



MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3560MHz, 20MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7120.00	H	45.9	*	-62.6	9.2	6.1	-59.4	-40.0
7120.00	V	45.8	*	-61.9	9.2	6.1	-58.7	-40.0
10680.00	H	44.3	*	-60.2	10.9	7.4	-56.7	-40.0
10680.00	V	44.4	*	-60.7	10.9	7.4	-57.2	-40.0
14240.00	H	44.6	*	-58.3	11.7	8.6	-55.3	-40.0
14240.00	V	44.2	*	-56.4	11.7	8.6	-53.4	-40.0
17800.00	H	44.1	*	-51.0	11.2	9.9	-49.7	-40.0
17800.00	V	44.3	*	-51.0	11.2	9.9	-49.7	-40.0
21360.00	H	32.7	*	-69.1	14.3	11.4	-66.2	-40.0
21360.00	V	33.4	*	-68.3	14.3	11.4	-65.4	-40.0
24920.00	H	32.8	*	-68.6	15.3	11.0	-64.3	-40.0
24920.00	V	32.9	*	-66.8	15.3	11.0	-62.5	-40.0
28480.00	H	29.9	*	-66.7	13.4	11.7	-65.0	-40.0
28480.00	V	35.2	*	-59.2	13.4	11.7	-57.5	-40.0
32040.00	H	31.8	*	-63.8	14.2	12.8	-62.4	-40.0
32040.00	V	31.7	*	-64.7	14.2	12.8	-63.3	-40.0
35600.00	H	33.6	*	-56.6	15.0	13.5	-55.1	-40.0
35600.00	V	34.8	*	-55.0	15.0	13.5	-53.5	-40.0

Checked By: *RICHARD E. KING*

Richard King



MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3600MHz, 20MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7200.00	H	46.0	*	-62.0	9.3	6.1	-58.8	-40.0
7200.00	V	46.5	*	-62.0	9.3	6.1	-58.8	-40.0
10800.00	H	44.9	*	-58.0	10.9	7.4	-54.5	-40.0
10800.00	V	44.8	*	-59.0	10.9	7.4	-55.5	-40.0
14400.00	H	43.6	*	-55.0	11.7	8.7	-52.0	-40.0
14400.00	V	44.7	*	-55.4	11.7	8.7	-52.4	-40.0
18000.00	H	44.9	*	-49.9	11.0	10.0	-48.9	-40.0
18000.00	V	44.9	*	-49.9	11.0	10.0	-48.9	-40.0
21600.00	H	33.0	*	-68.0	14.2	11.2	-65.0	-40.0
21600.00	V	33.1	*	-68.0	14.2	11.2	-65.0	-40.0
25200.00	H	32.0	*	-68.2	15.4	11.0	-63.8	-40.0
25200.00	V	31.0	*	-68.2	15.4	11.0	-63.8	-40.0
28800.00	H	31.9	*	-55.8	13.4	11.8	-54.1	-40.0
28800.00	V	35.0	*	-55.3	13.4	11.8	-53.6	-40.0
32400.00	H	31.8	*	-60.2	14.3	12.9	-58.8	-40.0
32400.00	V	32.6	*	-61.0	14.3	12.9	-59.6	-40.0
36000.00	H	30.0	*	-66.1	15.1	13.6	-64.6	-40.0
36000.00	V	34.0	*	-62.4	15.1	13.6	-60.9	-40.0

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MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3690MHz, 20MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7380.00	H	46.0	*	-63.1	9.6	6.2	-59.7	-40.0
7380.00	V	46.3	*	-62.7	9.6	6.2	-59.3	-40.0
11070.00	H	45.4	*	-58.8	11.0	7.6	-55.3	-40.0
11070.00	V	45.0	*	-58.7	11.0	7.6	-55.2	-40.0
14760.00	H	45.3	*	-54.4	11.7	8.9	-51.6	-40.0
14760.00	V	43.7	*	-55.4	11.7	8.9	-52.6	-40.0
18450.00	H	32.2	*	-68.0	13.0	10.9	-65.8	-40.0
18450.00	V	32.5	*	-69.8	13.0	10.9	-67.6	-40.0
22140.00	H	33.3	*	-69.4	14.4	11.1	-66.1	-40.0
22140.00	V	33.4	*	-69.0	14.4	11.1	-65.7	-40.0
25830.00	H	33.0	*	-69.6	15.6	11.2	-65.1	-40.0
25830.00	V	33.5	*	-69.8	15.6	11.2	-65.3	-40.0
29520.00	H	35.2	*	-62.7	13.6	12.0	-61.1	-40.0
29520.00	V	35.2	*	-62.6	13.6	12.0	-61.0	-40.0
33210.00	H	36.0	*	-61.7	14.5	13.0	-60.3	-40.0
33210.00	V	36.0	*	-61.8	14.5	13.0	-60.4	-40.0
36900.00	H	34.3	*	-61.8	15.3	14.0	-60.5	-40.0
36900.00	V	34.2	*	-61.8	15.3	14.0	-60.5	-40.0

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MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3570MHz, 40MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7140.00	H	46.0	*	-62.0	9.2	6.1	-58.8	-40.0
7140.00	V	46.1	*	-62.3	9.2	6.1	-59.1	-40.0
10710.00	H	45.8	*	-60.1	10.9	7.4	-56.6	-40.0
10710.00	V	45.7	*	-60.2	10.9	7.4	-56.7	-40.0
14280.00	H	44.6	*	-58.3	11.7	8.6	-55.3	-40.0
14280.00	V	44.1	*	-58.3	11.7	8.6	-55.3	-40.0
17850.00	H	44.5	*	-49.0	11.2	9.9	-47.7	-40.0
17850.00	V	44.7	*	-49.0	11.2	9.9	-47.7	-40.0
21420.00	H	33.0	*	-68.8	14.2	11.3	-65.9	-40.0
21420.00	V	33.1	*	-68.4	14.2	11.3	-65.5	-40.0
24990.00	H	33.0	*	-69.2	15.4	11.0	-64.8	-40.0
24990.00	V	33.2	*	-69.2	15.4	11.0	-64.8	-40.0
28560.00	H	36.7	*	-57.0	13.4	11.7	-55.3	-40.0
28560.00	V	37.6	*	-57.0	13.4	11.7	-55.3	-40.0
32130.00	H	37.1	*	-56.8	14.2	12.8	-55.4	-40.0
32130.00	V	37.8	*	-55.0	14.2	12.8	-53.6	-40.0
35700.00	H	37.4	*	-53.6	15.0	13.5	-52.1	-40.0
35700.00	V	37.7	*	-52.2	15.0	13.5	-50.7	-40.0

