



### Antenna 1 + Antenna 2 2TX MODE: 106-Tones RU Index 53

2457

2462

High 10

High 11

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
PSD Results		

-9.220

-10.819

-6.22

-7.84

8.0

8.0

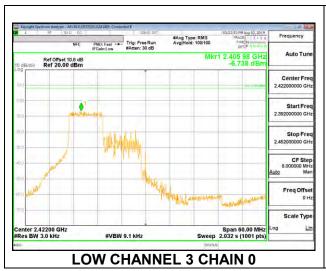
-14.2

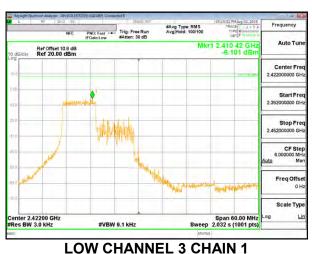
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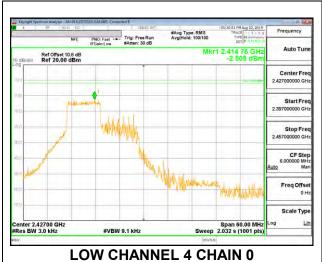
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin
		Measured	Measured	Corr'd		
	(MHz)	(dBm/	(dBm/	PSD (dBm/	(dBm/	
	(	3kHz)	3kHz)	3kHz)	3kHz)	(dB)
Low 3	2422	-6.738	-6.101	-3.40	8.0	-11.4
Low 4	2427	-2.505	-2.487	0.51	8.0	-7.5
Mid 6	2437	-3.265	-3.099	-0.17	8.0	-8.2
High 8	2447	-3.463	-3.634	-0.54	8.0	-8.5
High 9	2452	-8.572	-8.699	-5.62	8.0	-13.6

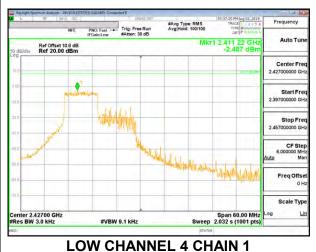
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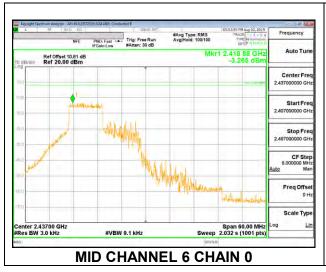
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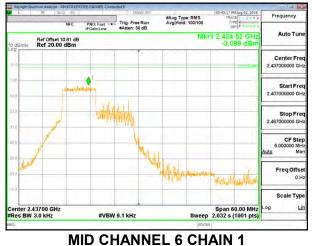


