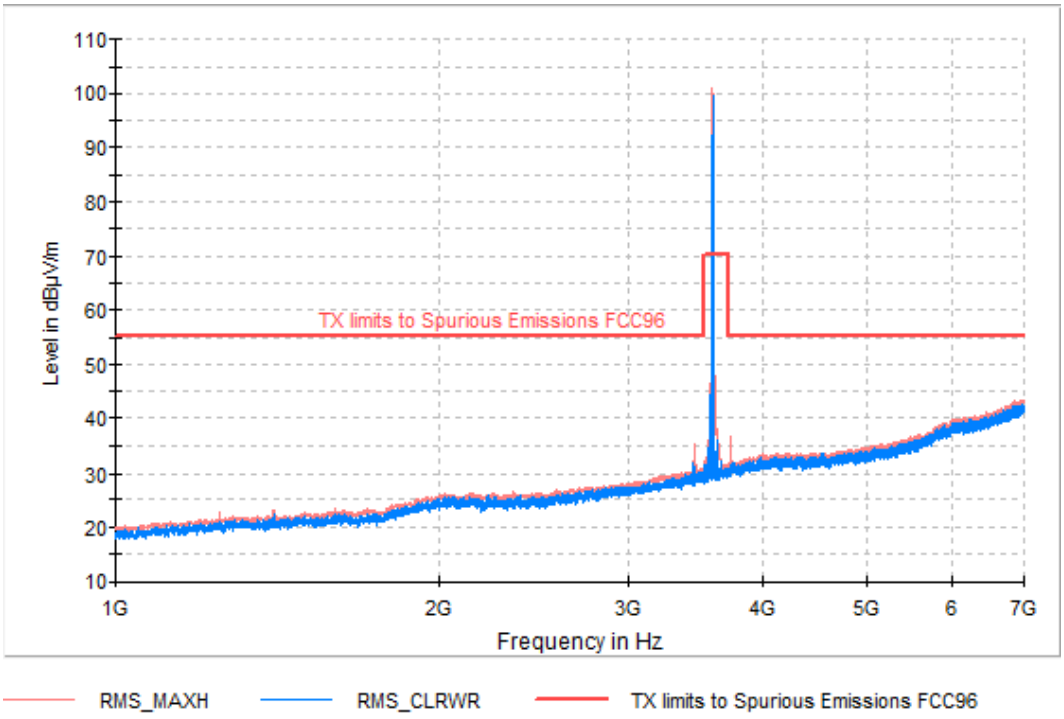
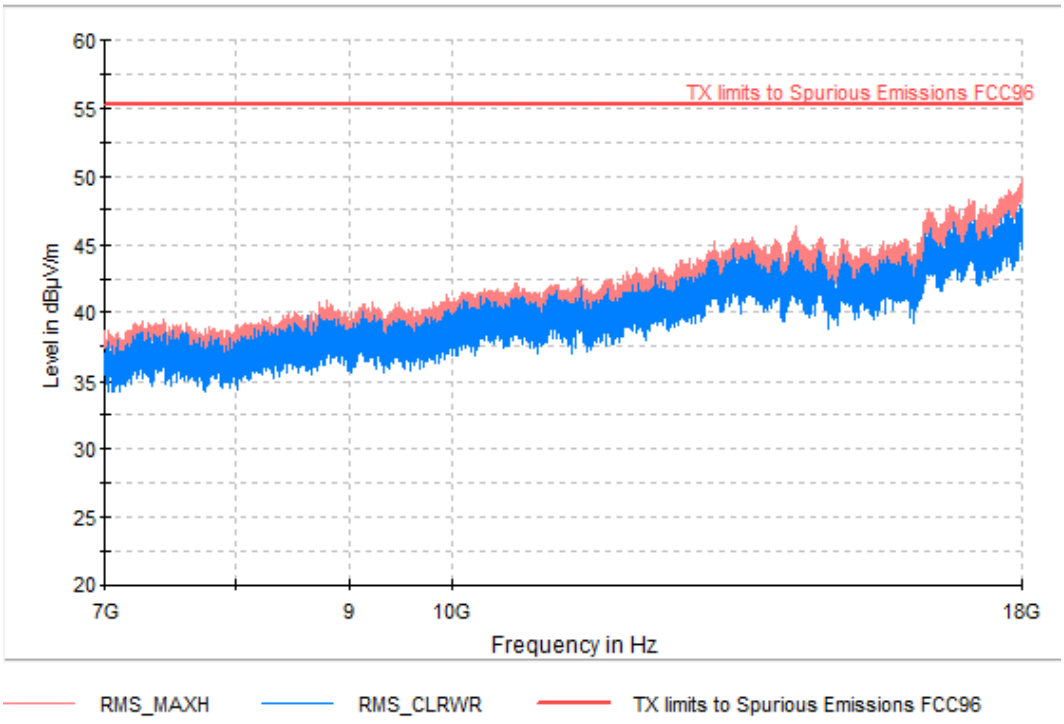
TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3595 MHz)



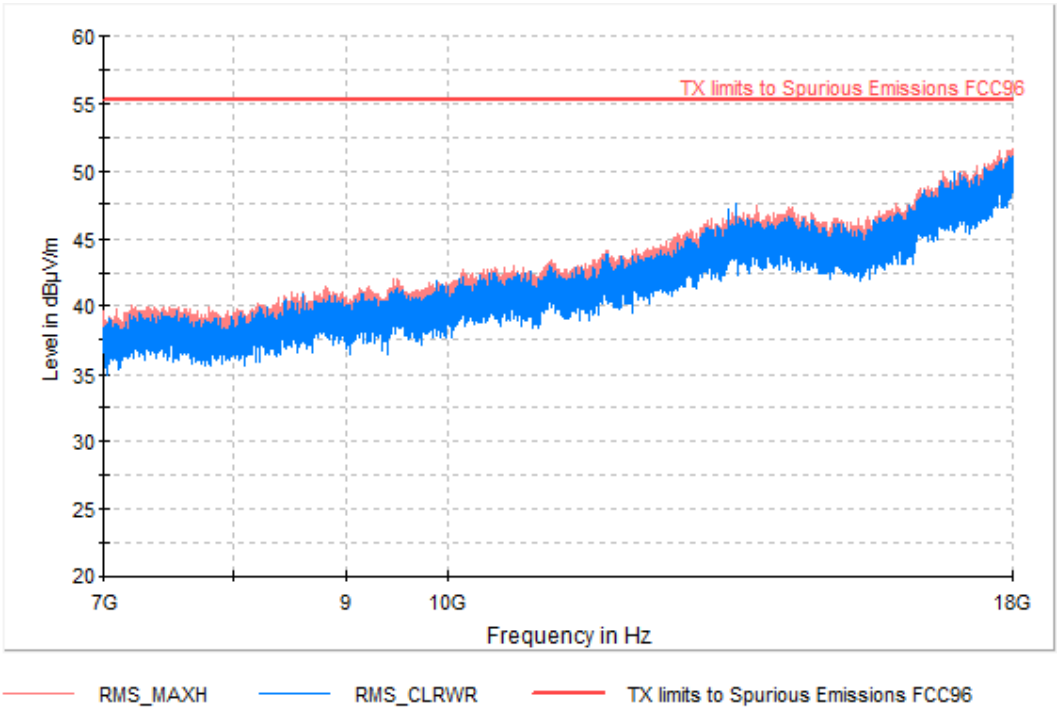
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3555 MHz)

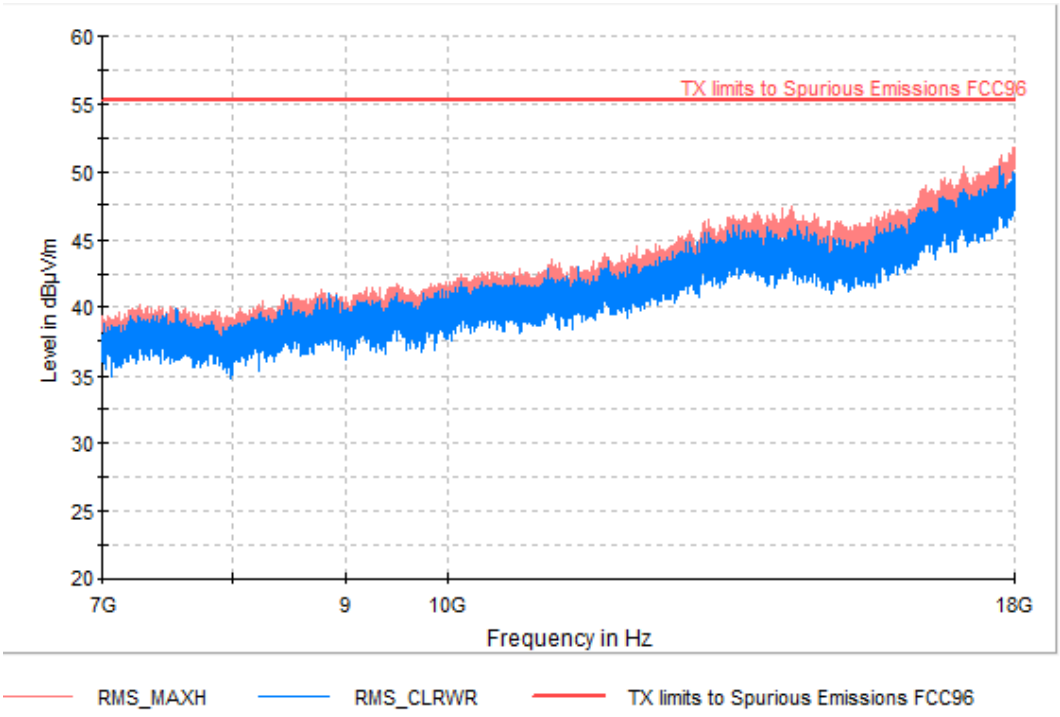


TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3575 MHz)



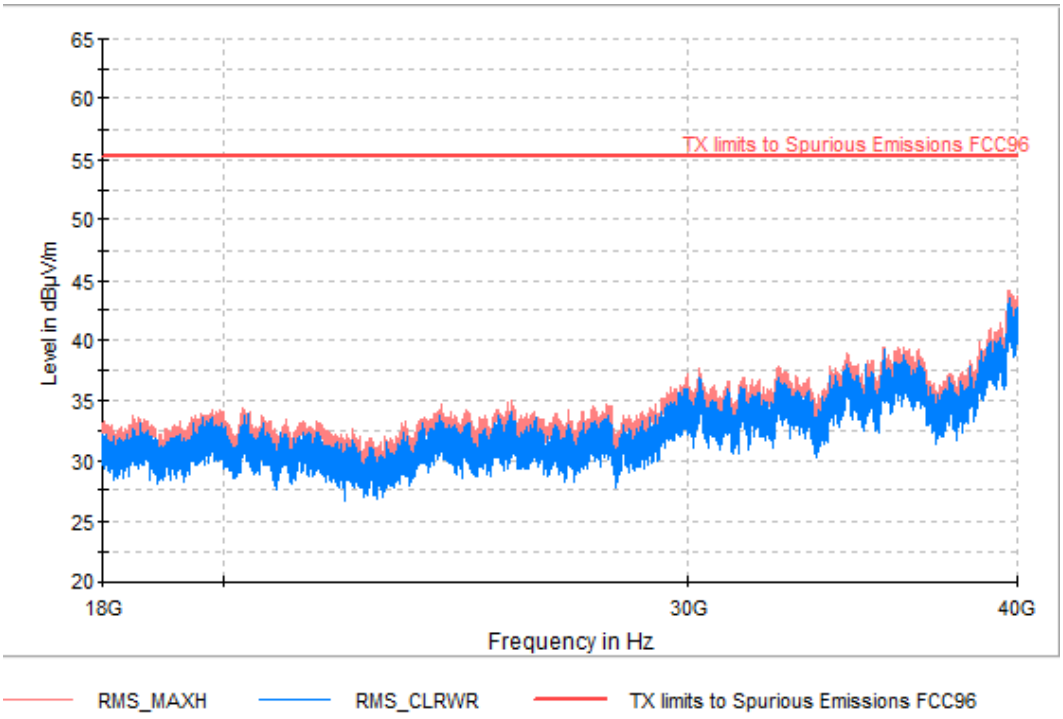
Highest Channel (3595 MHz)



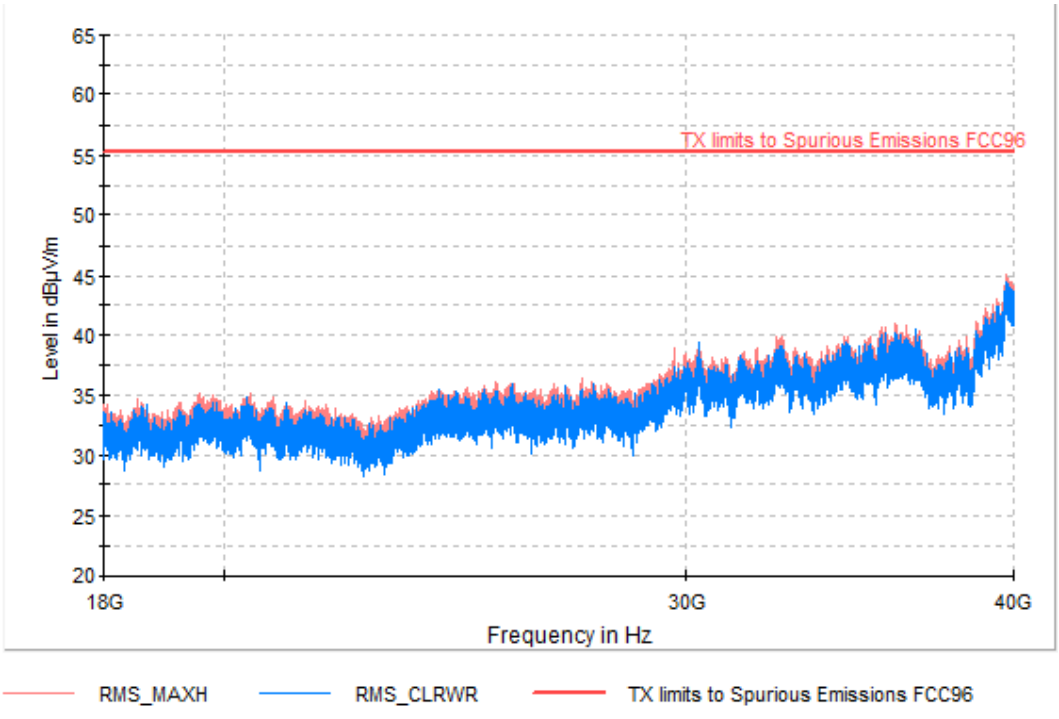
TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3555 MHz)

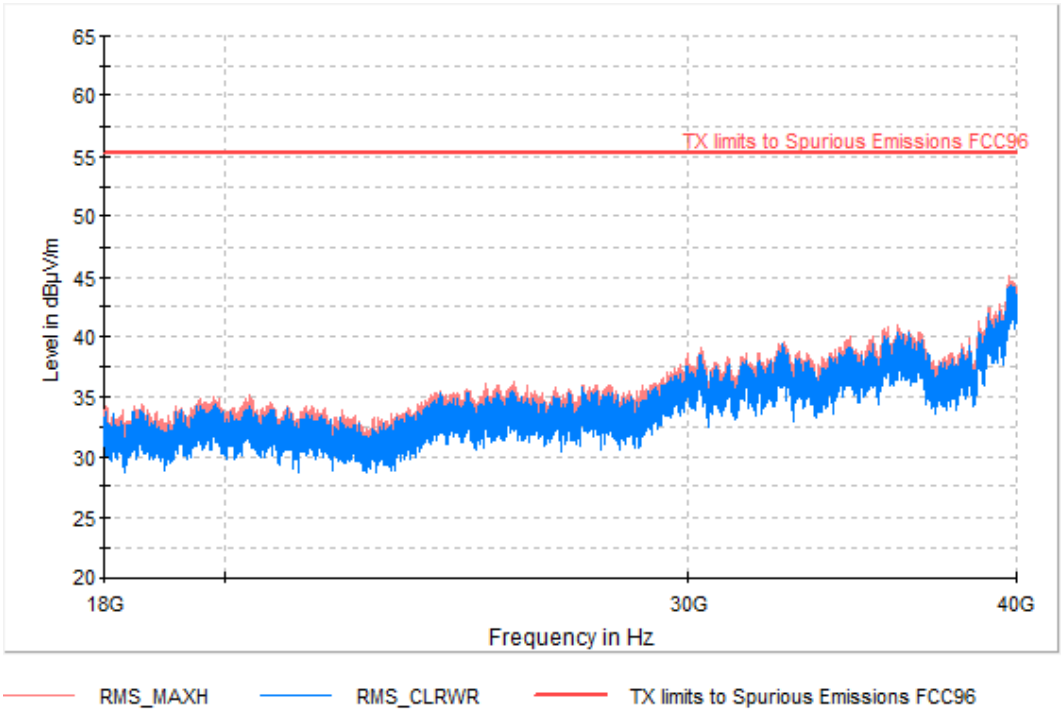


Middle Channel (3575 MHz)



TEST RESULTS (Cont.):	10 MHz BW Highest Channel (3695 MHz)

Highest Channel (3595 MHz)

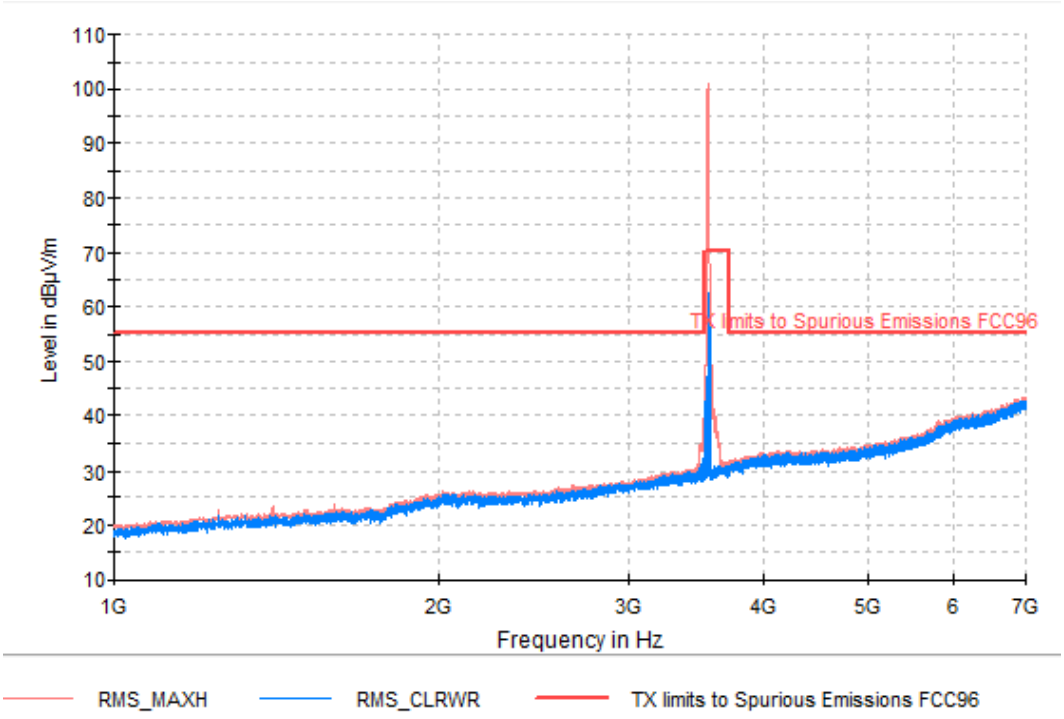


TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 1-7 GHz

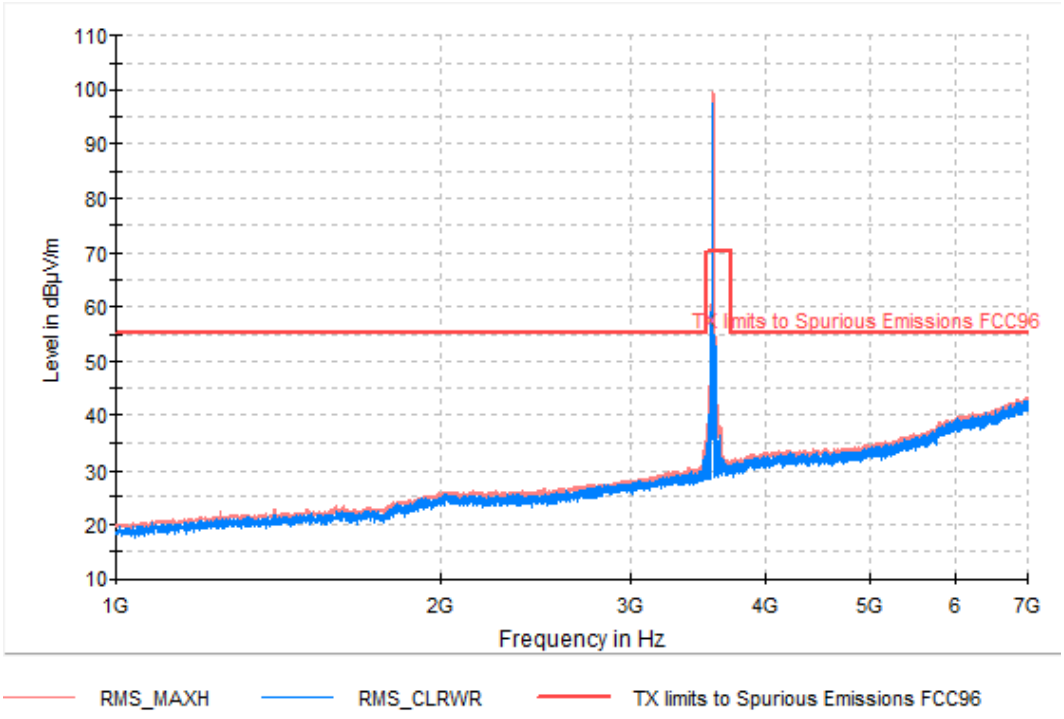
15 MHz BW

FREQUENCY RANGE 1-7 GHz

Lowest Channel (3557.5 MHz)

