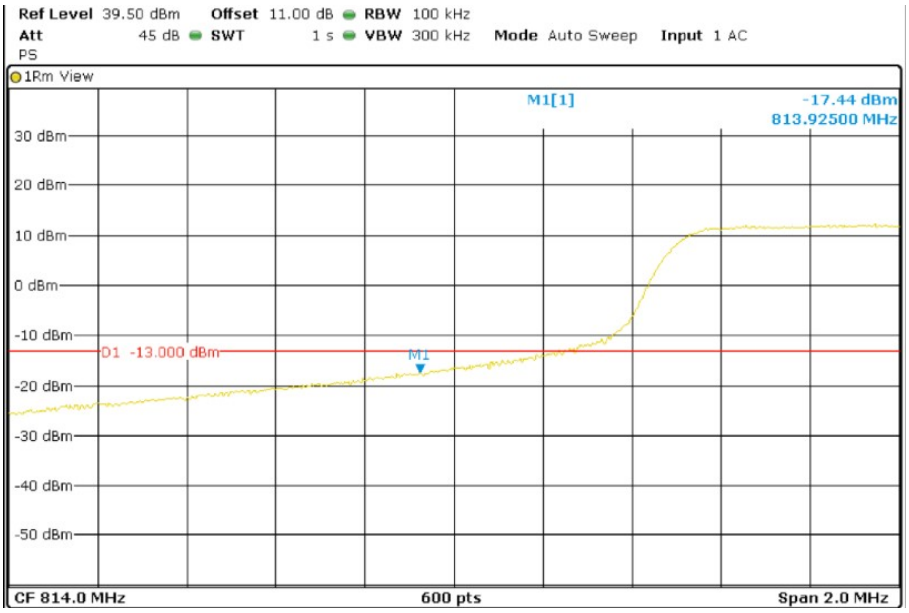
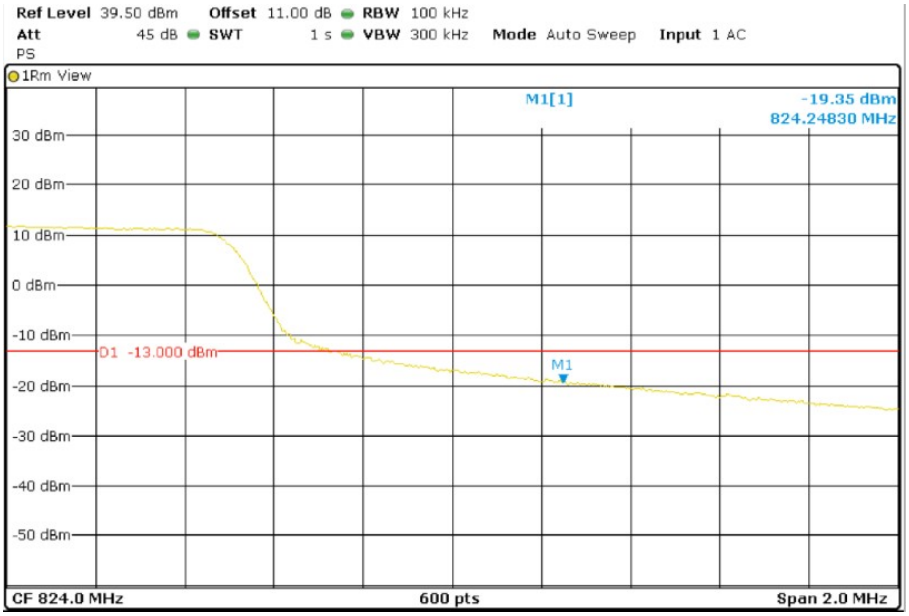
TEST RESULTS (Cont):	