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MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3600MHz, 40MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7200.00	H	46.3	*	-62.0	9.3	6.1	-58.8	-40.0
7200.00	V	46.0	*	-61.4	9.3	6.1	-58.2	-40.0
10800.00	H	45.8	*	-59.6	10.9	7.4	-56.1	-40.0
10800.00	V	45.8	*	-59.7	10.9	7.4	-56.2	-40.0
14400.00	H	44.3	*	-54.0	11.7	8.7	-51.0	-40.0
14400.00	V	44.5	*	-53.9	11.7	8.7	-50.9	-40.0
18000.00	H	46.0	*	-48.0	11.0	10.0	-47.0	-40.0
18000.00	V	46.0	*	-49.6	11.0	10.0	-48.6	-40.0
21600.00	H	31.9	*	-68.8	14.2	11.2	-65.8	-40.0
21600.00	V	31.9	*	-68.8	14.2	11.2	-65.8	-40.0
25200.00	H	33.1	*	-68.8	15.4	11.0	-64.4	-40.0
25200.00	V	32.0	*	-69.7	15.4	11.0	-65.3	-40.0
28800.00	H	31.0	*	-63.8	13.4	11.8	-62.1	-40.0
28800.00	V	32.0	*	-53.4	13.4	11.8	-51.7	-40.0
32400.00	H	32.3	*	-63.0	14.3	12.9	-61.6	-40.0
32400.00	V	33.0	*	-54.2	14.3	12.9	-52.8	-40.0
36000.00	H	34.0	*	-62.2	15.1	13.6	-60.7	-40.0
36000.00	V	34.0	*	-62.2	15.1	13.6	-60.7	-40.0

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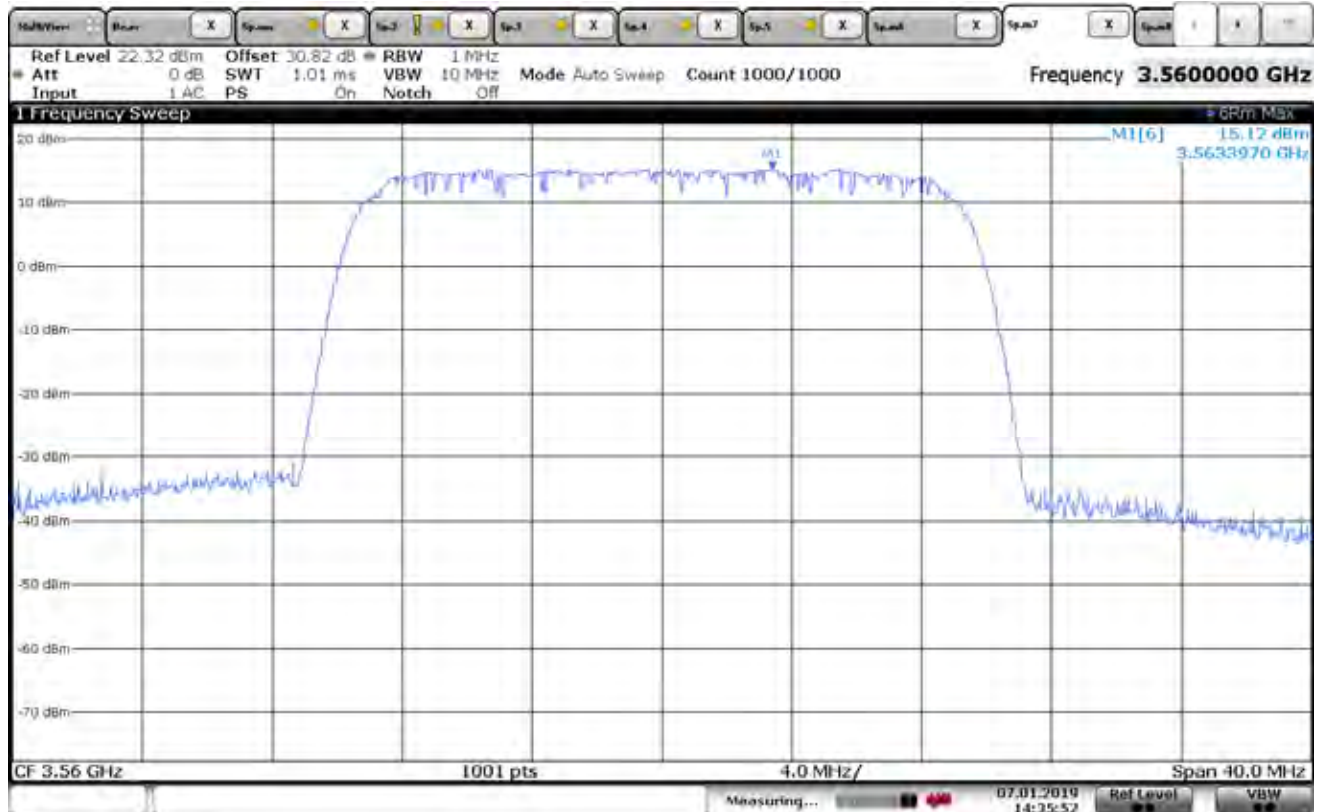


MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Spurious Radiated Emissions
DATE : January 7-17, 2019
MODE : Transmit at 3680MHz, 40MHz Channel
NOTES :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	Matched Sig. Gen. Reading (dBm)	Equivalent Antenna Gain (dB)	Cable Loss (dB)	ERP (dBm/MHz)	ERP Limit (dBm/MHz)
7360.00	H	46.0	*	-62.2	9.5	6.2	-58.8	-40.0
7360.00	V	46.2	*	-61.8	9.5	6.2	-58.4	-40.0
11040.00	H	44.6	*	-59.0	11.0	7.5	-55.5	-40.0
11040.00	V	44.7	*	-59.6	11.0	7.5	-56.1	-40.0
14720.00	H	44.3	*	-54.8	11.7	8.9	-52.0	-40.0
14720.00	V	44.2	*	-54.0	11.7	8.9	-51.2	-40.0
18400.00	H	34.8	*	-68.0	13.0	10.9	-65.9	-40.0
18400.00	V	34.8	*	-68.3	13.0	10.9	-66.2	-40.0
22080.00	H	34.0	*	-67.4	14.4	11.0	-64.1	-40.0
22080.00	V	34.2	*	-68.2	14.4	11.0	-64.9	-40.0
25760.00	H	34.7	*	-68.1	15.6	11.2	-63.6	-40.0
25760.00	V	34.7	*	-68.3	15.6	11.2	-63.8	-40.0
29440.00	H	35.3	*	-54.6	13.6	12.0	-53.0	-40.0
29440.00	V	35.3	*	-54.2	13.6	12.0	-52.6	-40.0
33120.00	H	36.2	*	-60.1	14.5	13.0	-58.7	-40.0
33120.00	V	36.3	*	-60.1	14.5	13.0	-58.7	-40.0
36800.00	H	34.6	*	-62.3	15.2	13.9	-61.0	-40.0
36800.00	V	35.0	*	-62.7	15.2	13.9	-61.4	-40.0