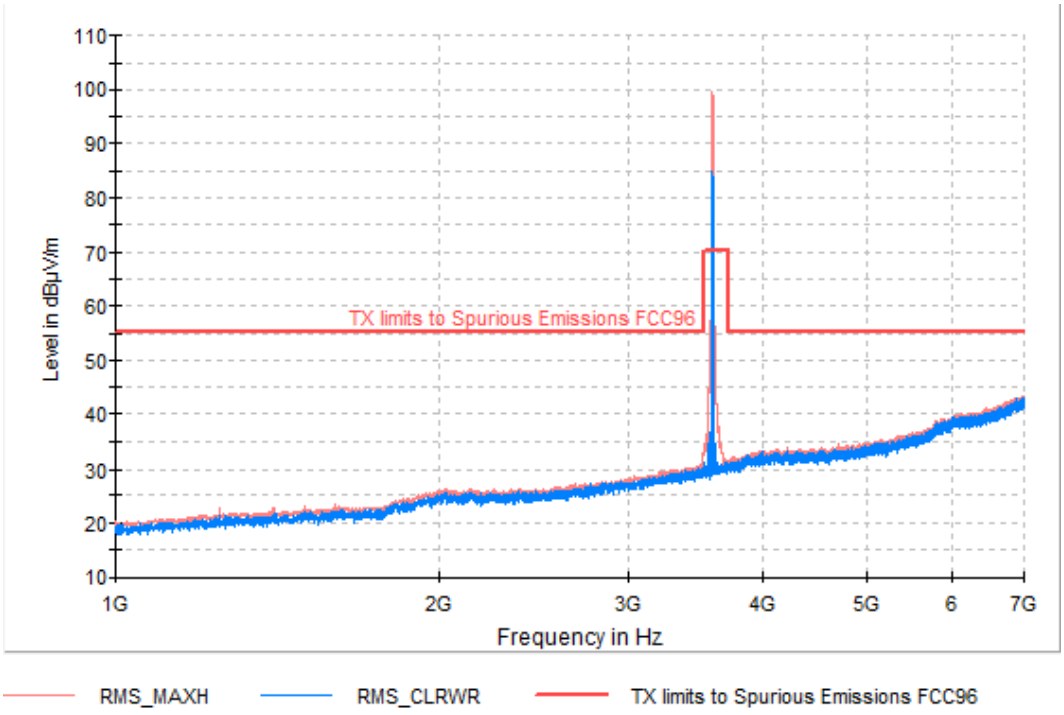


Middle Channel (3575 MHz)



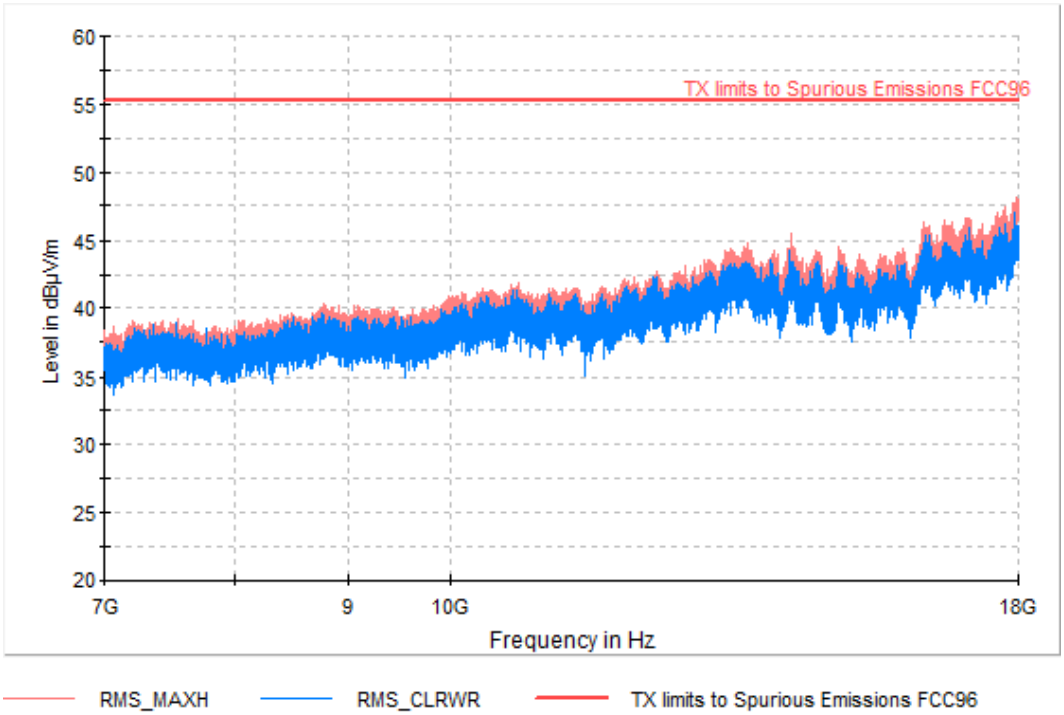
TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3592.5 MHz)



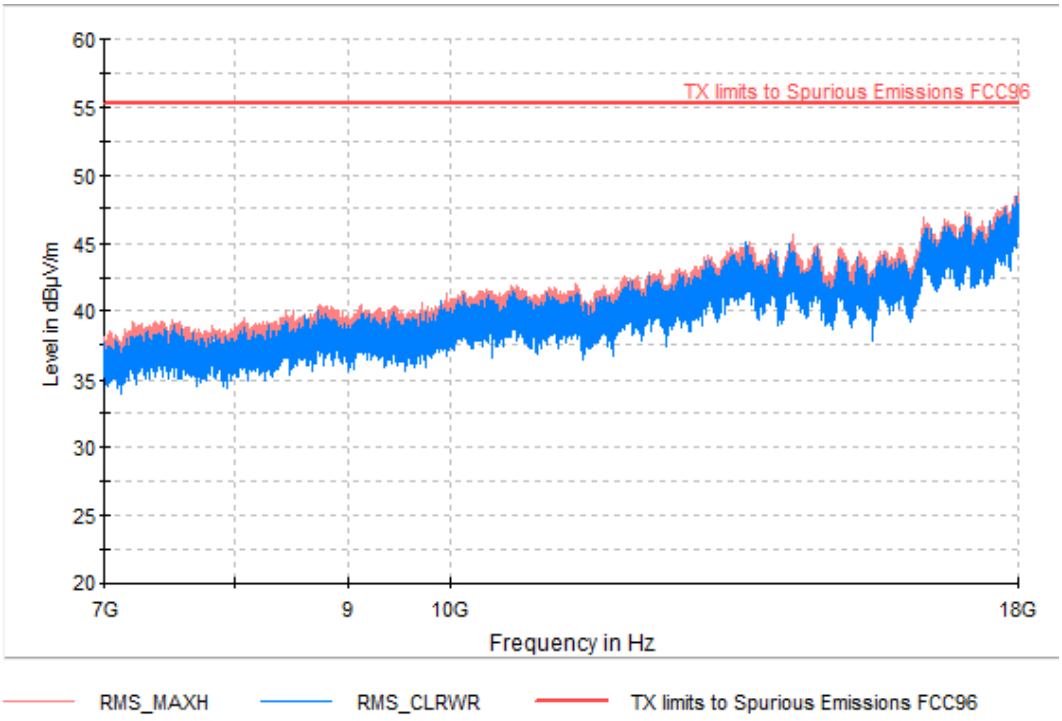
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3557.5 MHz)

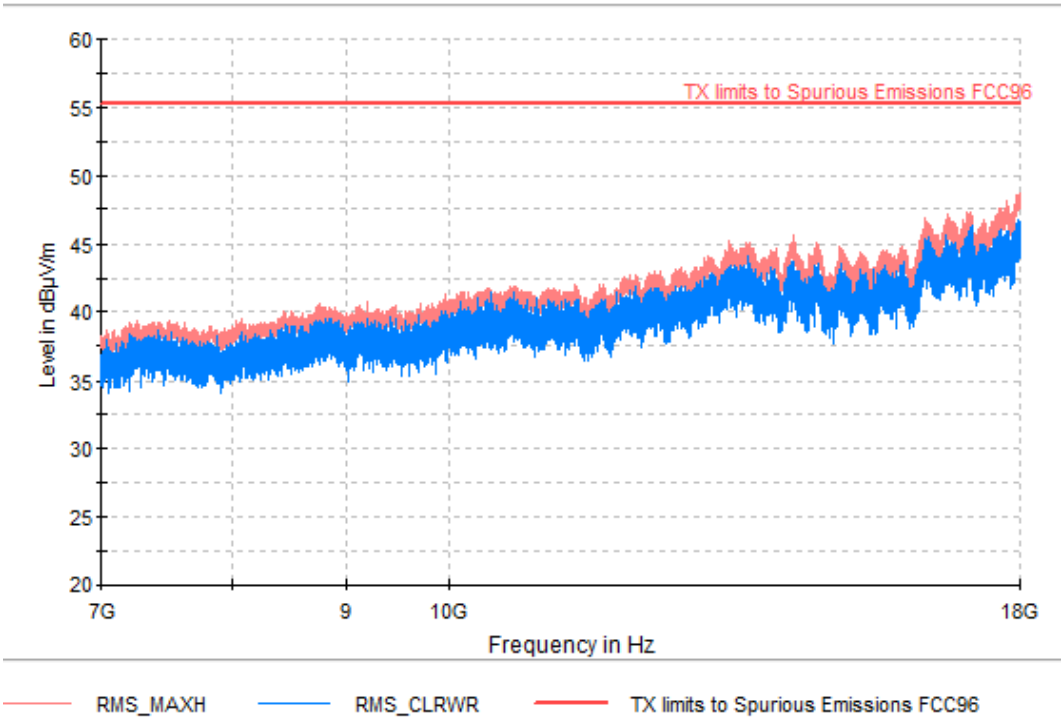


TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3575 MHz)



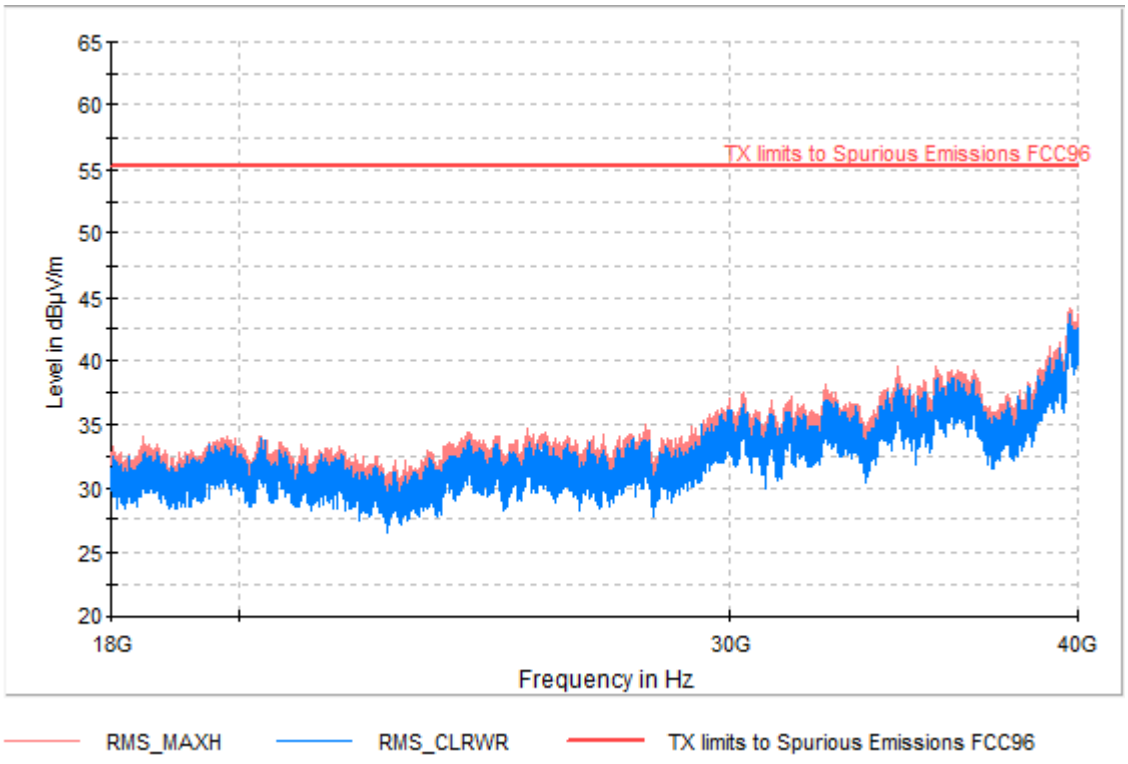
Highest Channel (3592.5 MHz)



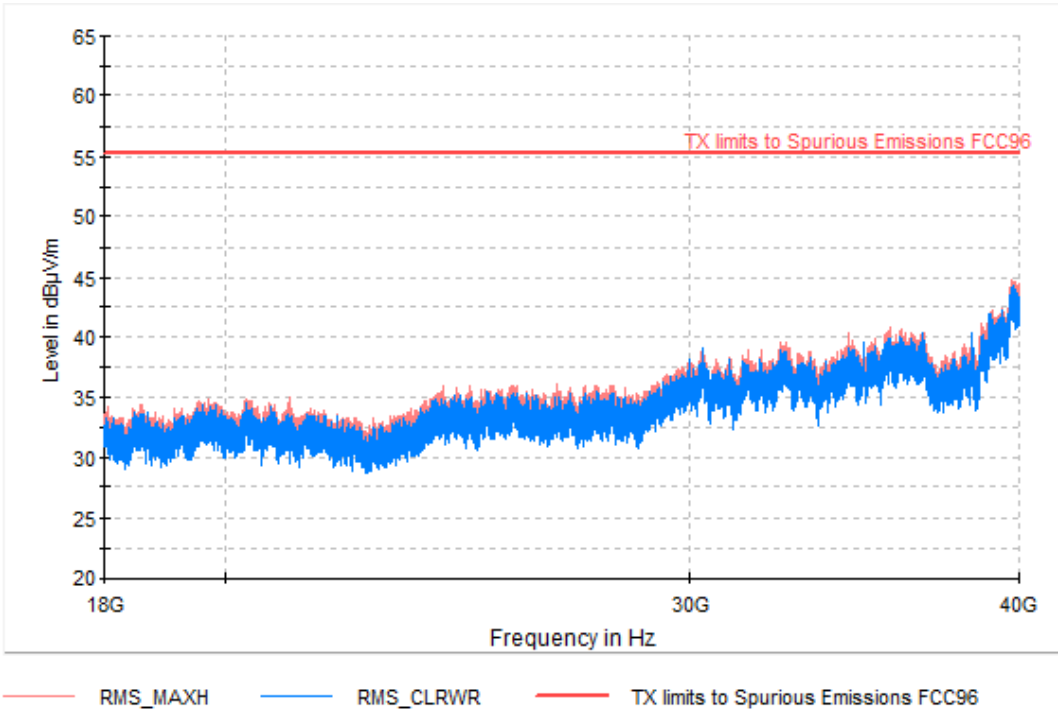
TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3557.5 MHz)

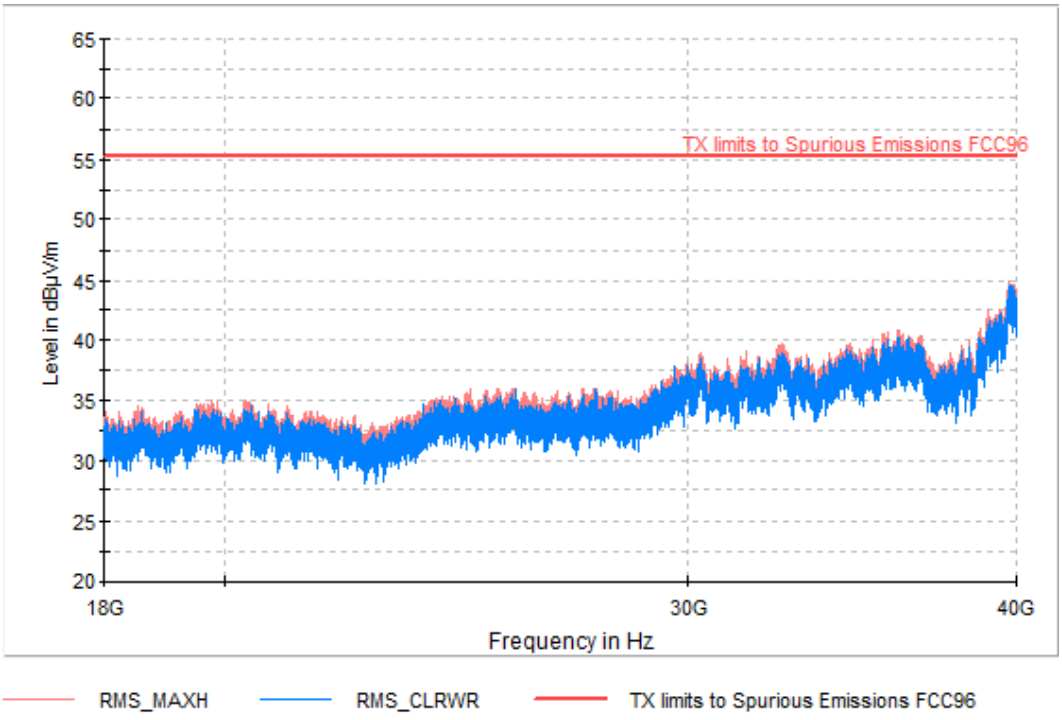


Middle Channel (3575 MHz)



TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 18-40 GHz

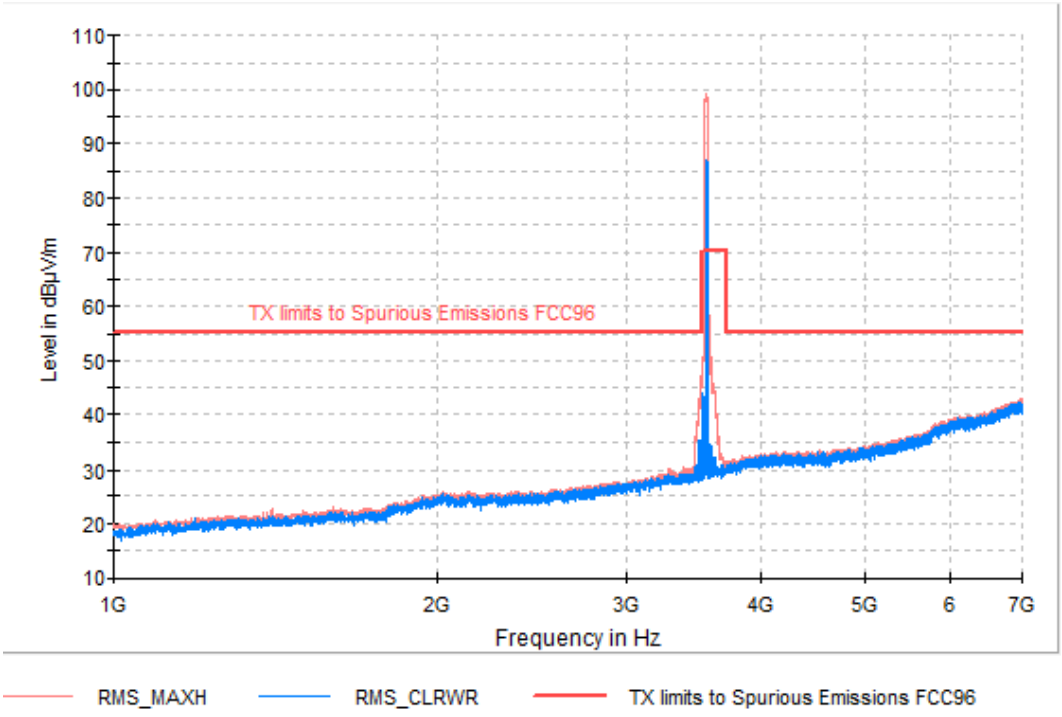
Highest Channel (3592.5 MHz)