LTE QPSK MODULATION. RB = 50. Offset = 0. BW = 10 MHz

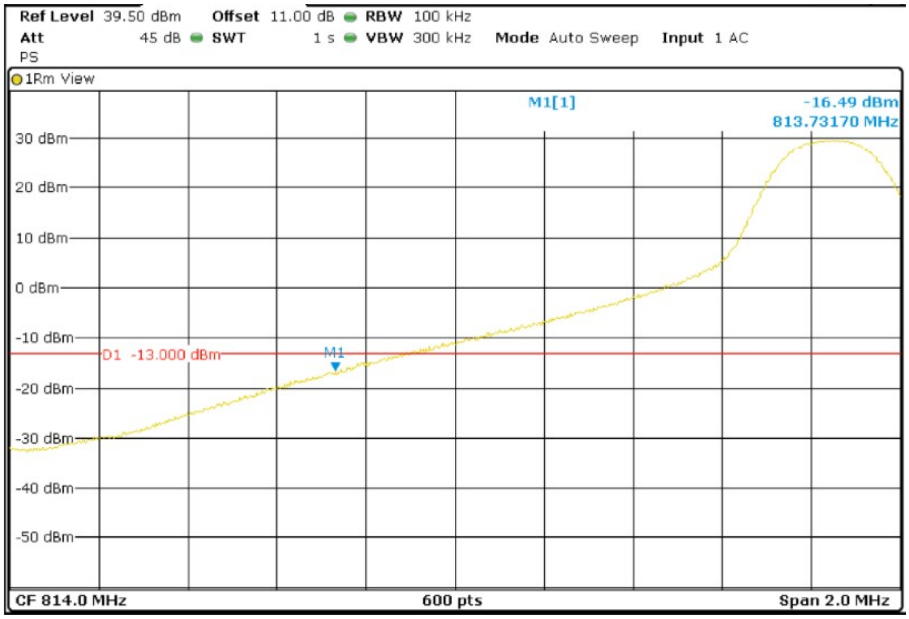


LTE QPSK MODULATION. RB = 50. Offset = 0. BW = 10 MHz

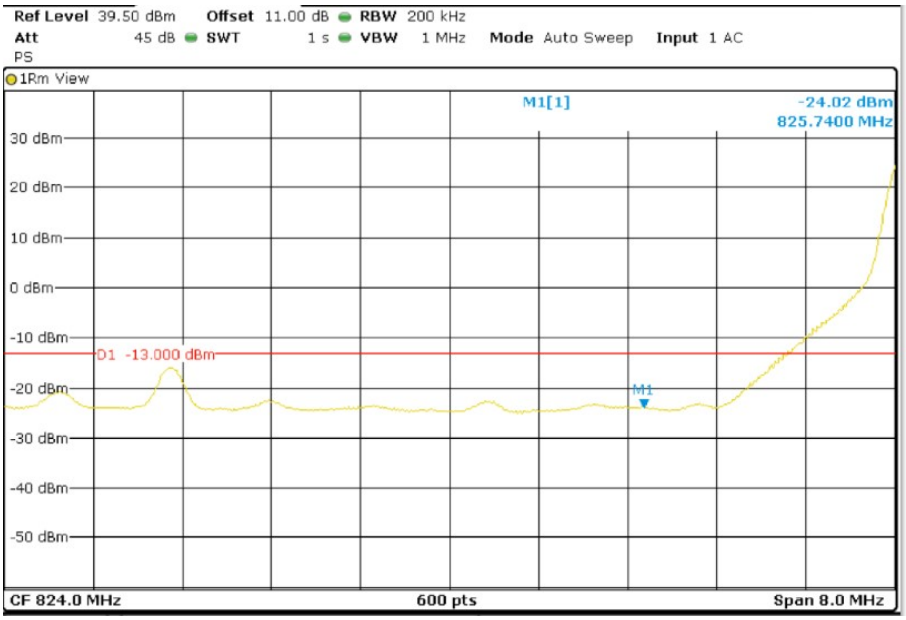


TEST RESULTS (Cont):	