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Richard King

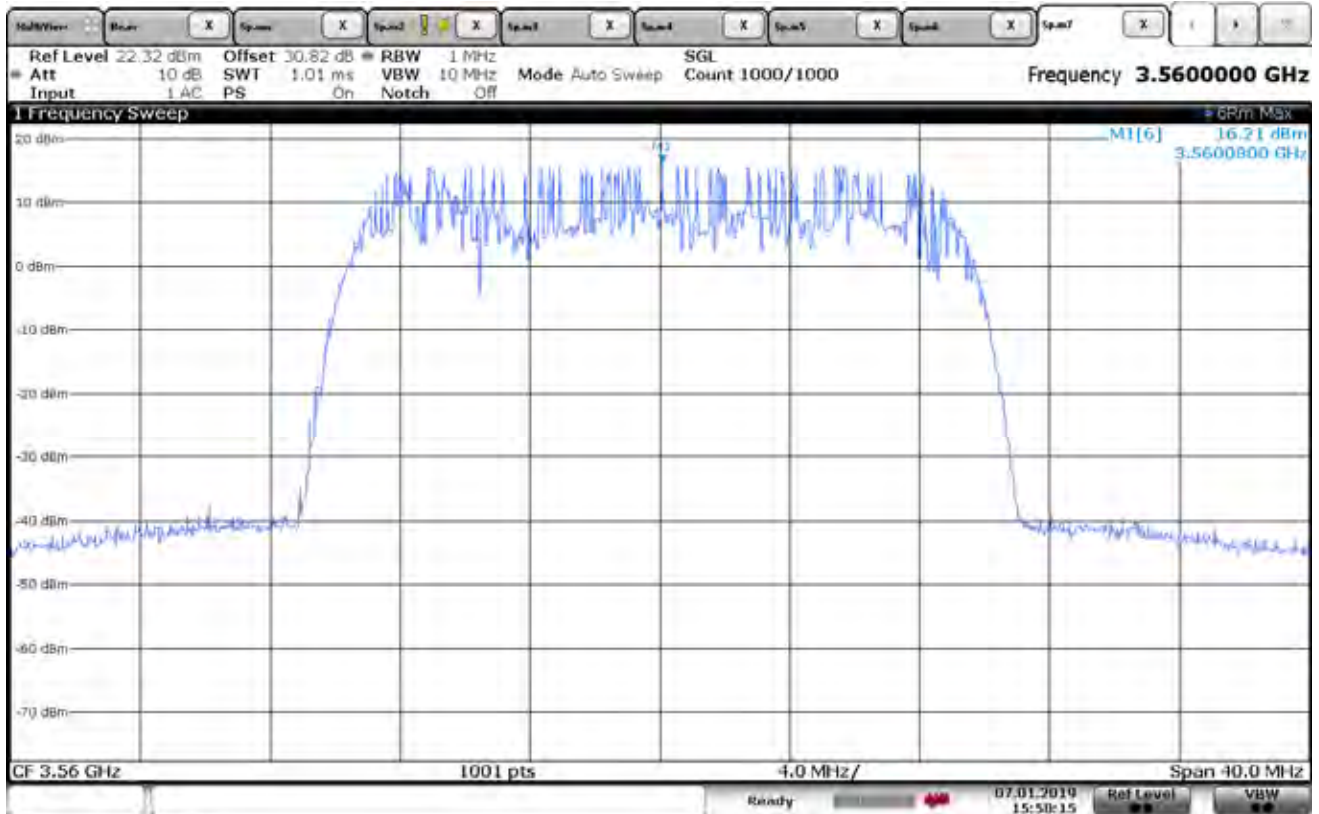


Date: 7 JAN 2019 14:35:51

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7, 2019
MODE	: Transmit at 3560MHz, 20MHz Channel, Channel A
NOTES	: Power Spectral Density = 15.12dBm + 1.02dB = 16.14dBm

Checked By: *RICHARD E. King*

Richard King

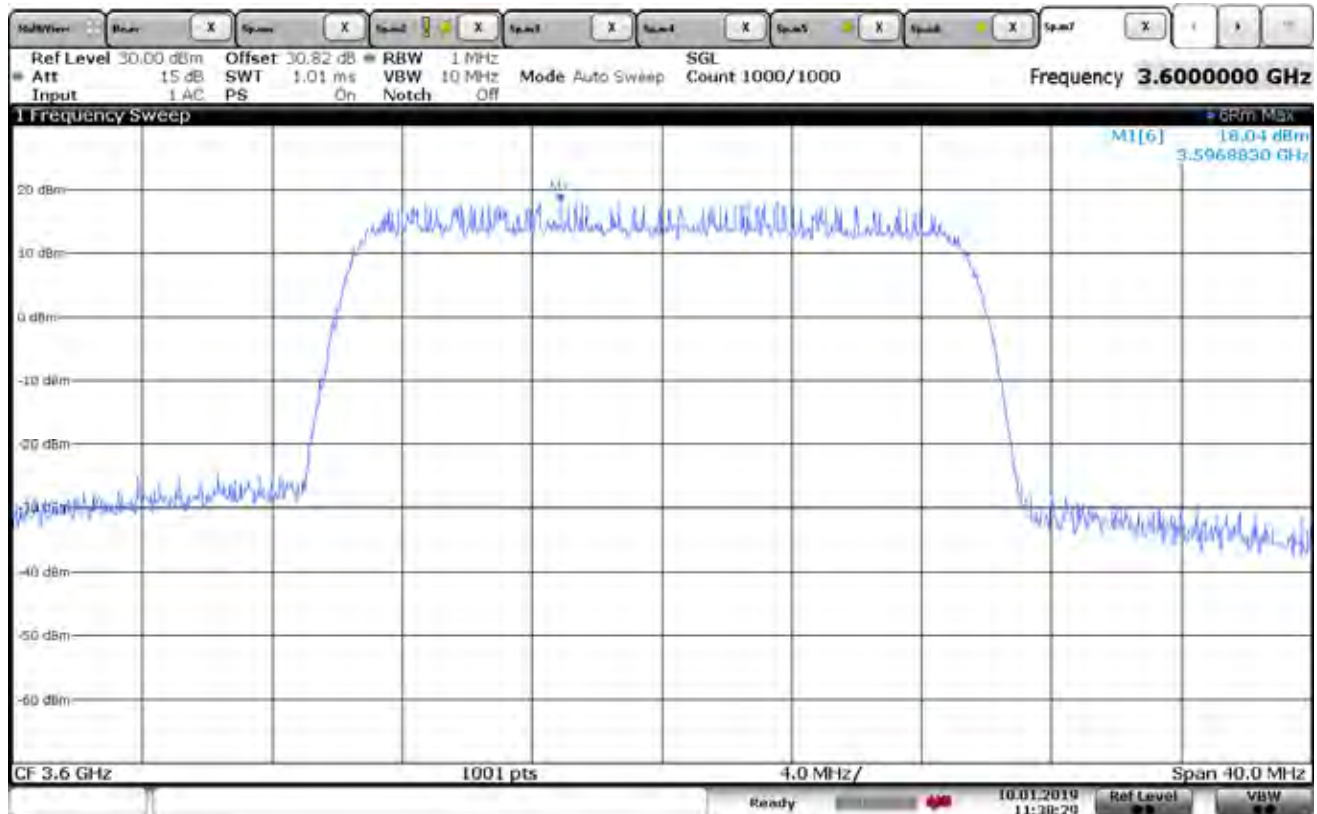


Date: 7 JAN 2019 15:58:15

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7, 2019
MODE	: Transmit at 3560MHz, 20MHz Channel, Channel B
NOTES	: Power Spectral Density = 16.21dBm + 1.02dB = 17.23dBm

