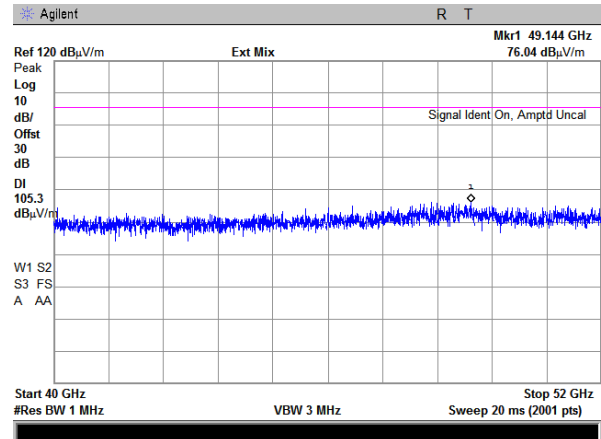
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 3 MHz
58320 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW





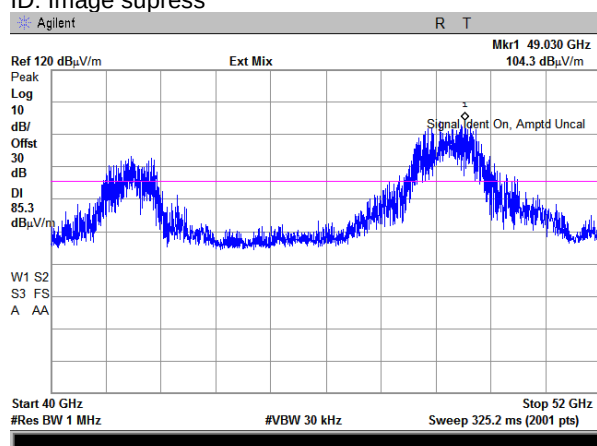
HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3
Date of Issue: 27-Jun-21

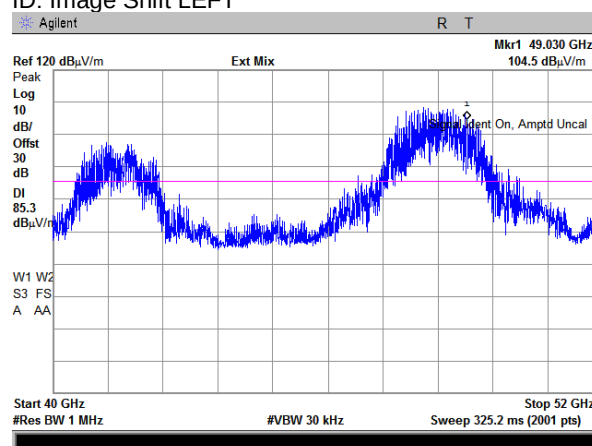
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.2 Spurious emission measurements in 40 – 52 GHz range

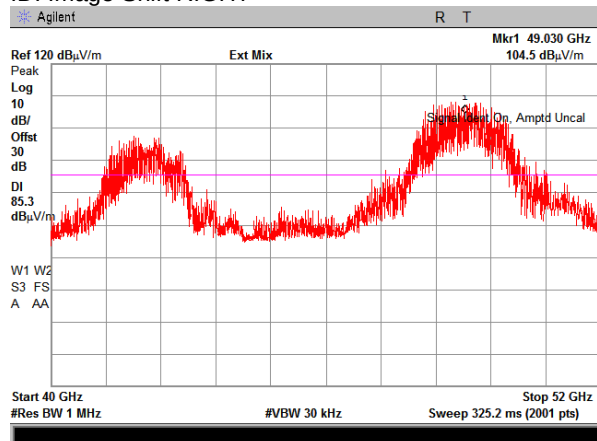
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:
ID: Image supress



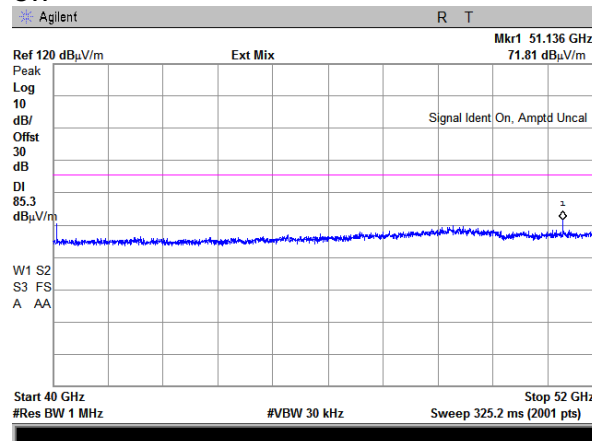
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
58320 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW





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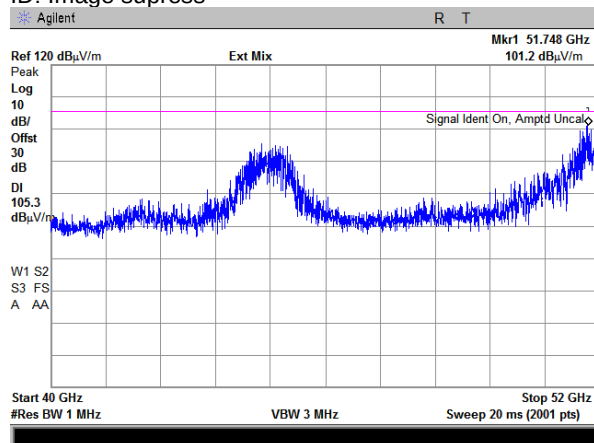
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

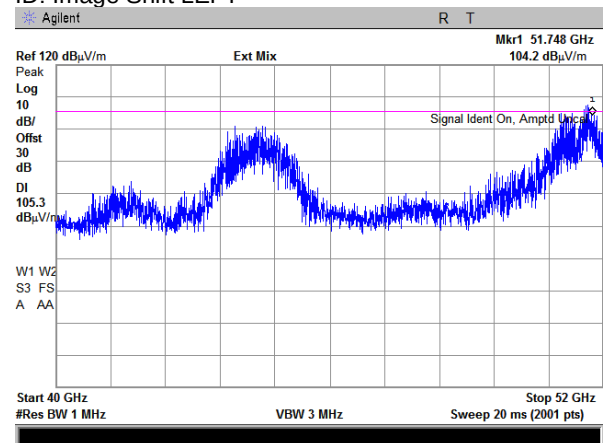
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.3 Spurious emission measurements in 40 – 52 GHz range

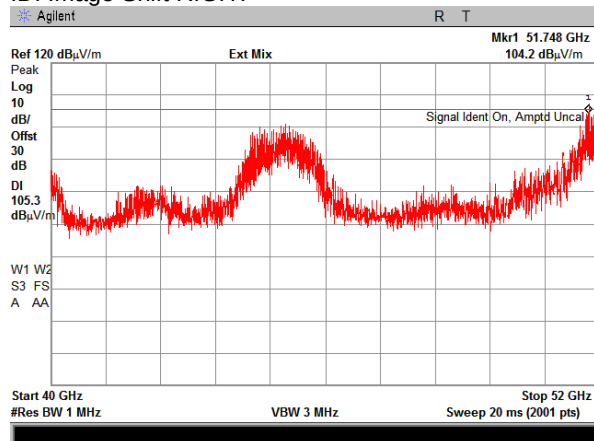
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Mid carrier frequency:
ID: Image suppress



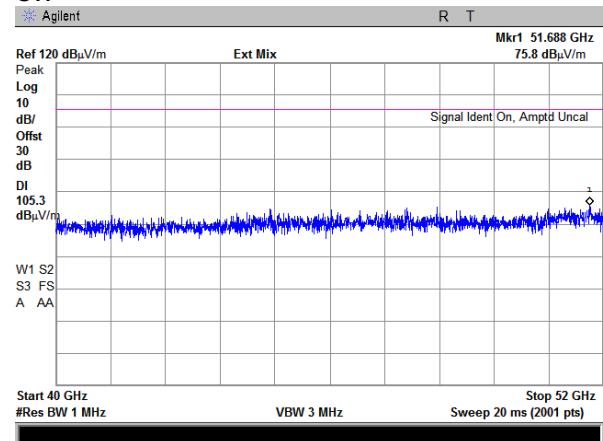
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 3 MHz
62640 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW





HERMON LABORATORIES

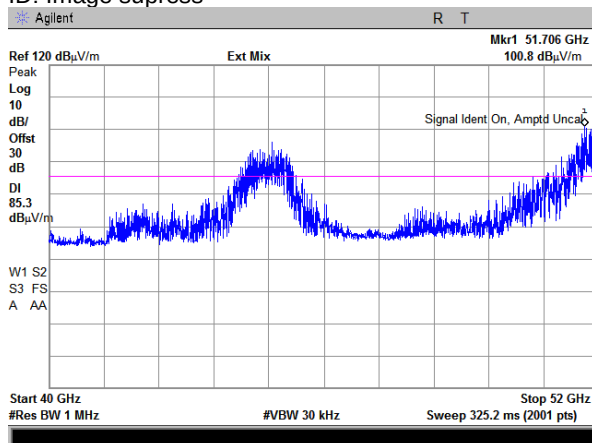
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Date of Issue: 27-Jun-21

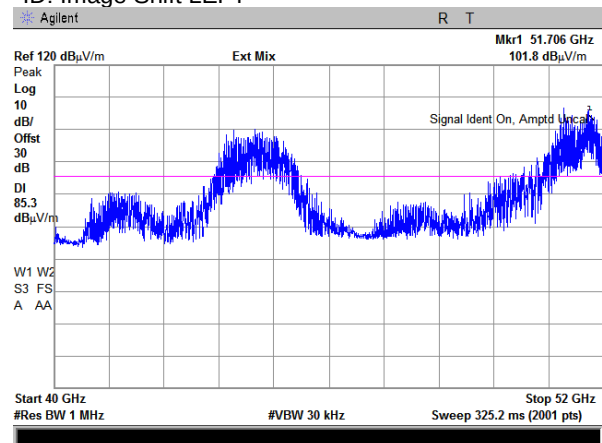
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Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.4 Spurious emission measurements in 40 – 52 GHz range

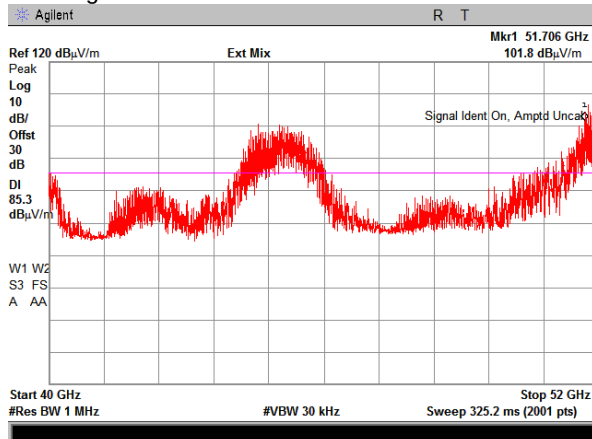
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Mid carrier frequency:
ID: Image supress



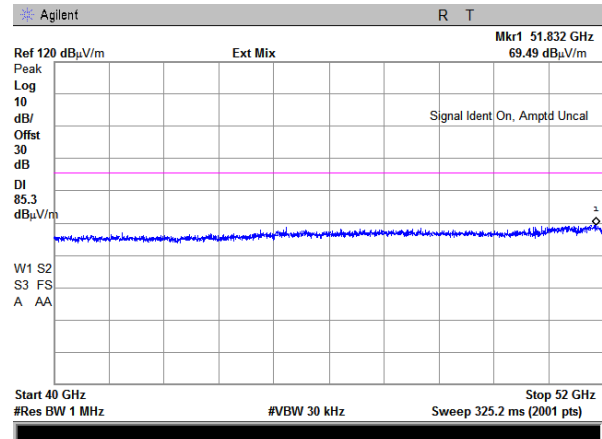
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
62640 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW





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Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.5 Spurious emission measurements in 40 – 52 GHz range

TEST SITE:

OATS

TEST DISTANCE:

3 m

ANTENNA POLARIZATION:

