

Summary of Radiated Tx Emissions

Measured Frequency Range (MHz)	Channel Frequency	Antenna Polarization	Emission Frequency (MHz)	Measured Emission [E _{Meas}] (dBuV)	Antenna ACF [ACF] (dB)	Cable Loss [L _c] (dB)	Amplifier Gain [G _A] (dB)	Corrected Emission [E _{Corr}] (dBuV/m)	Limit (dBuV)	Margin (dB)
30-1000MHz	2412.0	Horizontal	47.01	9.24	14.60	0.75	0.00 (3)	24.6 (2)	40.0	15.4
30-1000MHz	2412.0	Horizontal	56.73	7.81	10.95	0.80	0.00 (3)	19.6 (2)	40.0	20.4
30-1000MHz	2412.0	Horizontal	57.27	8.03	10.87	0.80	0.00 (3)	19.7 (2)	40.0	20.3
30-1000MHz	2412.0	Horizontal	60.24	7.95	10.70	0.81	0.00 (3)	19.5 (2)	40.0	20.5
30-1000MHz	2412.0	Horizontal	843.20	9.19	29.58	2.84	0.00 (3)	41.6 (2)	46.0	4.4
30-1000MHz	2412.0	Vertical	908.30	8.76	29.50	2.94	0.00 (3)	41.2 (2)	46.0	4.8
30-1000MHz	2412.0	Vertical	911.10	8.60	29.41	2.95	0.00 (3)	41.0 (2)	46.0	5.1
1 - 3GHz	2412.0	Horizontal	ND	ND (1)	27.40	4.58	0.00 (3)	ND	54.0	n/a
1 - 3GHz	2412.0	Vertical	ND	ND (1)	27.40	4.58	0.00 (3)	ND	54.0	n/a
3-13GHz	2412.0	Horizontal	ND	ND (1)	36.76	9.86	0.00 (3)	ND	54.0	n/a
3-13GHz	2412.0	Vertical	ND	ND (1)	36.76	9.86	0.00 (3)	ND	54.0	n/a
13-18GHz	2412.0	Horizontal	ND	ND (1)	38.75	16.54	0.00 (3)	ND	54.0	n/a
13-18GHz	2412.0	Vertical	ND	ND (1)	38.75	16.54	0.00 (3)	ND	54.0	n/a
18-26GHz	2412.0	Horizontal	ND	ND (1)	43.50	21.86	26.00	ND	54.0	n/a
18-26GHz	2412.0	Vertical	ND	ND (1)	43.50	21.86	26.00	ND	54.0	n/a
Results:									Complies	

(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

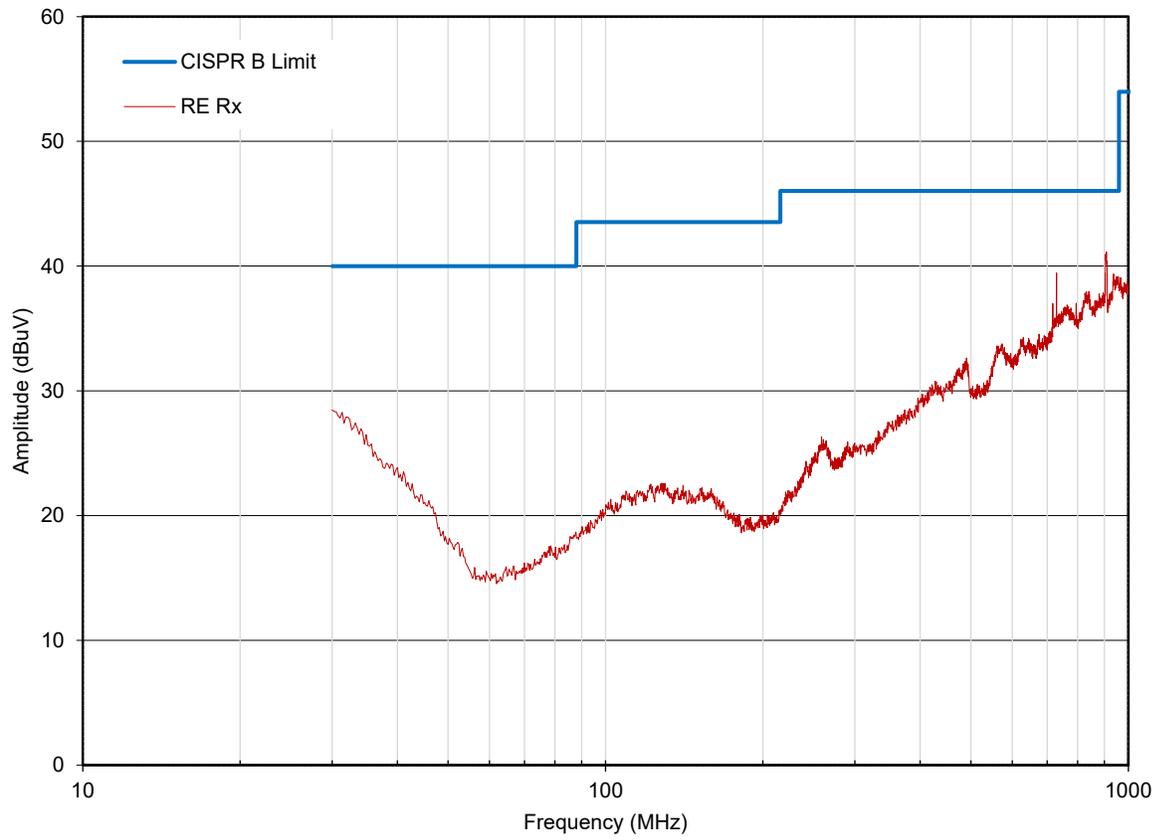
(2) Antenna ACF, Cable Loss and Amplifier Gain corrected in Spectrum Analyzer Transducer Factor

(3) External Amplifier not used

$$E_{\text{Corr}} = E_{\text{Meas}} + \text{ACF} + L_{\text{C}} - G_{\text{A}}$$

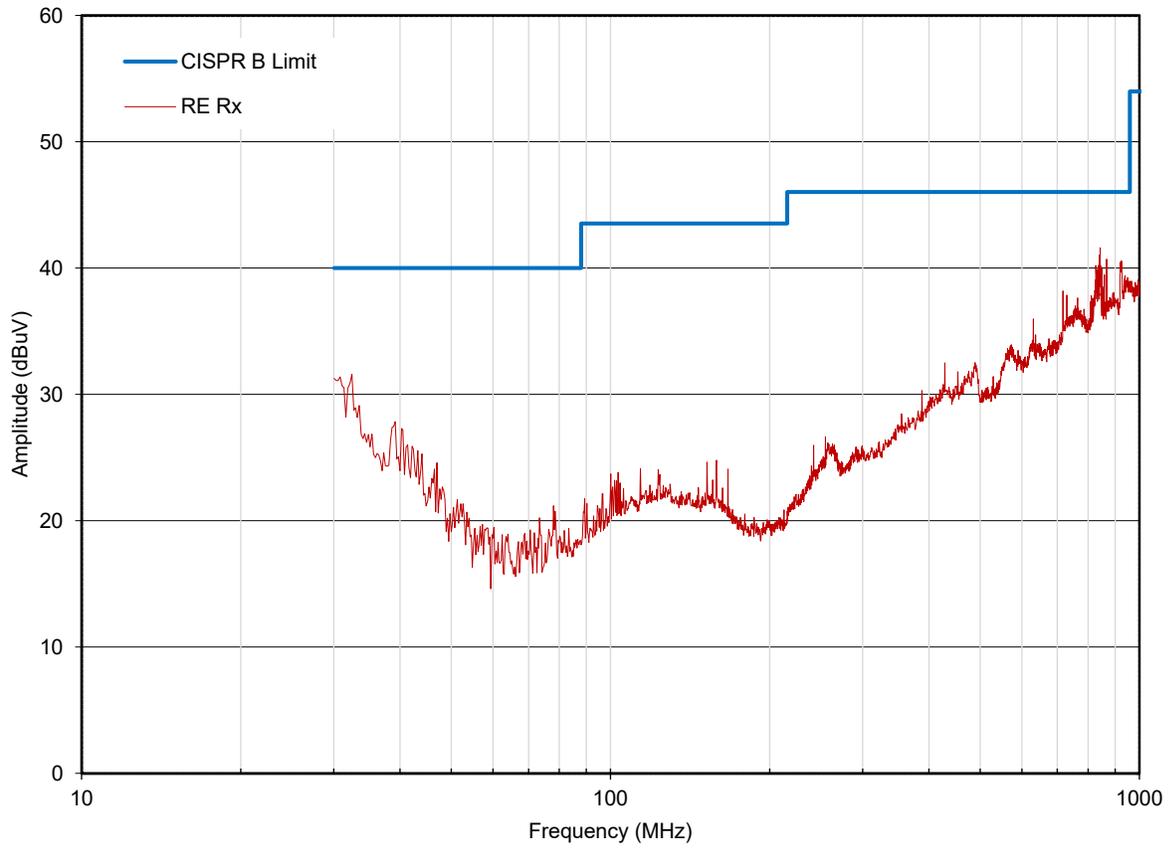
Radiated Tx Emissions:

Radiated Tx Emissions (30MHz - 1GHz)
OATS Vertical



Radiated Tx Emissions:

Radiated Tx Emissions (30MHz - 1GHz)
OATS Horizontal



Radiated Tx Emissions:

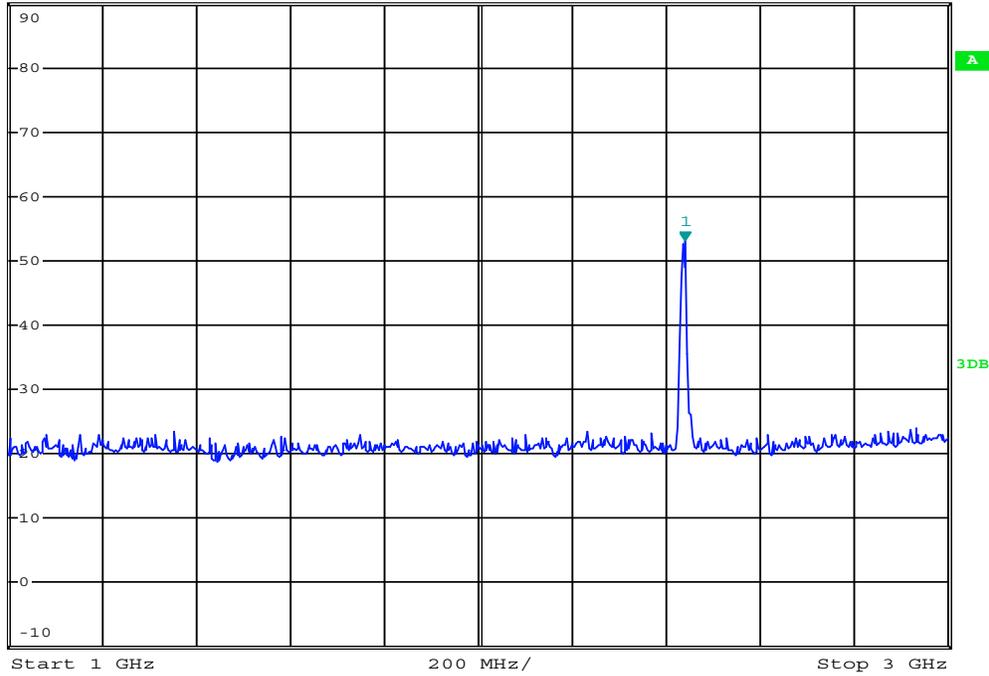


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 53.01 dBμV
SWT 10 ms 2.440000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Date: 31.JAN.2023 18:15:26

Channel:

Mode:

Polarization:

Marker 1 = Fundamental

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

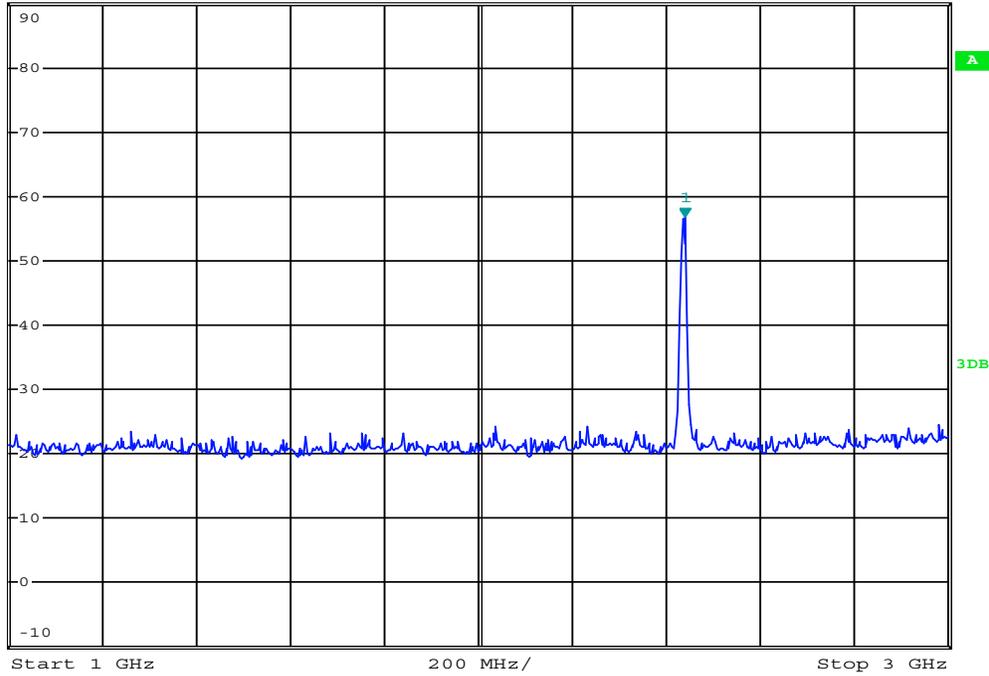


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 56.93 dBμV
SWT 10 ms 2.440000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Date: 31.JAN.2023 18:17:01

Channel:

Mode:

Polarization:

Marker 1 = Fundamental

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

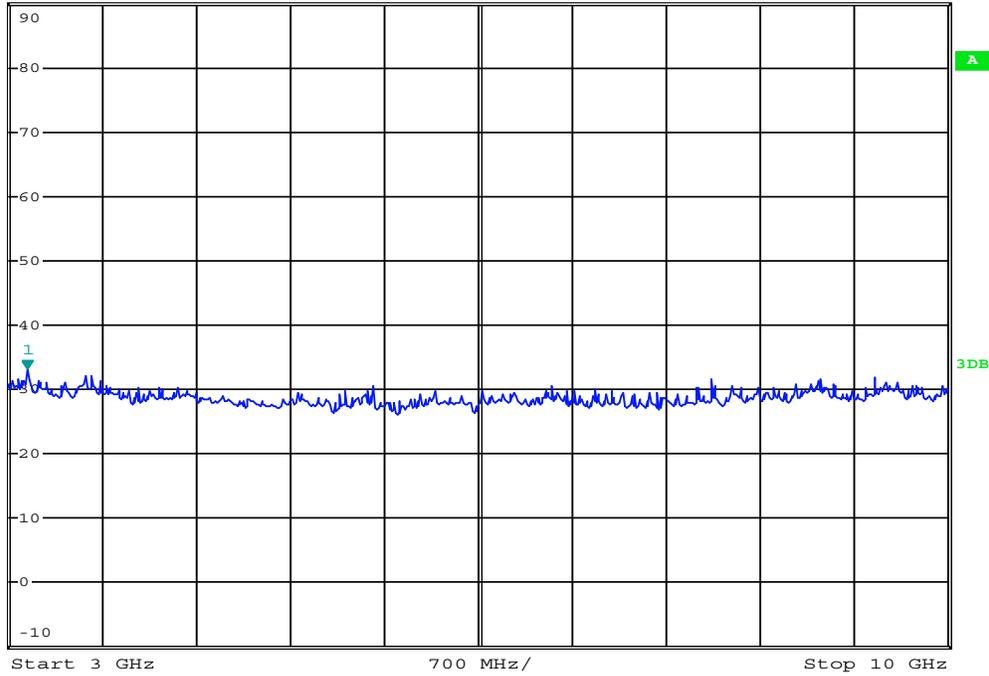


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 33.08 dBμV
SWT 140 ms 3.140000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Date: 31.JAN.2023 18:15:39