Checked By: RICHARD E. KING

Richard King

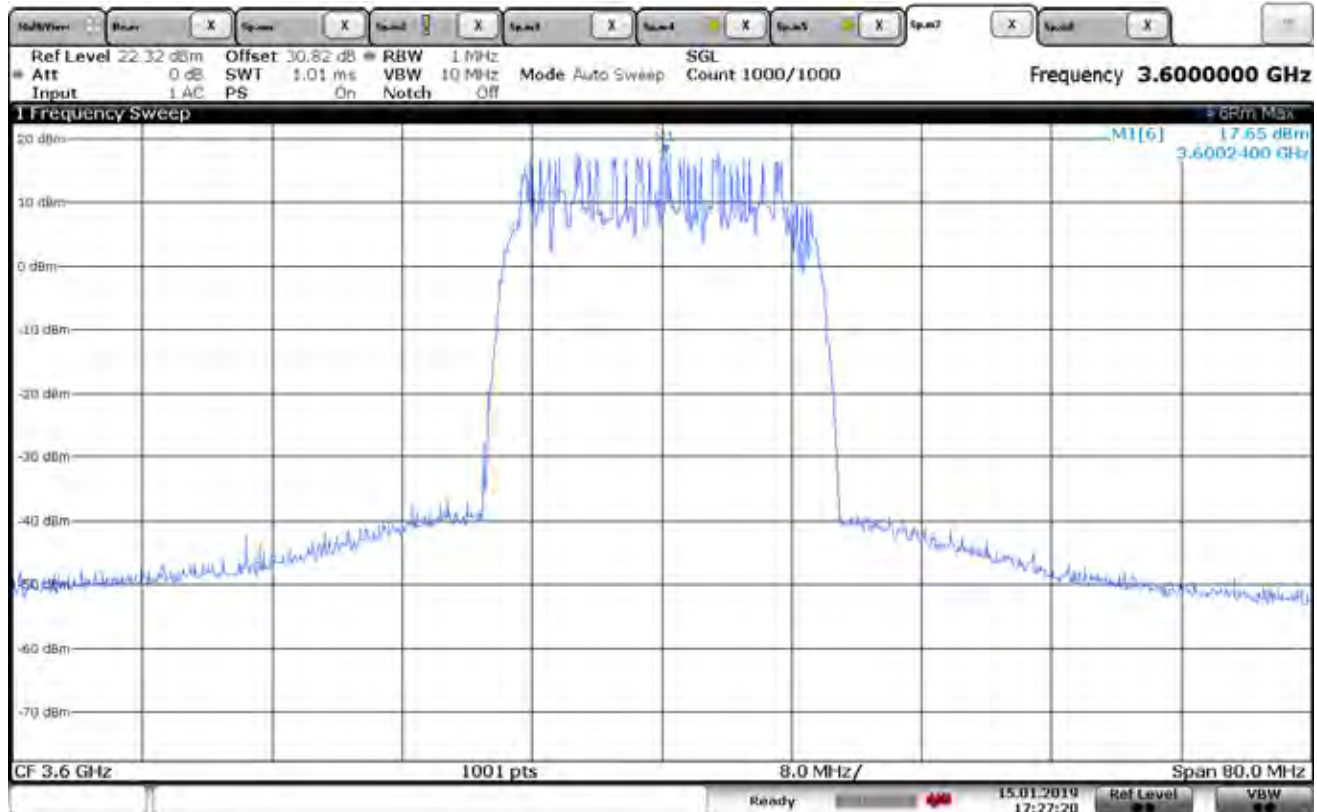


Date: 10 JAN 2019 11:38:29

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3600MHz, 20MHz Channel, Channel A
NOTES	: Power Spectral Density = 18.04dBm + 1.02dB = 19.06dBm

Checked By: *RICHARD E. KING*

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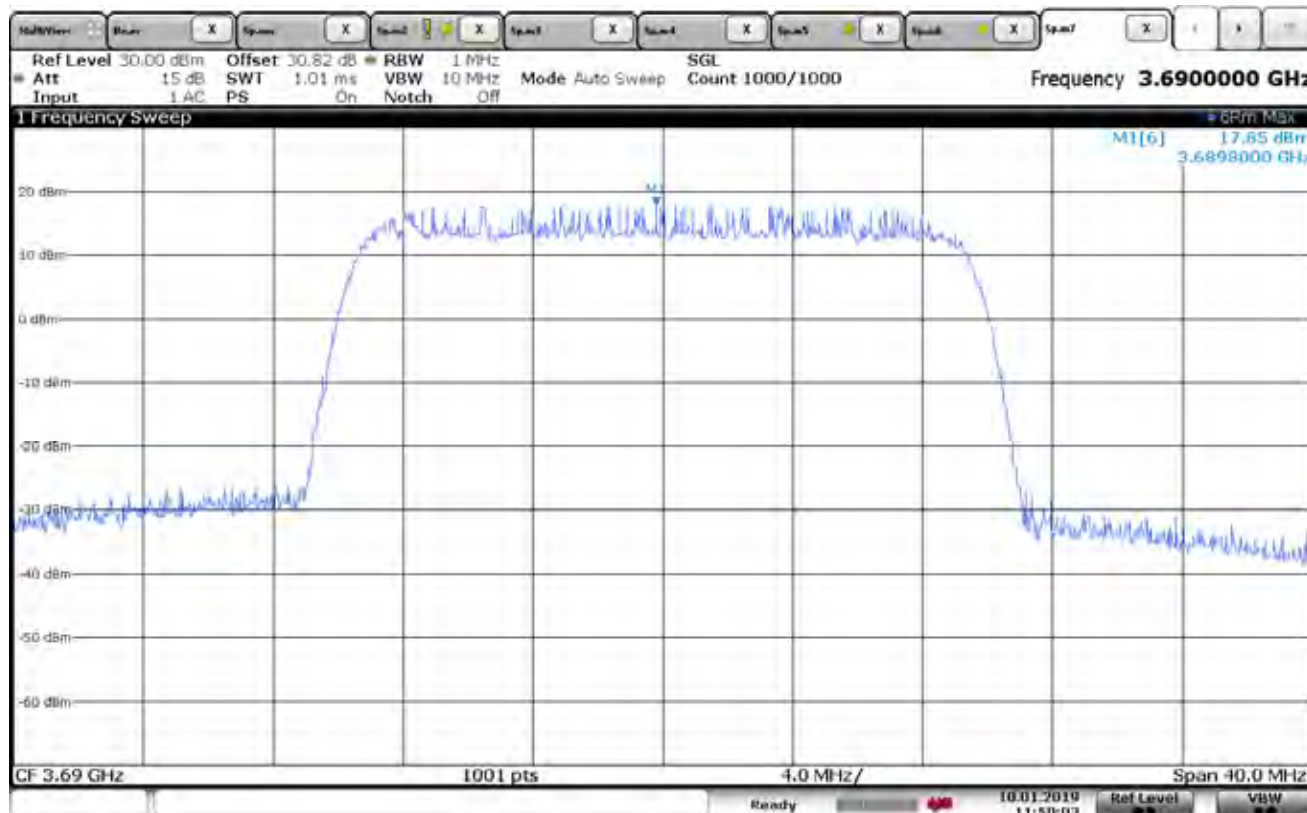