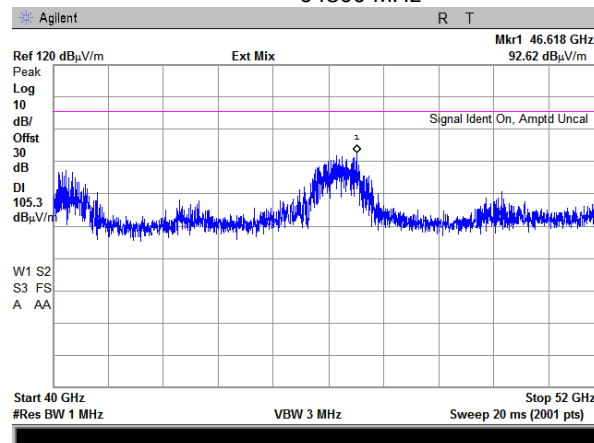
Vertical and Horizontal

DETECTOR: Peak

RBW = 1 MHz; VBW = 3 MHz

High carrier frequency:

64800 MHz





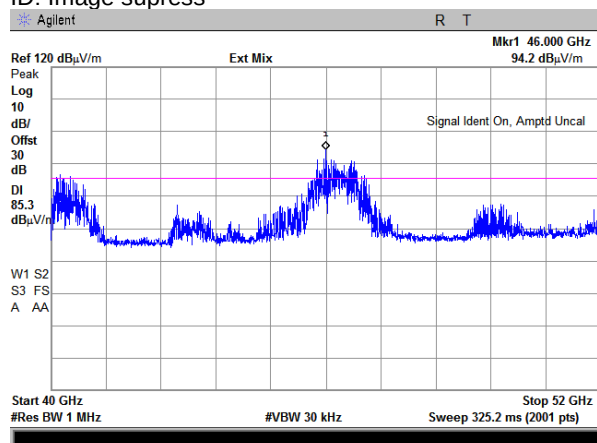
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Report ID: SIKRAD_FCC.42253_Rev3
Date of Issue: 27-Jun-21

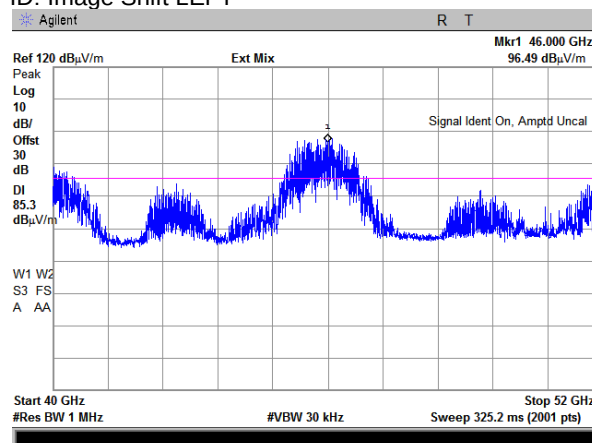
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Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
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Remarks:			

Plot 7.4.6 Spurious emission measurements in 40 – 52 GHz range

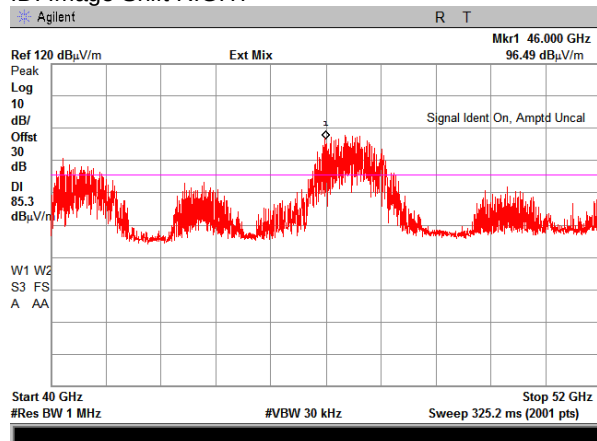
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
High carrier frequency:
ID: Image supress



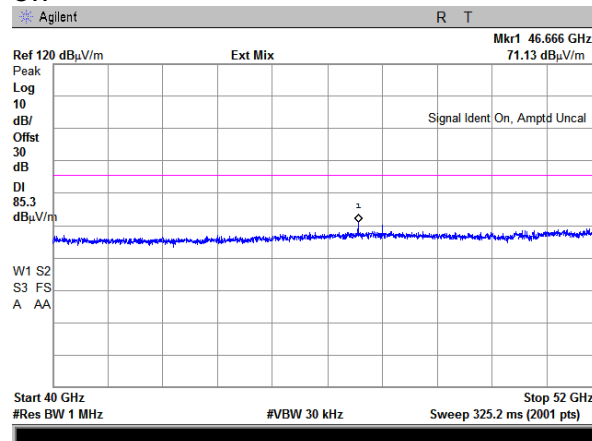
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
64800 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.7 Spurious emission measurements in 52 – 57 GHz range

TEST SITE:

OATS

TEST DISTANCE:

3 m

ANTENNA POLARIZATION:

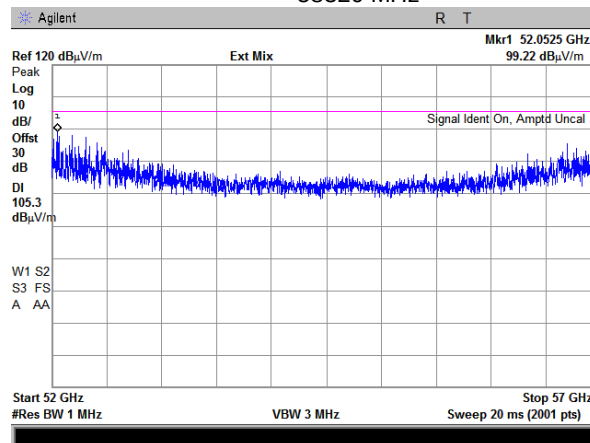
Vertical and Horizontal

DETECTOR: Peak

RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:

58320 MHz





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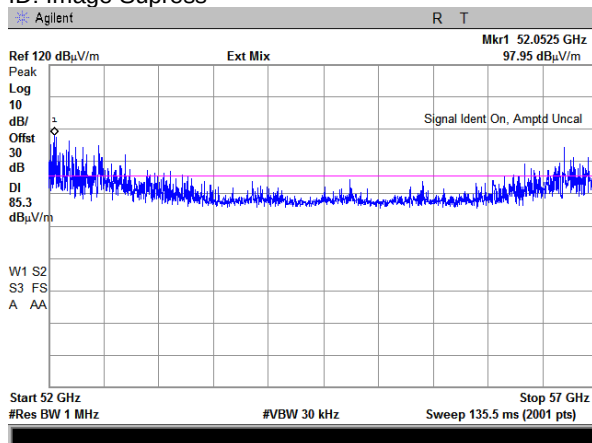
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Date of Issue: 27-Jun-21

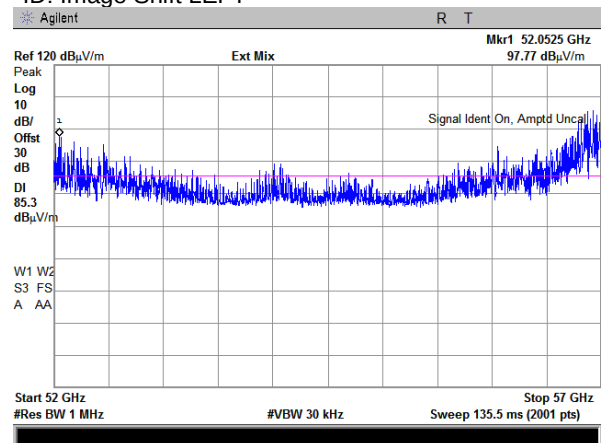
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Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.8 Spurious emission measurements in 52 – 57 GHz range

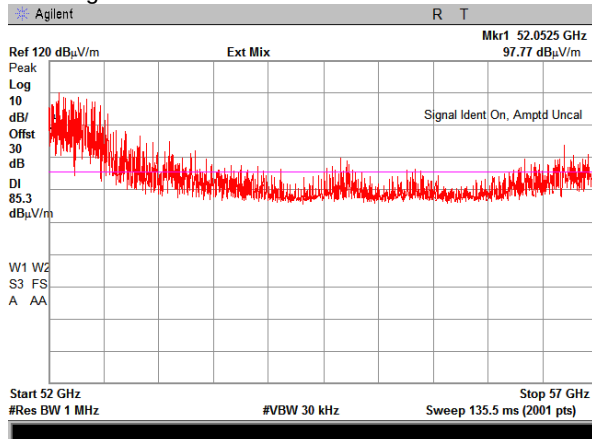
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:
ID: Image Supress



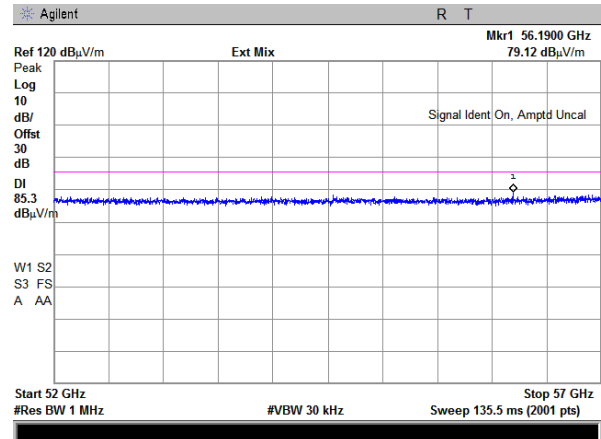
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
58320 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





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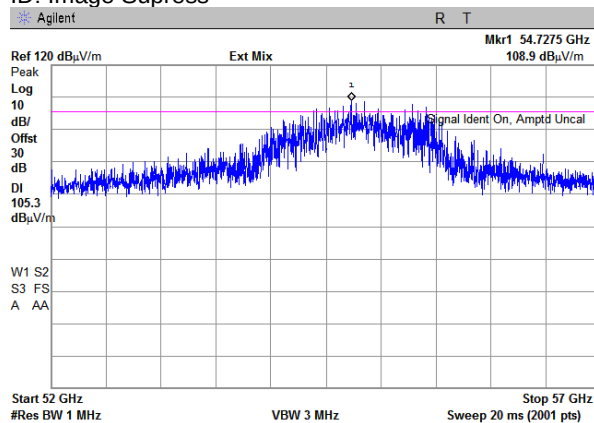
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Date of Issue: 27-Jun-21

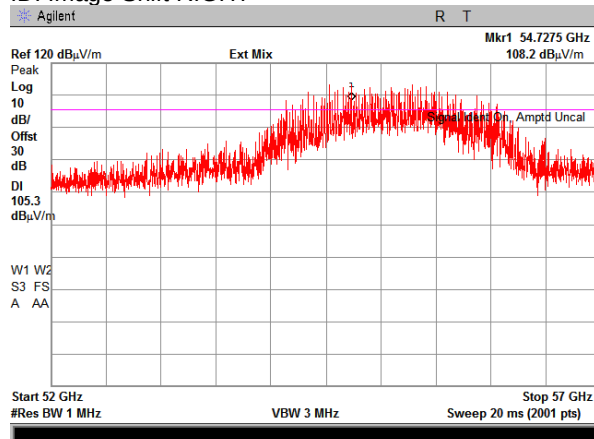
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.9 Spurious emission measurements in 52 – 57 GHz range

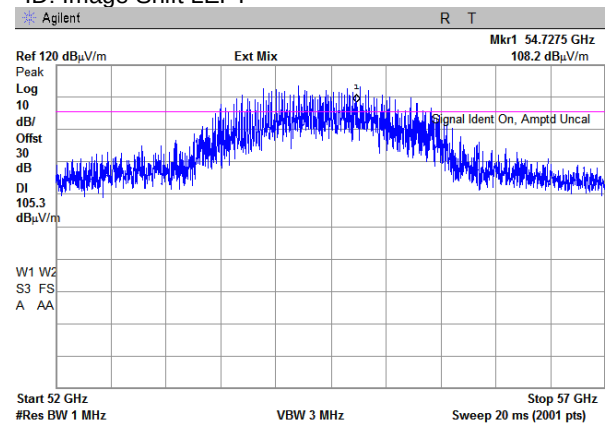
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Mid carrier frequency:
ID: Image Supress