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

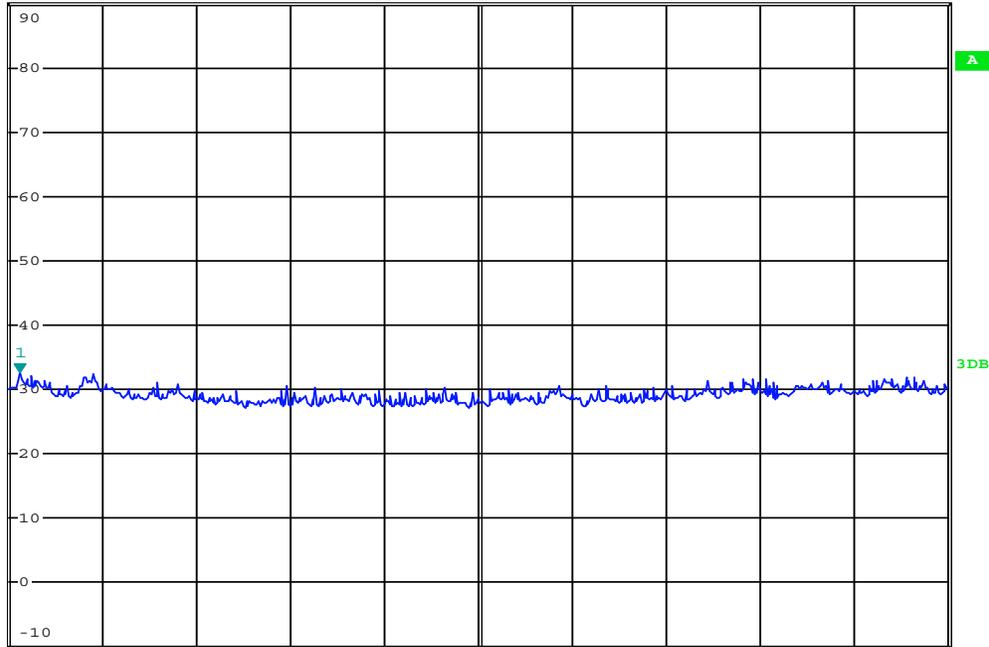


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 32.66 dBμV
SWT 140 ms 3.084000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 3 GHz

700 MHz/

Stop 10 GHz

Date: 31.JAN.2023 18:17:18

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

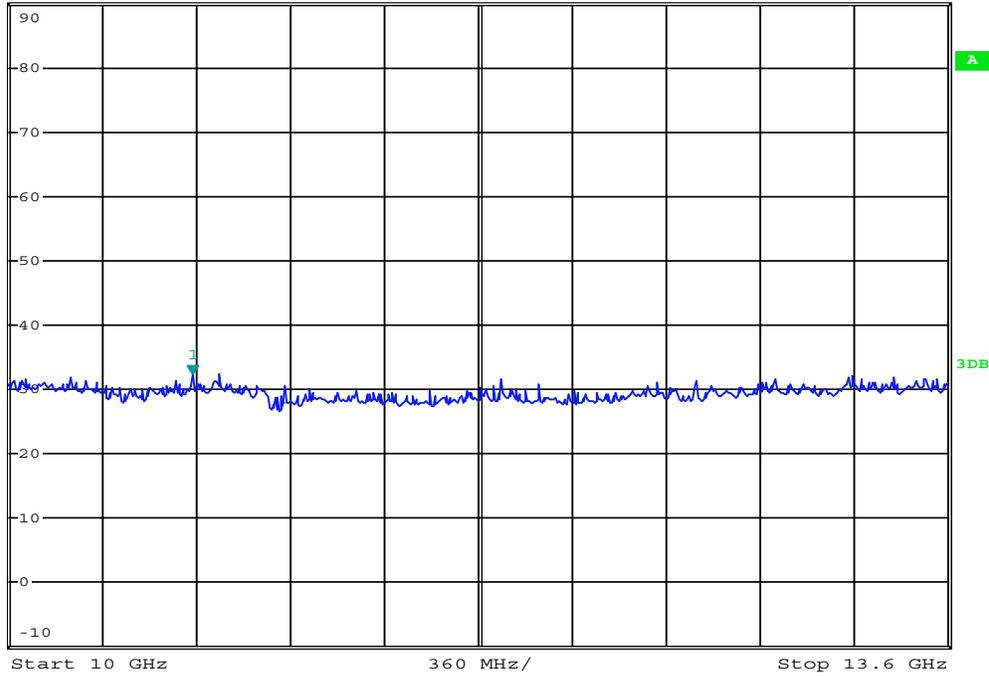


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 32.38 dBμV
SWT 75 ms 10.705600000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Date: 31.JAN.2023 18:15:56

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

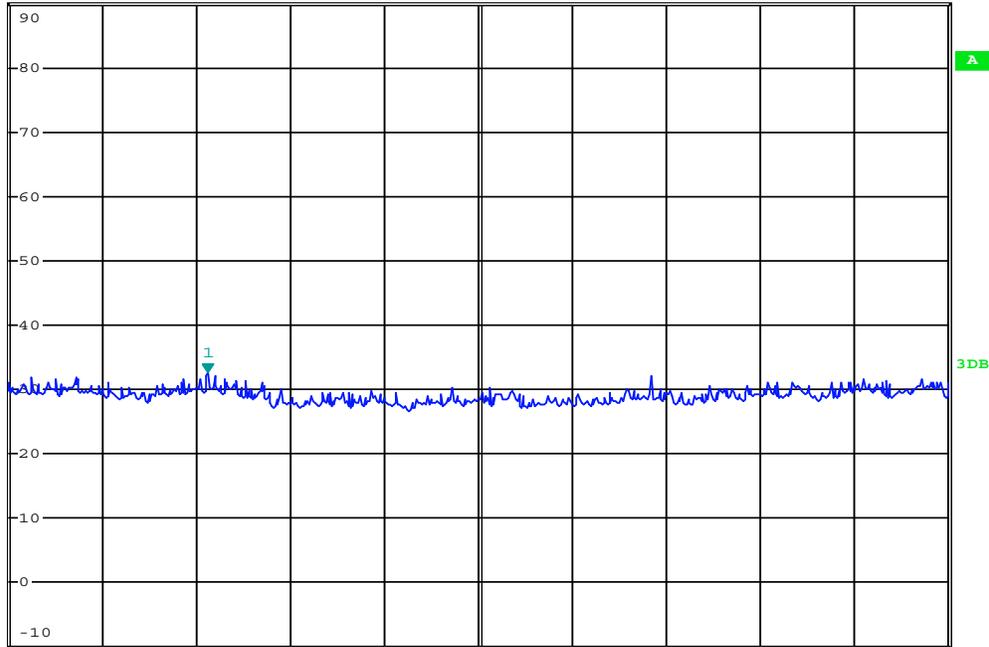


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 32.66 dBμV
SWT 75 ms 10.763200000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 10 GHz