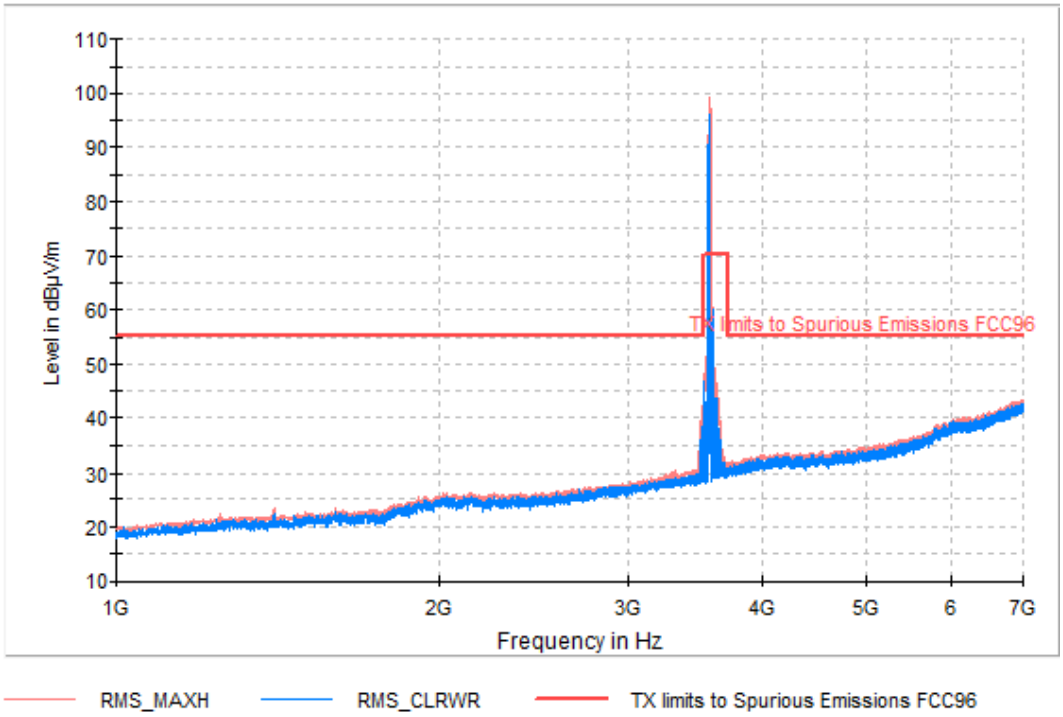
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 1-7 GHz

20 MHz BW

FREQUENCY RANGE 1-7 GHz
Lowest Channel (3560 MHz)

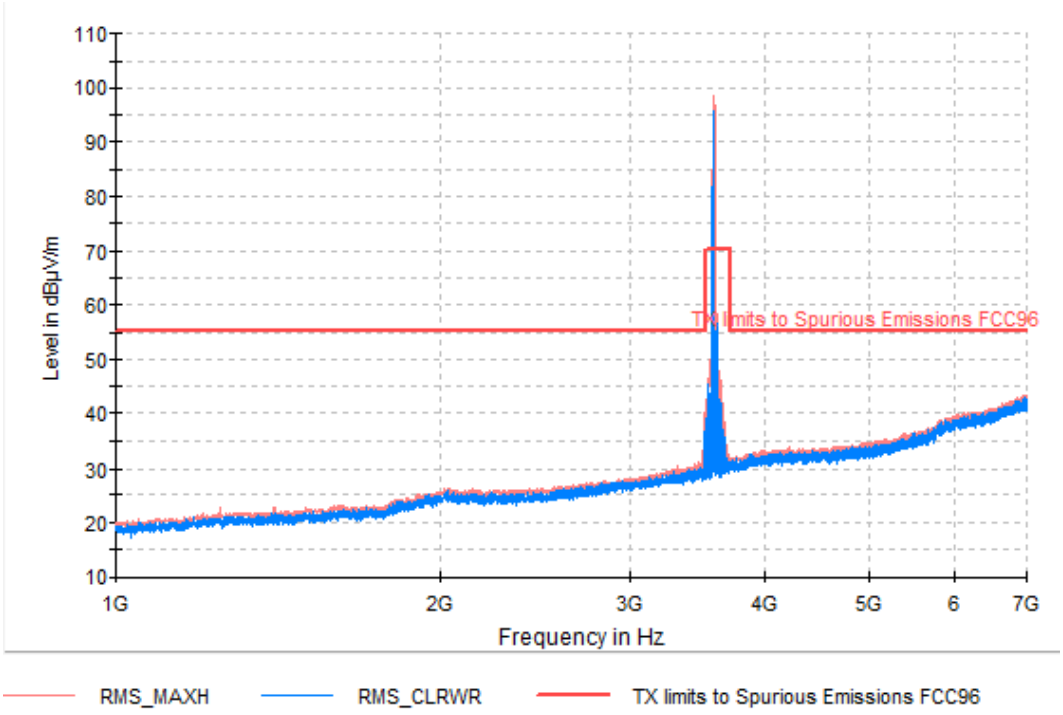


Middle Channel (3575 MHz)



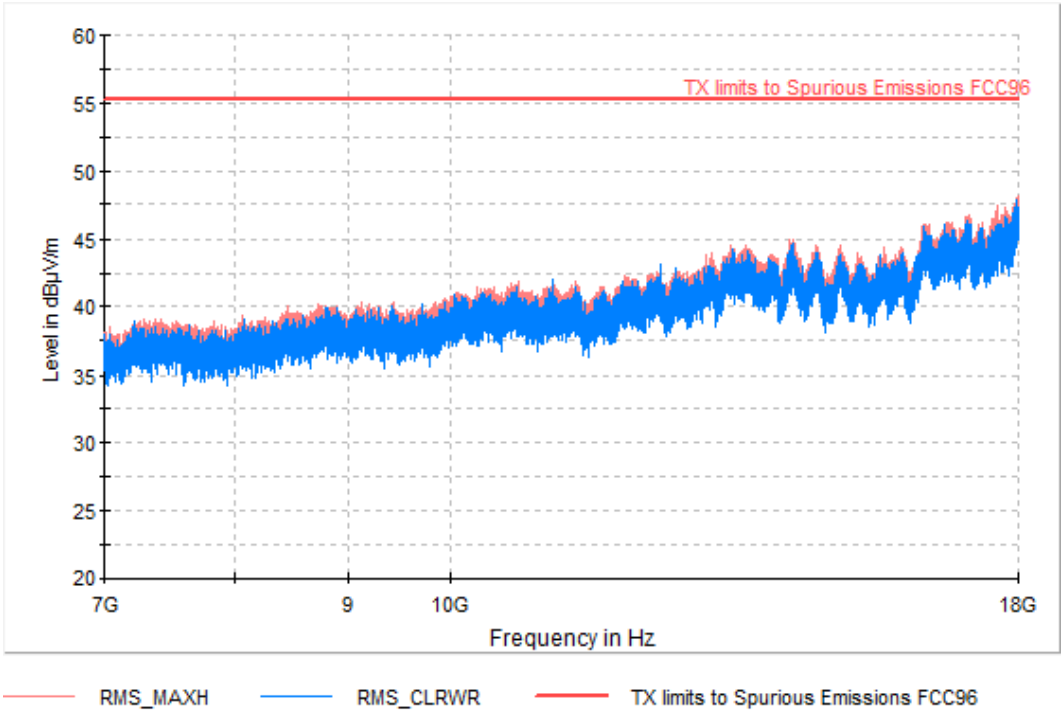
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3590 MHz)



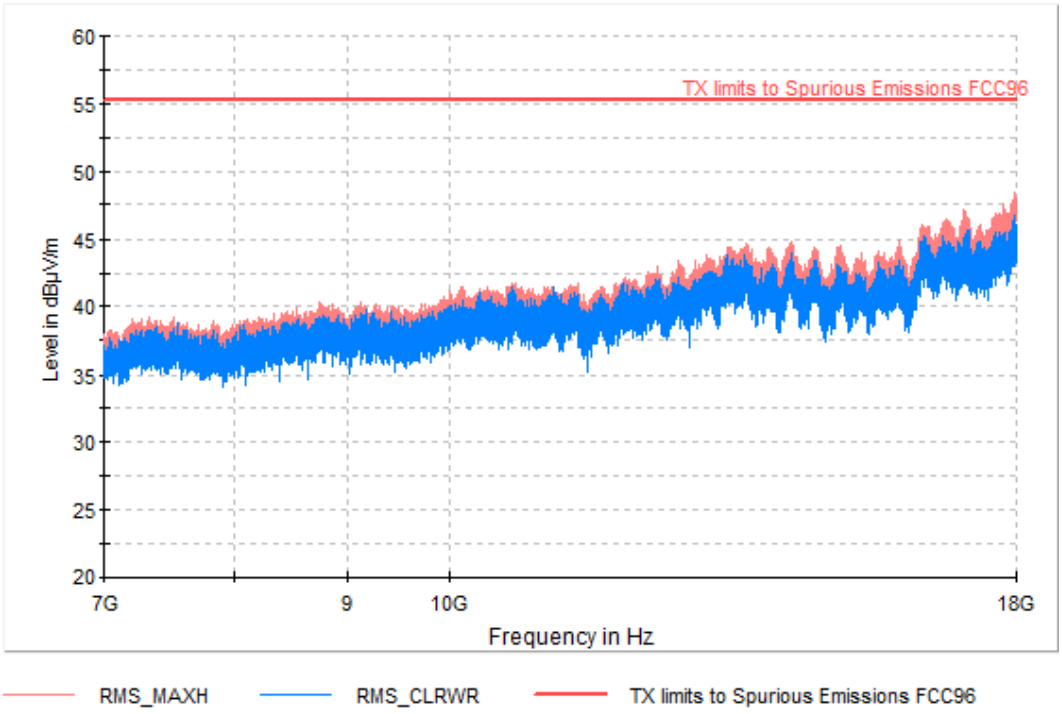
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3560 MHz)

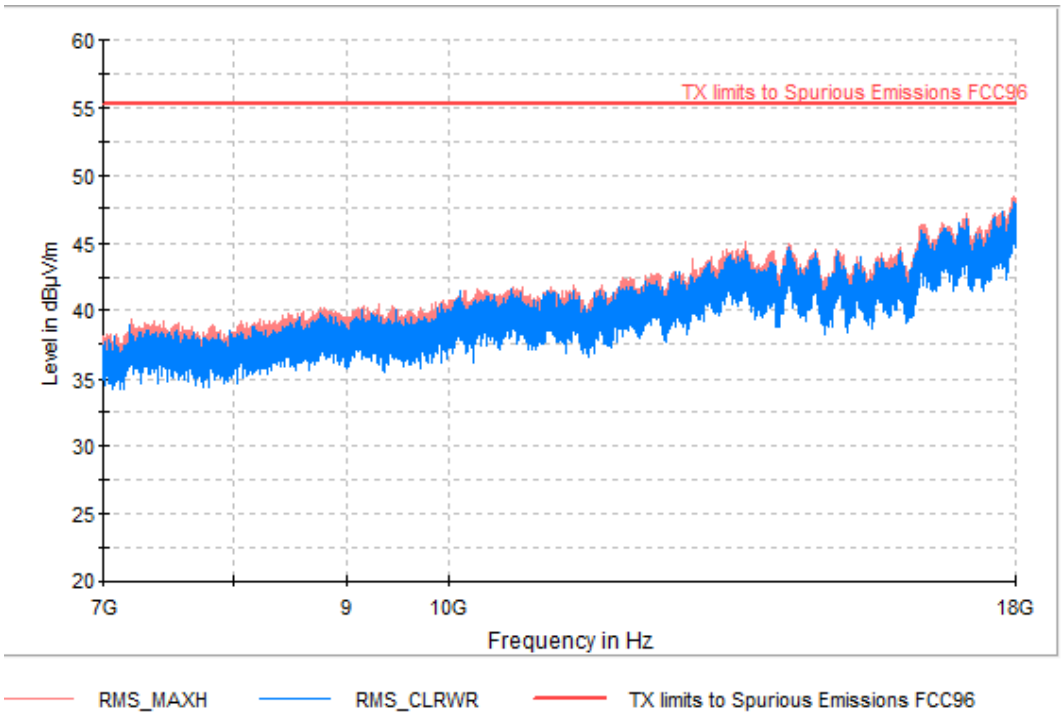


TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3575 MHz)



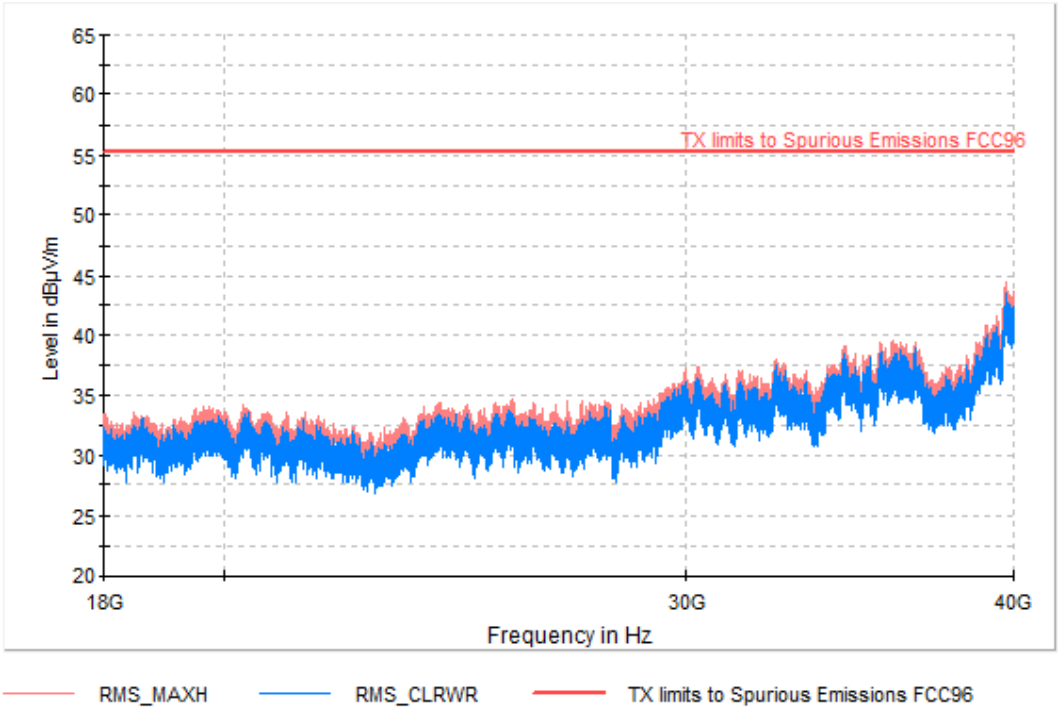
Highest Channel (3590 MHz)



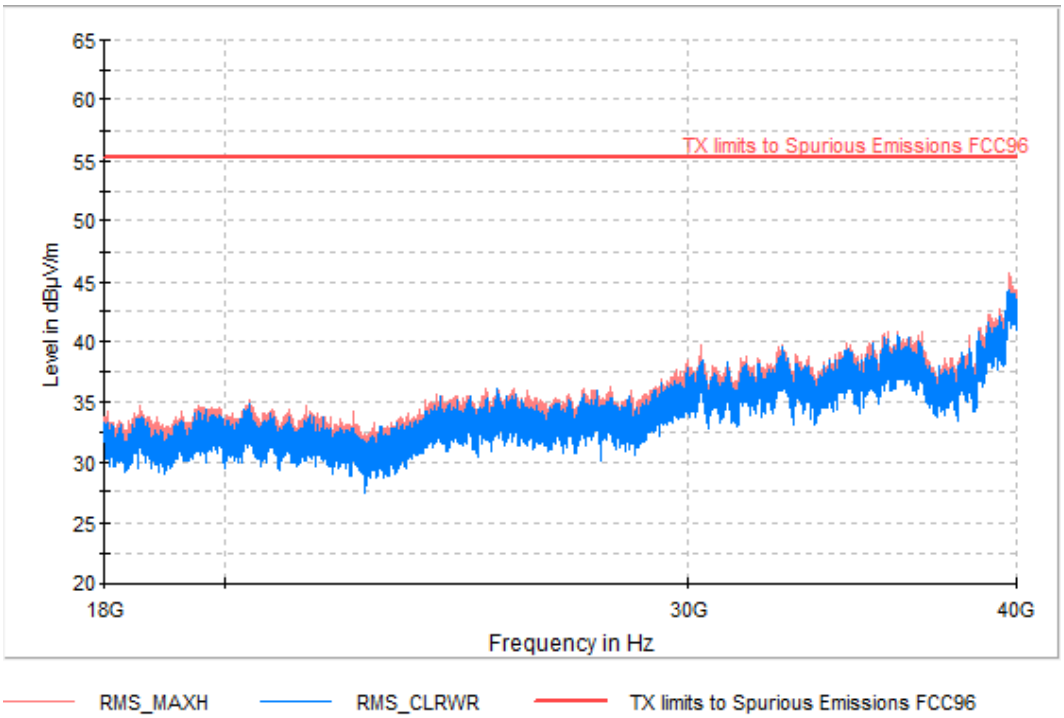
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3560 MHz)

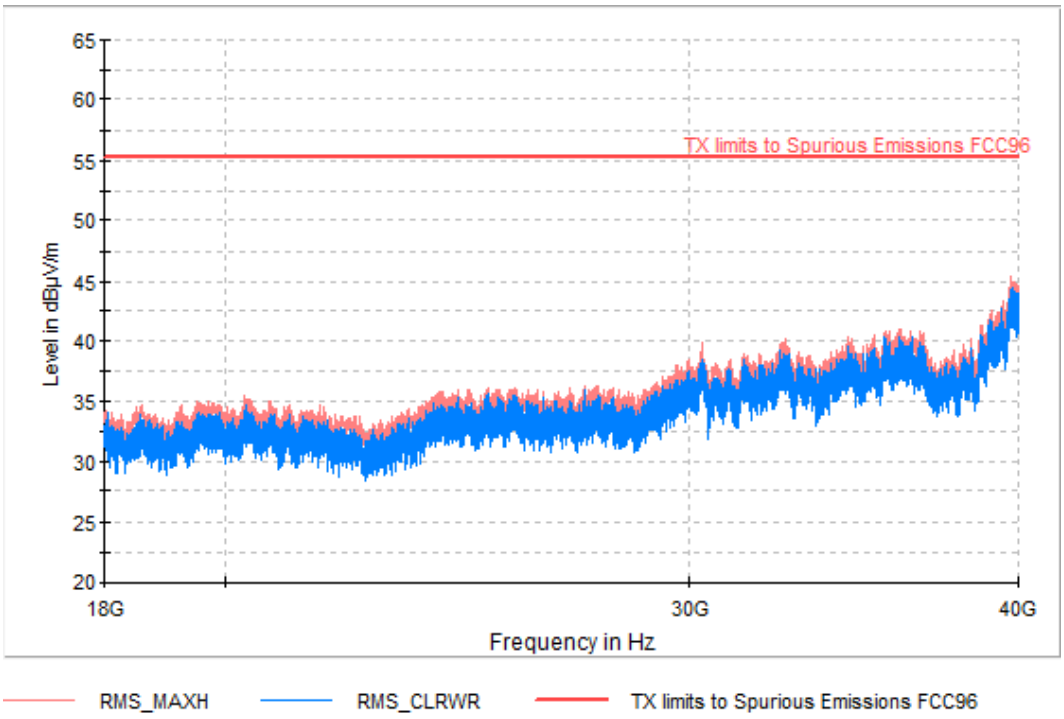


Middle Channel (3575 MHz)



TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 18-40 GHz

Highest Channel (3590 MHz)



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (Band 43)
TEST RESULTS:	PASS

Results:

Frequency range 30 MHz – 1000 MHz
No radiated spurious signal was detected at less than 20 dB respect to the limit for the lowest, middle and highest channels in all four BWs. The plots are shown only for 5 MHz BW as a worst case.

Frequency range 1 GHz – 7 GHz
No radiated spurious signal was detected at less than 20 dB respect to the limit for the lowest, middle and highest channels in all four BWs.

Frequency range 7 GHz – 18 GHz

5 MHz BW

Lowest Channel (3602.5 MHz)
No radiated spurious signal was detected at less than 20 dB respect to the limit for the low channel.