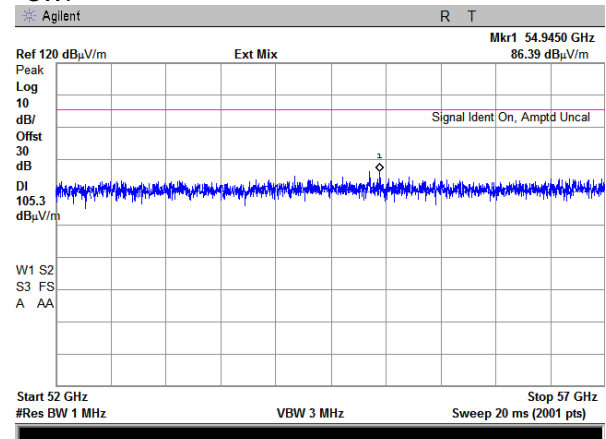
ID: Image Shift RIGHT



OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 3 MHz
62640 MHz
ID: Image Shift LEFT



CW:





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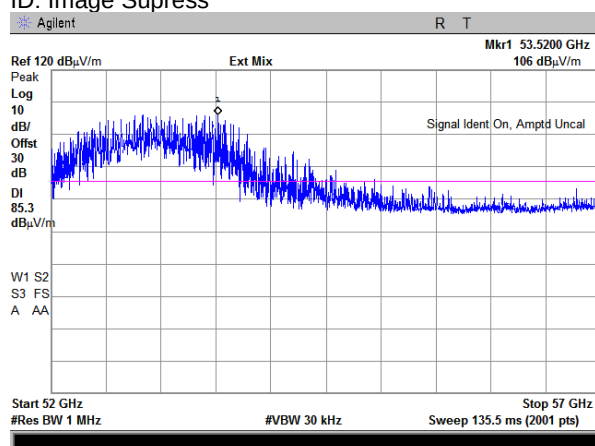
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

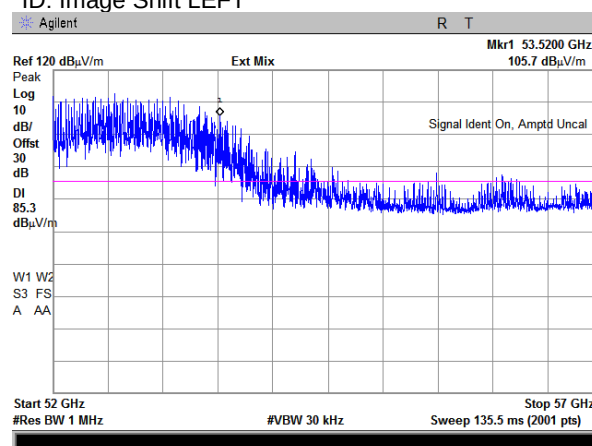
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.10 Spurious emission measurements in 52 – 57 GHz range

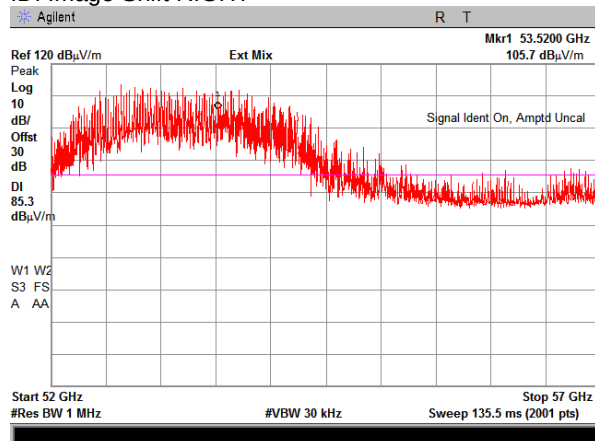
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Mid carrier frequency:
ID: Image Supress



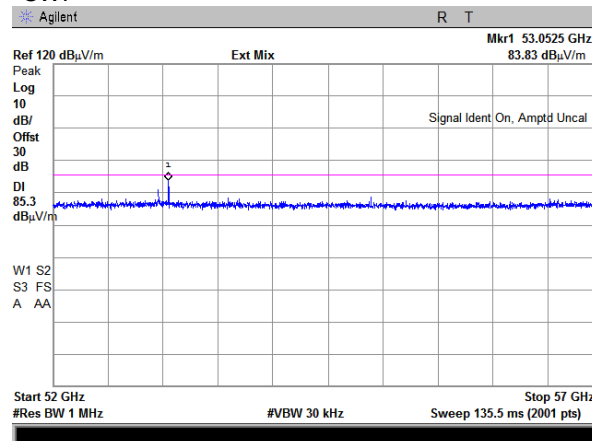
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
62640 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.11 Spurious emission measurements in 52 – 57 GHz range

TEST SITE:

OATS

TEST DISTANCE:

3 m

ANTENNA POLARIZATION:

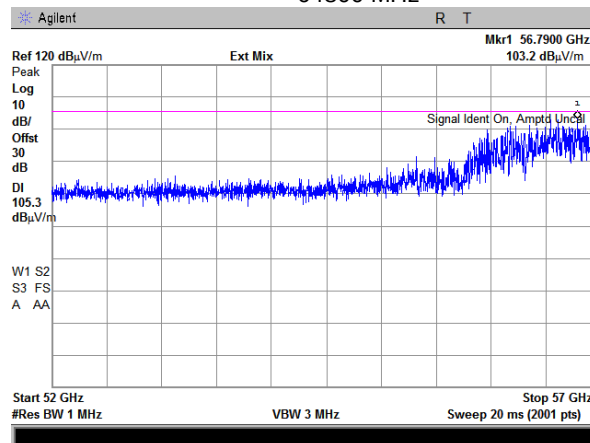
Vertical and Horizontal

DETECTOR: Peak

RBW = 1 MHz; VBW = 3 MHz

High carrier frequency:

64800 MHz





HERMON LABORATORIES

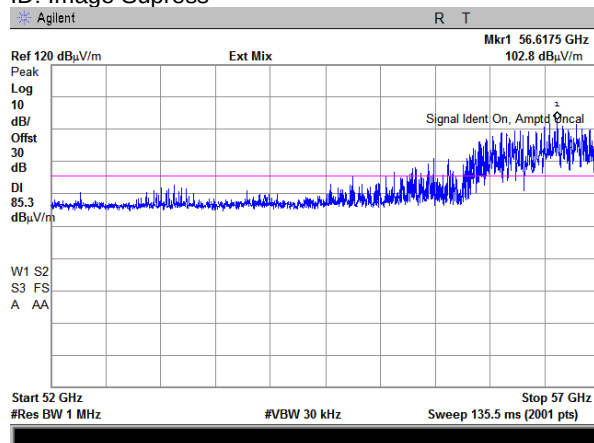
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

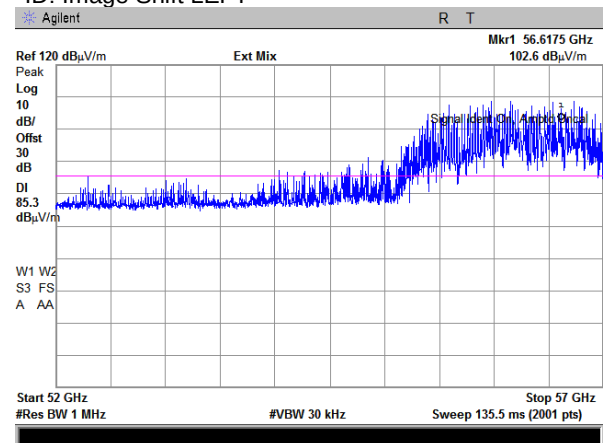
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.12 Spurious emission measurements in 52 – 57 GHz range

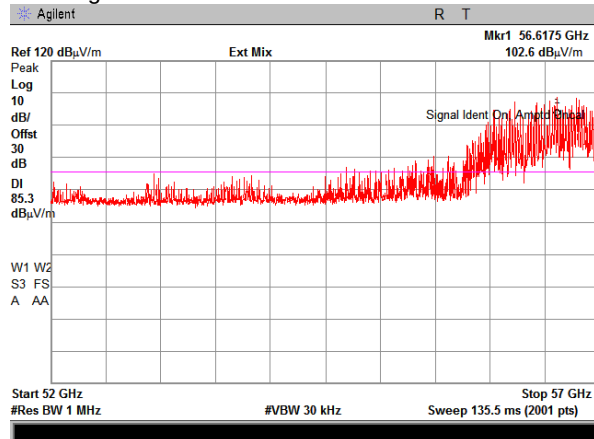
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:
ID: Image Supress



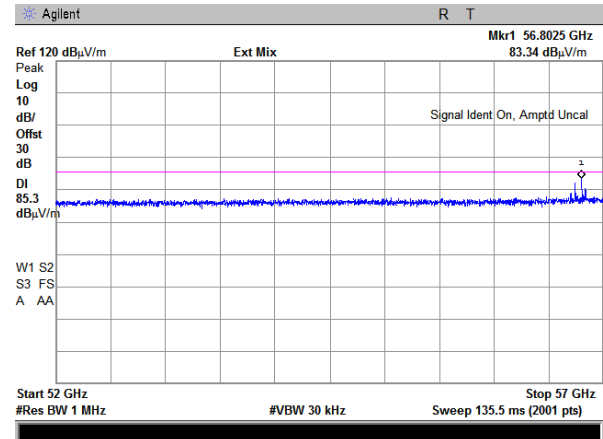
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
58320 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.13 Spurious emission measurements in 71 – 75 GHz range

TEST SITE:

OATS

TEST DISTANCE:

3 m

ANTENNA POLARIZATION:

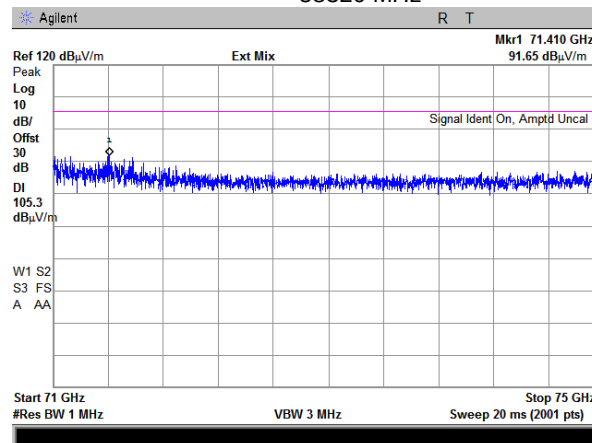
Vertical and Horizontal

DETECTOR: Peak

RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:

58320 MHz





HERMON LABORATORIES

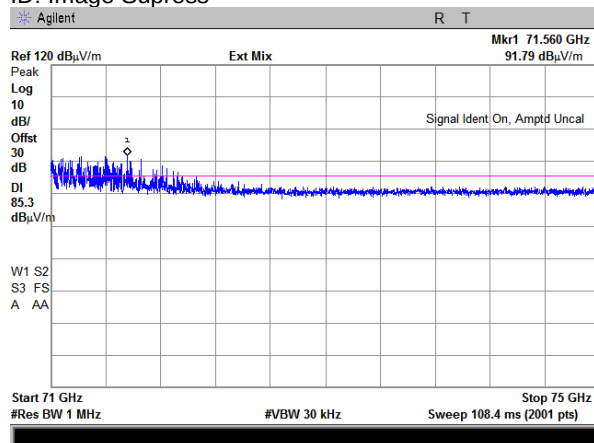
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

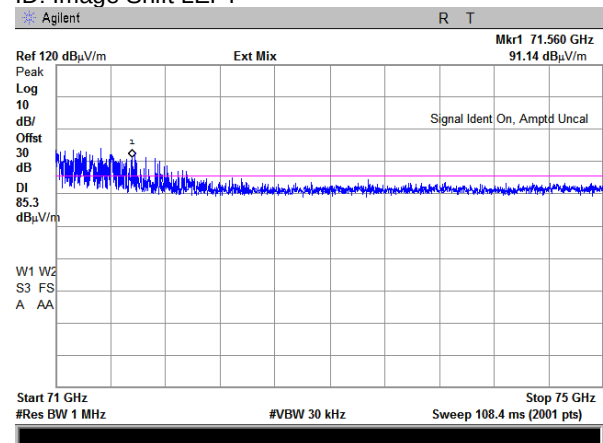
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.14 Spurious emission measurements in 71 – 75 GHz range

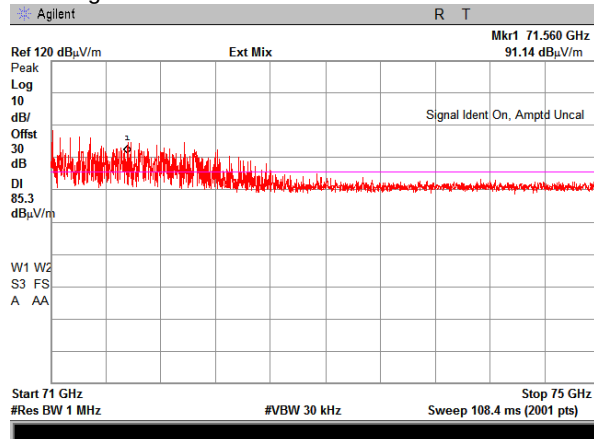
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:
ID: Image Supress