Date: 15.JAN.2019 17:27:20

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3600MHz, 20MHz Channel, Channel B
NOTES	: Power Spectral Density = 17.65dBm + 1.02dB = 18.67dBm

Checked By: *RICHARD E. King*

Richard King



Date: 10 JAN 2019 11:50:03

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3690MHz, 20MHz Channel, Channel A
NOTES	: Power Spectral Density = 17.85dBm + 1.02dB = 18.87dBm

Checked By: *RICHARD E. King*

Richard King

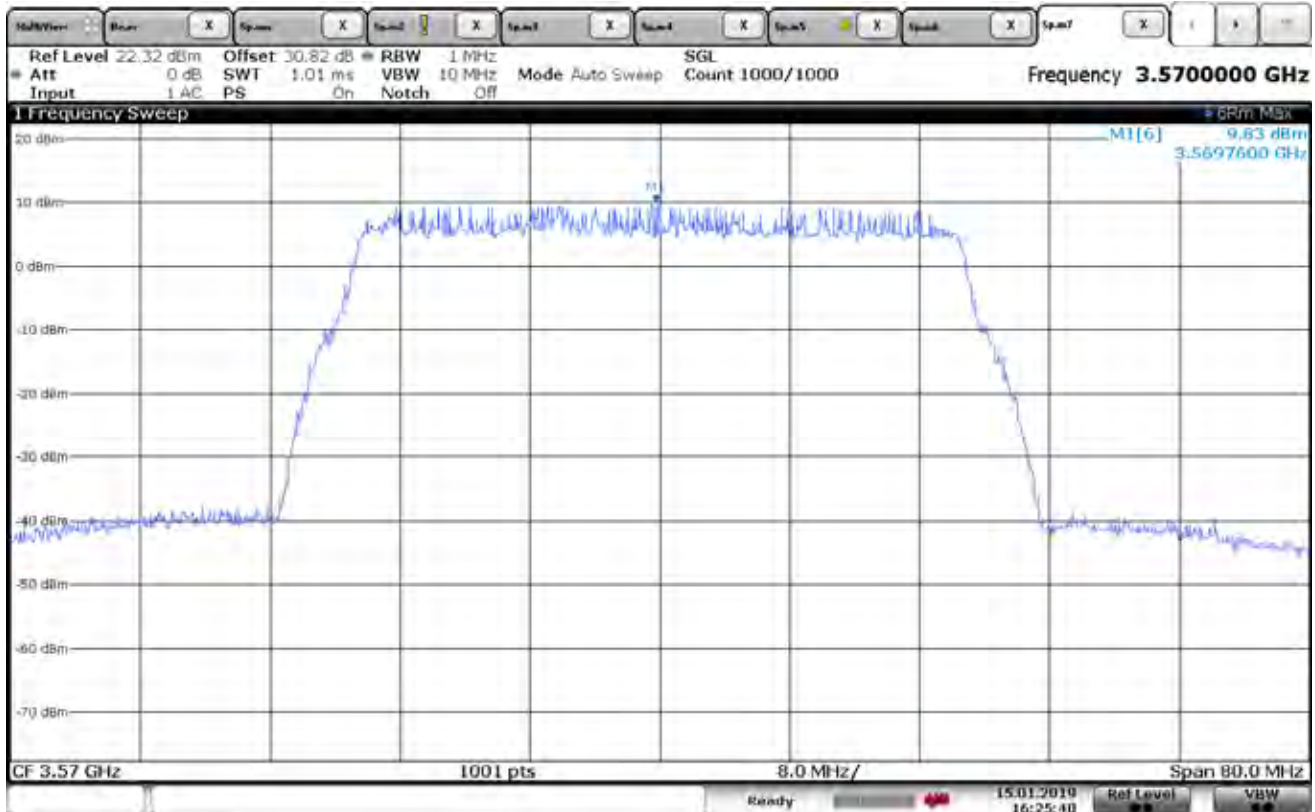


Date: 15.JAN.2019 17:30:10

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3690MHz, 20MHz Channel, Channel B
NOTES	: Power Spectral Density = 18.81dBm + 1.02dB = 19.83dBm