360 MHz/

Stop 13.6 GHz

Date: 31.JAN.2023 18:19:32

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

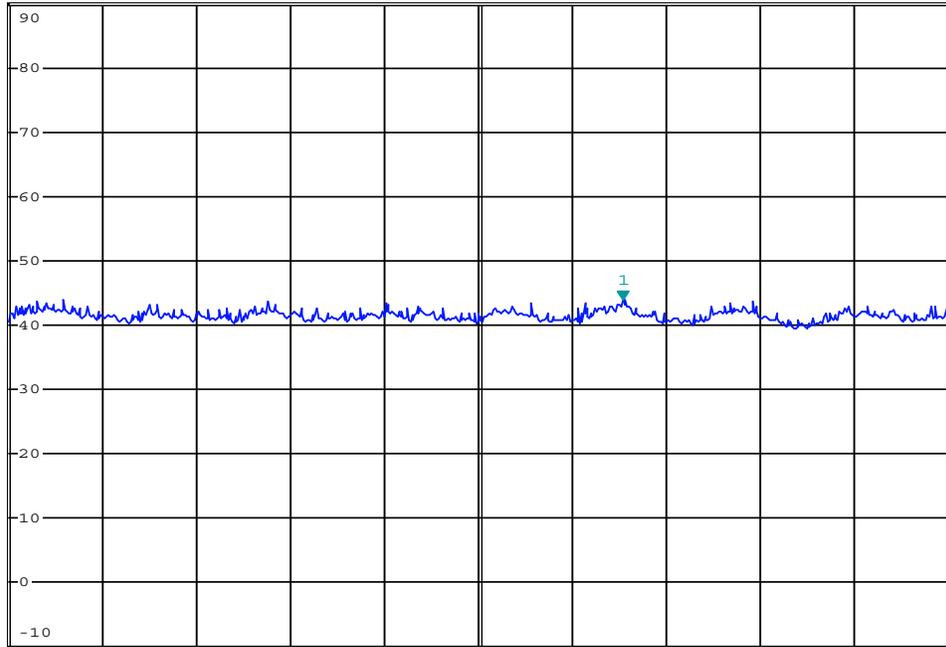


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 43.87 dBμV
SWT 90 ms 16.477600000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
MAXH



Start 13.6 GHz

440 MHz/

Stop 18 GHz

Date: 31.JAN.2023 18:16:13

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

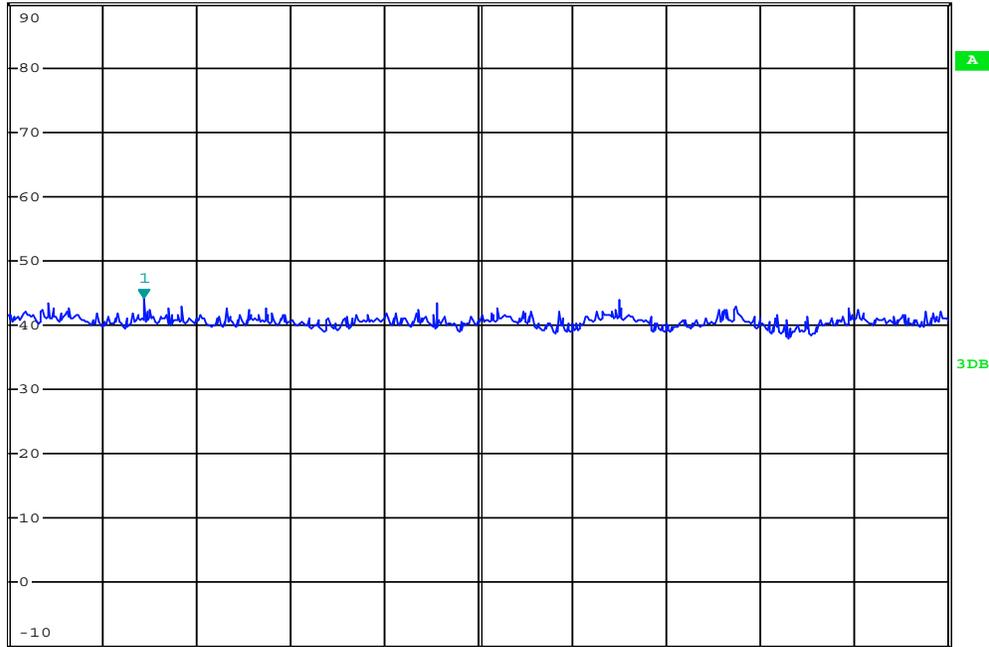


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 44.22 dBμV
SWT 90 ms 14.233600000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 13.6 GHz

440 MHz/

Stop 18 GHz

Date: 31.JAN.2023 18:20:15

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

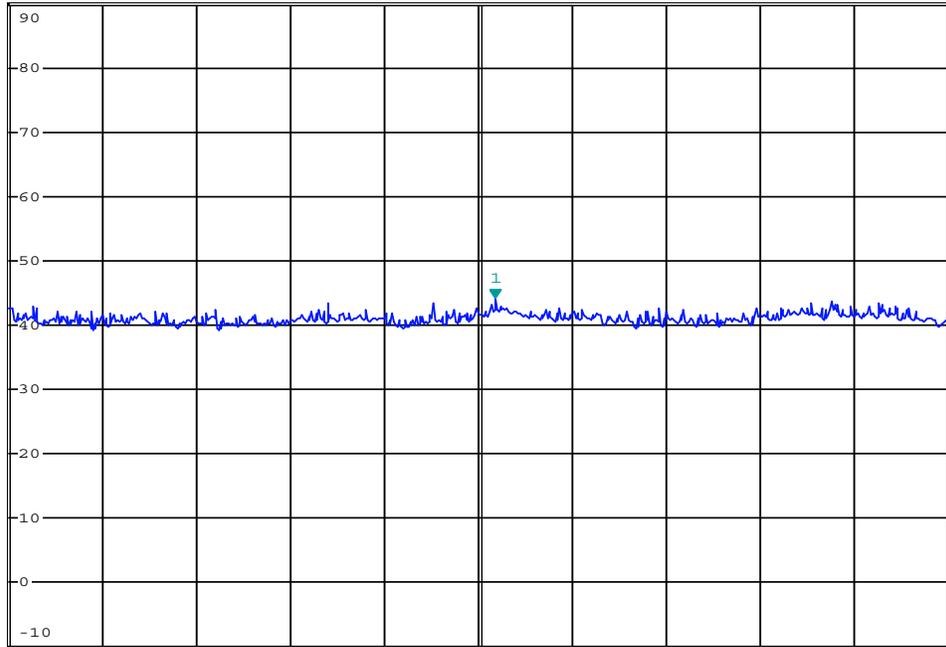


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 44.31 dBμV
SWT 80 ms 20.072000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 18 GHz

400 MHz/

Stop 22 GHz

Date: 31.JAN.2023 18:37:10

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

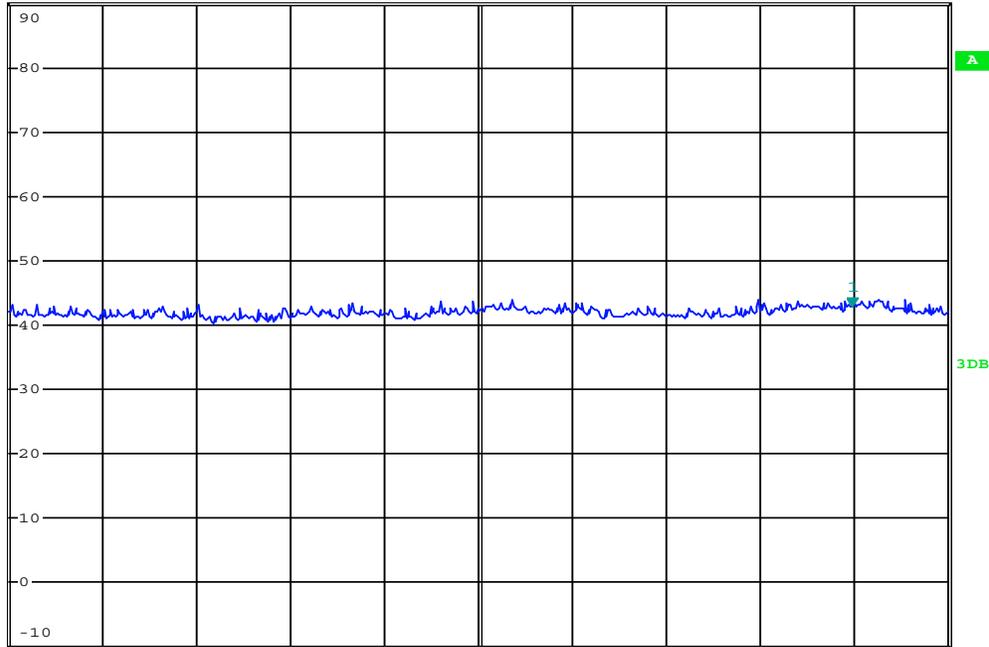


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 42.83 dBμV
SWT 80 ms 21.592000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
MAXH