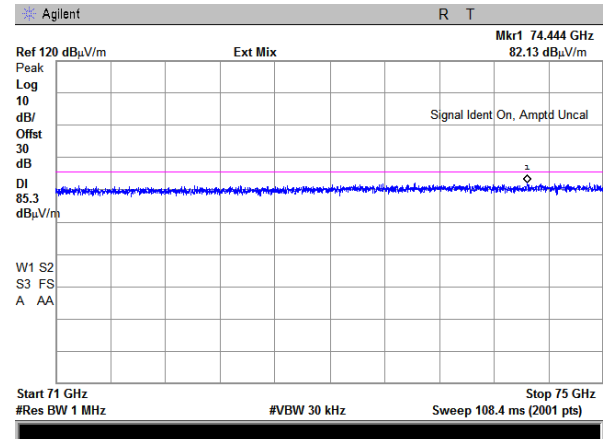
OATS
3 m
Vertical and Horizontal
RBW = 1 MHz; VBW = 30 kHz
58320 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





HERMON LABORATORIES

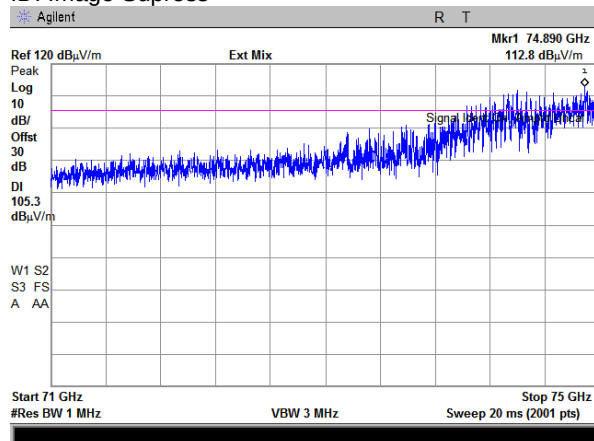
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

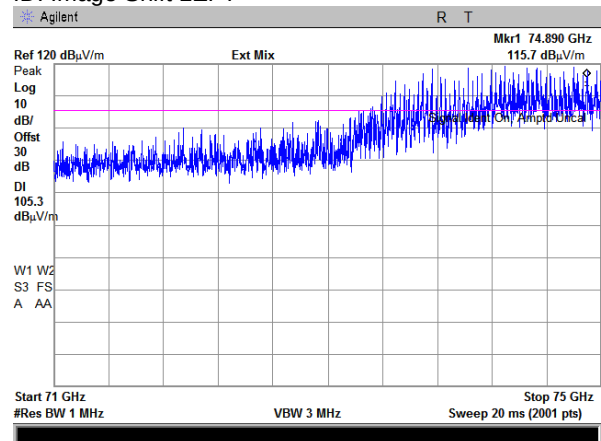
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.15 Spurious emission measurements in 71 – 75 GHz range

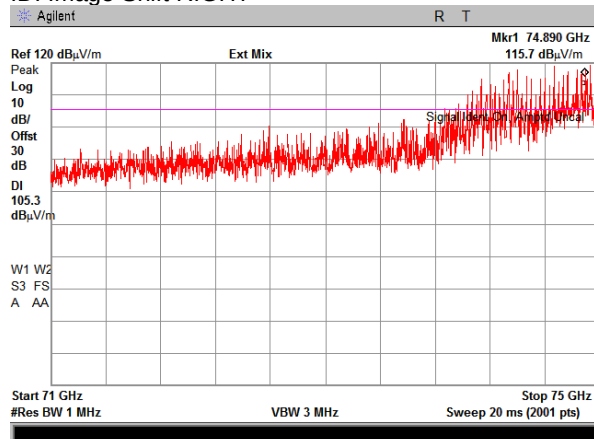
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
Mid carrier frequency:
DETECTOR: Peak
ID: Image Supress



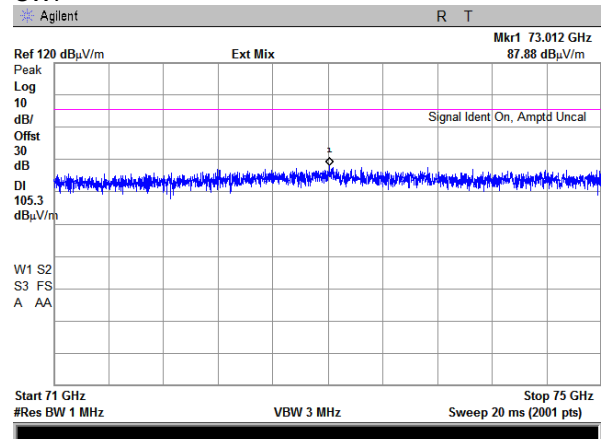
OATS
3 m
Vertical and Horizontal
62640 MHz
RBW = 1 MHz; VBW = 3 MHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





HERMON LABORATORIES

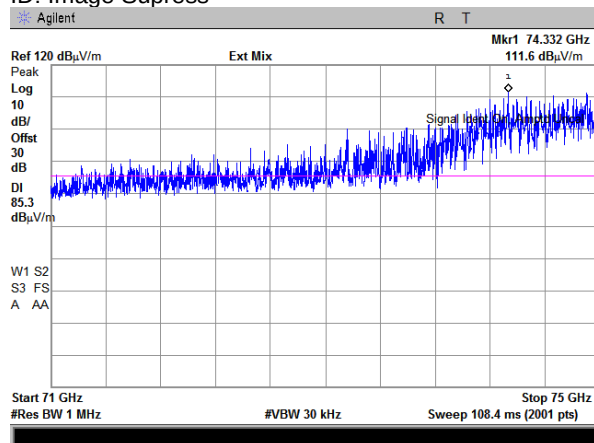
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

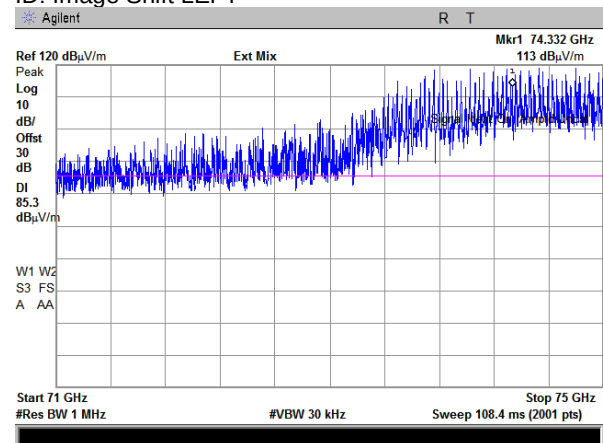
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.16 Spurious emission measurements in 71 – 75 GHz range

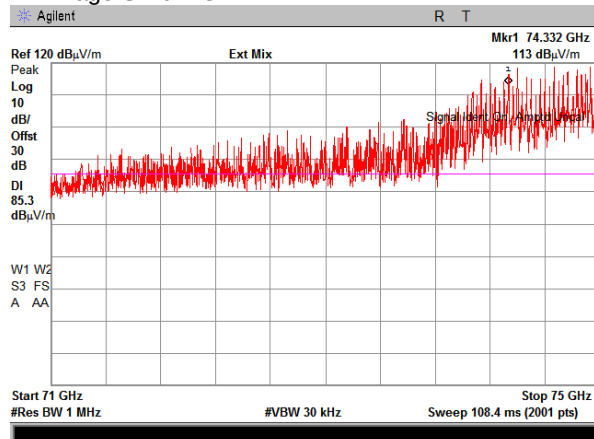
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
Mid carrier frequency:
DETECTOR: Peak
ID: Image Supress



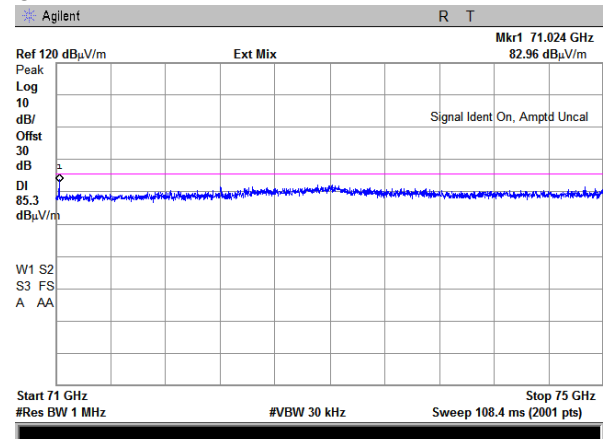
OATS
3 m
Vertical and Horizontal
62640 MHz
RBW = 1 MHz; VBW = 30 kHz
ID: Image Shift LEFT



ID: Image Shift RIGHT



CW:





HERMON LABORATORIES

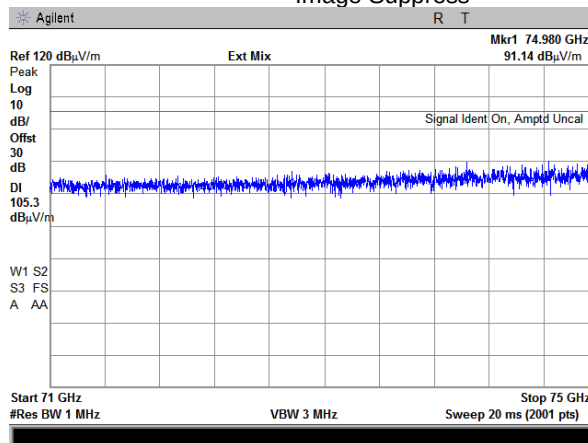
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.17 Spurious emission measurements in 71 – 75 GHz range

TEST SITE: OATS
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
High carrier frequency: 64800 MHz
DETECTOR: Peak
ID: RBW = 1 MHz; VBW = 3 MHz
Image Suppress





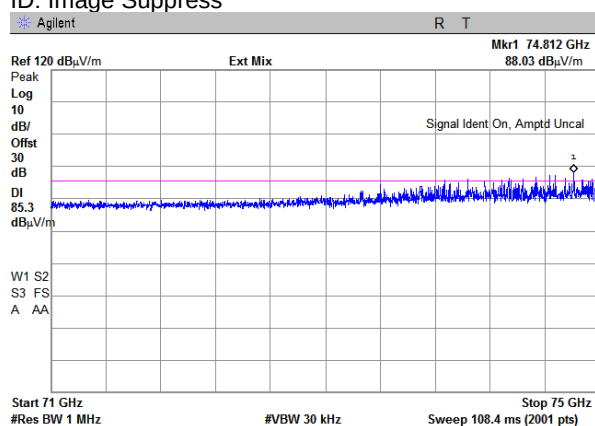
HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3
Date of Issue: 27-Jun-21

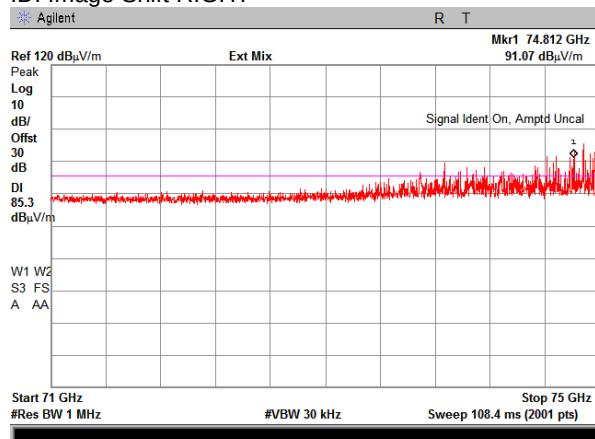
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.18 Spurious emission measurements in 71 – 75 GHz range