Checked By: *RICHARD E. KING*

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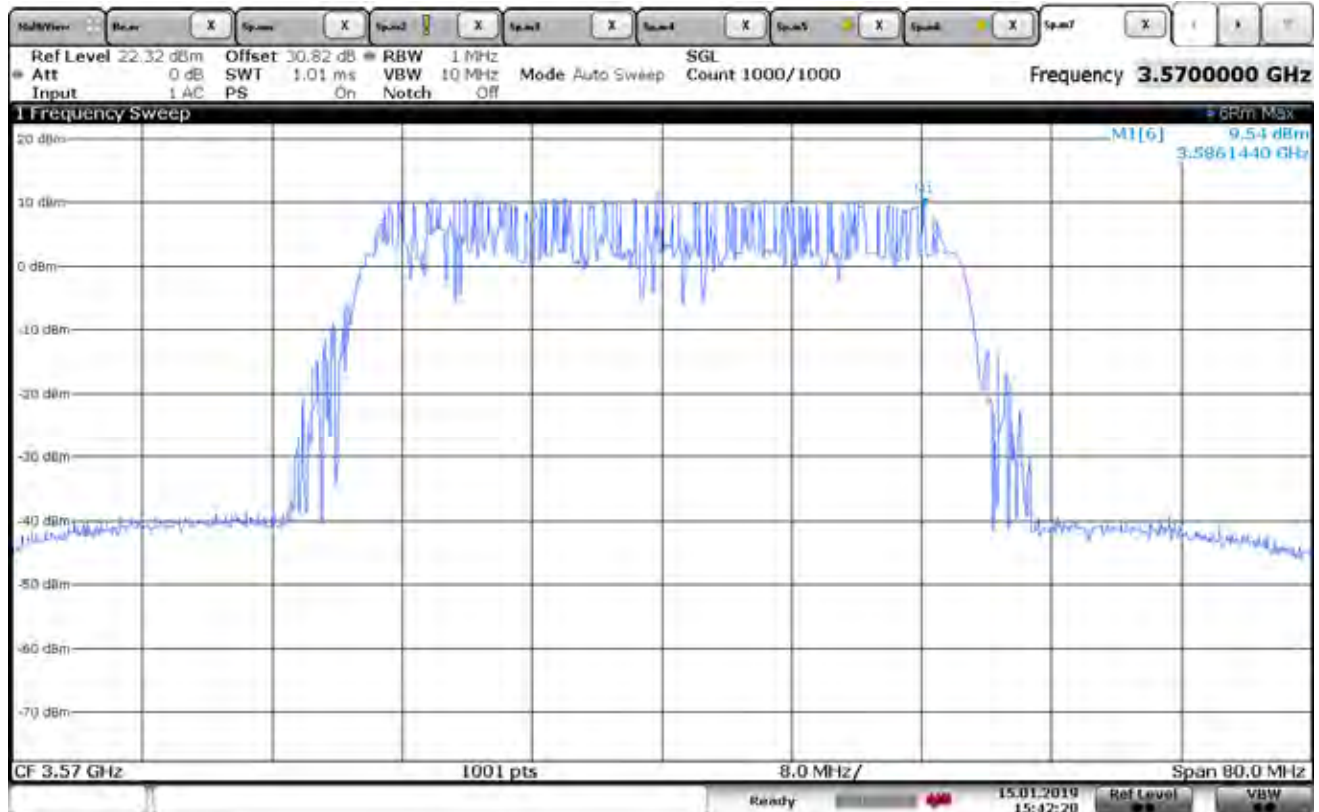


Date: 15 JAN 2019 16:25:39

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3570MHz, 40MHz Channel, Channel A
NOTES	: Power Spectral Density = 9.83dBm + 1.01dB = 10.84dBm

Checked By: *Richard E. King*

Richard King

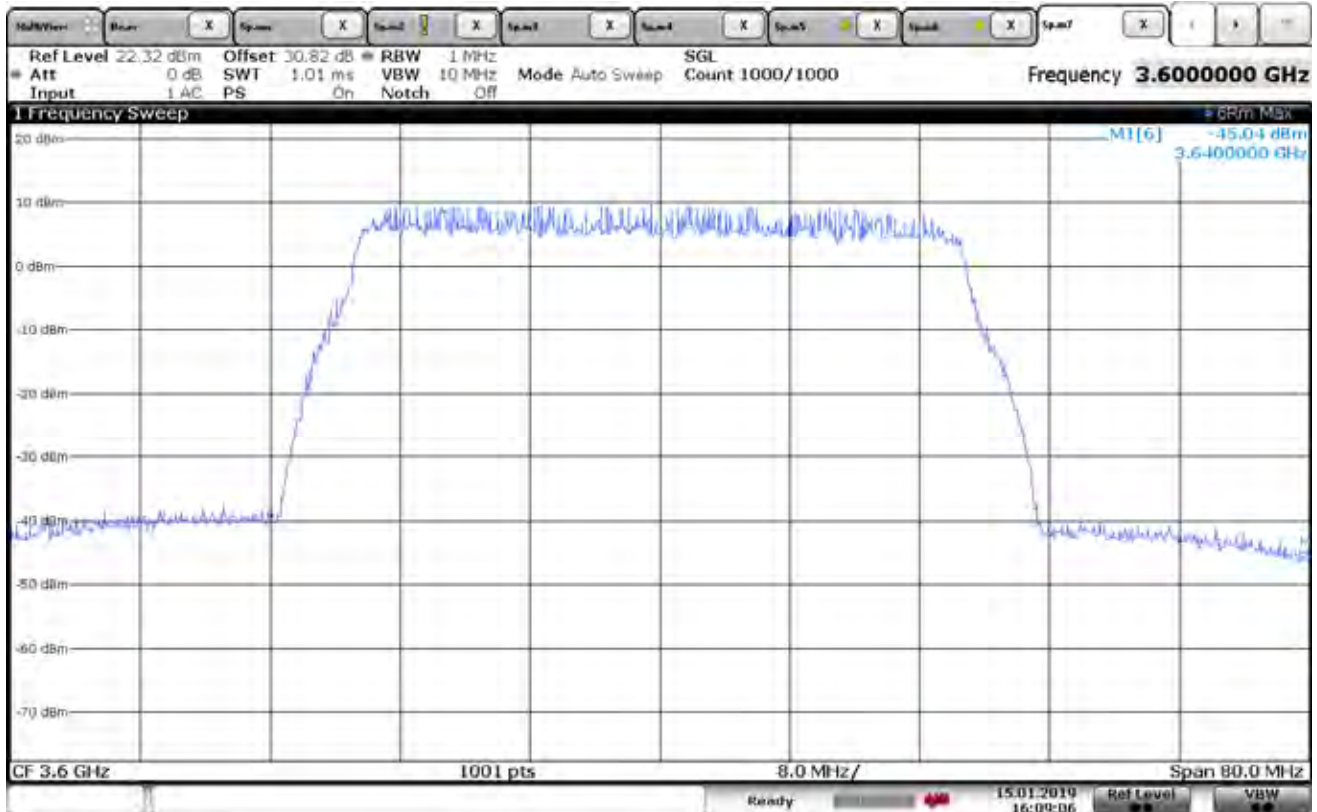


Date: 15 JAN 2019 15:42:28

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3570MHz, 40MHz Channel, Channel B
NOTES	: Power Spectral Density = 9.54dBm + 1.01dB = dBm