Middle Channel (3650 MHz)
No radiated spurious signal was detected at less than 20 dB respect to the limit for the middle channel.

Highest Channel (3697.5 MHz)

Spurious Frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
7393.937500	V	RMS	42.32	± 4.87
14780.093750	V	RMS	43.99	

10 MHz BW

Lowest Channel (3605 MHz)
No radiated spurious signal was detected at less than 20 dB respect to the limit for the low channel.

Middle Channel (3650 MHz)
No radiated spurious signal was detected at less than 20 dB respect to the limit for the middle channel.

TEST RESULTS (Cont.):	

Highest Channel (3695 MHz)

Spurious Frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
7391.531250	H	RMS	40.19	± 4.87

15 MHz BW

Lowest Channel (3607.5 MHz)

Spurious Frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
14229.750000	V	RMS	45.44	± 4.87

Middle Channel (3650 MHz):
No radiated spurious signal was detected at less than 20 dB respect to the limit for the middle channel.

Highest Channel (3692.5 MHz)

Spurious Frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Measurement Uncertainty (dB)
7381.218750	V	RMS	40.44	± 4.87
14770.125000	V	RMS	43.12	

20 MHz BW

No radiated spurious signal was detected at less than 20 dB respect to the limit for the lowest, middle and highest channels.

Frequency range 18 GHz – 40 GHz
No radiated spurious signal was detected at less than 20 dB respect to the limit for the lowest, middle and highest channels in all four BWs.

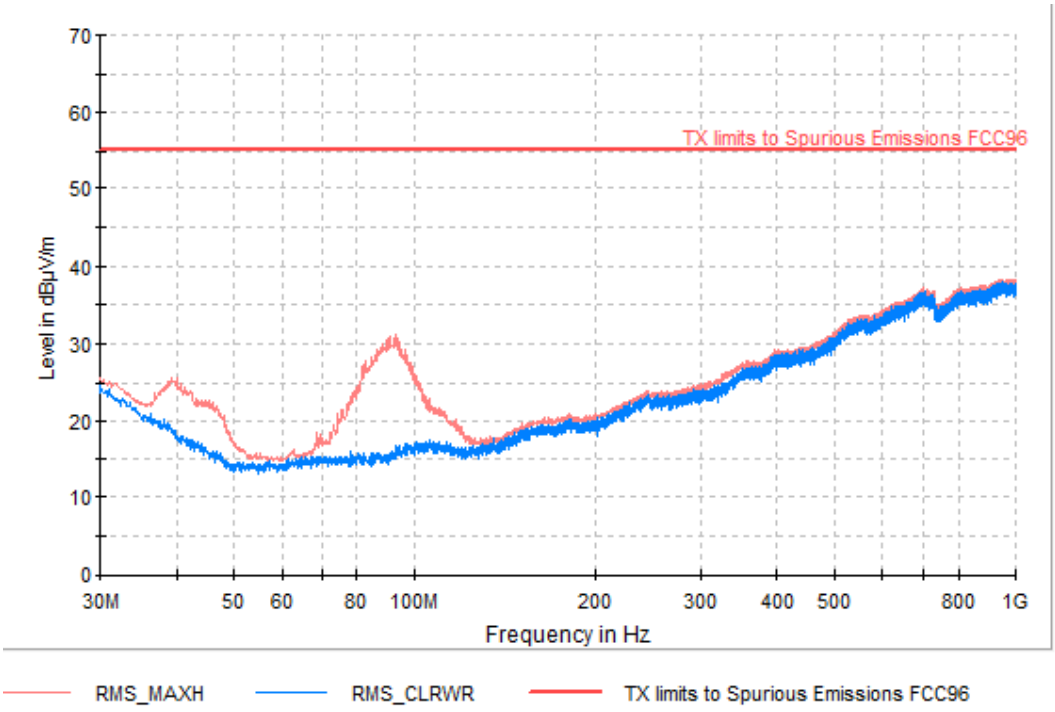
Verdict: PASS

(See next plots)

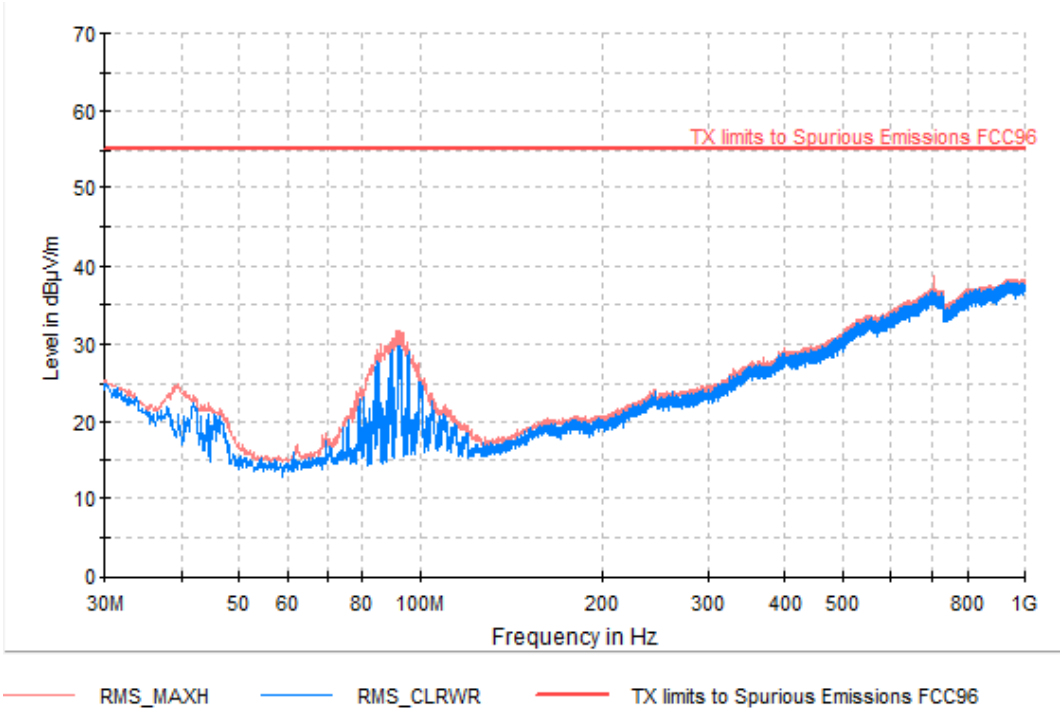
TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 30 MHz-1 GHz

5 MHz BW

FREQUENCY RANGE 30 MHz-1 GHz
Lowest Channel (3602.5 MHz)

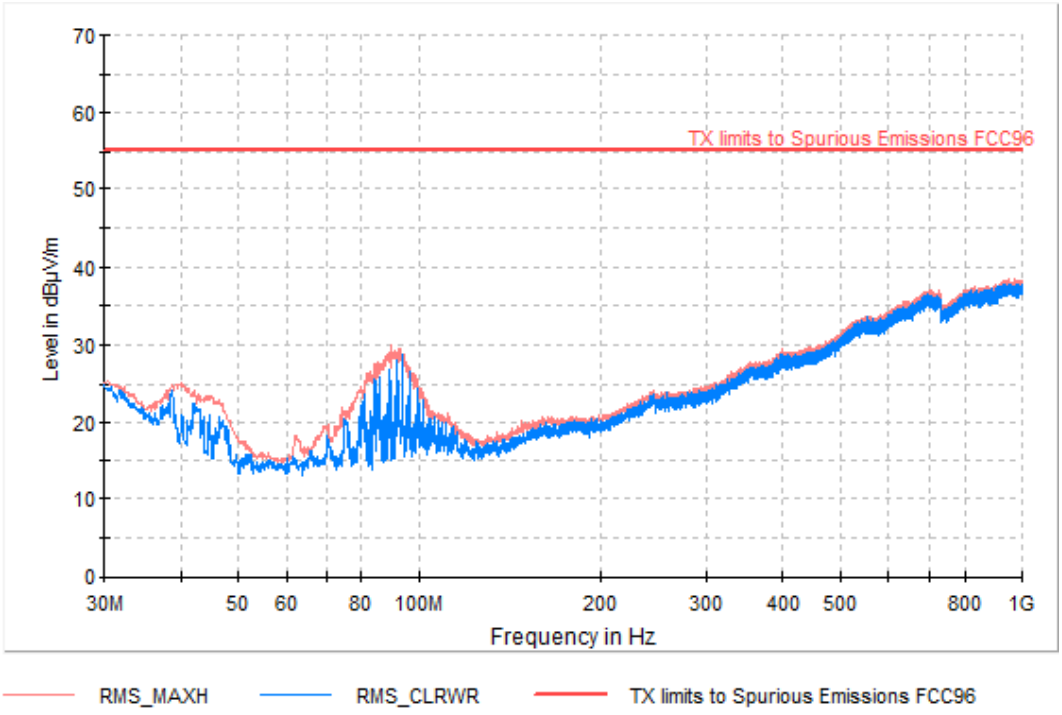


Middle Channel (3650 MHz)



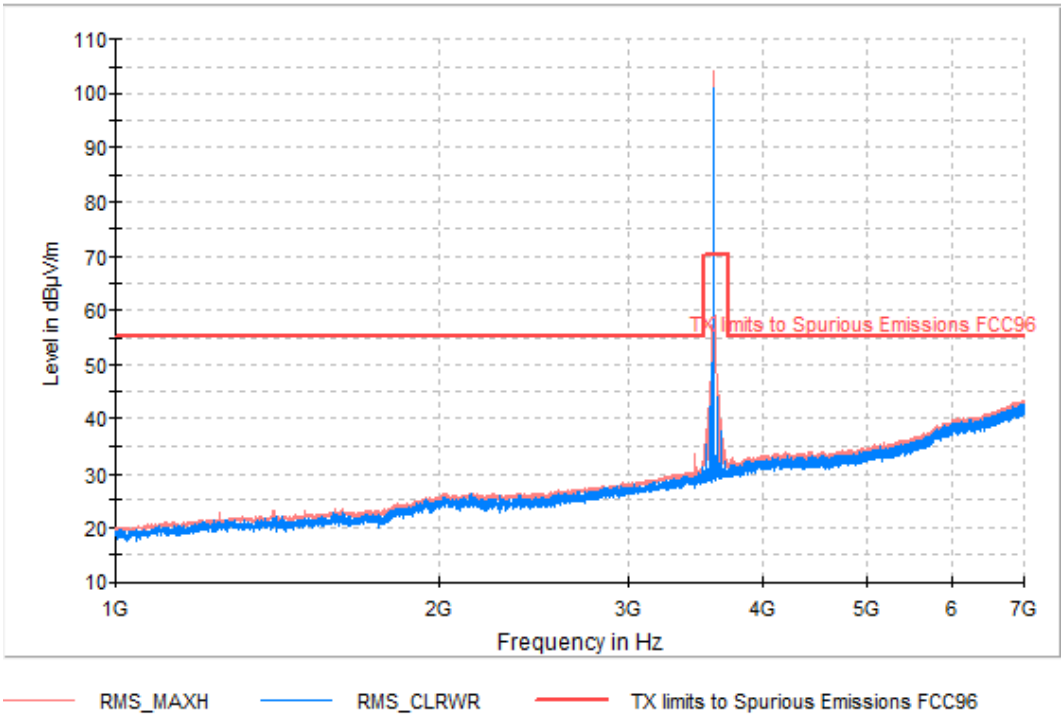
TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 30 MHz-1 GHz

Highest Channel (3697.5 MHz)



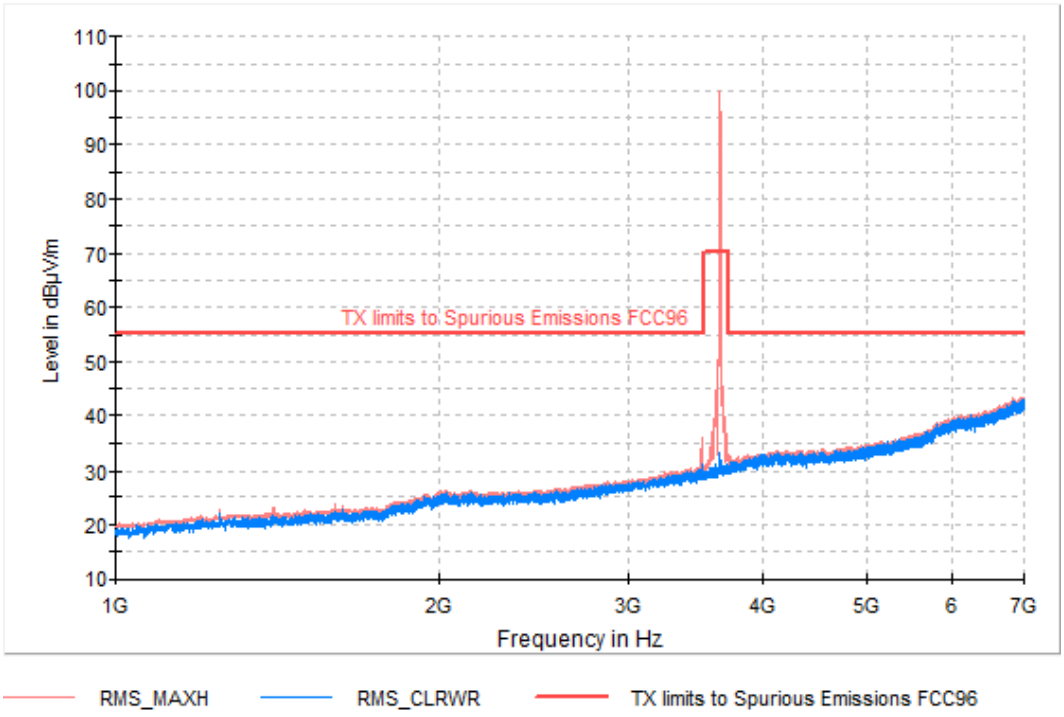
FREQUENCY RANGE 1-7 GHz

Lowest Channel (3602.5 MHz)

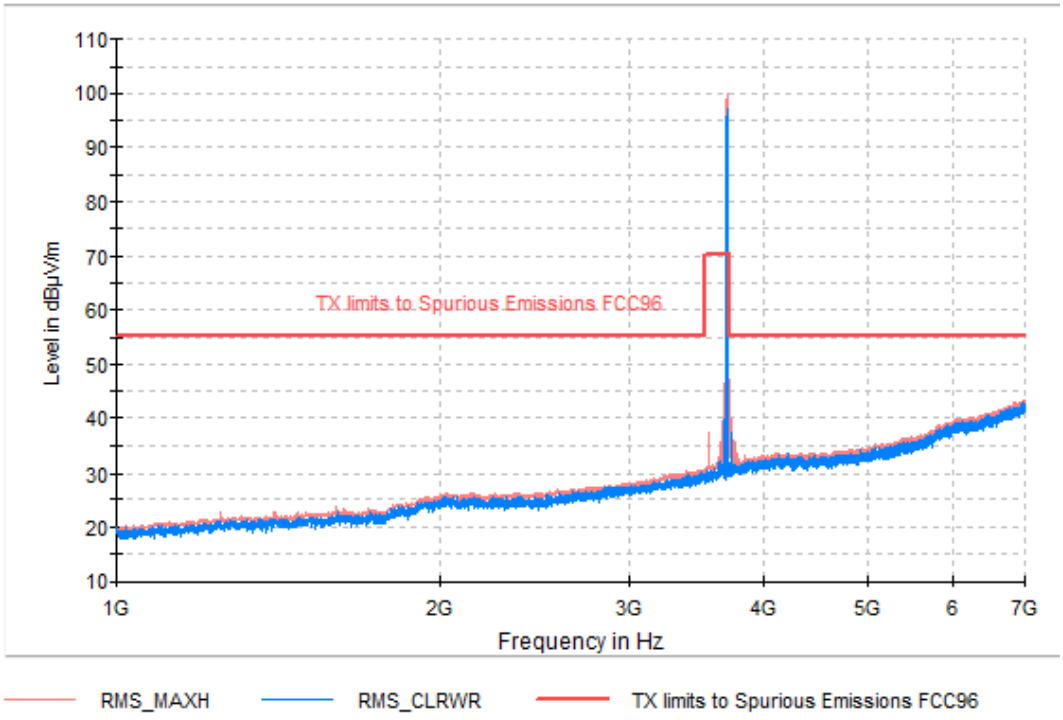


TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 1-7 GHz

Middle Channel (3650 MHz)



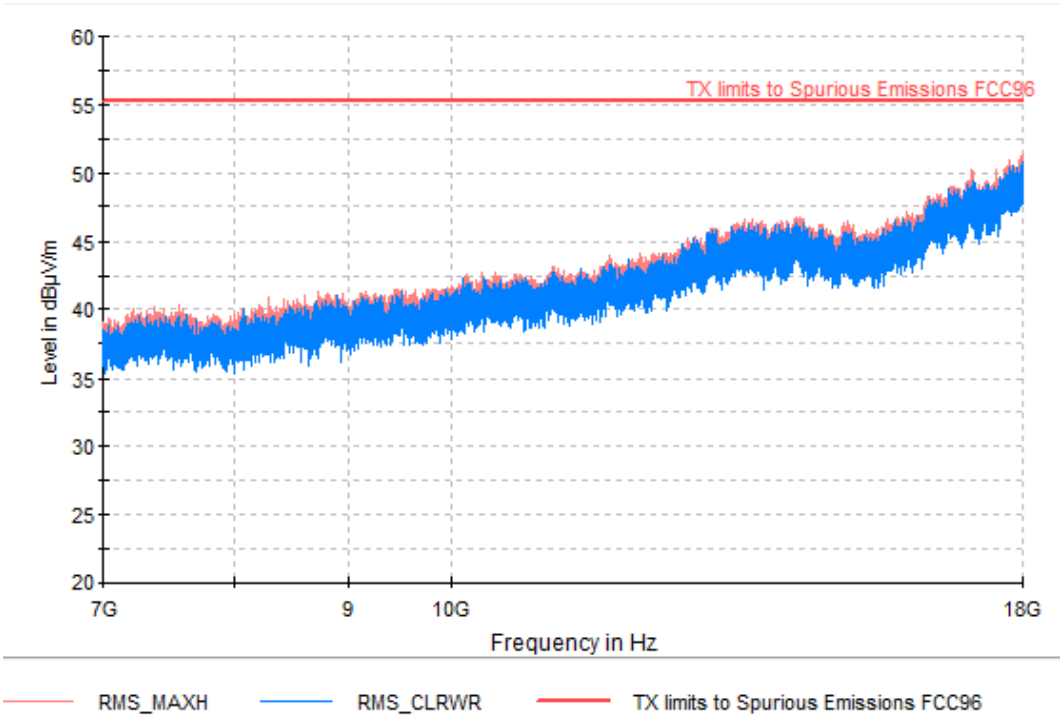
Highest Channel (3697.5 MHz)



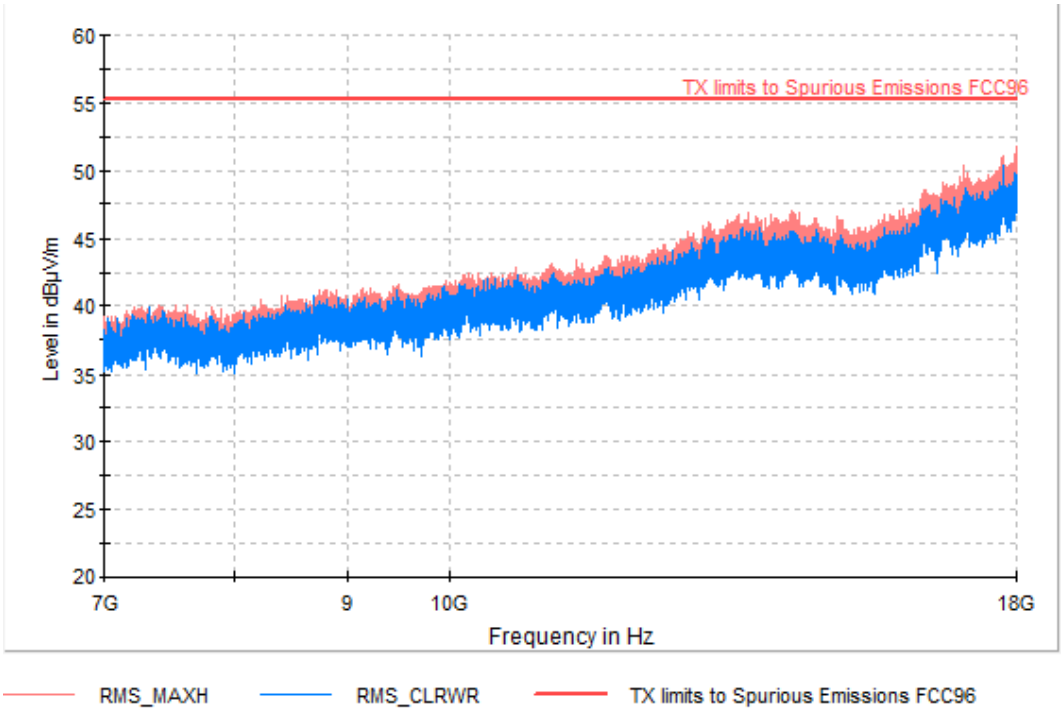
TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 7-18 GHz