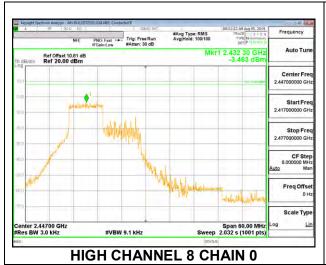


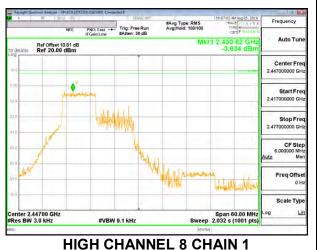


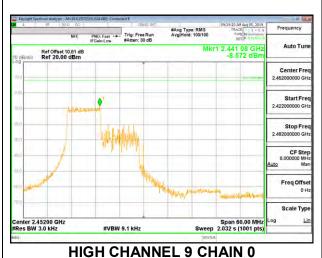


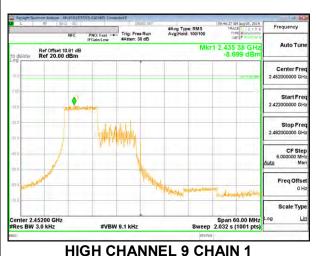


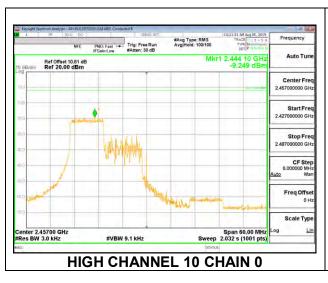


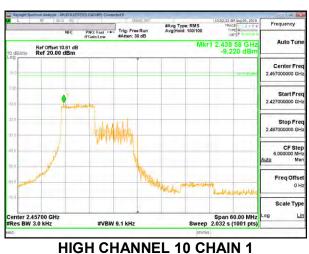


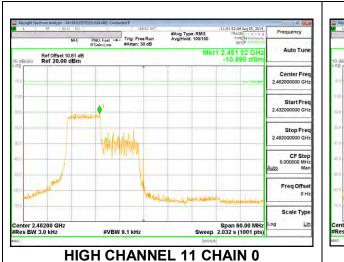














# Antenna 1 + Antenna 2 2TX MODE: 106-Tones RU Index 54

Duty C	ycle CF (dB)	0.00	Included in Calculations of Corr'd PSD					
PSD Results								
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin		
		Measured	Measured	Corr'd				
				PSD				
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/			
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)		
Low 3	2422	-6.276	-5.983	-3.12	8.0	-11.1		
Low 4	2427	-3.305	-3.185	-0.23	8.0	-8.2		
Mid 6	2437	-3.346	-3.087	-0.20	8.0	-8.2		
High 8	2447	-3.541	-3.432	-0.48	8.0	-8.5		
High 9	2452	-8.422	-8.216	-5.31	8.0	-13.3		
High 10	2457	-8.583	-9.208	-5.87	8.0	-13.9		

-10.433

-7.50

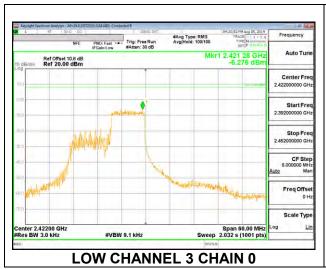
8.0

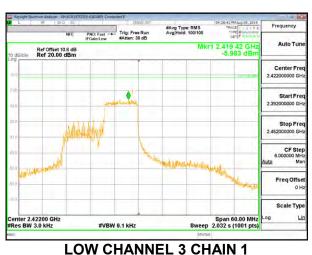
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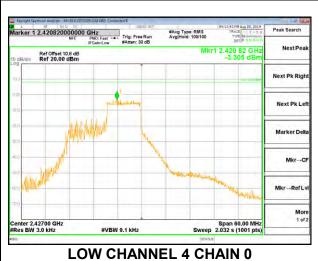
High 11

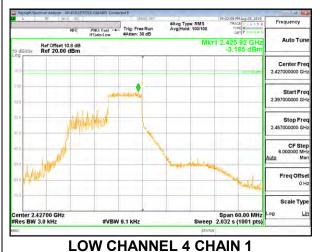
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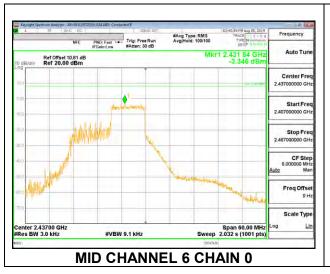
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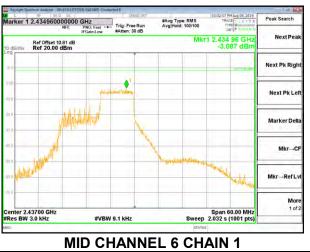