Start 18 GHz

400 MHz/

Stop 22 GHz

Date: 31.JAN.2023 18:37:45

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

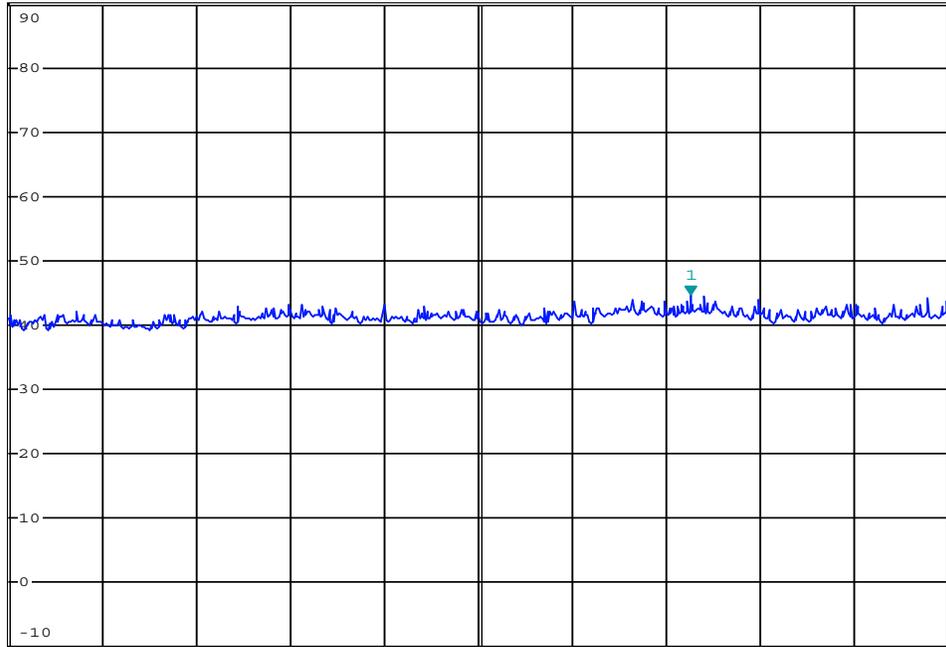


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 44.68 dBμV
SWT 80 ms 24.904000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 22 GHz

400 MHz/

Stop 26 GHz

Date: 31.JAN.2023 18:37:27

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

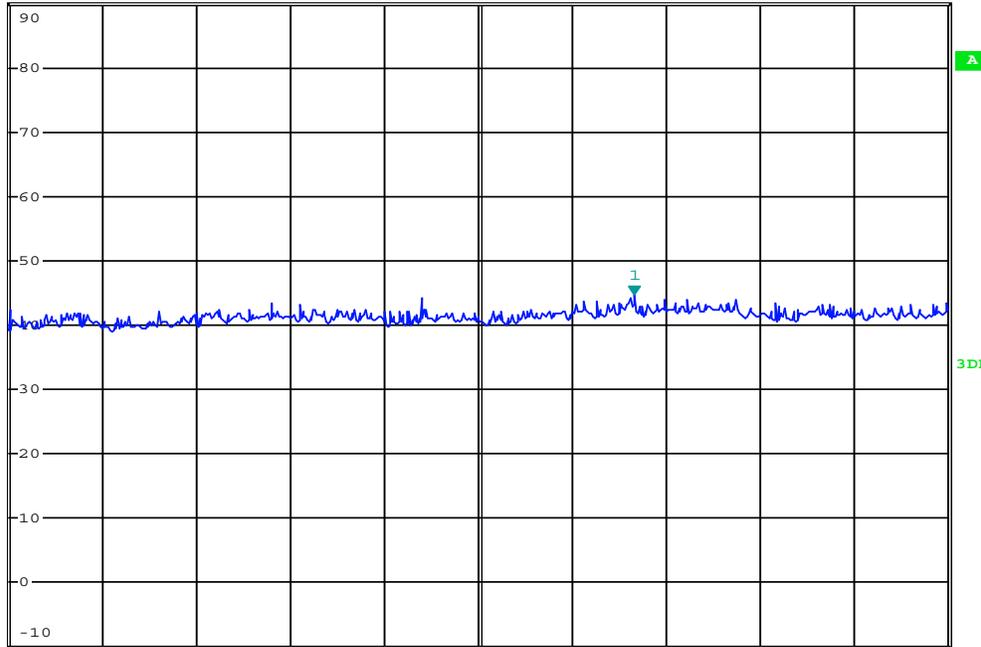


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz 44.69 dBμV
SWT 80 ms 24.664000000 GHz

Ref 90 dBμV

*Att 0 dB

1 PK
VIEW



Start 22 GHz

400 MHz/

Stop 26 GHz

Date: 31.JAN.2023 18:38:00

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Summary of Radiated Tx Emissions

Measured Frequency Range (MHz)	Channel Frequency	Antenna Polarization	Emission Frequency (MHz)	Measured Emission [E _{Meas}] (dBuV)	Antenna ACF [ACF] (dB)	Cable Loss [L _C] (dB)	Amplifier Gain [G _A] (dB)	Corrected Emission [E _{Corr}] (dBuV/m)	Limit (dBuV)	Margin (dB)
30-1000MHz	2440.0	Horizontal	56.46	7.48	11.01	0.79	0.00 (3)	19.3 (2)	40.0	20.7
30-1000MHz	2440.0	Horizontal	61.32	7.44	10.70	0.82	0.00 (3)	19.0 (2)	40.0	21.0
30-1000MHz	2440.0	Horizontal	67.80	7.37	11.18	0.85	0.00 (3)	19.4 (2)	40.0	20.6
30-1000MHz	2440.0	Horizontal	843.20	8.76	29.58	2.84	0.00 (3)	41.2 (2)	46.0	4.8
30-1000MHz	2440.0	Horizontal	867.70	8.42	29.40	2.88	0.00 (3)	40.7 (2)	46.0	5.3
30-1000MHz	2440.0	Horizontal	922.30	8.61	29.70	2.97	0.00 (3)	41.3 (2)	46.0	4.7
30-1000MHz	2440.0	Vertical	908.30	8.86	29.50	2.94	0.00 (3)	41.3 (2)	46.0	4.7
30-1000MHz	2440.0	Vertical	911.10	8.70	29.41	2.95	0.00 (3)	41.1 (2)	46.0	5.0
1 - 3GHz	2440.0	Horizontal	ND	ND (1)	27.40	4.58	0.00 (3)	ND	54.0	n/a
1 - 3GHz	2440.0	Vertical	ND	ND (1)	27.40	4.58	0.00 (3)	ND	54.0	n/a
3-13GHz	2440.0	Horizontal	ND	ND (1)	36.76	9.86	0.00 (3)	ND	54.0	n/a
3-13GHz	2440.0	Vertical	ND	ND (1)	36.76	9.86	0.00 (3)	ND	54.0	n/a
13-18GHz	2440.0	Horizontal	ND	ND (1)	38.75	16.54	0.00 (3)	ND	54.0	n/a
13-18GHz	2440.0	Vertical	ND	ND (1)	38.75	16.54	0.00 (3)	ND	54.0	n/a
18-26GHz	2440.0	Horizontal	ND	ND (1)	43.50	21.86	26.00	ND	54.0	n/a
18-26GHz	2440.0	Vertical	ND	ND (1)	43.50	21.86	26.00	ND	54.0	n/a
Results:									Complies	