FREQUENCY RANGE 7-18 GHz

Lowest Channel (3602.5 MHz)

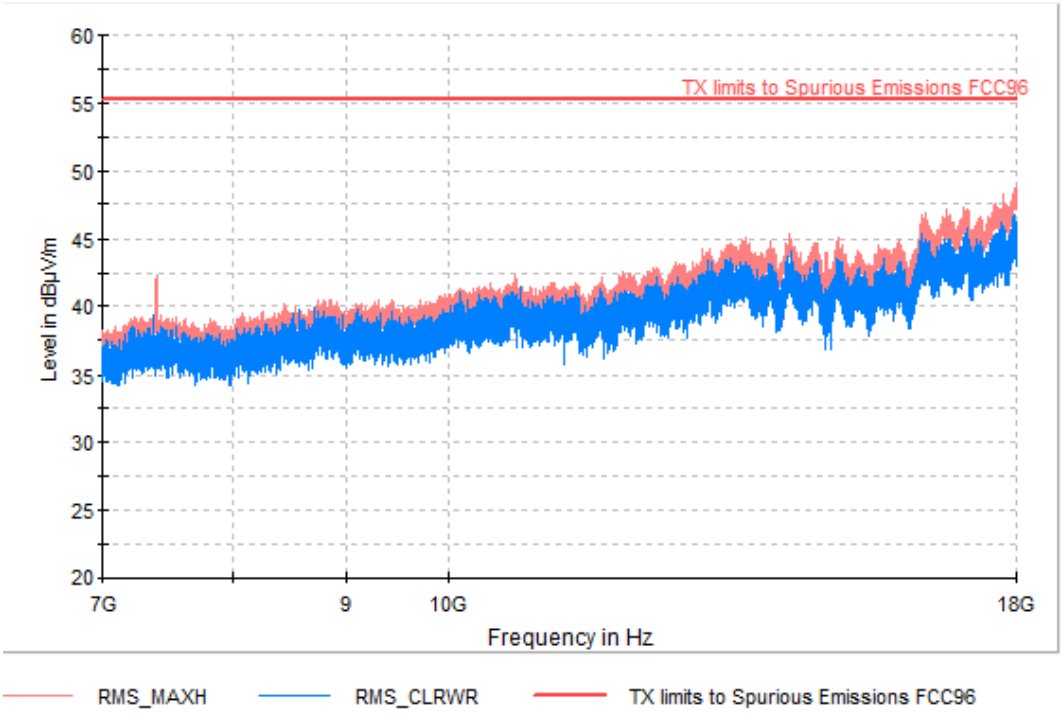


Middle Channel (3650 MHz)



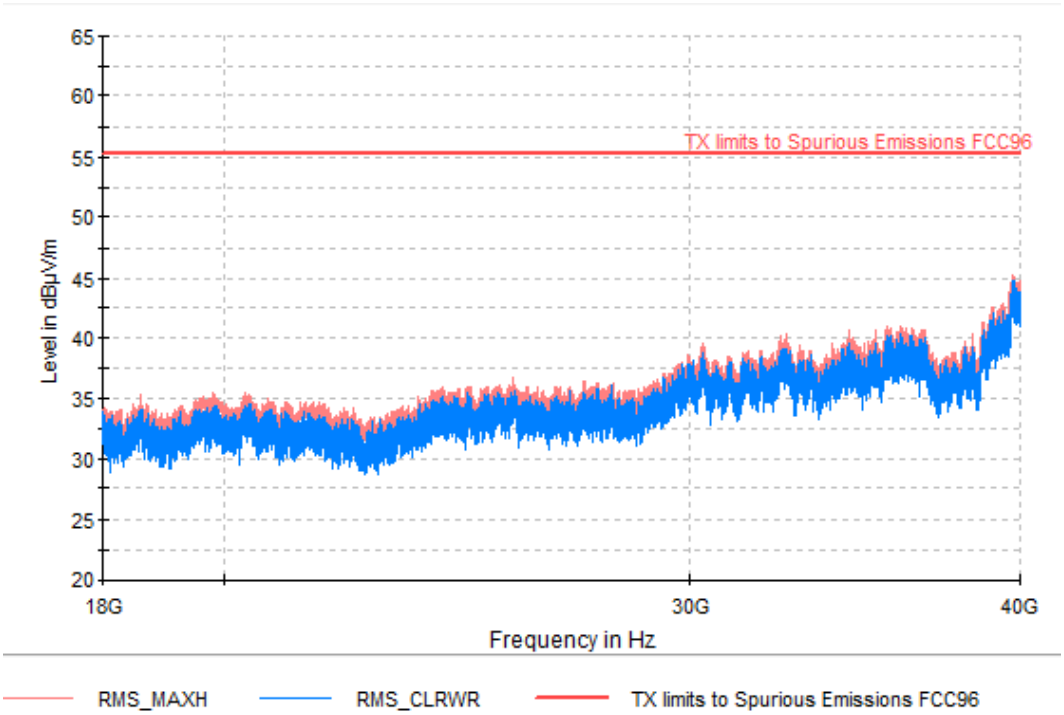
TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 7-18 GHz

Highest Channel (3697.5 MHz)



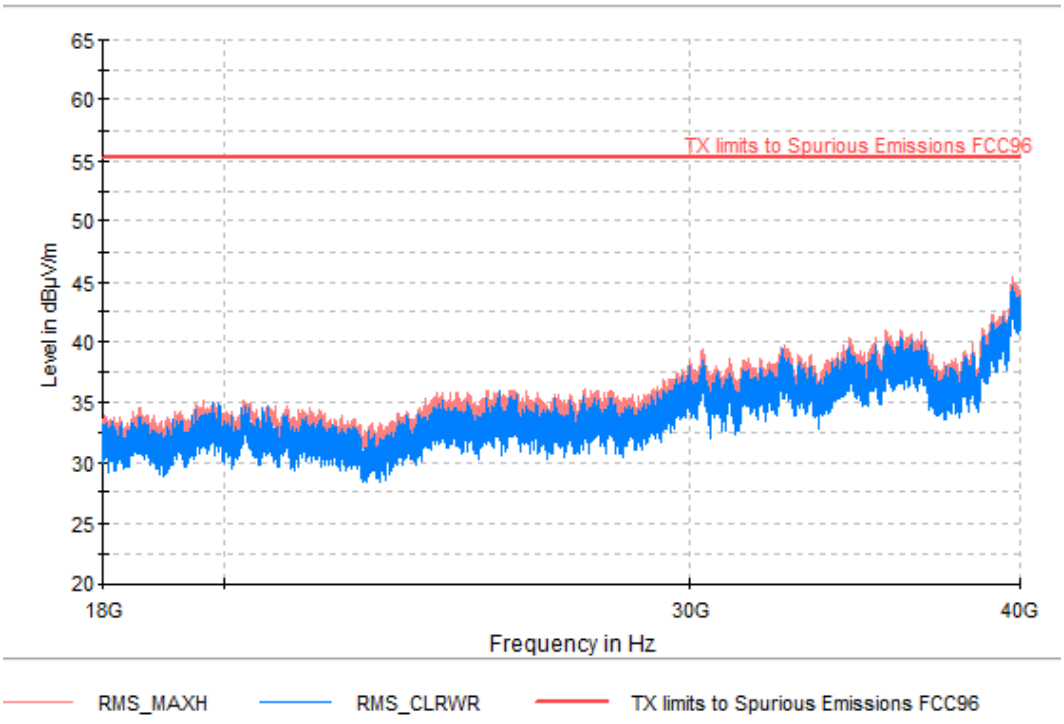
FREQUENCY RANGE 18-40 GHz

Lowest Channel (3602.5 MHz)

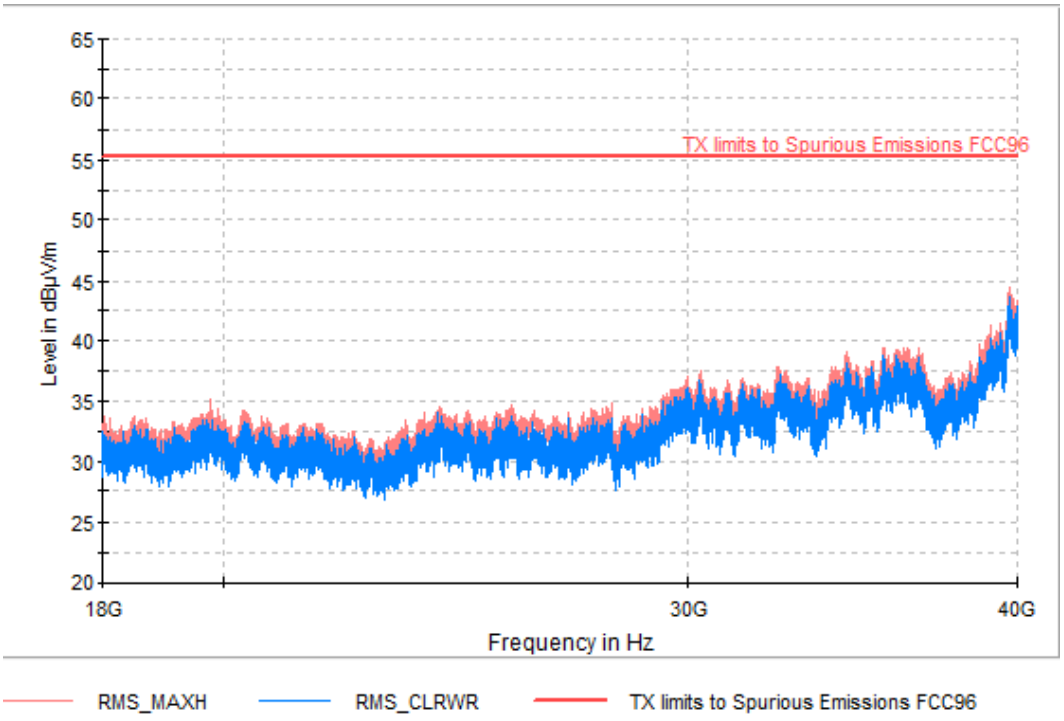


TEST RESULTS (Cont.):	**5 MHz BW** FREQUENCY RANGE 18-40 GHz

Middle Channel (3650 MHz)



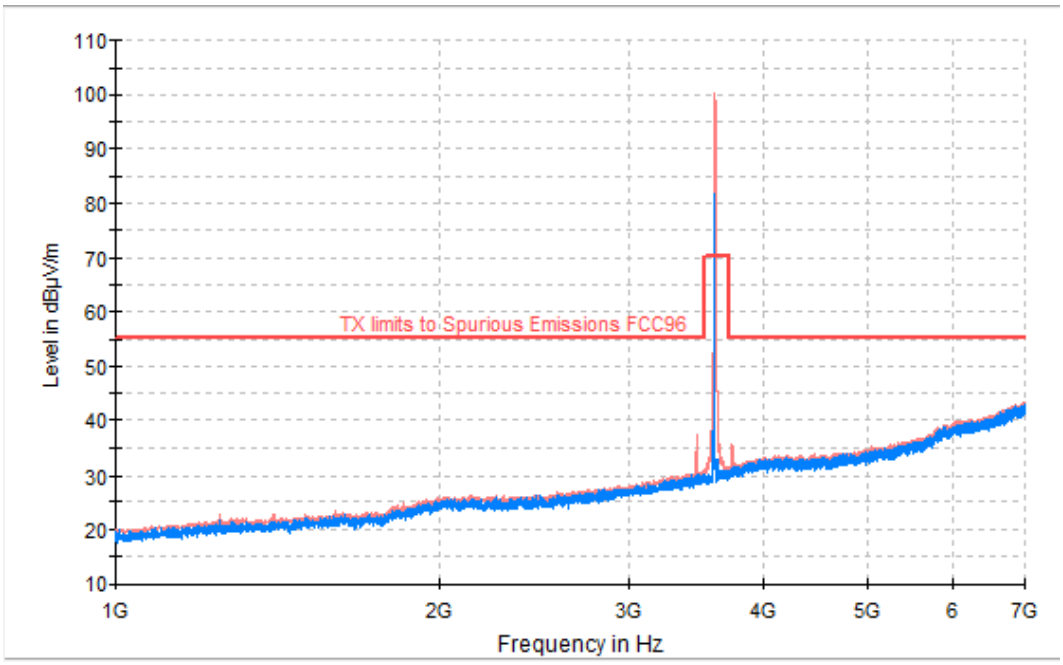
Highest Channel (3697.5 MHz)



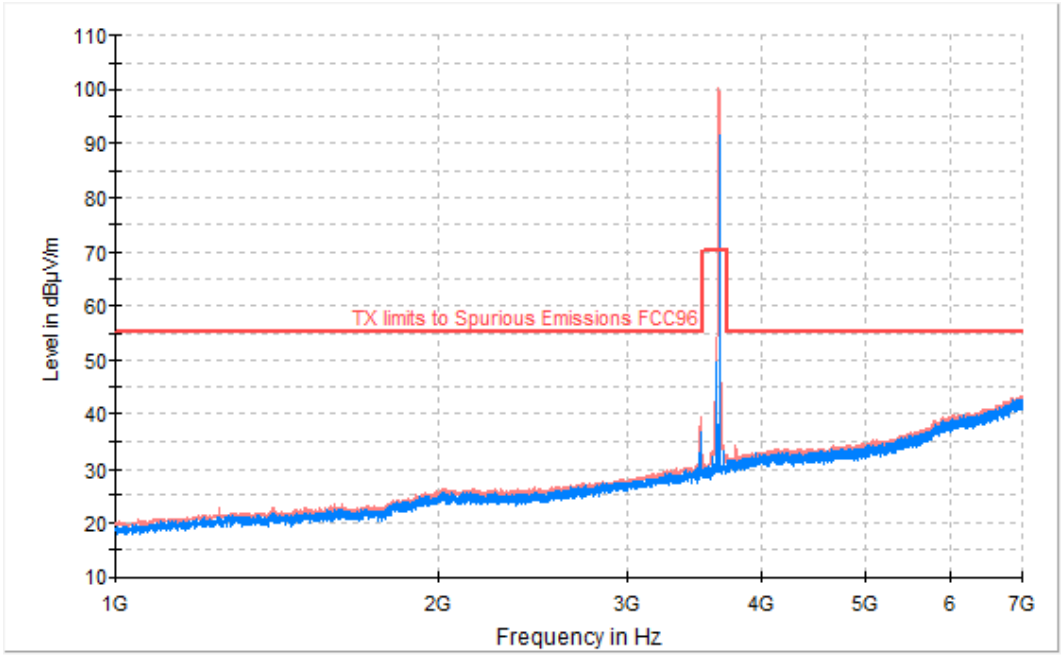
TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 1-7 GHz

10 MHz BW

FREQUENCY RANGE 1-7 GHz
Lowest Channel (3605 MHz)

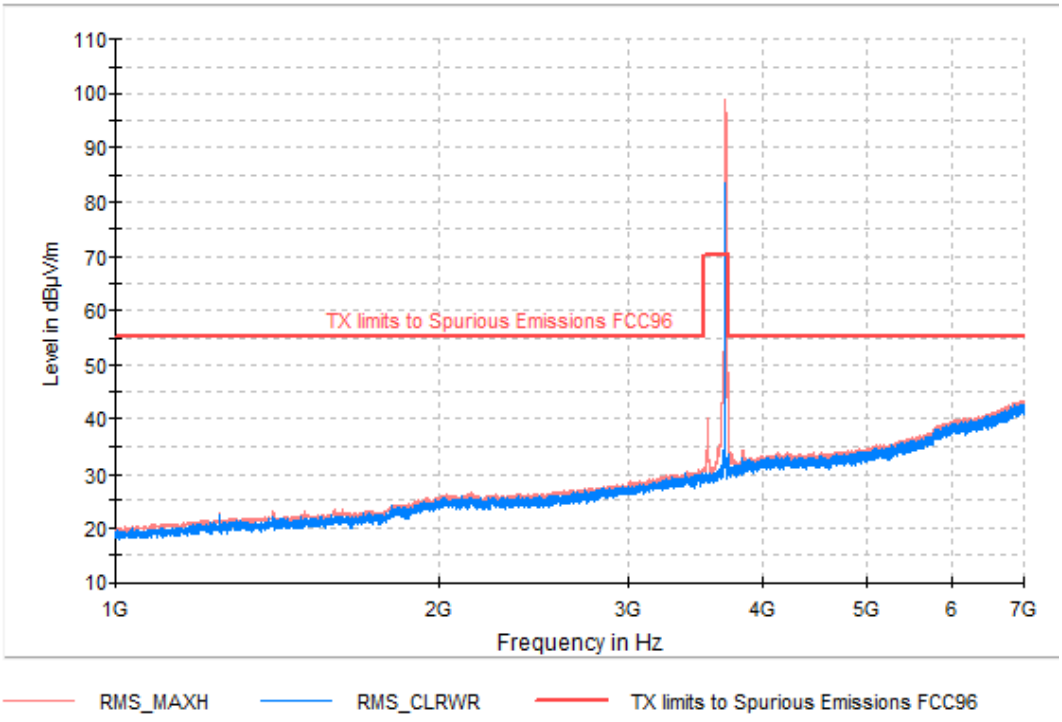


Middle Channel (3650 MHz)



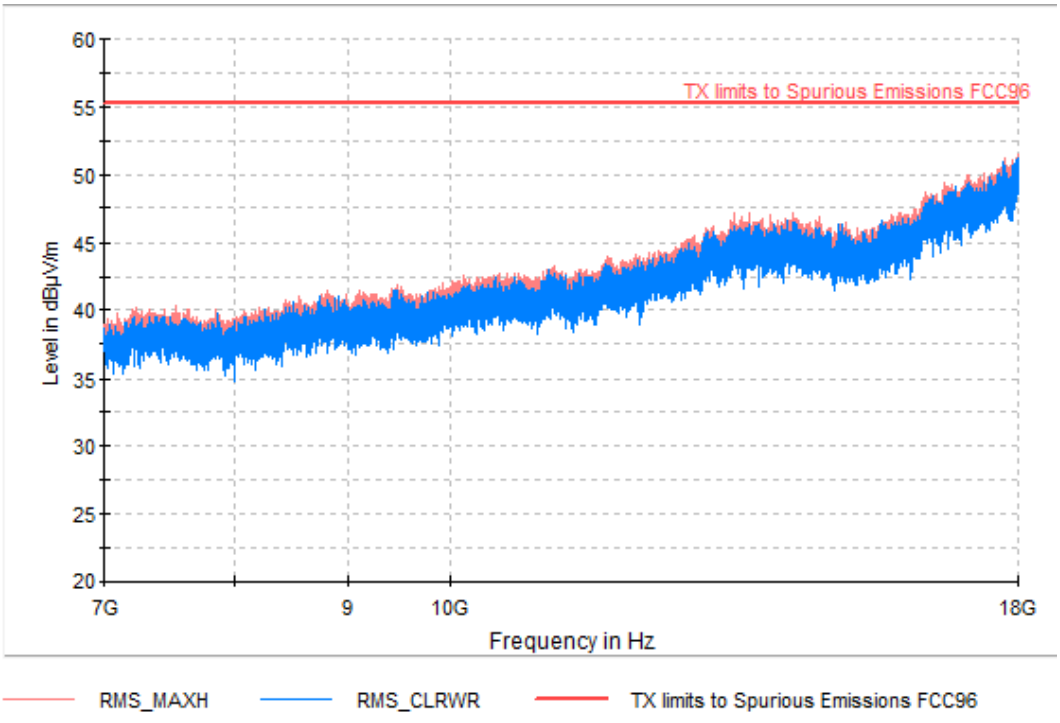
TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3695 MHz)