LTE QPSK MODULATION. RB = 1. Offset = 0. BW = 15 MHz



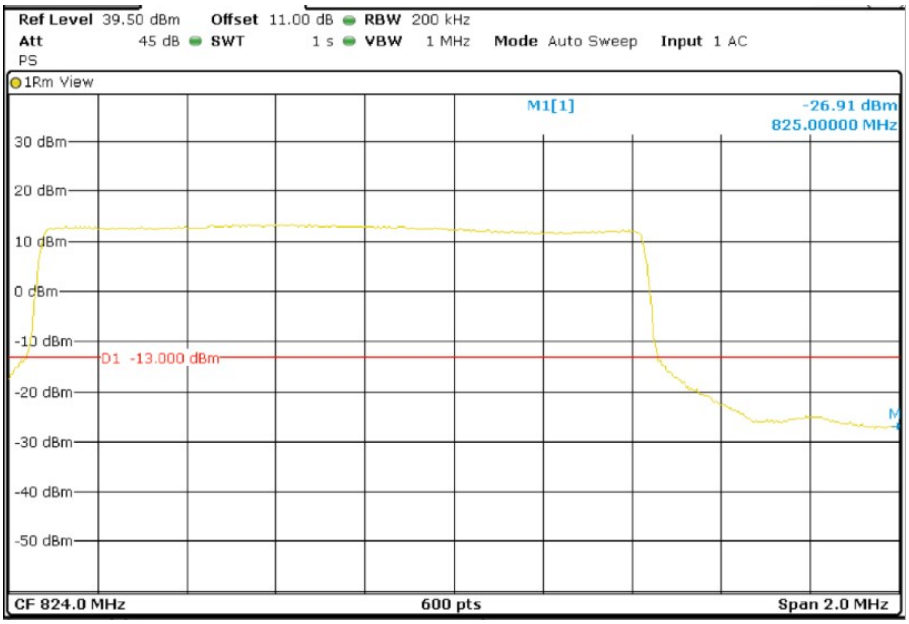
LTE QPSK MODULATION. RB = 1. Offset = Max. BW = 15 MHz



TEST RESULTS (Cont):	

LTE QPSK MODULATION. RB = 75. Offset = 0. BW = 15 MHz

LTE QPSK MODULATION. RB = 75. Offset = 0. BW = 15 MHz



TEST A.7: RADIATED EMISSIONS

LIMITS:	Product standard:	FCC Part 90.
	Test standard:	FCC §2.1051

LIMITS

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. P in watts.

At Po transmitting power of 2 watts (33 dBm), the specified minimum attenuation becomes 43+10log (Po). and the level in dBm relative to Po becomes:

Po (dBm) – [43 + 10 log (Po in watts)] = -13 dBm

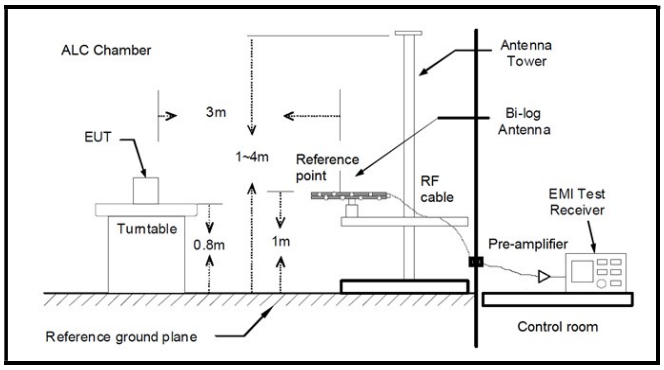
TEST SETUP

The measurement was performed with the EUT inside an anechoic chamber. The spectrum was scanned from 30 MHz to at least the 10th harmonic of the highest frequency generated within the equipment.

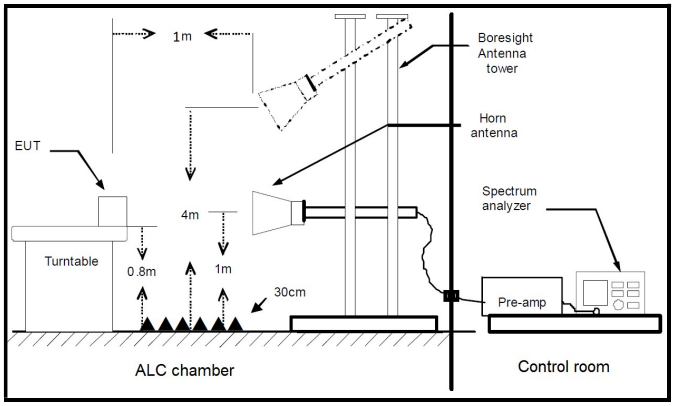
The EUT was placed on a non-conductive stand at a 3-meter distance from the measuring antenna for measurements below 1 GHz and at 1-meter distance for measurements above 1 GHz.

Detected emissions were maximized at each frequency by rotating the EUT and adjusting the measuring antenna height and polarization. The maximum reading was recorded.

Radiated measurements < 1GHz



Radiated measurements > 1GHz



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

RESULTS

A preliminary scan determined the QPSK 5 MHz bandwidth as the worst case. The configuration of Resource Blocks which is the worst case for conducted power was used.