(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

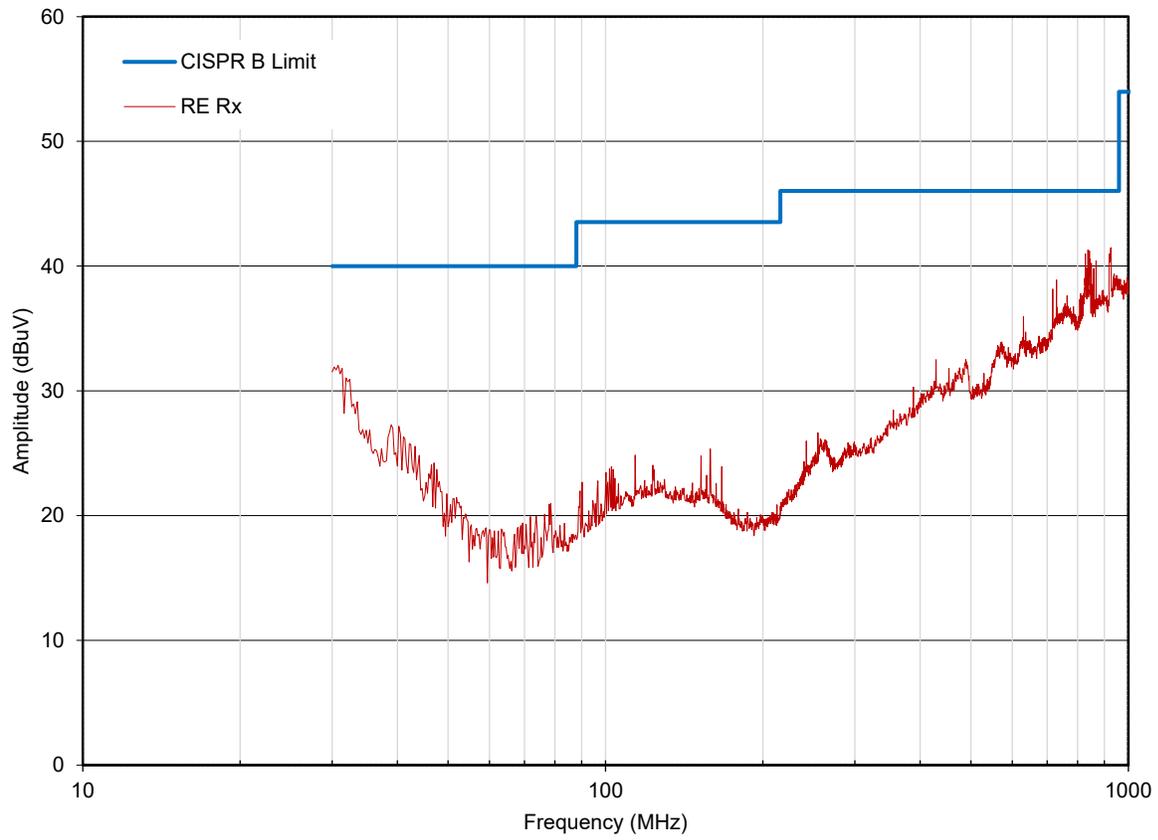
(2) Antenna ACF, Cable Loss and Amplifier Gain corrected in Spectrum Analyzer Transducer Factor

(3) External Amplifier not used

$$E_{\text{Corr}} = E_{\text{Meas}} + \text{ACF} + L_{\text{C}} - G_{\text{A}}$$

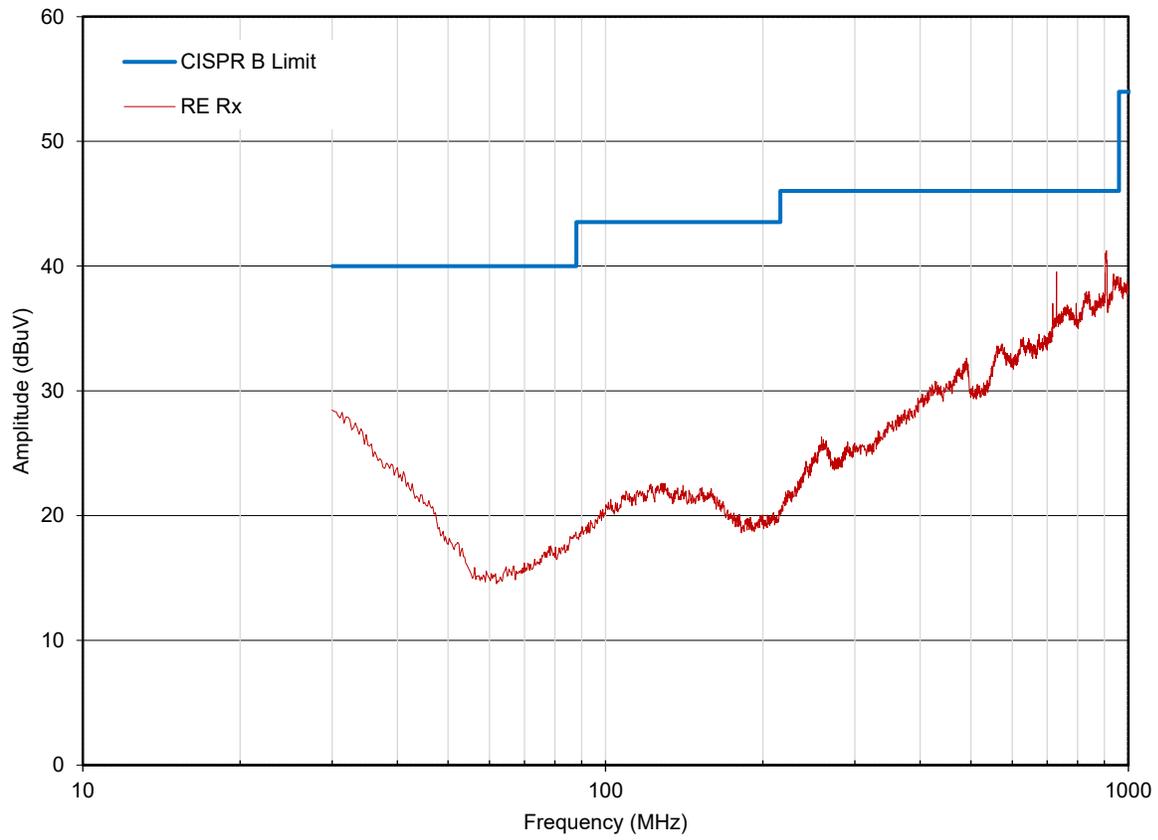
Radiated Tx Emissions:

Radiated Tx Emissions (30MHz - 1GHz)
OATS Horizontal



Radiated Tx Emissions:

Radiated Tx Emissions (30MHz - 1GHz)
OATS Vertical



Radiated Tx Emissions:

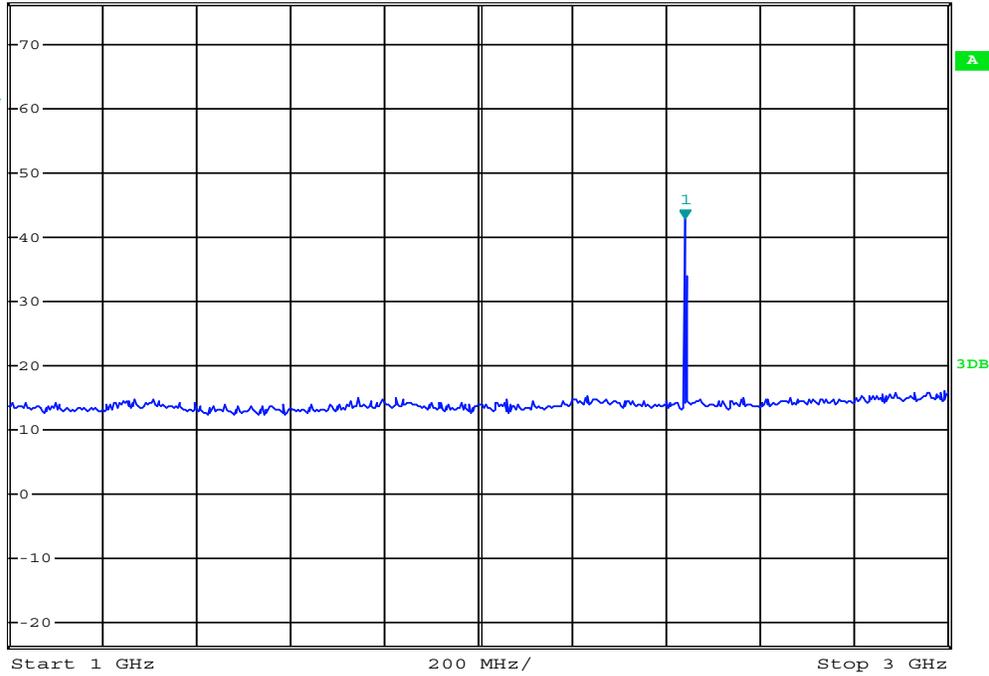


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 42.74 dBμV
SWT 10 ms 2.440000000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Date: 31.JAN.2023 15:16:57

Channel:

Mode:

Polarization:

Marker 1 = Fundamental

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

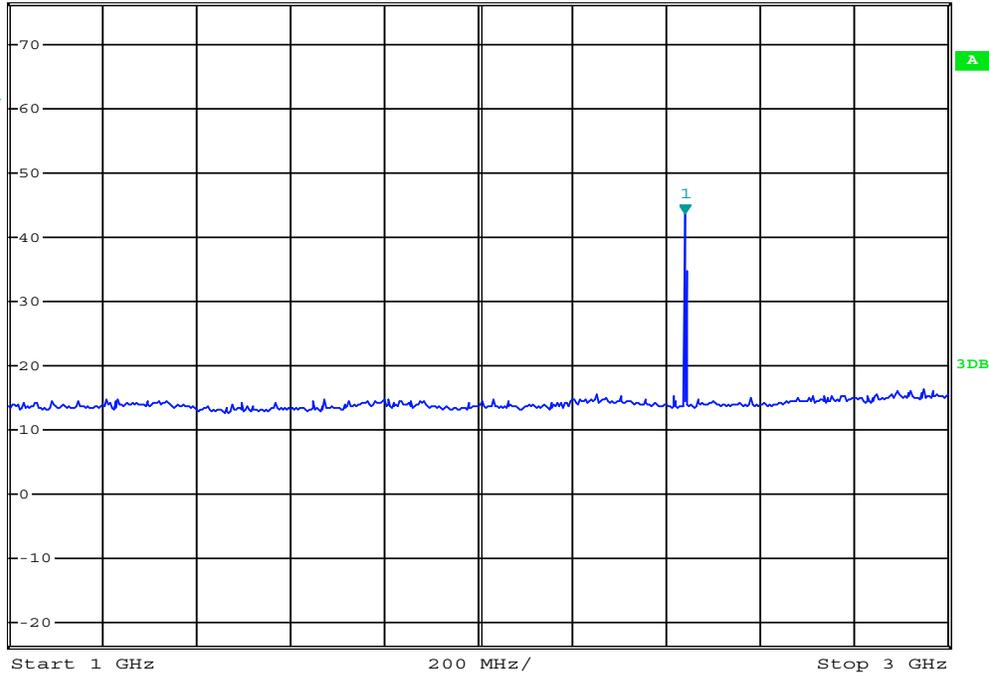


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 43.66 dBμV
SWT 10 ms 2.440000000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Date: 31.JAN.2023 15:15:04

Channel:

Mode:

Polarization:

Marker 1 = Fundamental

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

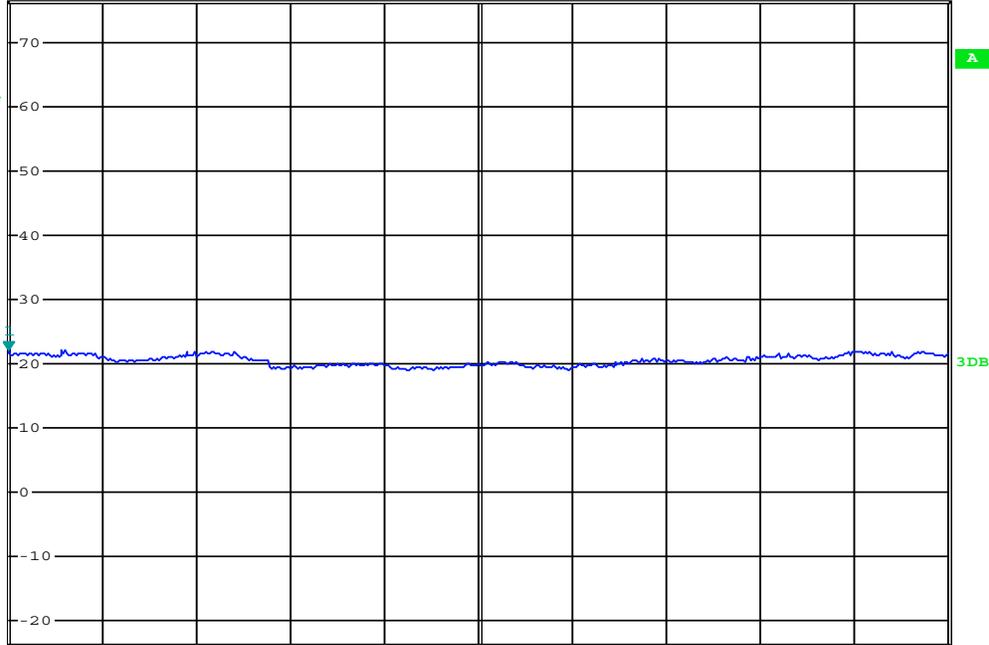


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 22.19 dBμV
SWT 75 ms 10.000000000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Start 10 GHz

360 MHz/

Stop 13.6 GHz

Date: 31.JAN.2023 15:15:40

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

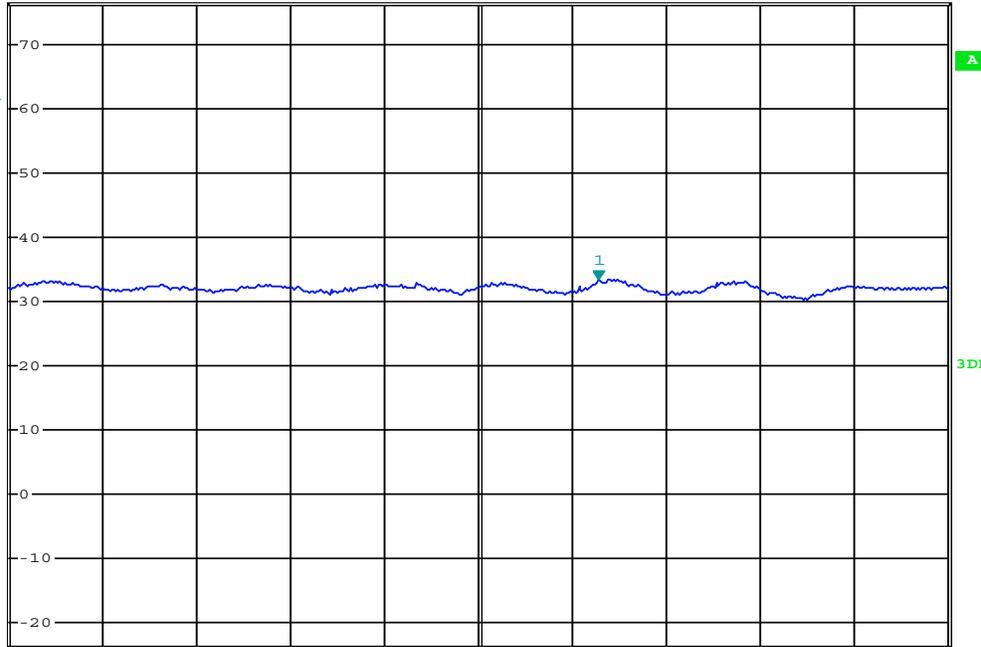


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 33.53 dBμV
SWT 90 ms 16.363200000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Start 13.6 GHz