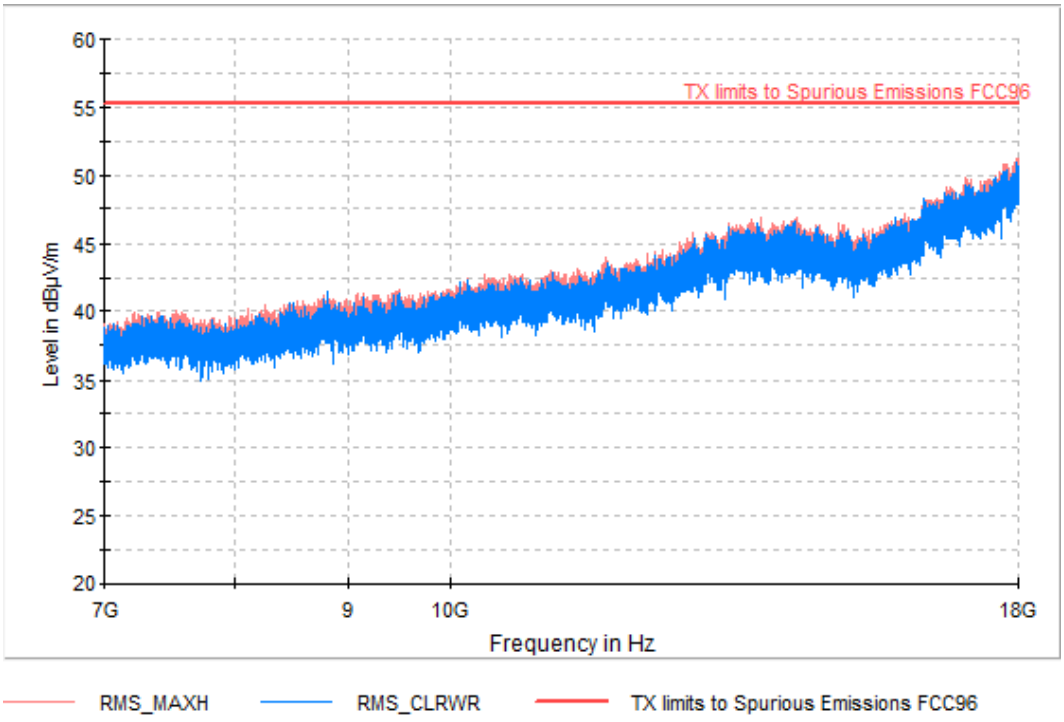
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3605 MHz)

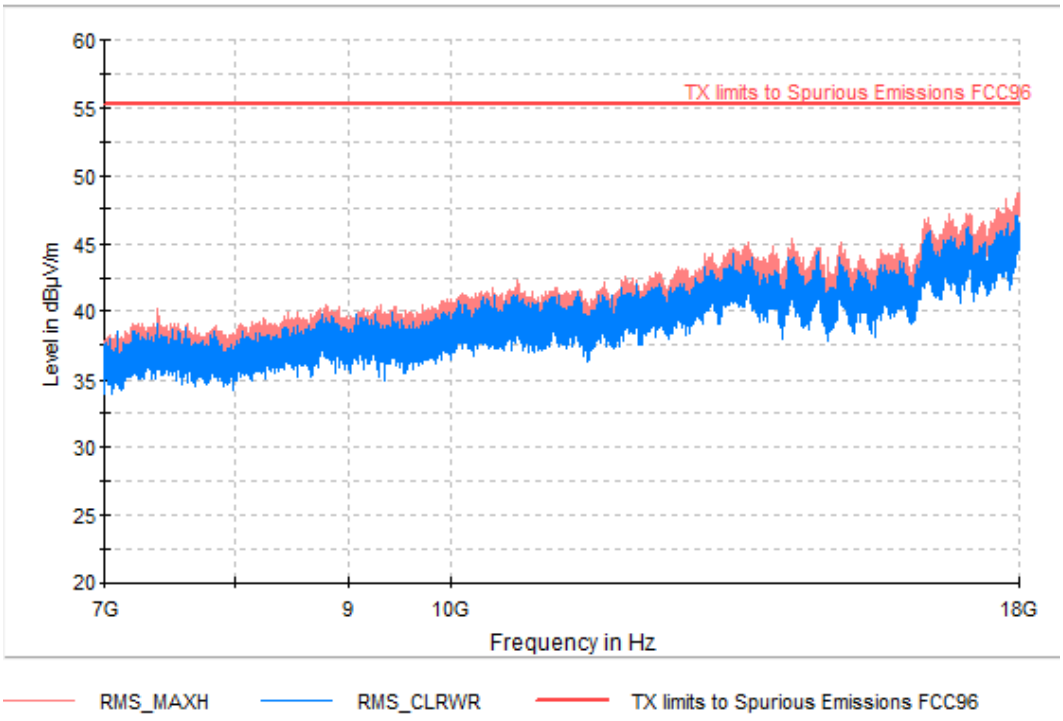


TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3650 MHz)



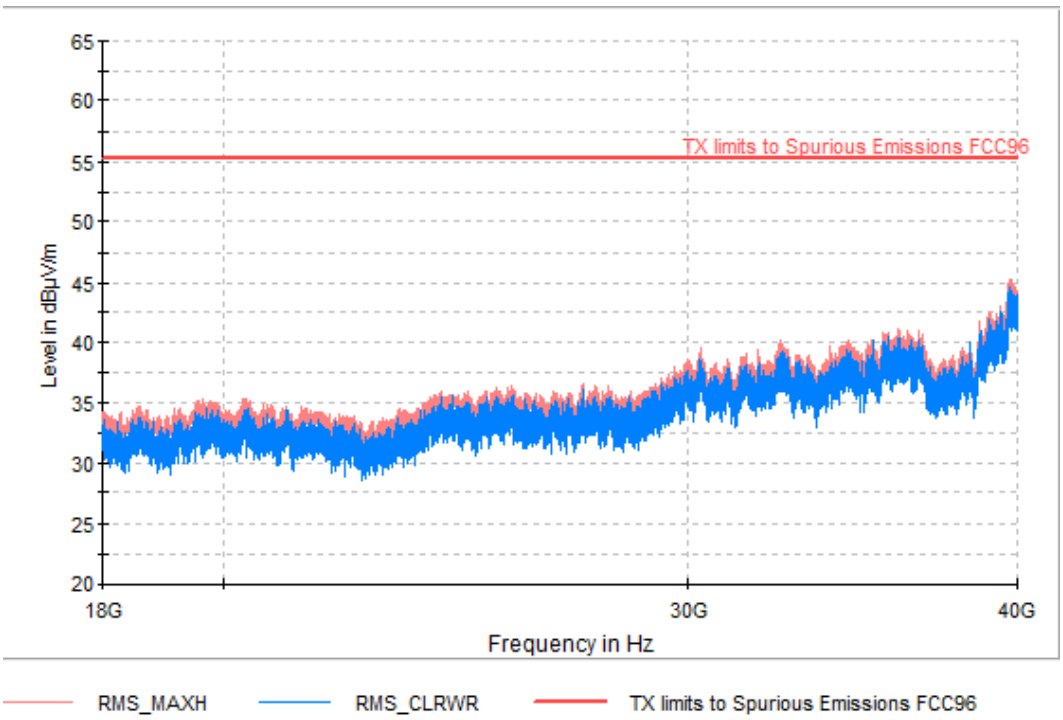
Highest Channel (3695 MHz)



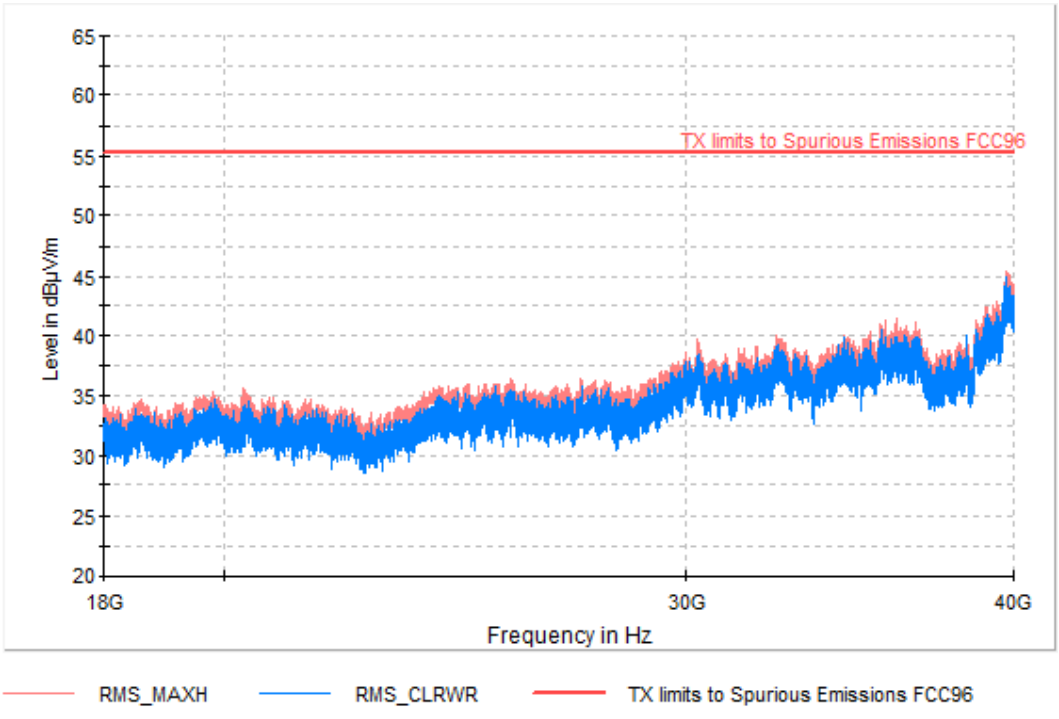
TEST RESULTS (Cont.):	**10 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3605 MHz)

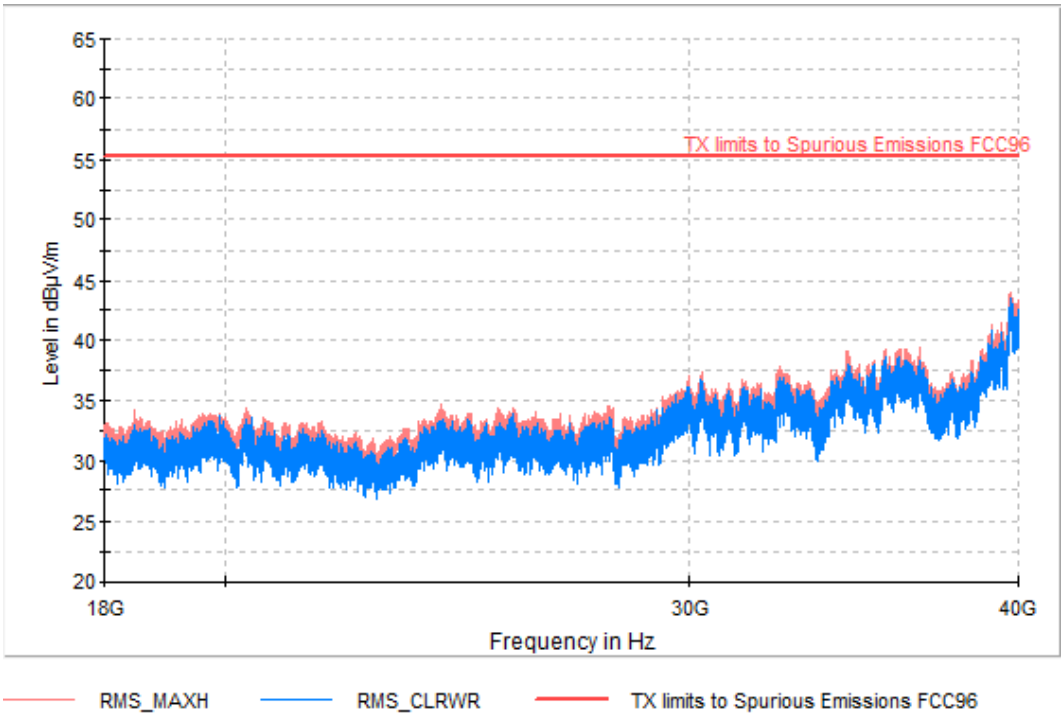


Middle Channel (3650 MHz)



TEST RESULTS (Cont.):	10 MHz BW Highest Channel (3695 MHz)

Highest Channel (3695 MHz)

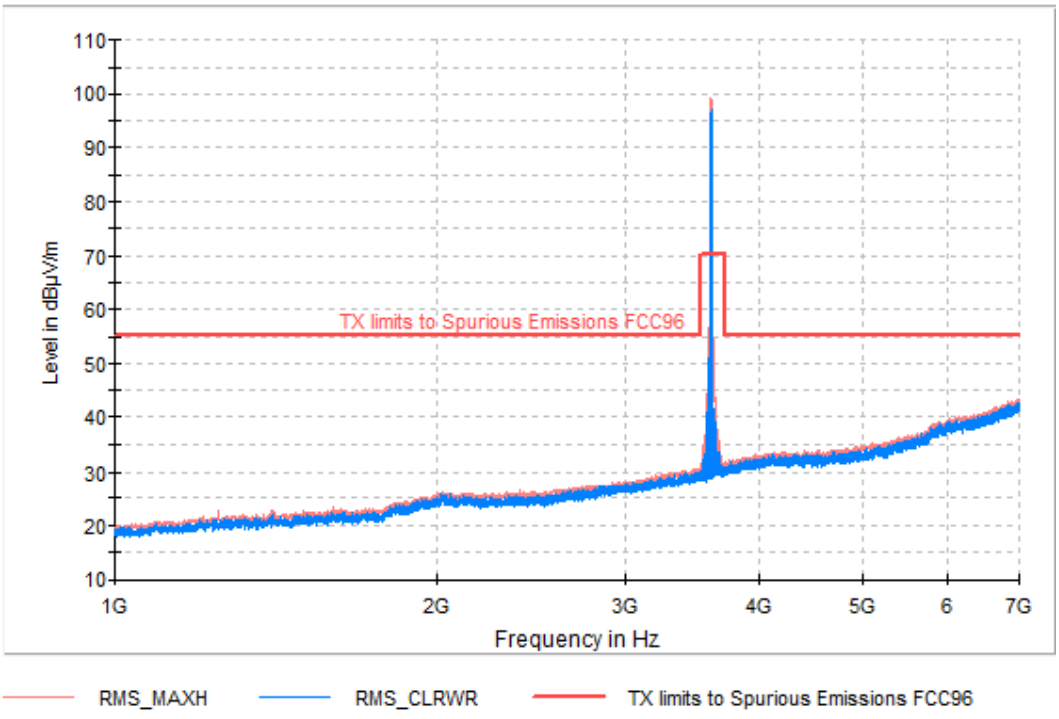


TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 1-7 GHz

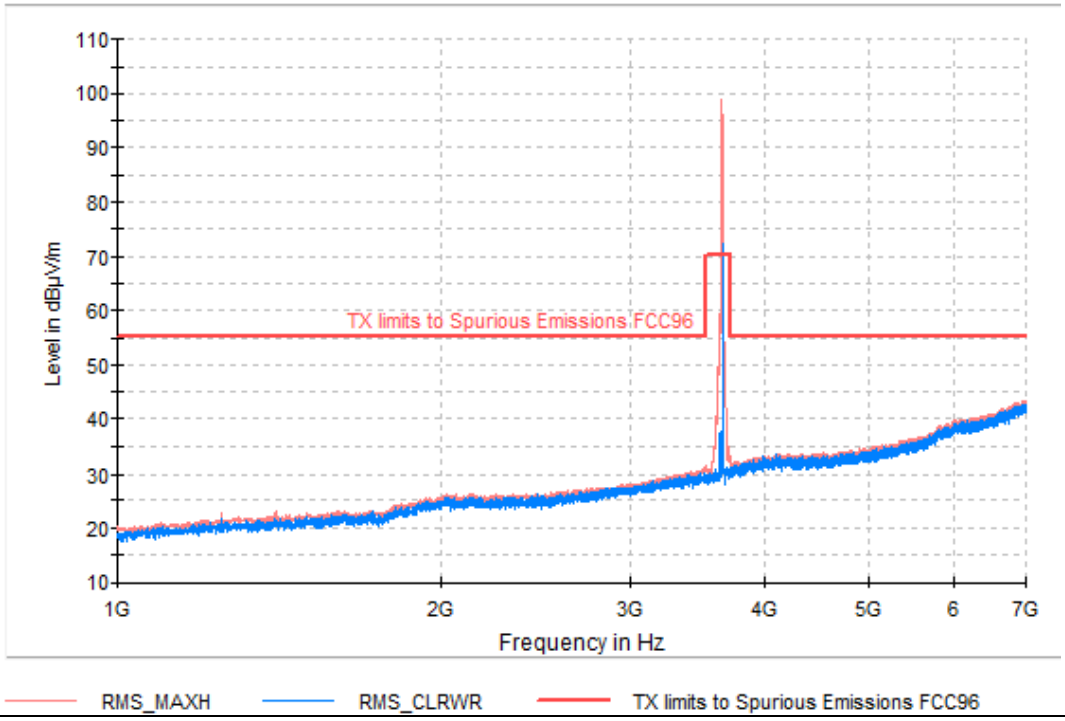
15 MHz BW

FREQUENCY RANGE 1-7 GHz

Lowest Channel (3607.5 MHz)

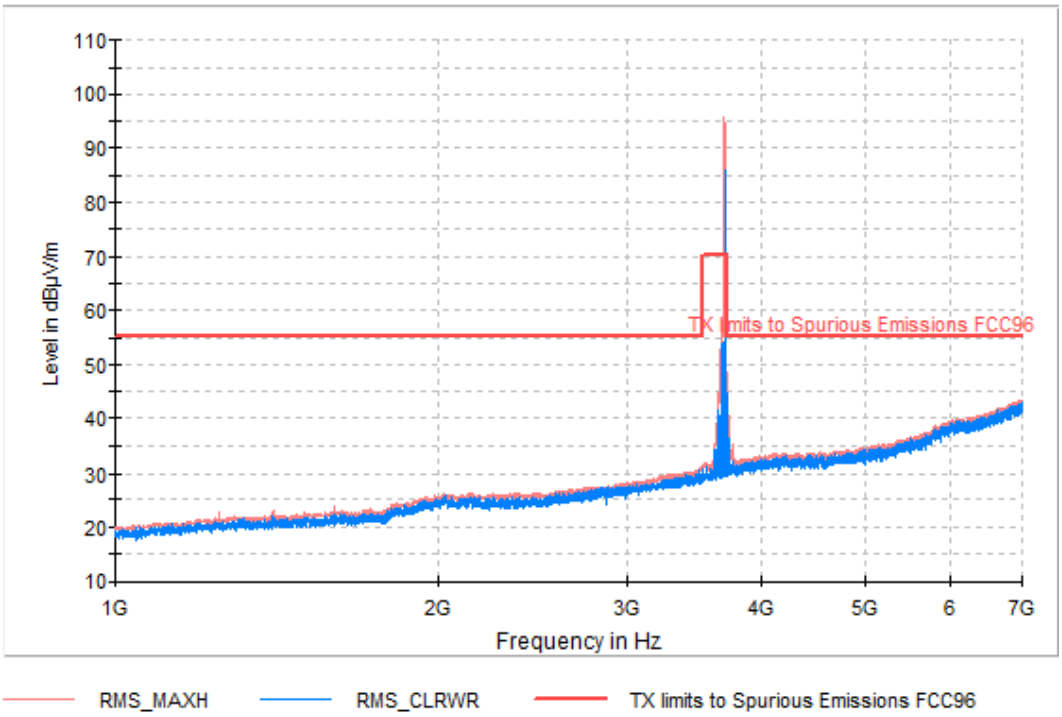


Middle Channel (3650 MHz)



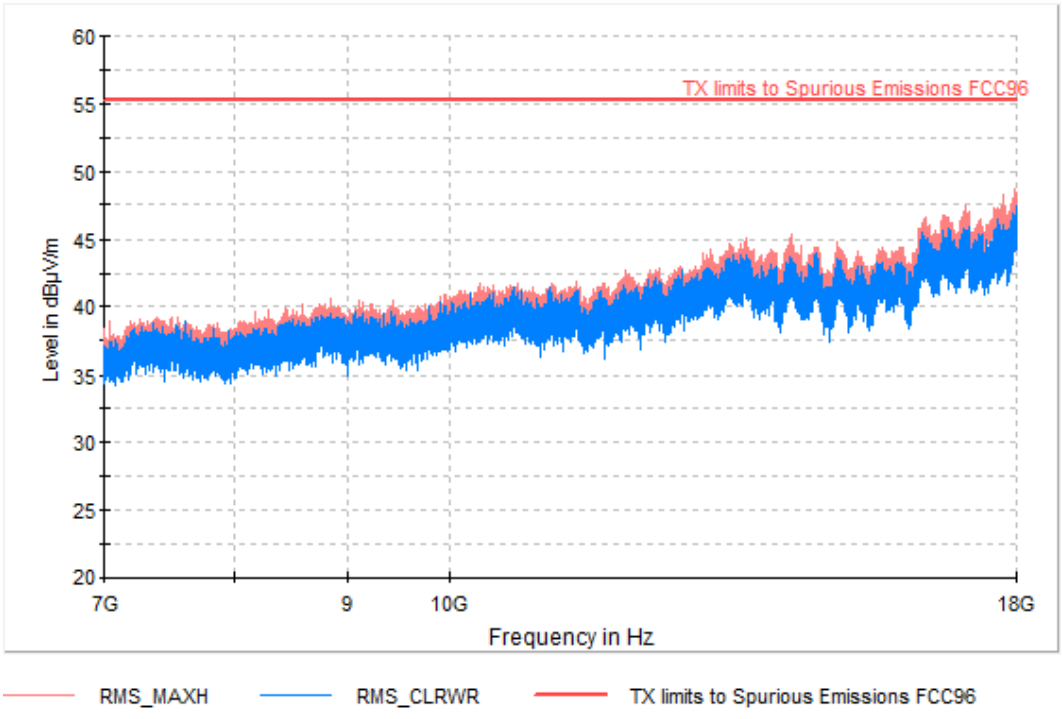
TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3692.5 MHz)