The following plots show the results for this configuration.

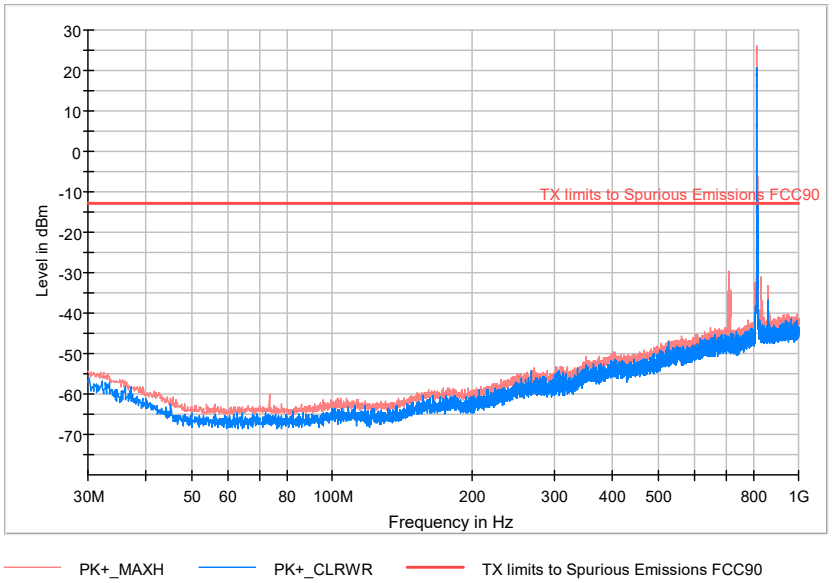
No spurious signal was found at less than 20dB respect to the limit in all the frequency ranges.

LTE QPSK MODULATION. RB = 1. Offset = 0. BW = 5 MHz

TEST RESULTS (Cont):	Low Channel

FREQUENCY RANGE: 30-1000 MHz

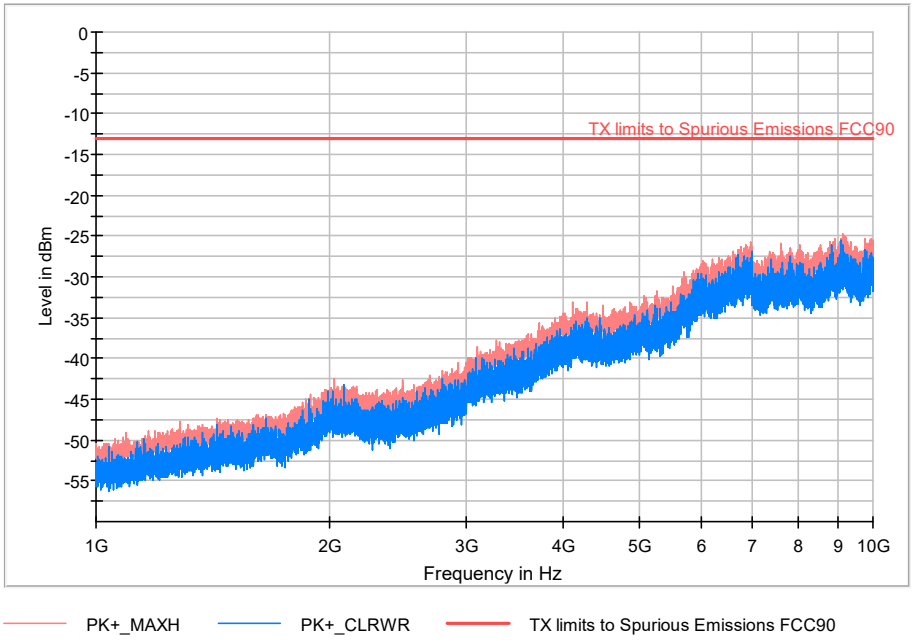
Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)	Comment
73.456000	-65.92	-59.91	
705.314000	-47.85	-34.75	
710.940000	-48.07	-29.59	
814.148000	19.91	25.94	Fundamental
830.541000	-46.04	-30.99	
861.872000	-39.11	-33.16	