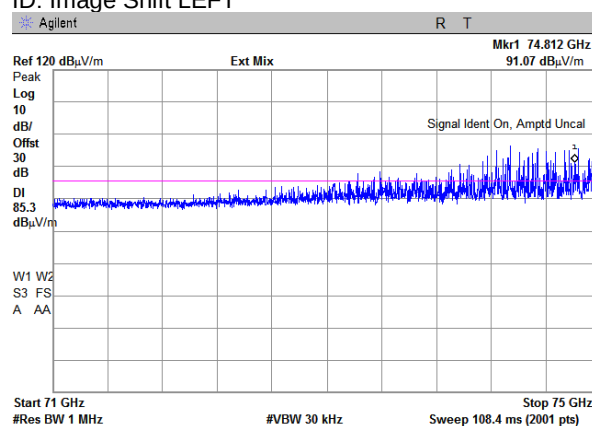
TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
High carrier frequency:
DETECTOR: Peak
ID: Image Suppress



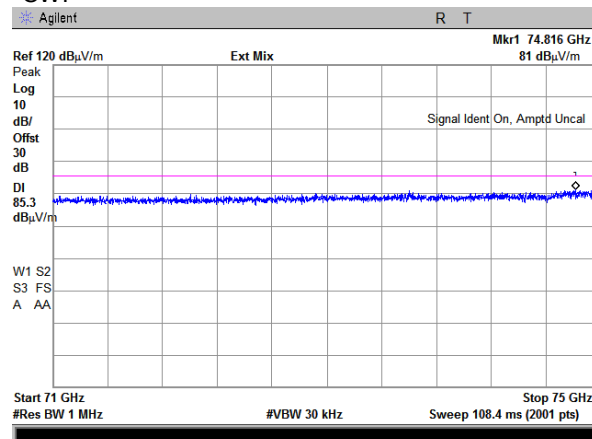
ID: Image Shift RIGHT



OATS
3 m
Vertical and Horizontal
64800 MHz
RBW = 1 MHz; VBW = 30 kHz
ID: Image Shift LEFT



CW:





HERMON LABORATORIES

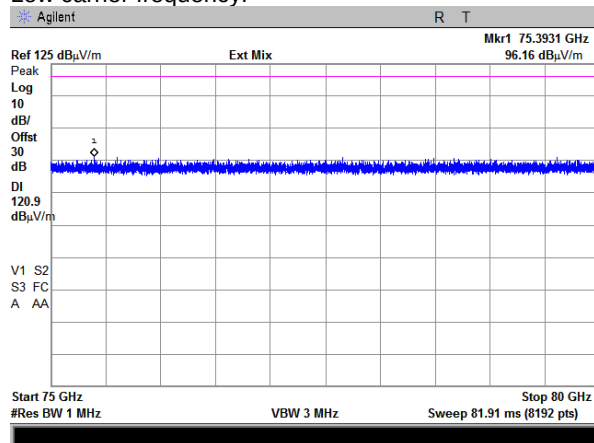
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

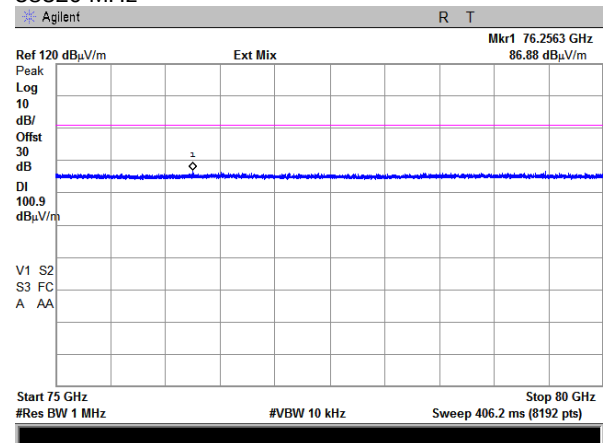
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.19 Spurious emission measurements in 75 – 80 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:

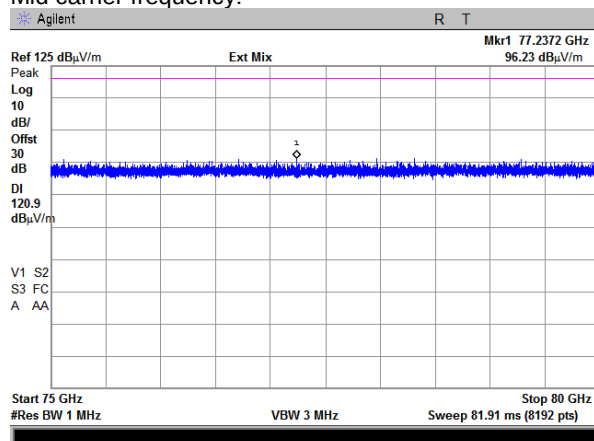


OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz

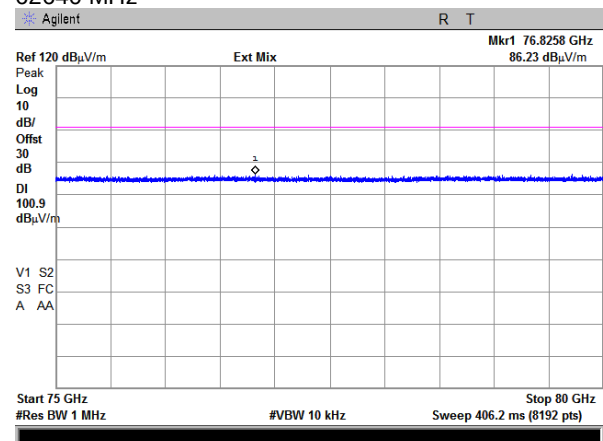


Plot 7.4.20 Spurious emission measurements in 75 – 80 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:



OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
62640 MHz





HERMON LABORATORIES

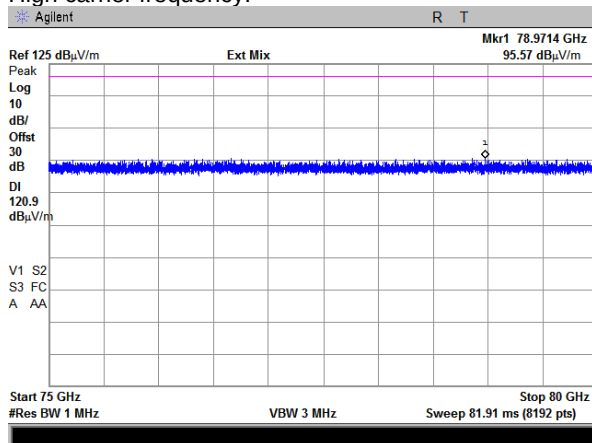
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

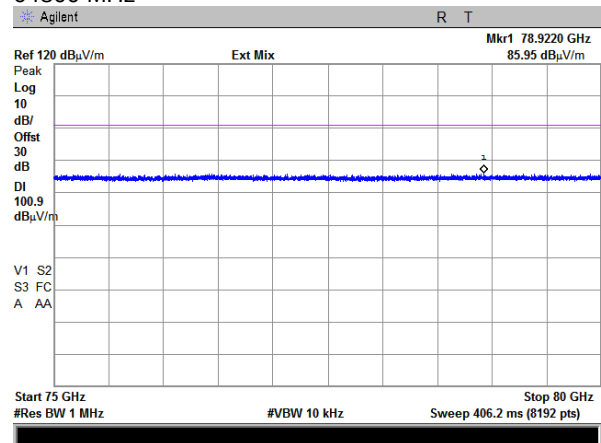
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.21 Spurious emission measurements in 75 – 80 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
High carrier frequency:

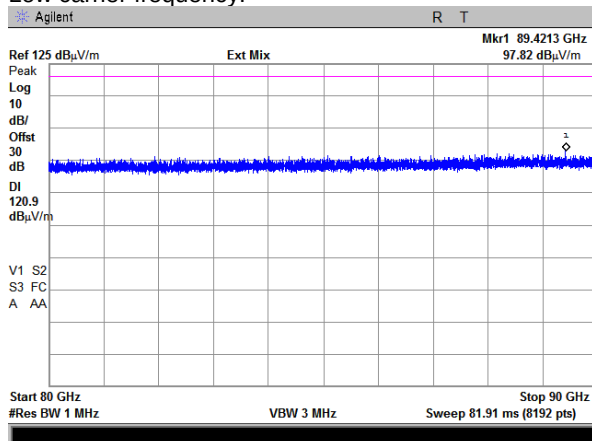


OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
64800 MHz

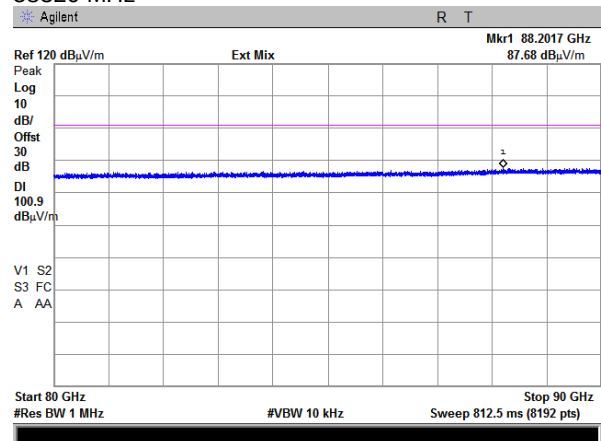


Plot 7.4.22 Spurious emission measurements in 80 – 90 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz





HERMON LABORATORIES

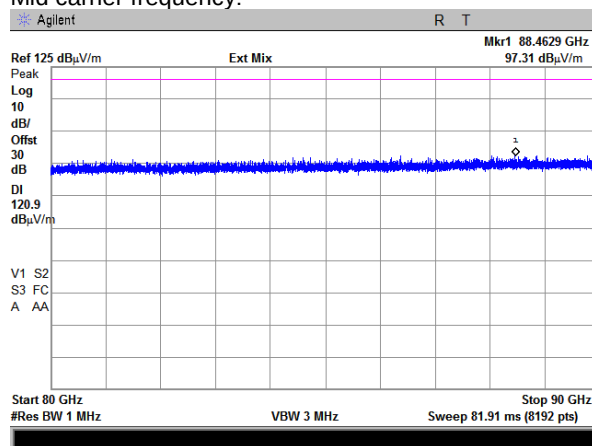
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

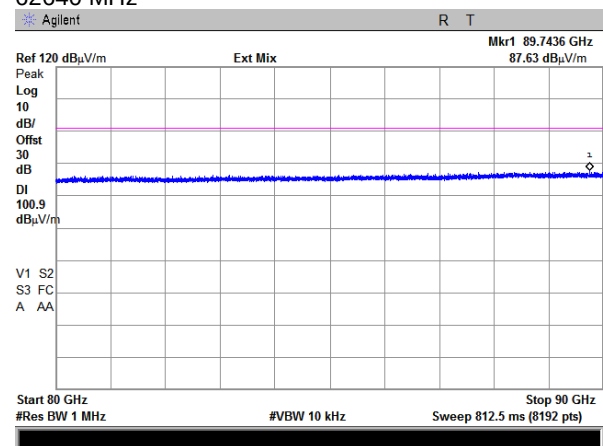
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.23 Spurious emission measurements in 80 – 90 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:

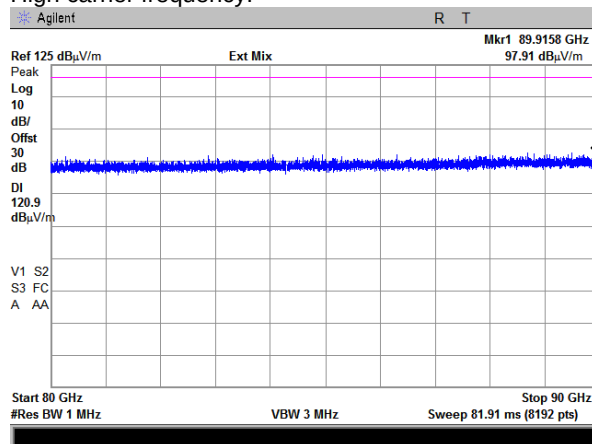


OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
62640 MHz

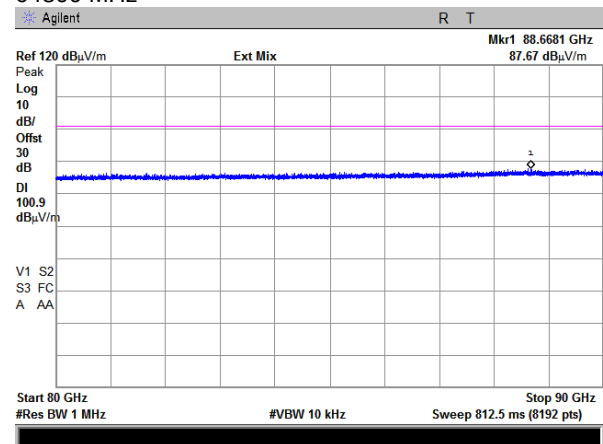


Plot 7.4.24 Spurious emission measurements in 80 – 90 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
High carrier frequency:



OATS
0.5 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
64800 MHz





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.25 Spurious emission measurements in 90 - 100 GHz range

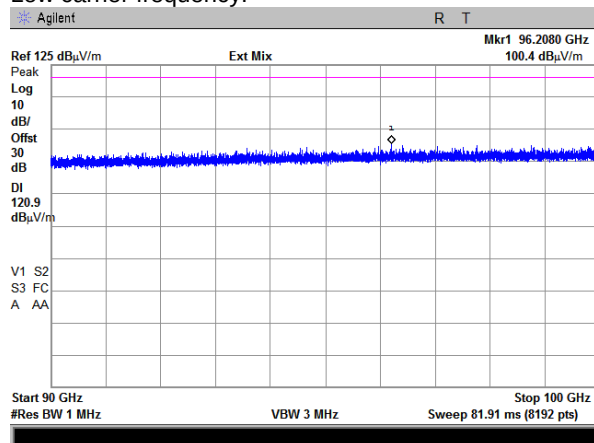
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:



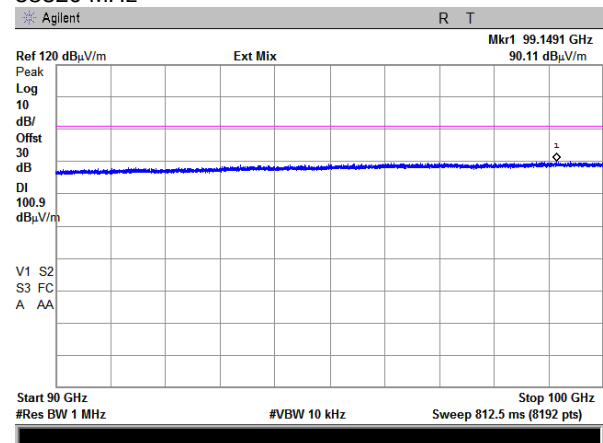
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

58320 MHz



Plot 7.4.26 Spurious emission measurements in 90 - 100 GHz range

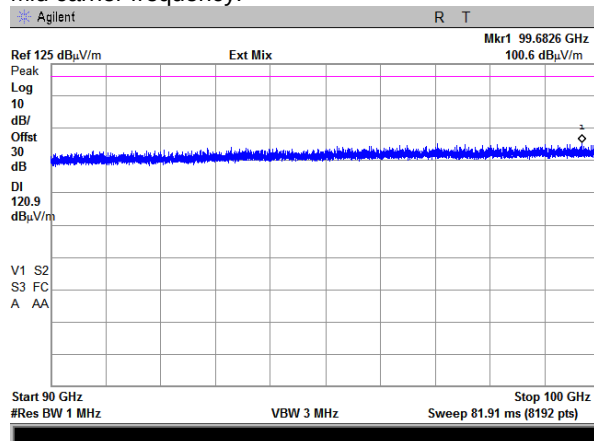
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Mid carrier frequency:



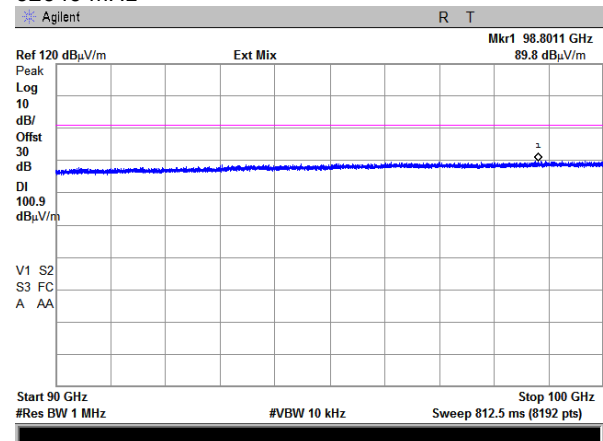
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

62640 MHz





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.27 Spurious emission measurements in 90 - 100 GHz range

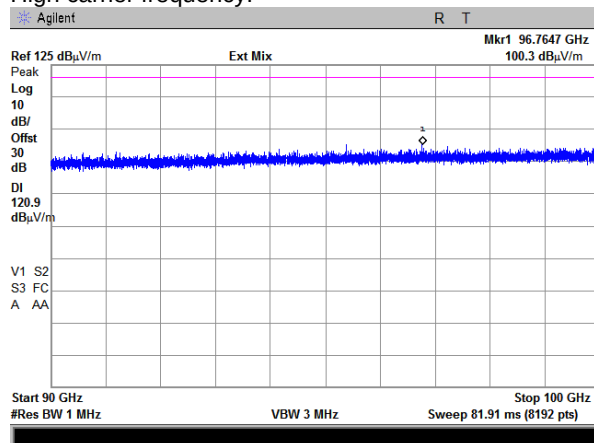
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

High carrier frequency:



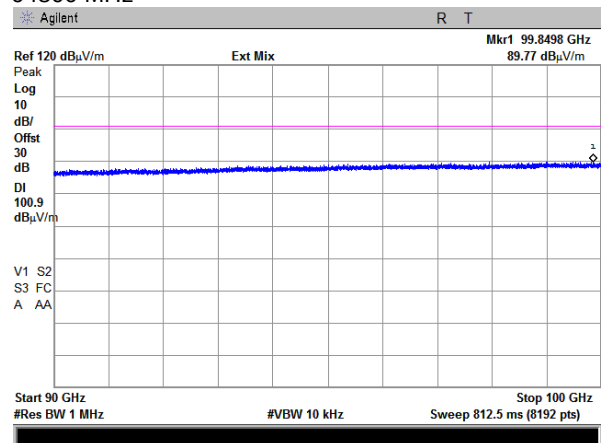
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

64800 MHz



Plot 7.4.28 Spurious emission measurements in 100 - 110 GHz range

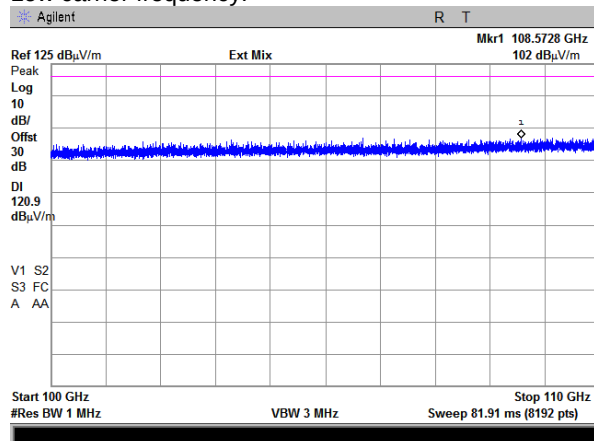
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:



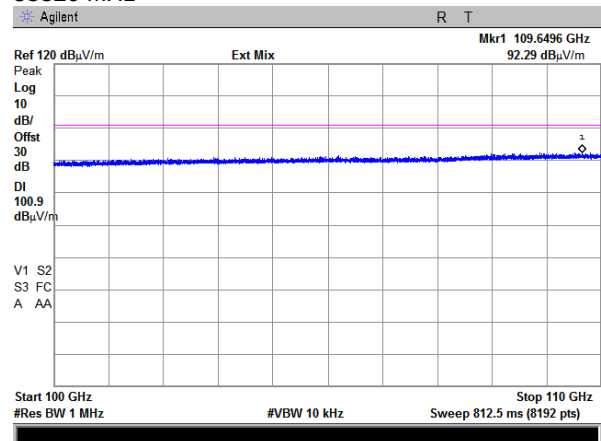
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

58320 MHz





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Verdict: PASS	
Date(s):			
04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.29 Spurious emission measurements in 100 - 110 GHz range

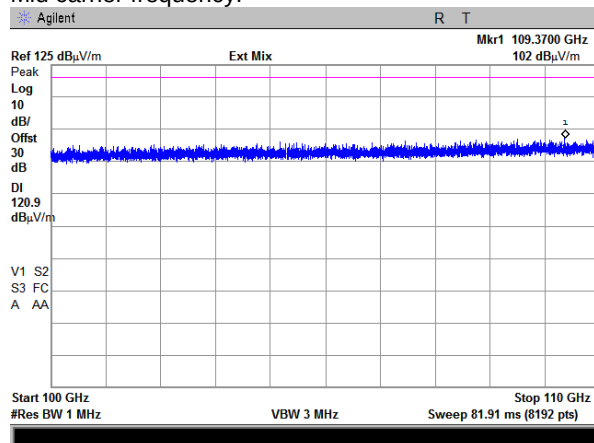
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Mid carrier frequency:



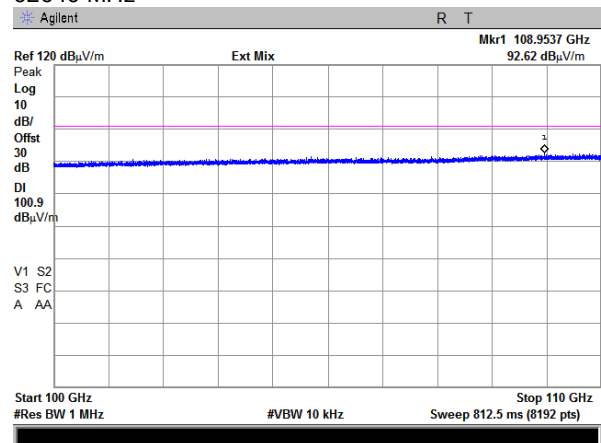
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

62640 MHz



Plot 7.4.30 Spurious emission measurements in 100 - 110 GHz range

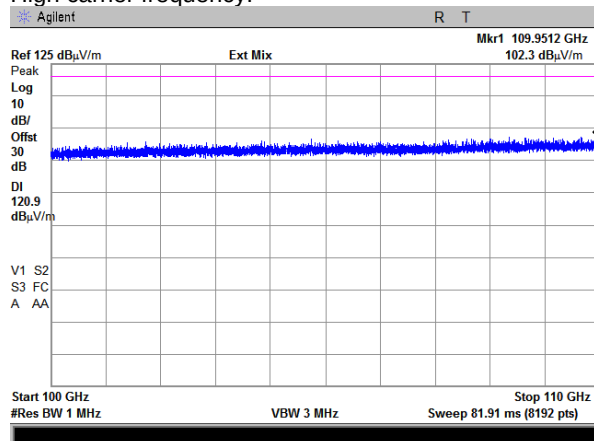
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

High carrier frequency:



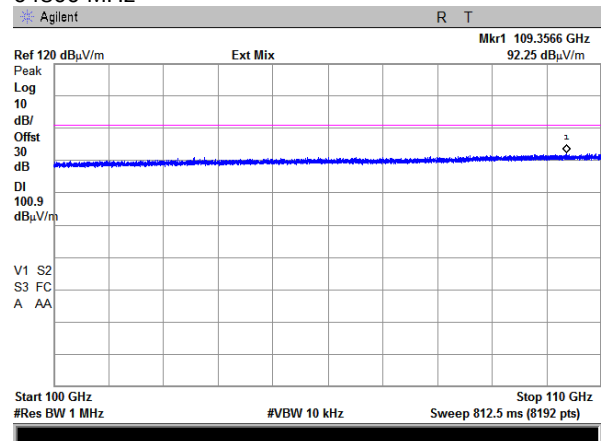
OATS

0.5 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

64800 MHz





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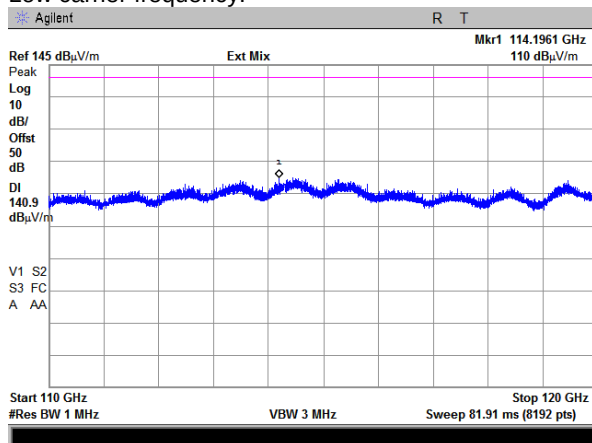
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