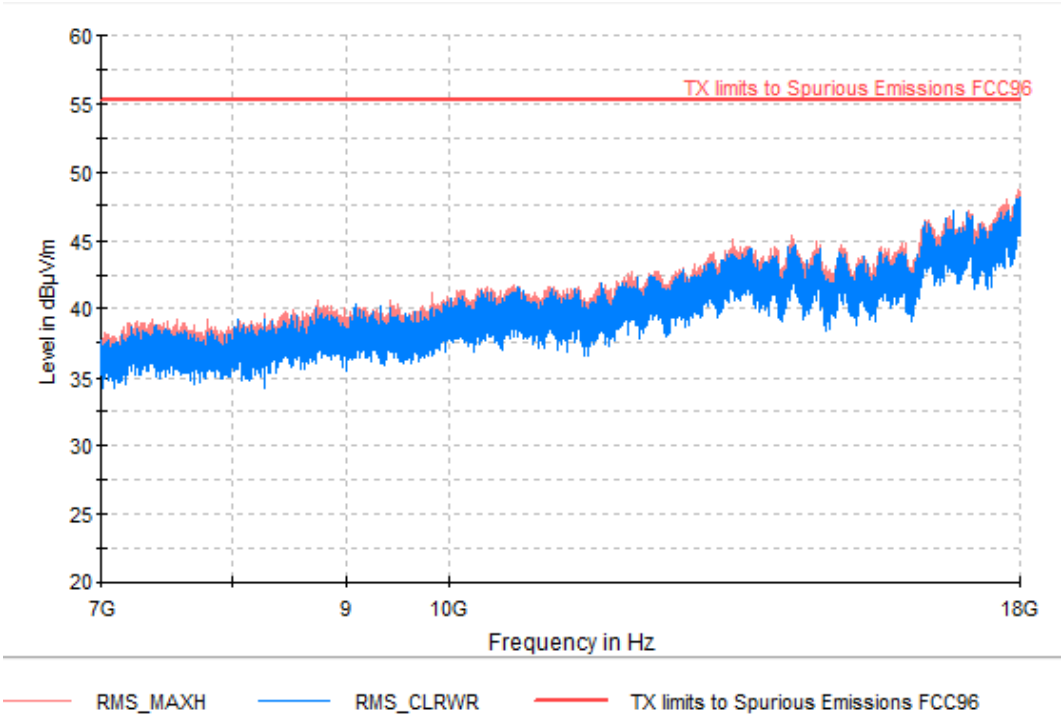
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3607.5 MHz)

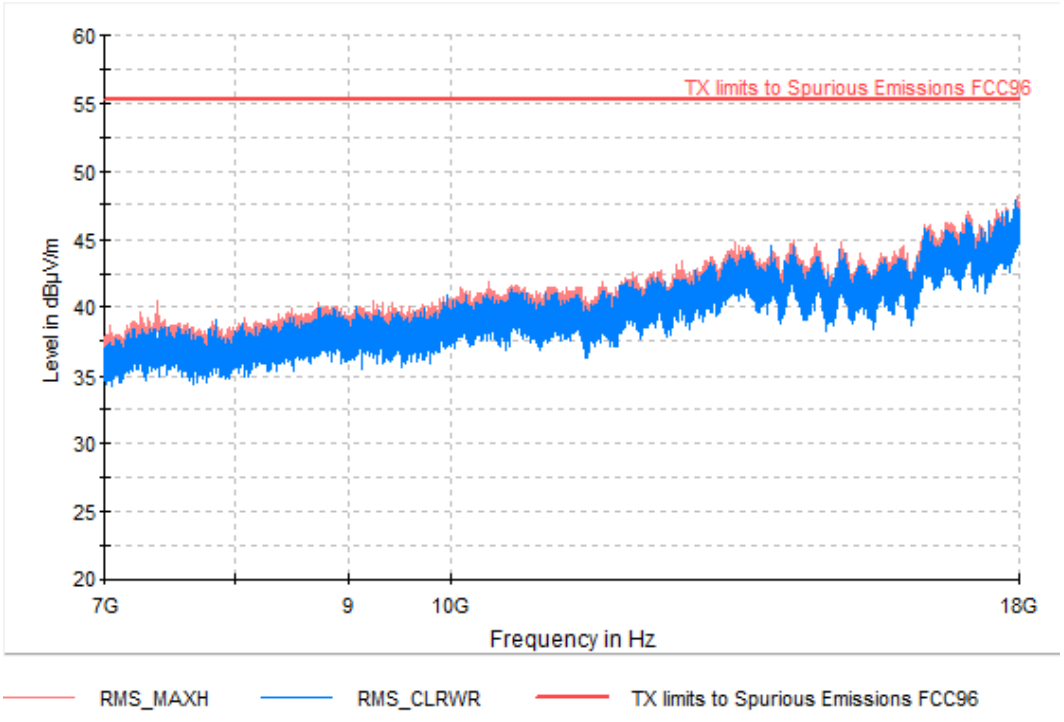


TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3650 MHz)



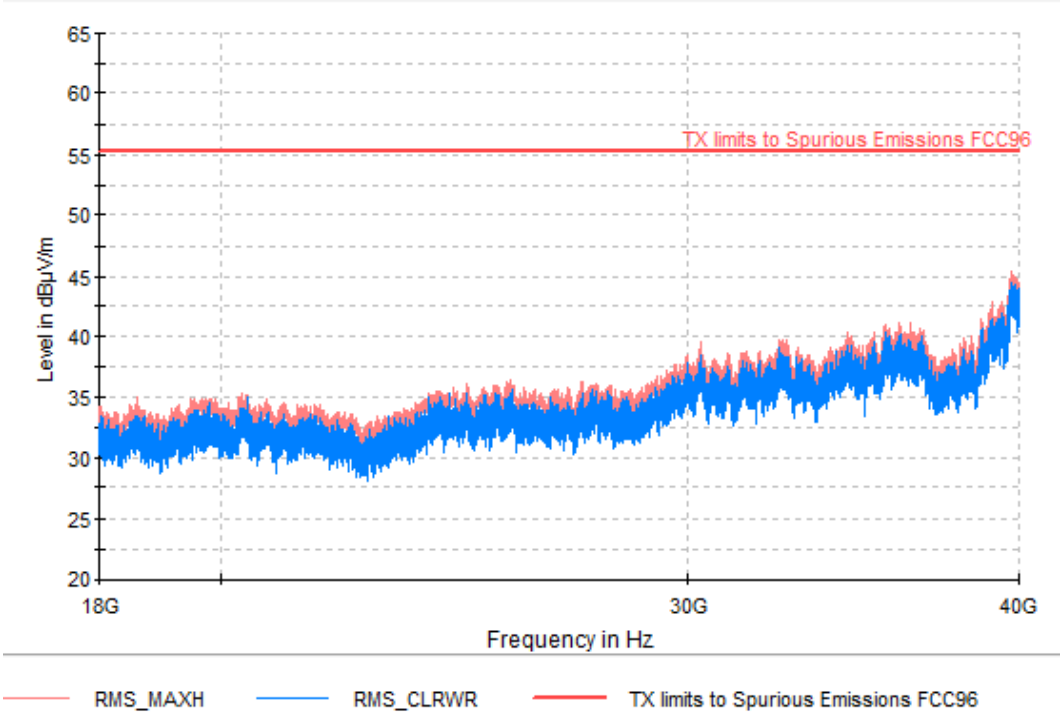
Highest Channel (3692.5 MHz)



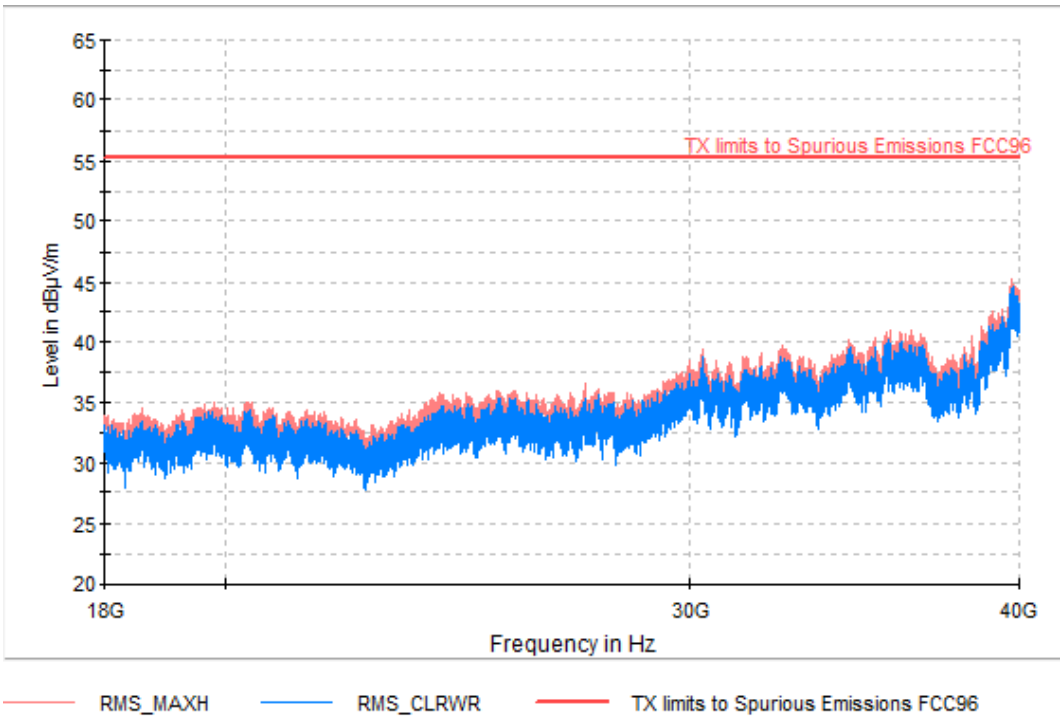
TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3607.5 MHz)

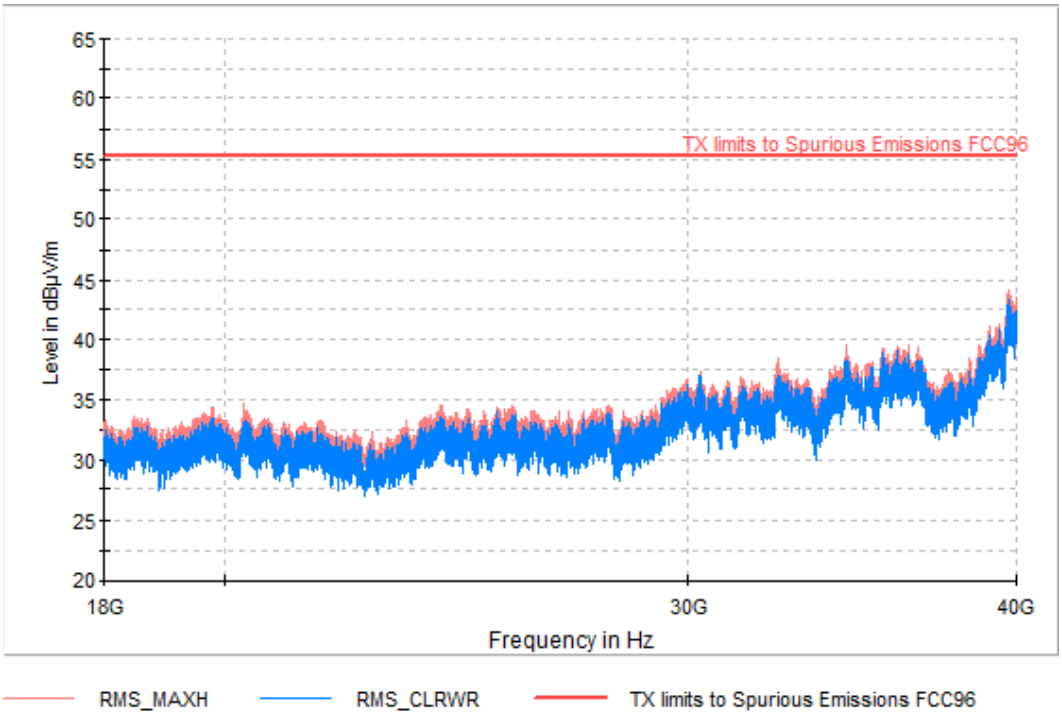


Middle Channel (3650 MHz)



TEST RESULTS (Cont.):	**15 MHz BW** FREQUENCY RANGE 18-40 GHz

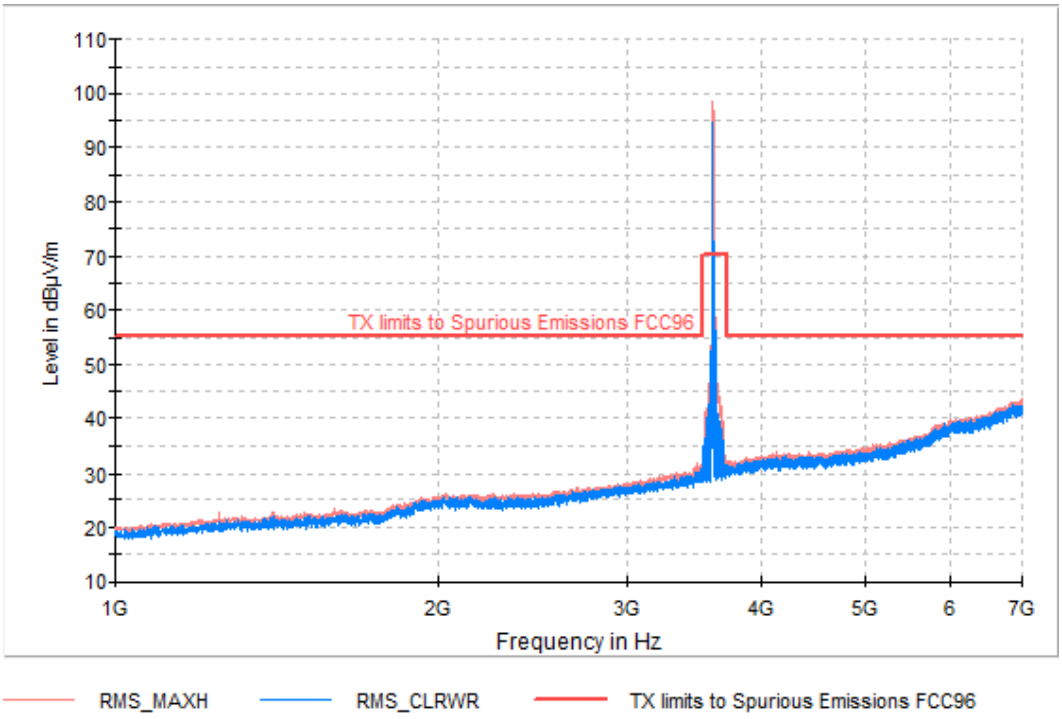
Highest Channel (3692.5 MHz)



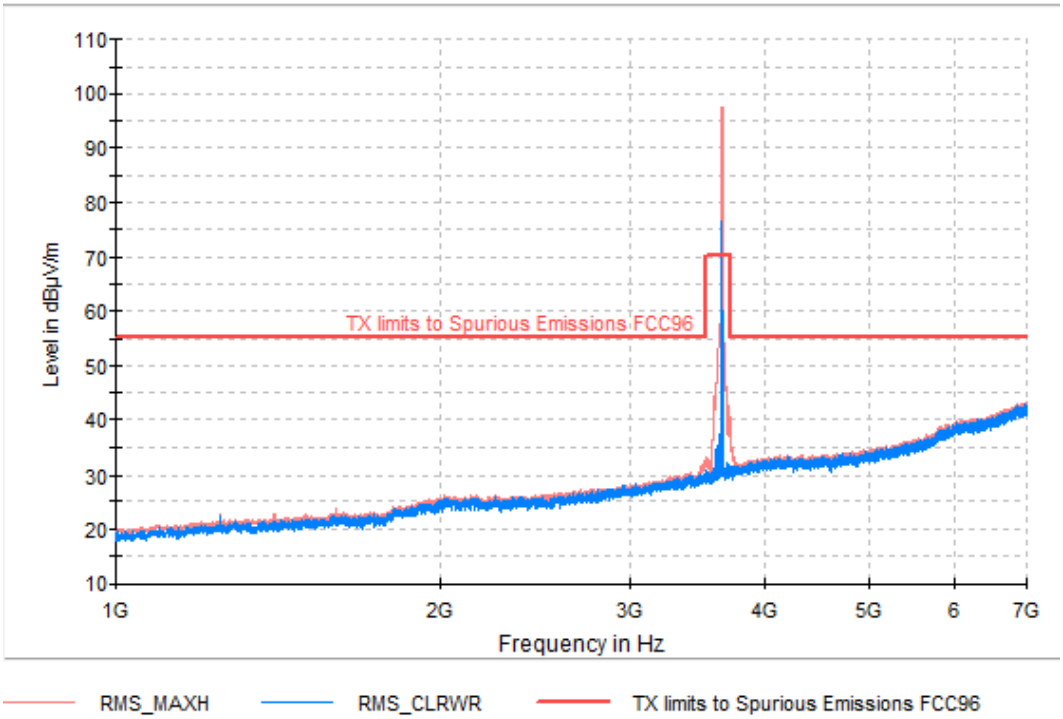
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 1-7 GHz

20 MHz BW

FREQUENCY RANGE 1-7 GHz
Lowest Channel (3610 MHz)

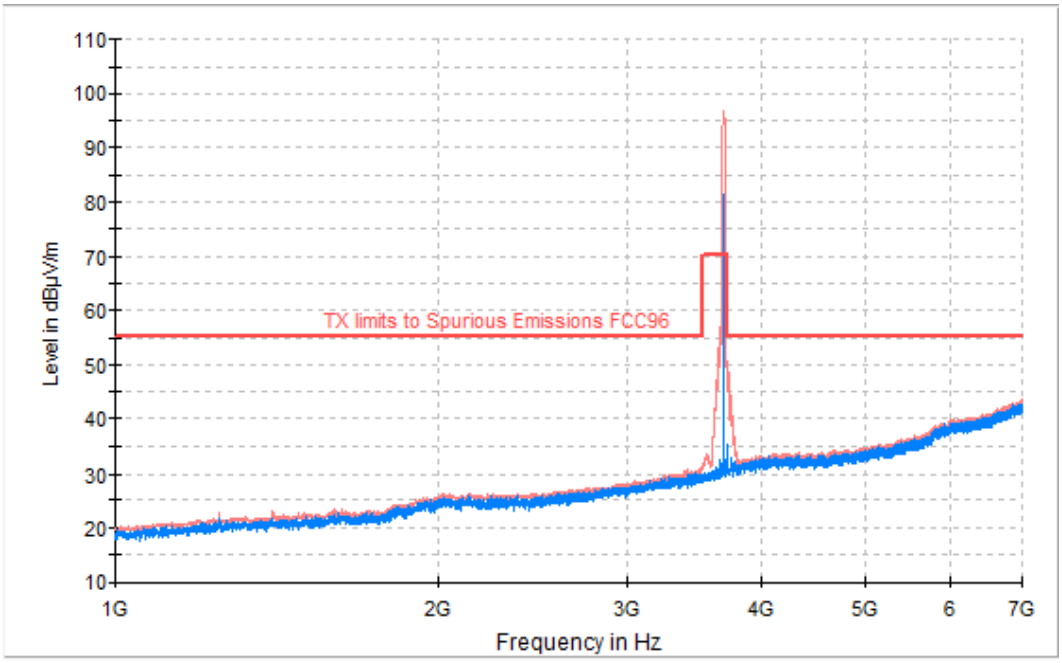


Middle Channel (3650 MHz)