Checked By: *RICHARD E. King*

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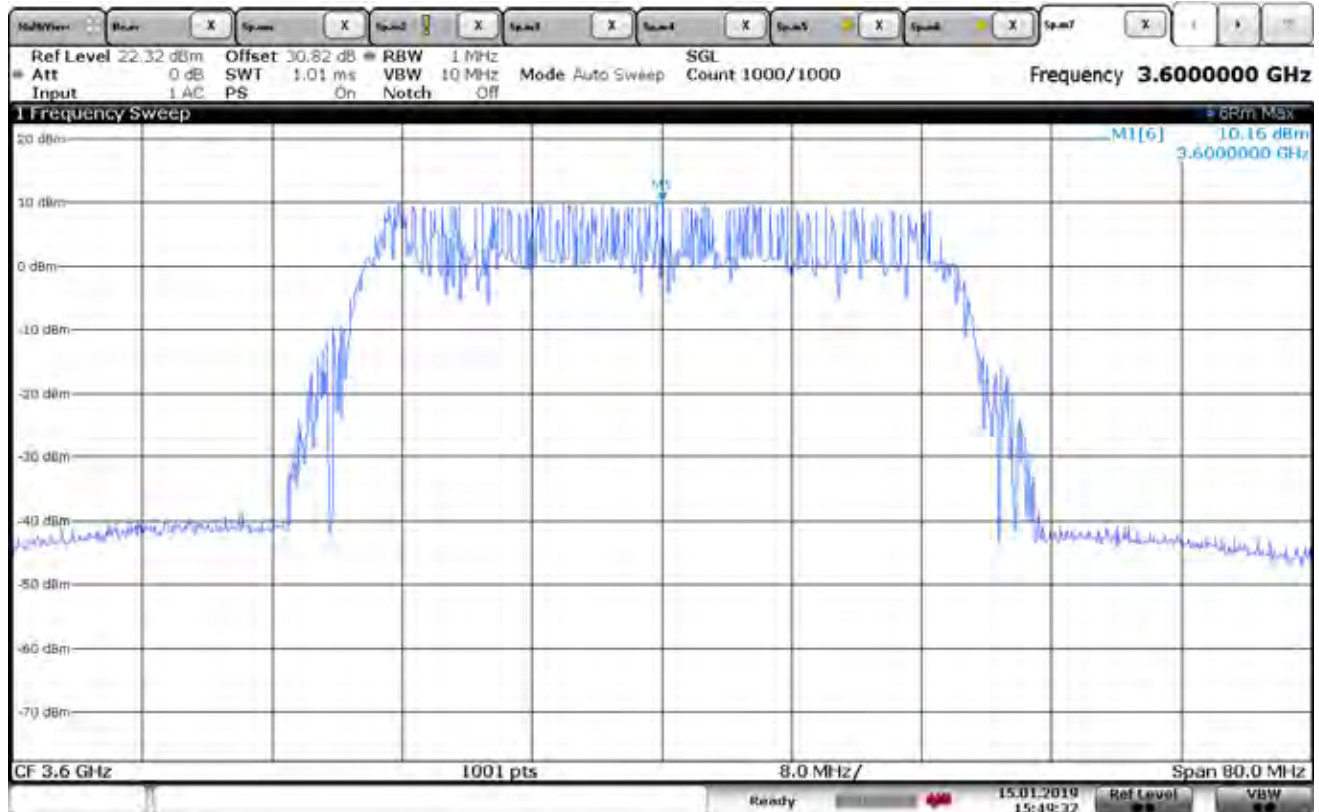


Date: 15 JAN 2019 16:09:06

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3600MHz, 40MHz Channel, Channel A
NOTES	: Power Spectral Density = $9.99 + 1.01\text{dB} = 11\text{dBm}$

Checked By: *RICHARD E. KING*

Richard King

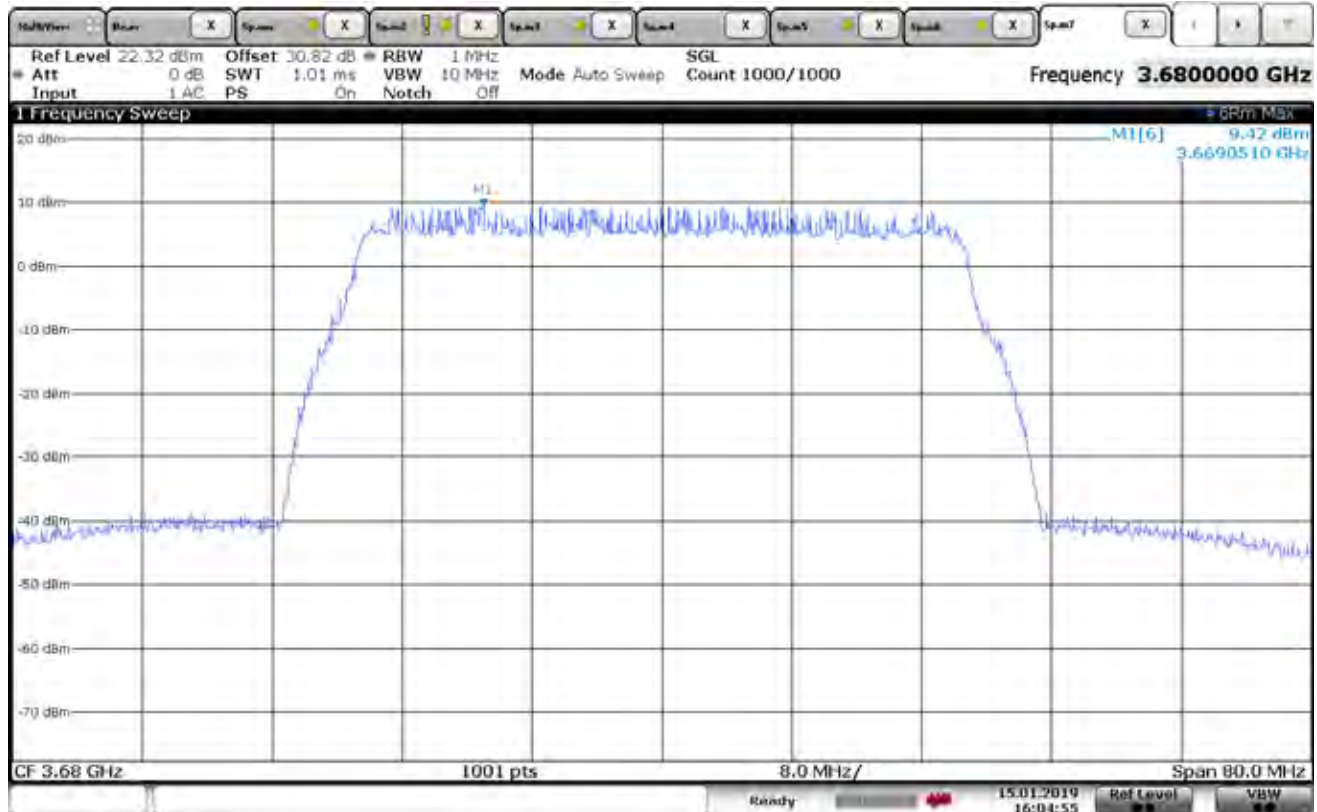


Date: 15 JAN 2019 15:49:31

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3600MHz, 40MHz Channel, Channel B
NOTES	: Power Spectral Density = 10.16dBm + 1.01dB = 11.17dBm