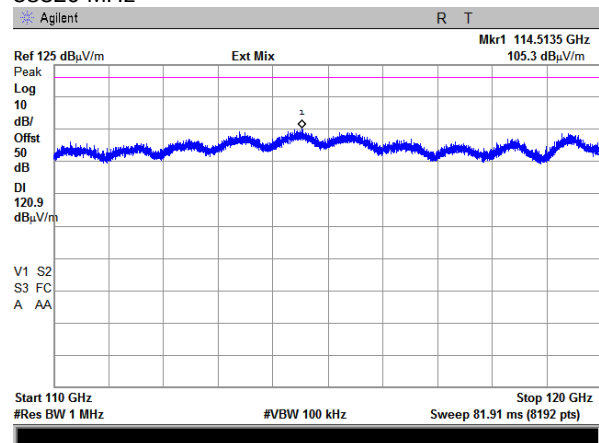
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.31 Spurious emission measurements in 110 - 120 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:

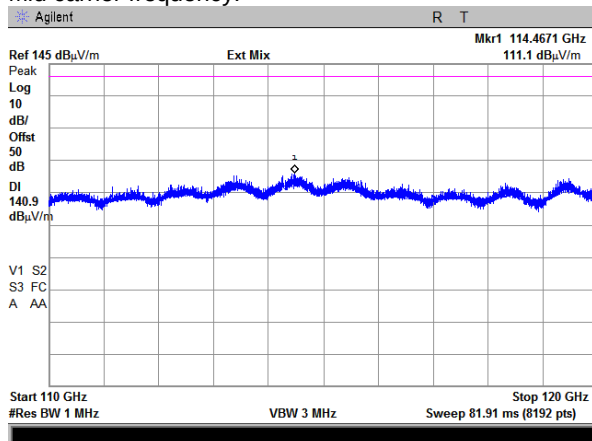


OATS
0.05 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 100 kHz
58320 MHz

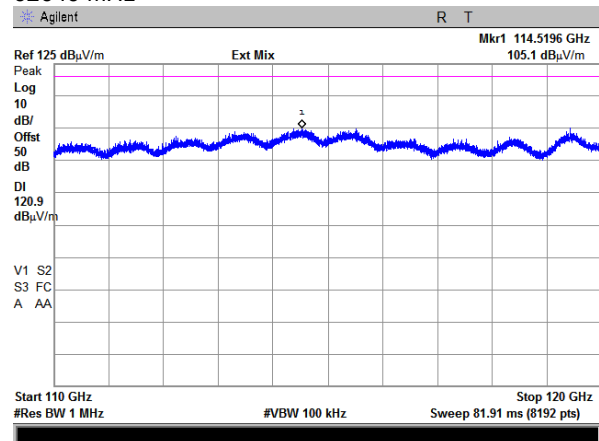


Plot 7.4.32 Spurious emission measurements in 110 - 120 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:



OATS
0.05 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 100 kHz
62640 MHz





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Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.33 Spurious emission measurements in 110 - 120 GHz range

TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

High carrier frequency:

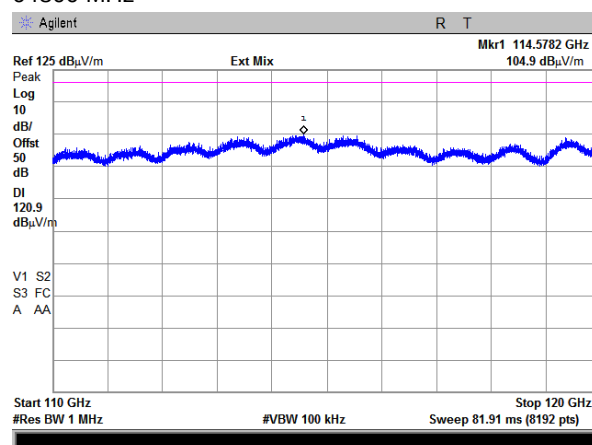
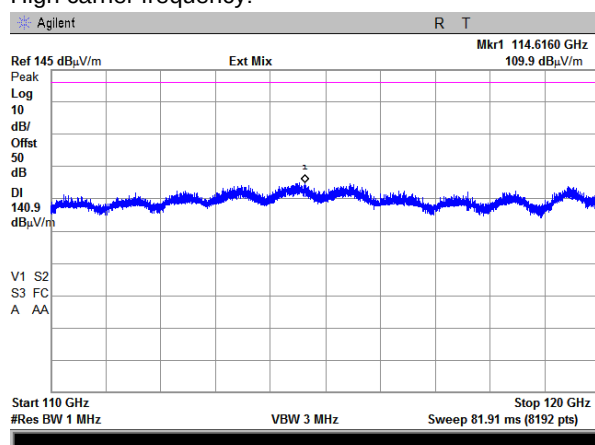
OATS

0.05 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

64800 MHz



Plot 7.4.34 Spurious emission measurements in 120 - 130 GHz range

TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:

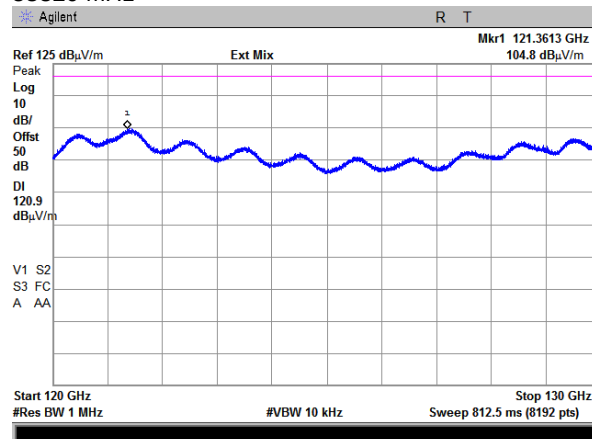
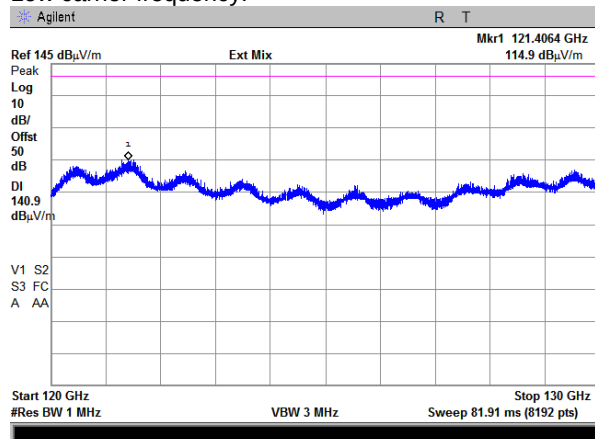
OATS

0.05 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

58320 MHz





HERMON LABORATORIES

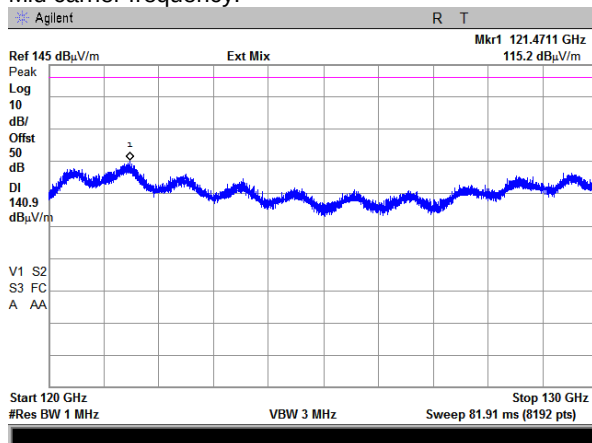
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

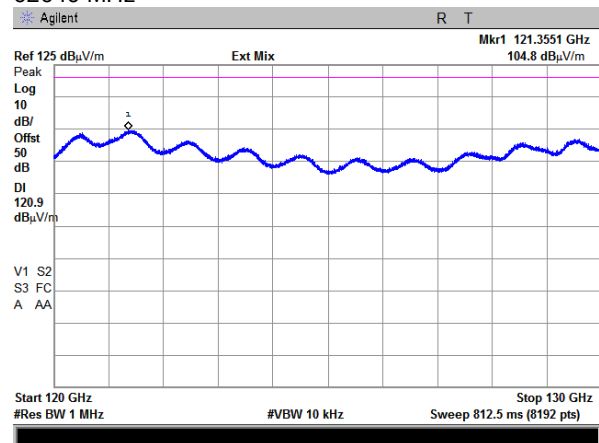
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.35 Spurious emission measurements in 120 - 130 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:

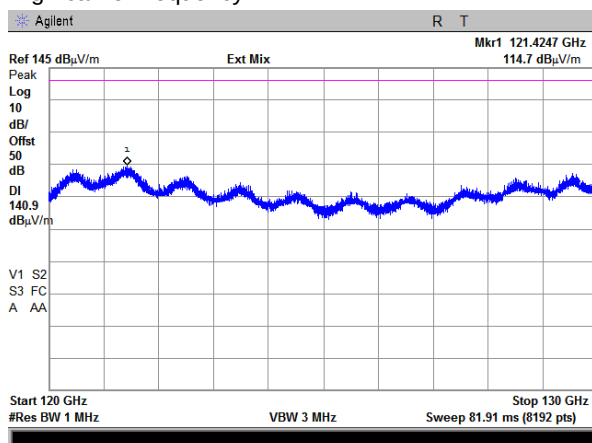


OATS
0.05 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
62640 MHz

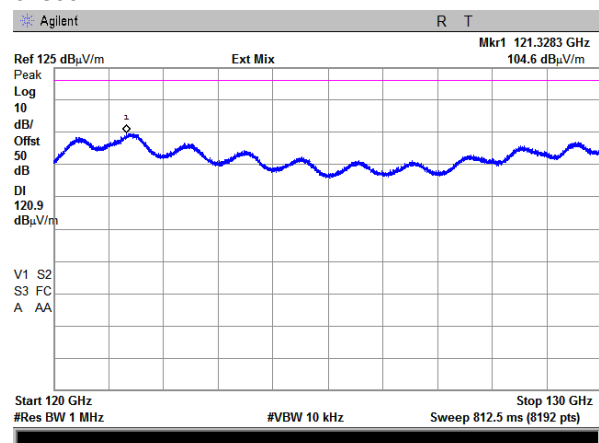


Plot 7.4.36 Spurious emission measurements in 120 - 130 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
High carrier frequency:



OATS
0.05 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
64800 MHz





HERMON LABORATORIES

Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.37 Spurious emission measurements in 130 - 140 GHz range

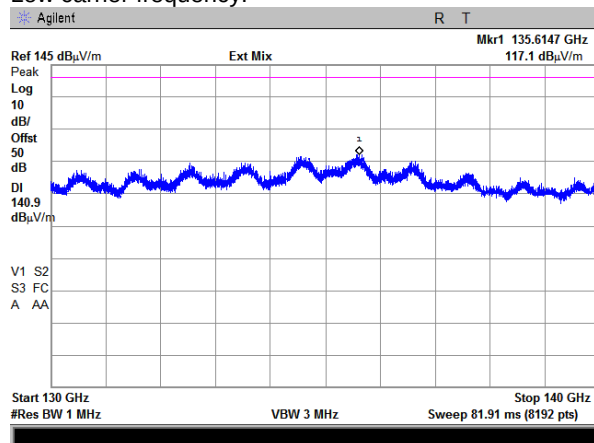
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Low carrier frequency:



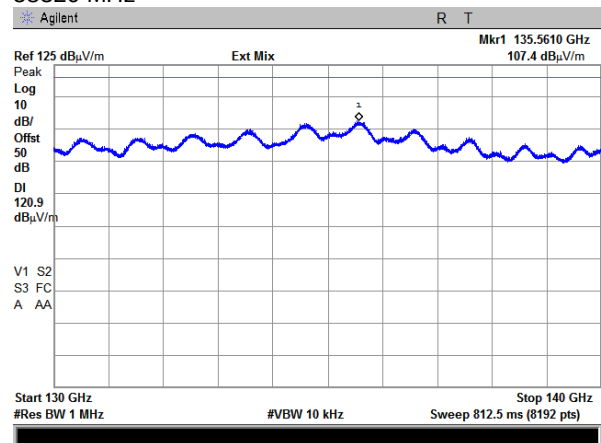
OATS

0.05 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

58320 MHz



Plot 7.4.38 Spurious emission measurements in 130 - 140 GHz range

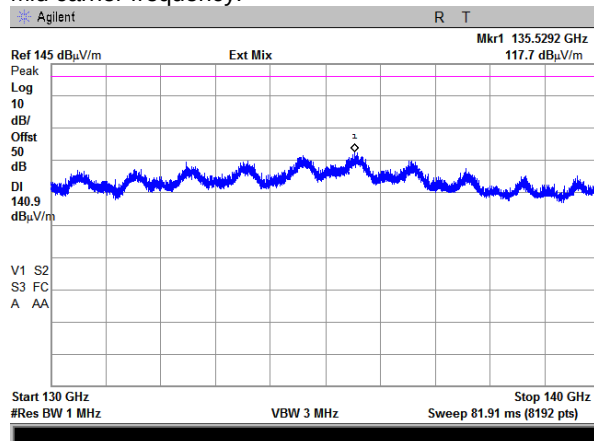
TEST SITE:

TEST DISTANCE:

ANTENNA POLARIZATION:

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

Mid carrier frequency:



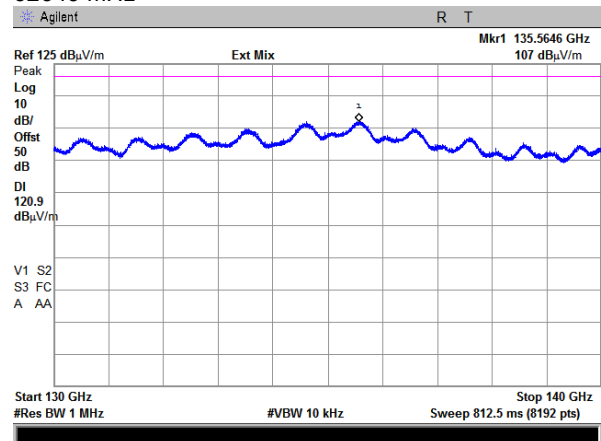
OATS

0.05 m

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

62640 MHz





HERMON LABORATORIES

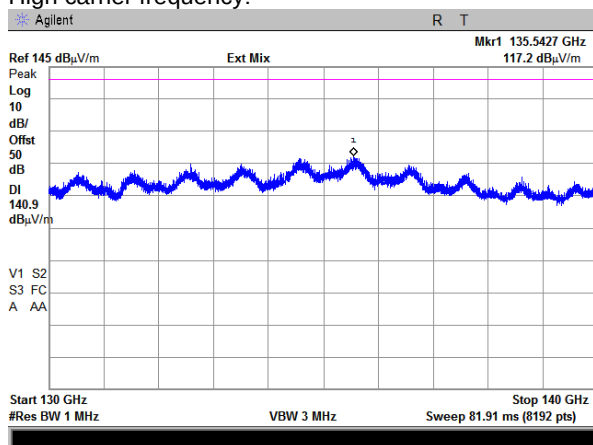
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

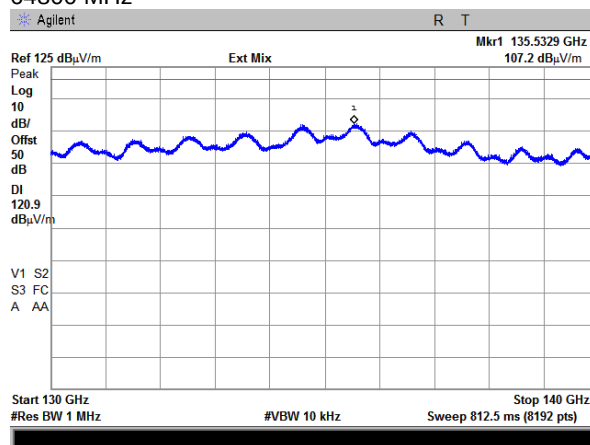
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.39 Spurious emission measurements in 130 - 140 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
High carrier frequency:

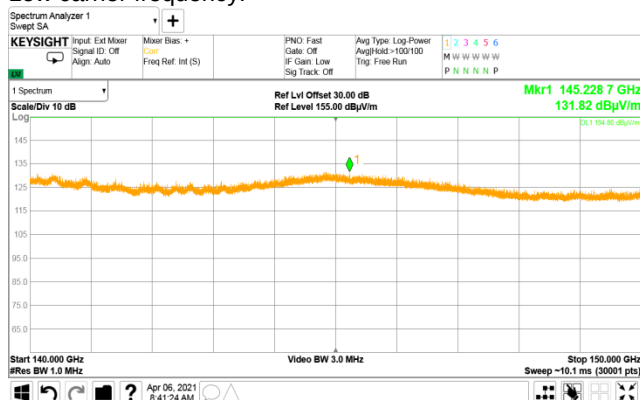


OATS
0.05 m
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
64800 MHz

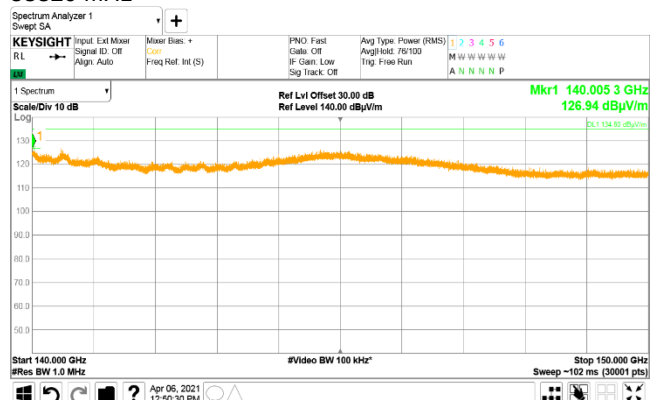


Plot 7.4.40 Spurious emission measurements in 140 - 150 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



OATS
0.01 m
Vertical and Horizontal
DETECTOR: Average RBW = 1 MHz; VBW = 100 kHz
58320 MHz





HERMON LABORATORIES

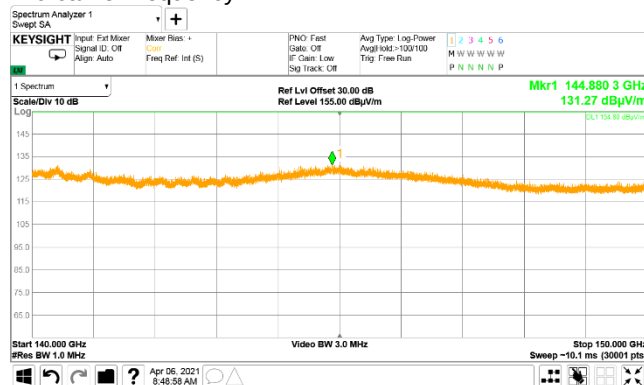
Report ID: SIKRAD_FCC.42253_Rev3

Date of Issue: 27-Jun-21

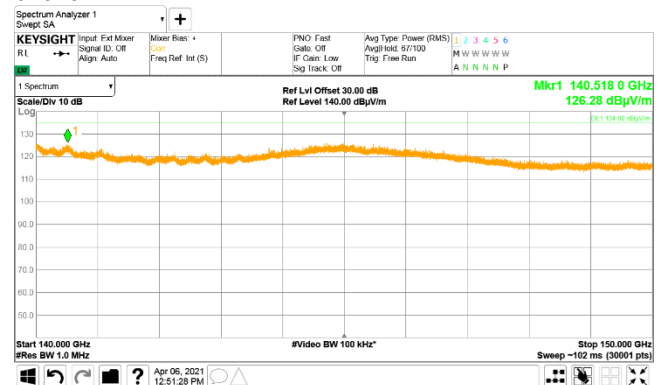
Test specification:		FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz	
Test procedure:		ANSI C63.10, Sections 9.9, 9.12	
Test mode:		Compliance	Verdict: PASS
Date(s):		04-Apr-21	
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.41 Spurious emission measurements in 140 - 150 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:

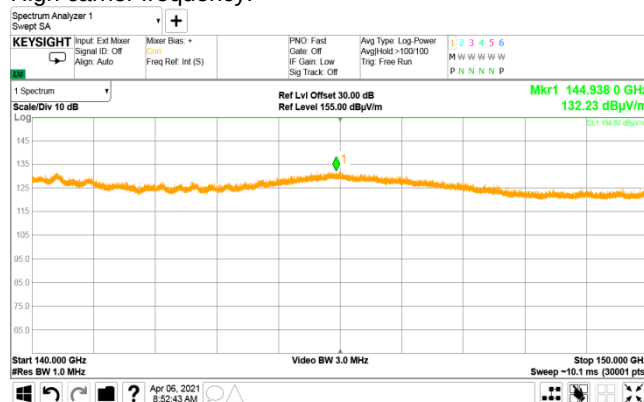


OATS
0.01 m
Vertical and Horizontal
DETECTOR: Average RBW = 1 MHz; VBW = 100 kHz
62640 MHz

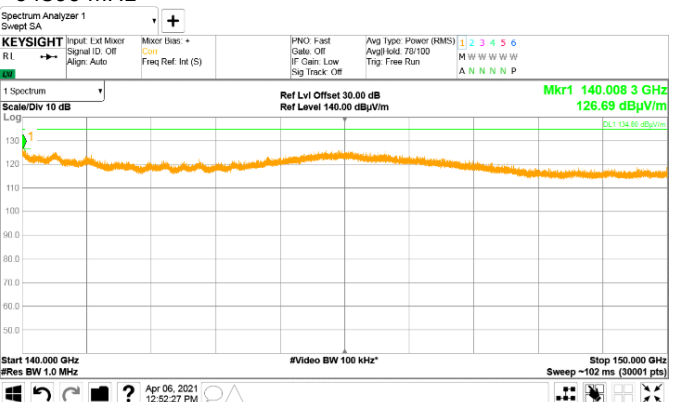


Plot 7.4.42 Spurious emission measurements in 140 - 150 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
High carrier frequency:



OATS
0.01 m
Vertical and Horizontal
DETECTOR: Average RBW = 1 MHz; VBW = 100 kHz
64800 MHz





HERMON LABORATORIES

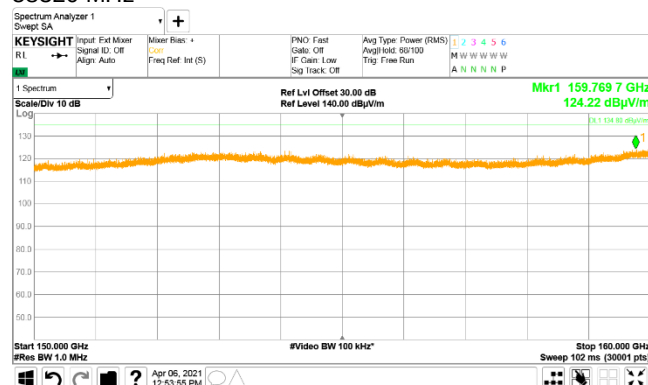
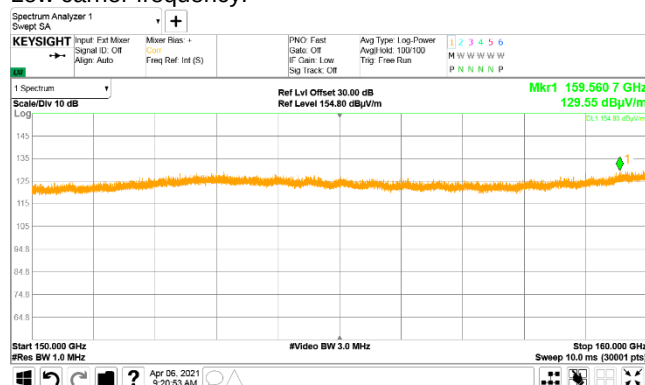
Report ID: SIKRAD_FCC.42253_Rev3
Date of Issue: 27-Jun-21

Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz			
Test procedure: ANSI C63.10, Sections 9.9, 9.12			
Test mode: Compliance		Verdict: PASS	
Date(s): 04-Apr-21			
Temperature: 21 °C	Relative Humidity: 39 %	Air Pressure: 1010 hPa	Power: 48 VDC
Remarks:			

Plot 7.4.43 Spurious emission measurements in 150 - 160 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:

OATS
0.01 m
Vertical and Horizontal
DETECTOR: Average RBW = 1 MHz; VBW = 100 kHz
58320 MHz



Plot 7.4.44 Spurious emission measurements in 150 - 160 GHz range

TEST SITE:
TEST DISTANCE:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Mid carrier frequency:

OATS
0.01 m
Vertical and Horizontal
DETECTOR: Average RBW = 1 MHz; VBW = 100 kHz
62640 MHz