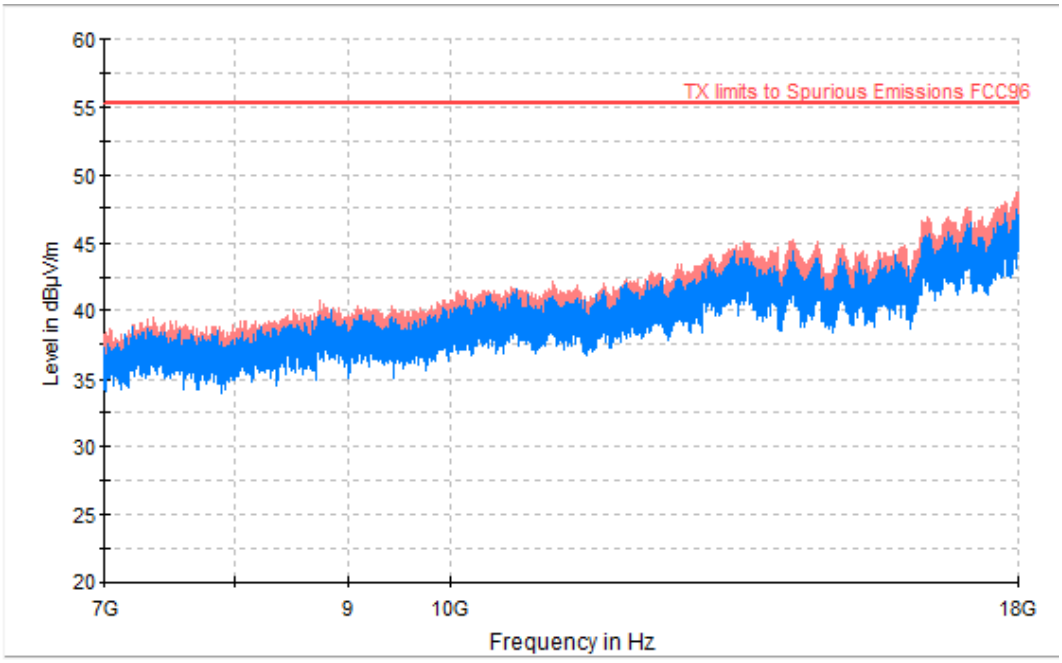
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 1-7 GHz

Highest Channel (3690 MHz)



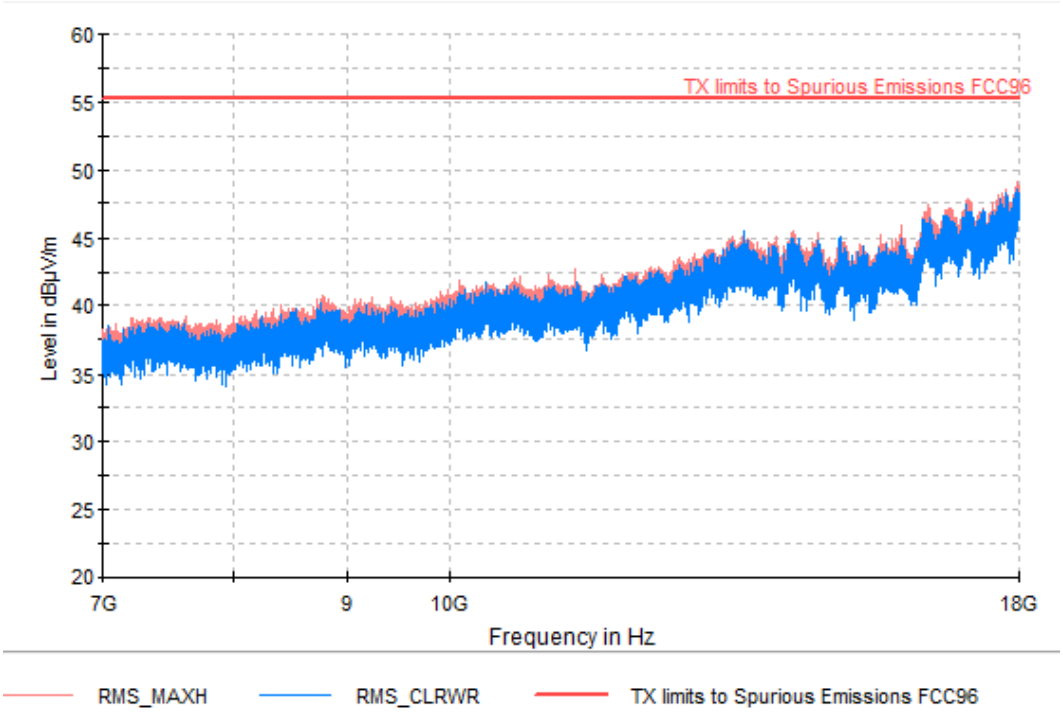
FREQUENCY RANGE 7-18 GHz

Lowest Channel (3610 MHz)

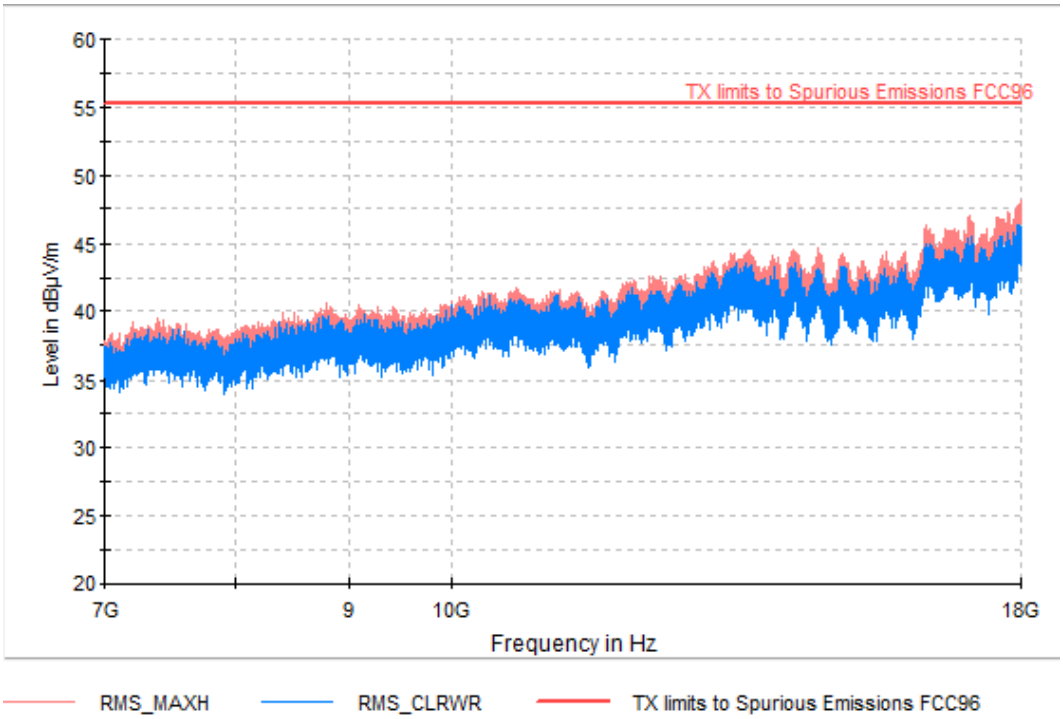


TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 7-18 GHz

Middle Channel (3650 MHz)



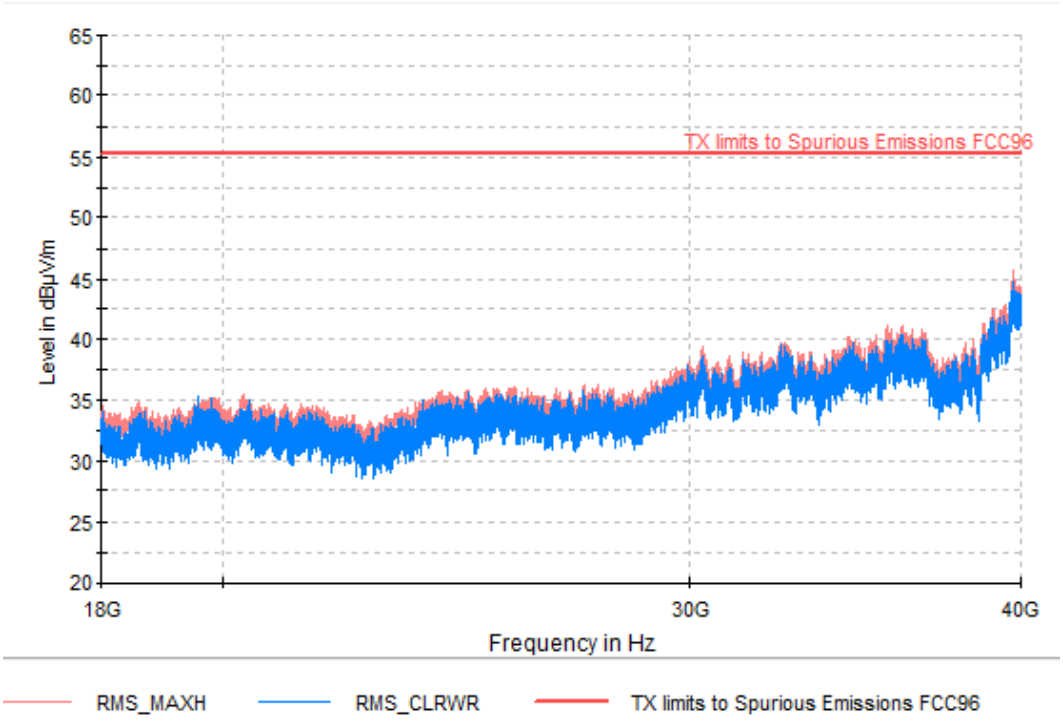
Highest Channel (3690 MHz)



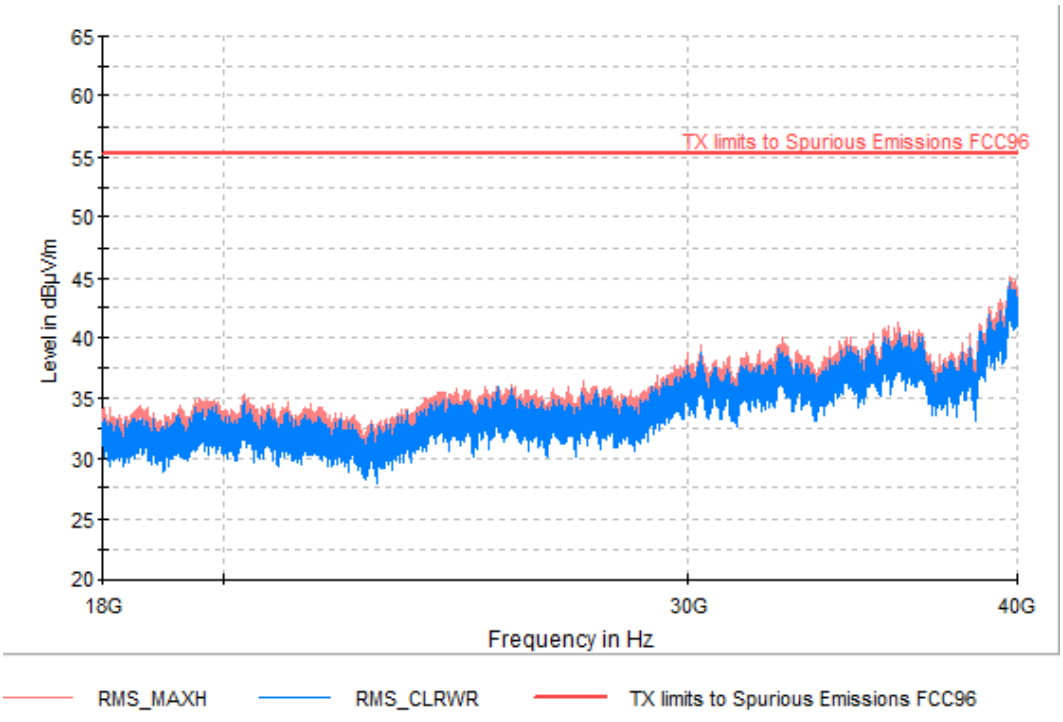
TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 18-40 GHz

FREQUENCY RANGE 18-40 GHz

Lowest Channel (3610 MHz)

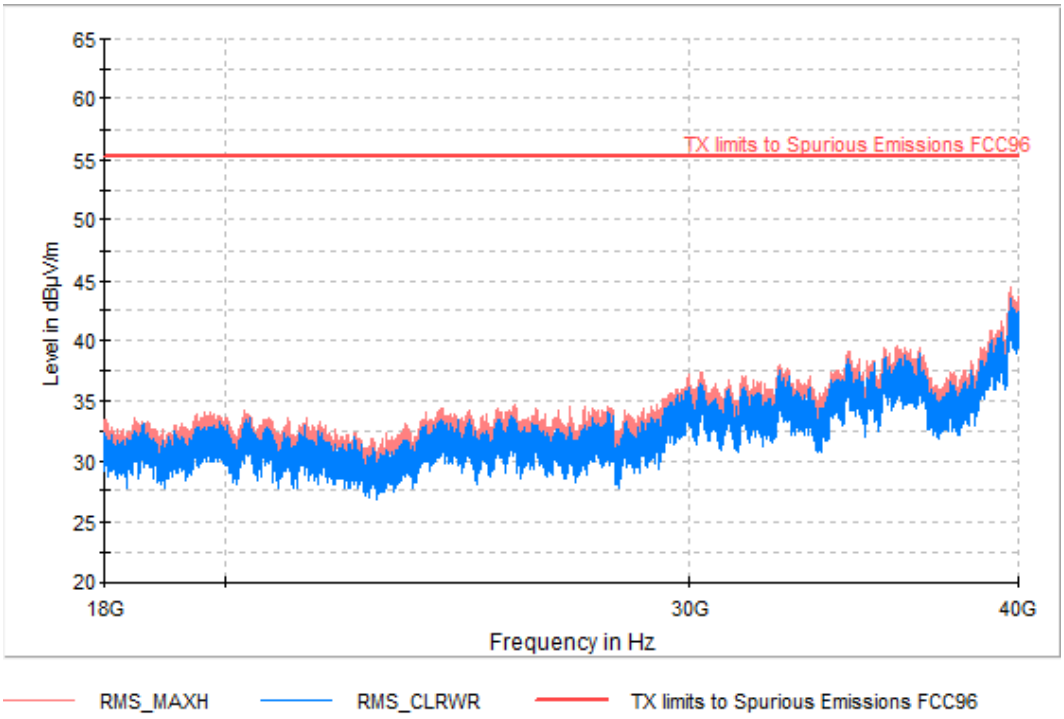


Middle Channel (3650 MHz)



TEST RESULTS (Cont.):	**20 MHz BW** FREQUENCY RANGE 18-40 GHz

Highest Channel (3690 MHz)



TEST A.9: FREQUENCY STABILITY

LIMITS:	Product standard:	Part 2.1055
	Test standard:	ANSI C63.26-2015

LIMITS

The frequency stability shall be measured with variation of ambient temperature from -30° to +50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

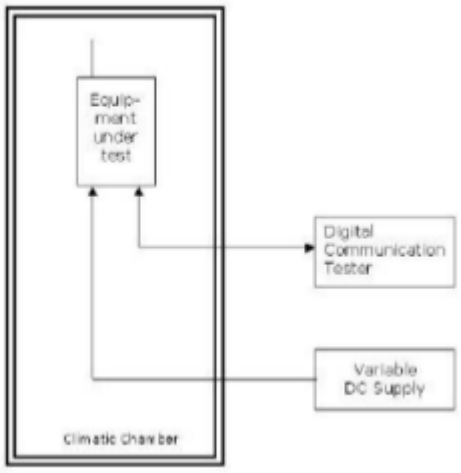
The frequency stability was measured under the following conditions:

a) At 10°C intervals of temperatures between -30°C and +50°C at the manufacturer's rated supply voltage, and

b) At +20°C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage, then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

TEST SETUP

The frequency stability was measured by following the procedure stated in the section 5.6 of ANSI C63.26-2015 and the section 9of FCC KDB 971168 D01 v03 r01.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (Band 48)
TEST RESULTS:	PASS

10 MHz BW

Temperature (°C)	Input Voltage (V)	Lowest Frequency 3555 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3550.530	0.001127	3559.450	-0.001124
40	3.3	3550.510	0.000563	3559.490	0.000000
30	3.3	3550.530	0.001127	3559.470	-0.000562
20 (Tnom)	3.3	3550.490	----	3559.490	----
20	2.805	3550.530	0.001127	3559.450	-0.001124
20	3.795	3550.510	0.000563	3559.470	-0.000562
10	3.3	3550.530	0.001127	3559.470	-0.000562
0	3.3	3550.550	0.001690	3559.410	-0.002248
-10	3.3	3550.570	0.002253	3559.390	-0.002809
-20	3.3	3550.550	0.001690	3559.410	-0.002248
-30	3.3	3550.530	0.001127	3599.430	1.122071

TEST RESULTS (Cont.):	

10 MHz BW

Temperature (°C)	Input Voltage (V)	Highest Frequency 3695 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3690.570	0.001084	3699.510	0.000541
40	3.3	3690.550	0.000542	3699.430	-0.001622
30	3.3	3690.610	0.002168	3699.450	-0.001081
20 (Tnom)	3.3	3690.530	----	3699.490	----
20	2.805	3690.570	0.001084	3699.470	-0.000541
20	3.795	3690.550	0.000542	3699.499	0.000243
10	3.3	3690.550	0.000542	3699.430	-0.001622
0	3.3	3690.590	0.001626	3699.450	-0.001081
-10	3.3	3690.570	0.001084	3699.450	-0.001081
-20	3.3	3690.550	0.000542	3699.470	-0.000541
-30	3.3	3690.530	0.000000	3699.510	-0.242196

Verdict: PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (Band 42)
TEST RESULTS:	PASS

10 MHz BW

Temperature (°C)	Input Voltage (V)	Lowest Frequency 3555 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3550.590	0.002253	3559.470	-0.001124
40	3.3	3550.570	0.001690	3559.410	-0.002809
30	3.3	3550.610	0.002816	3559.450	-0.001686
20 (Tnom)	3.3	3550.510	----	3559.510	----
20	2.805	3550.550	0.001127	3559.450	-0.001686
20	3.795	3550.530	0.000563	3559.470	-0.001124
10	3.3	3550.610	0.002816	3559.450	-0.001686
0	3.3	3550.590	0.002253	3559.490	-0.000562
-10	3.3	3550.550	0.001127	3559.390	-0.003371
-20	3.3	3550.590	0.002253	3559.470	-0.001124
-30	3.3	3550.630	0.003380	3559.490	-0.000562

Verdict: PASS

TEST RESULTS (Cont.):	

10 MHz BW

Temperature (°C)	Input Voltage (V)	Highest Frequency 3595 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3690.570	0.001084	3699.510	0.000541
40	3.3	3690.550	0.000542	3699.430	-0.001622
30	3.3	3690.610	0.002168	3699.450	-0.001081
20 (Tnom)	3.3	3690.530	----	3699.490	----
20	2.805	3690.570	0.001084	3699.470	-0.000541
20	3.795	3690.550	0.000542	3699.499	0.000243
10	3.3	3690.550	0.000542	3699.430	-0.001622
0	3.3	3690.590	0.001626	3699.450	-0.001081
-10	3.3	3690.570	0.001084	3699.450	-0.001081
-20	3.3	3690.550	0.000542	3699.470	-0.000541
-30	3.3	3690.530	0.000000	3699.510	-0.242196

Verdict: PASS

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (Band 43)
TEST RESULTS:	PASS

10 MHz BW

Temperature (°C)	Input Voltage (V)	Lowest Frequency 3605 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3600.550	0.001666	3609.450	-0.001108
40	3.3	3600.570	0.002222	3609.430	-0.001662
30	3.3	3600.610	0.003333	3609.410	-0.002216
20 (Tnom)	3.3	3600.490	----	3609.490	----
20	2.805	3600.570	0.002222	3609.410	-0.002216
20	3.795	3600.530	0.001111	3609.430	-0.001662
10	3.3	3600.550	0.001666	3609.410	-0.002216
0	3.3	3600.550	0.001666	3609.450	-0.001108
-10	3.3	3600.590	0.002777	3609.390	-0.002770
-20	3.3	3600.570	0.002222	3609.430	-0.001662
-30	3.3	3600.550	0.001666	3609.410	-0.002216

TEST RESULTS (Cont.):	

10 MHz BW

Temperature (°C)	Input Voltage (V)	Highest Frequency 3695 MHz			
		Frequency (MHz)	Delta to Tnom-Vnom (%)	Frequency (MHz)	Delta to Tnom-Vnom (%)
50	3.3	3690.550	0.001084	3699.450	-0.001081
40	3.3	3690.570	0.001626	3699.430	-0.001622
30	3.3	3690.530	0.000542	3699.470	-0.000541
20 (Tnom)	3.3	3690.510	----	3699.490	----
20	2.805	3690.550	0.001084	3699.450	-0.001081
20	3.795	3690.530	0.000542	3699.470	-0.000541
10	3.3	3690.610	0.002710	3699.410	-0.002162
0	3.3	3690.630	0.003252	3699.390	-0.002703
-10	3.3	3690.570	0.001626	3699.430	-0.001622
-20	3.3	3690.550	0.001084	3699.450	-0.001081
-30	3.3	3690.530	0.000542	3699.470	-0.000541

Verdict: PASS