440 MHz/

Stop 18 GHz

Date: 31.JAN.2023 15:18:13

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

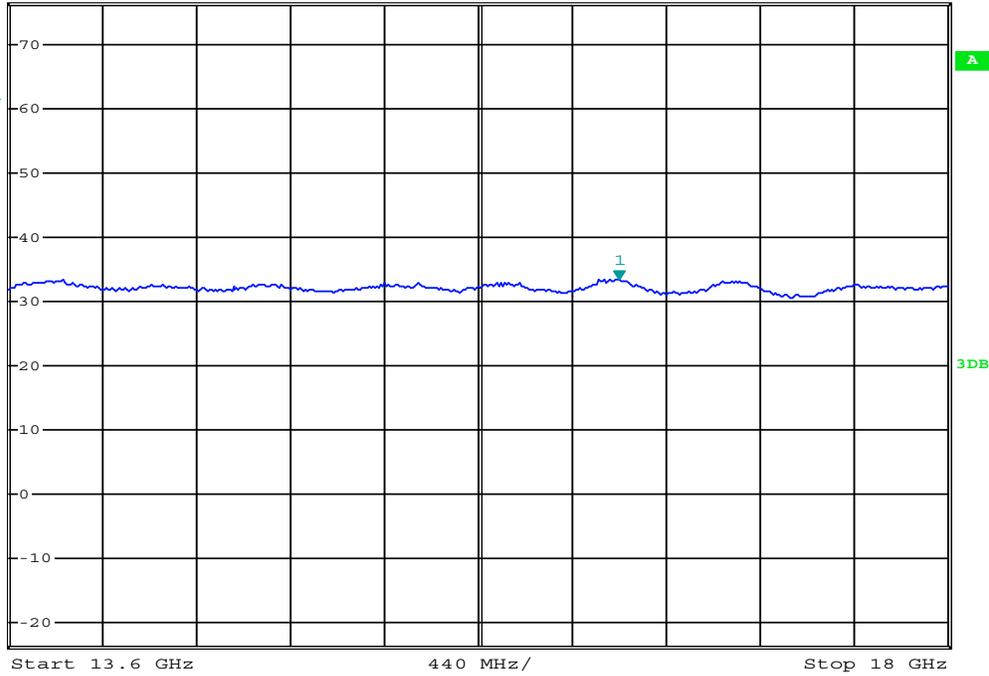


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 33.37 dBμV
SWT 90 ms 16.460000000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Date: 31.JAN.2023 15:16:04

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

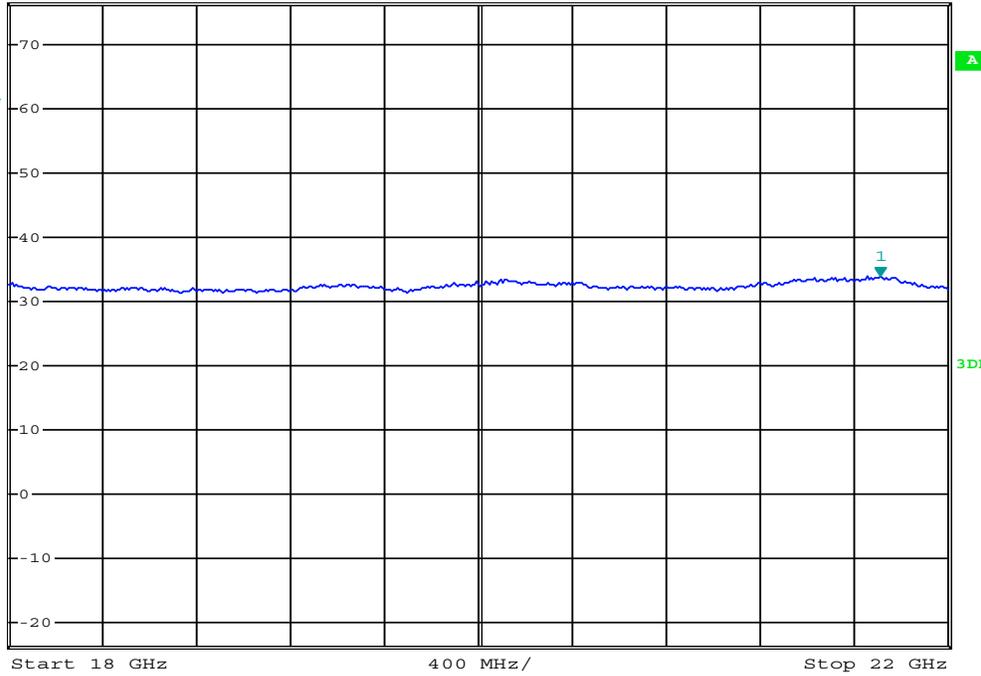


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 33.94 dBμV
SWT 80 ms 21.712000000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Date: 31.JAN.2023 15:47:16

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

Radiated Tx Emissions:

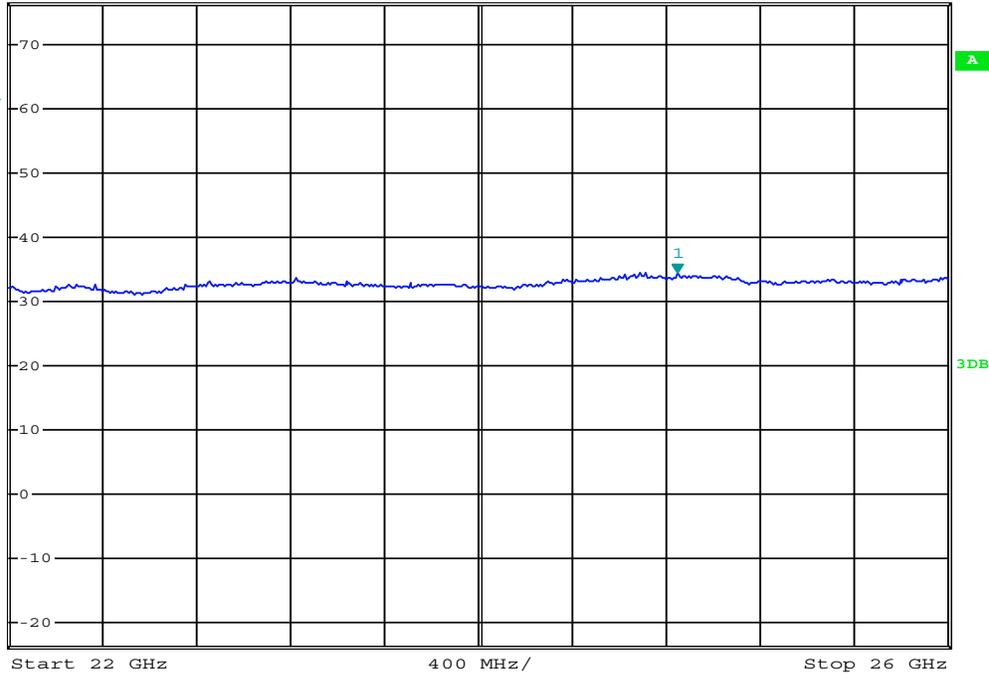


*RBW 1 MHz Marker 1 [T1]
VBW 10 MHz 34.39 dBμV
SWT 80 ms 24.84800000 GHz

Ref 76.3 dBμV

*Att 0 dB

1 RM
VIEW



Date: 31.JAN.2023 15:46:51

Channel:

Mode:

Polarization:

Channel Frequency: MHz

Modulation:

Measured Emission: dBm