TEST RESULTS (Cont):	Low Channel

FREQUENCY RANGE: 1-10 GHz

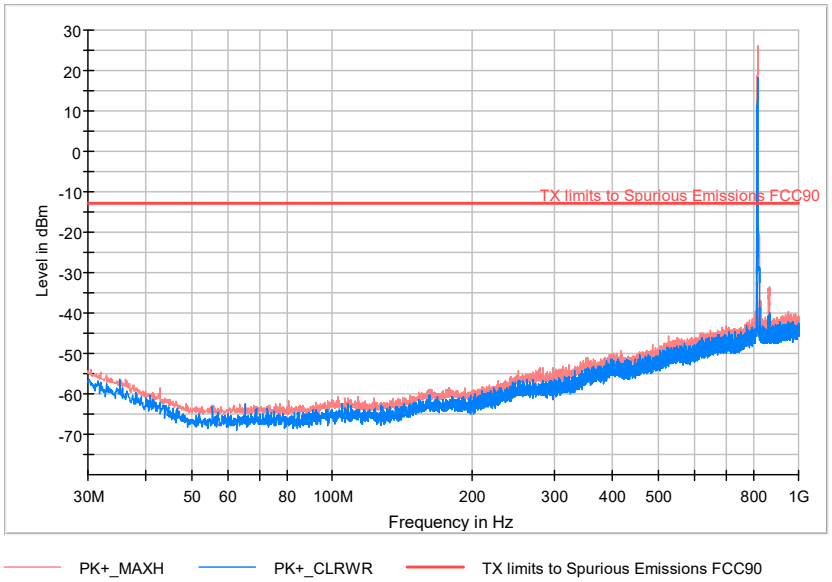
Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)
2023.800000	-46.10	-42.38
6975.000000	-28.70	-25.72
7601.000000	-32.32	-25.91
9152.500000	-29.01	-24.71



TEST RESULTS(Cont.):	Middle Channel

FREQUENCY RANGE: 30-1000 MHz

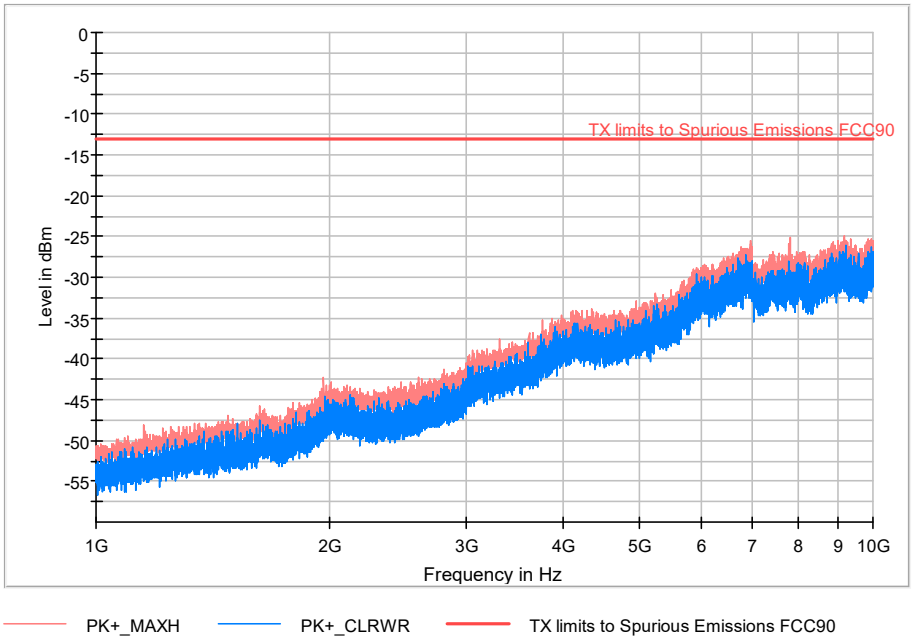
Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)	Comment
818.767000	15.72	26.19	Fundamental
864.491000	-40.62	-33.57	