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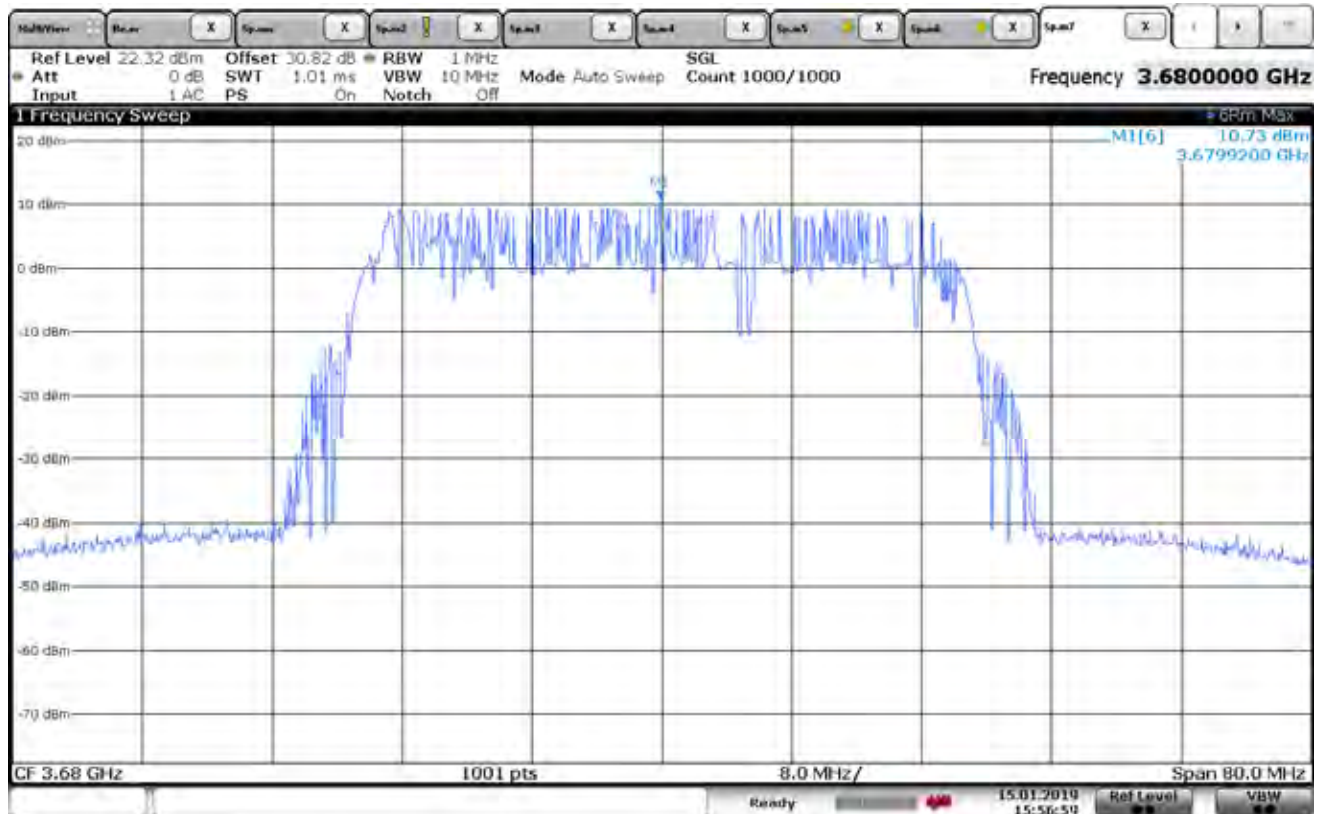


Date: 15 JAN 2019 16:04:58

MANUFACTURER	: Cambium Networks, Inc.
MODEL NO.	: 3082CHH
SERIAL NO.	: 0A003E452AD7
SPECIFICATION	: FCC 96.41(e) Power Spectral Density
DATE	: January 7-17, 2019
MODE	: Transmit at 3680MHz, 40MHz Channel, Channel A
NOTES	: Power Spectral Density = 9.43dBm + 1.01dB = 10.43dBm

Checked By: *RICHARD E. King*

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Date: 15 JAN 2019 15:58:59

MANUFACTURER

MODEL NO.

SERIAL NO.

SPECIFICATION

DATE _____

MODE

NOTES

: Cambium Networks, Inc.

: 3082CHH

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: 0A003E452AD7

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: FCC 96.41(e) Power Spectral Density

: January 7-17, 2019

: Transmit at 3680MHz, 40MHz Channel, Channel B

: Power Spectral Density = 10.73dBm + 1.01dB = 11.74dBm

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MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Power Spectral Density
DATE : January 7-17, 2019
NOTES : 20MHz channel

Frequency MHz	Antenna Port	Meter Reading (dBm)	Duty Cycle Correction dB	Total PSD (dBm/MHz)	Maximum PSD (dBm/MHz)	Margin (dB)
3560	A	15.12	1.02	16.14	37	-20.86
3560	B	16.21	1.02	17.23	37	-19.77
3600	A	18.04	1.02	19.06	37	-17.94
3600	B	17.65	1.02	18.67	37	-18.33
3690	A	17.85	1.02	18.87	37	-18.13
3690	B	18.81	1.02	19.83	37	-17.17

PSD = Meter Reading + Duty Cycle Correction

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MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Power Spectral Density
DATE : January 7-17, 2019
NOTES : 40MHz channel

Frequency MHz	Antenna Port	Meter Reading (dBm)	Duty Cycle Correction dB	Total PSD (dBm/MHz)	Maximum PSD (dBm/MHz)	Margin (dB)
3570	A	9.83	1.01	10.84	37	-26.16
3570	B	9.54	1.01	10.55	37	-26.45
3600	A	9.99	1.01	11	37	-26
3600	B	10.16	1.01	11.17	37	-25.83
3680	A	9.43	1.01	10.44	37	-26.56
3680	B	10.73	1.01	11.74	37	-25.26

PSD = Meter Reading + Duty Cycle Correction

Checked By: *RICHARD E. KING*

Richard King



MANUFACTURER : Cambium Networks, Inc.
MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Peak to Average Ratio
DATE : January 7-17, 2019
NOTES : 20MHz Channel

Frequency (MHZ)	Antenna Port	Peak Meter Reading (dBm)	Average Meter Reading (dBm)	Peak to Average Total (dB)	Peak to Average Limit (dB)	Margin (dB)
3560	A	22.97	22.23	0.74	13	-12.26
3560	B	21.73	19.58	2.15	13	-10.85
3600	A	27.87	20.95	6.92	13	-6.08
3600	B	26.66	24.3	2.36	13	-10.64
3690	A	29.01	26.92	2.09	13	-10.91
3690	B	26.45	24.92	1.53	13	-11.47

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MODEL NO. : 3082CHH
SERIAL NO. : 0A003E452AD7
SPECIFICATION : FCC 96.41(e) Peak to Average Ratio
DATE : January 7-17, 2019
NOTES : 40MHz Channel

Frequency (MHZ)	Antenna Port	Peak Meter Reading (dBm)	Average Meter Reading (dBm)	Peak to Average Total (dB)	Peak to Average Limit (dB)	Margin (dB)
3570	A	22.61	18.28	4.33	13	-8.67
3570	B	21.9	19.38	2.52	13	-10.48
3600	A	24.07	17.61	6.46	13	-6.54
3600	B	18.33	18.05	0.28	13	-12.72
3680	A	23.83	18.87	4.96	13	-8.04
3680	B	18.96	18.05	0.91	13	-12.09

Checked By: *RICHARD E. King*
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