TEST RESULTS (Cont):	Middle Channel

FREQUENCY RANGE: 1-10 GHz

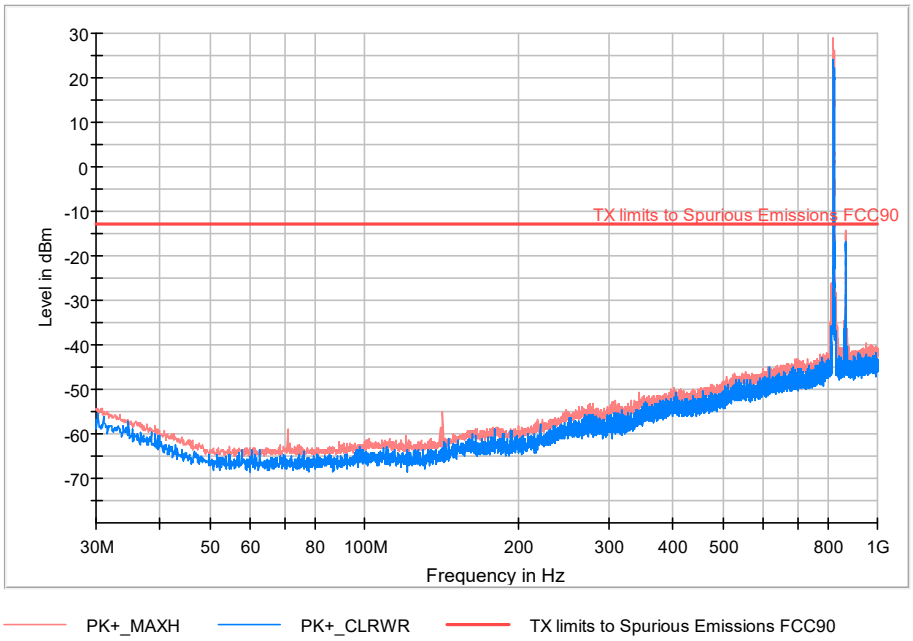
Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)
1965.400000	-48.21	-42.31
6965.000000	-28.74	-25.45
7812.500000	-31.13	-25.21
9197.000000	-31.06	-24.95



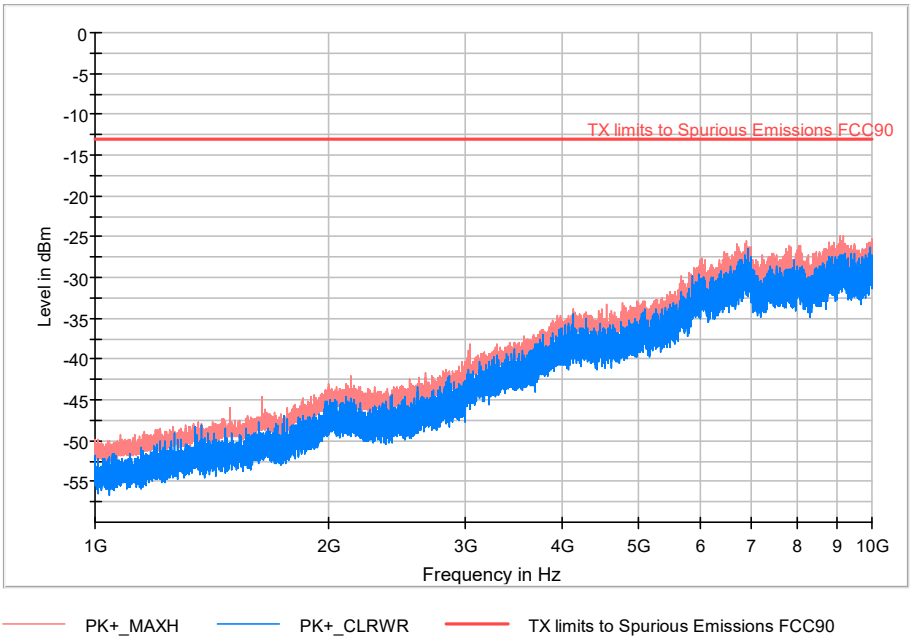
TEST RESULTS(Cont.):	High Channel

FREQUENCY RANGE: 30-1000 MHz

Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)	Comment
70.837000	-67.23	-58.85	
142.326000	-65.03	-54.97	
821.423000	24.01	28.81	Fundamental
866.431000	-18.85	-14.27	



TEST RESULTS (Cont):	High Channel

FREQUENCY RANGE: 1-10 GHz

Frequency (MHz)	PK+_CLRWR (dBm)	PK+_MAXH (dBm)
1643.000000	-50.81	-44.64
2132.000000	-45.95	-42.15
6886.500000	-29.00	-25.46
7831.000000	-31.84	-26.03
9114.000000	-29.56	-24.92