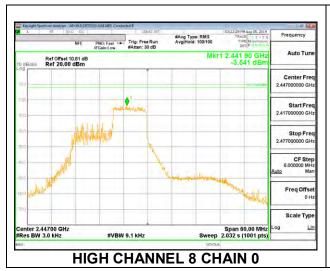


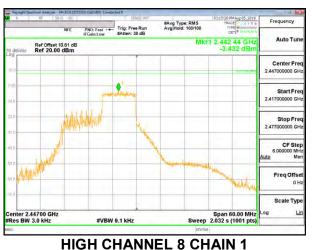


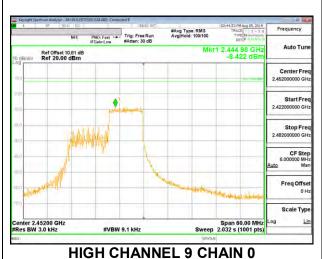


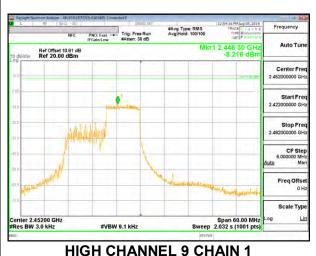


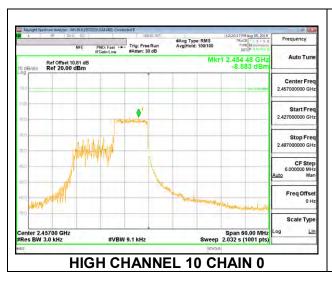


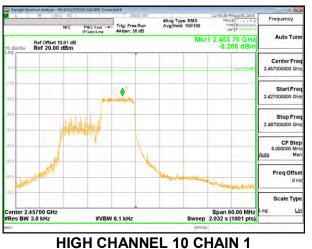


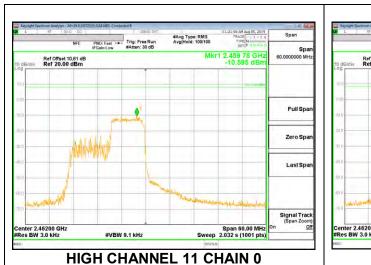


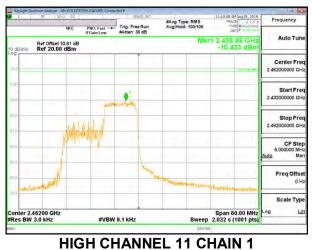








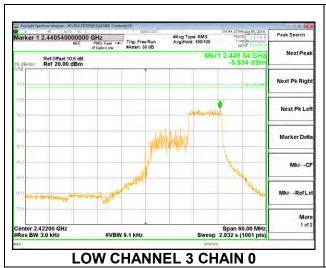


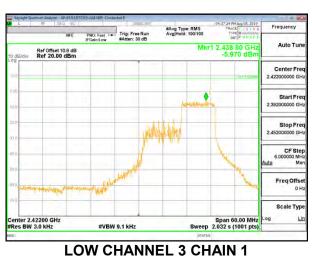


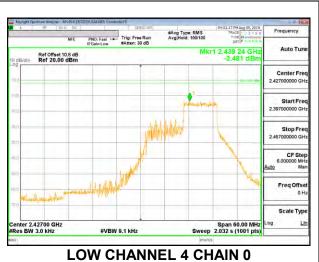
### Antenna 1 + Antenna 2 2TX MODE: 106-Tones RU Index 56

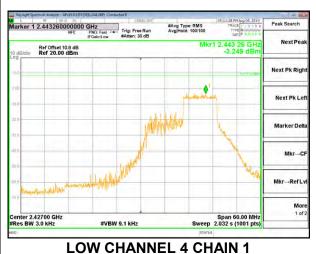
Duty Cycle CF (dB)	0.00	Included in	Calculatio	ns of Co	orr'd PSE	)
PSD Results						
Channel Frequency	Antenna 1	Antenna 2	Total	Limit	Margin	

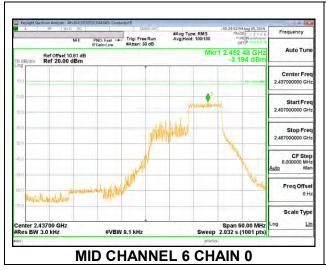
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin
		Measured	Measured	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)
Low 3	2422	-5.934	-5.970	-2.94	8.0	-10.9
Low 4	2427	-3.481	-3.249	-0.35	8.0	-8.4
Mid 6	2437	-3.194	-3.620	-0.39	8.0	-8.4
High 8	2447	-3.333	-3.441	-0.38	8.0	-8.4
High 9	2452	-8.817	-8.258	-5.52	8.0	-13.5
High 10	2457	-8.512	-8.445	-5.47	8.0	-13.5
High 11	2462	-10.801	-10.761	-7.77	8.0	-15.8

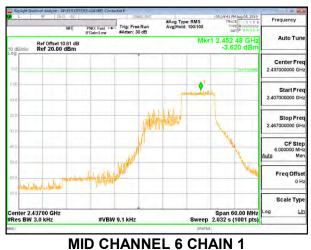


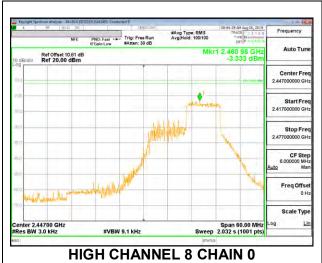




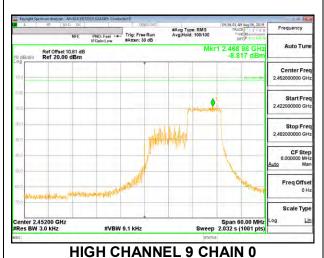


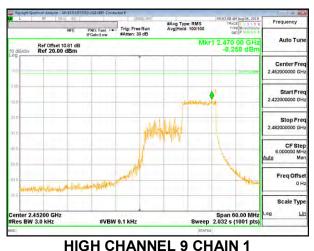


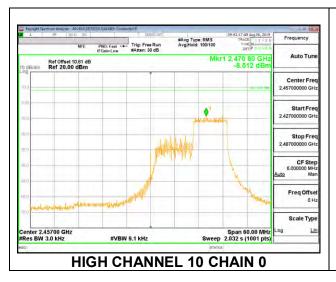


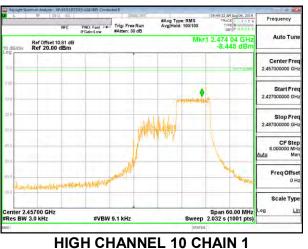


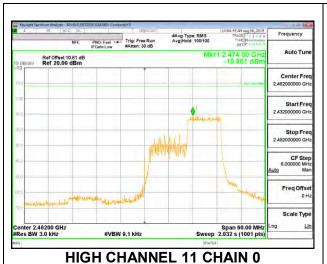














# Antenna 1 + Antenna 2 2TX MODE: 52-Tones RU Index 37

High 9

High 10

High 11

2452

2457

2462

-5.711

-5.237

-7.895

Duty C	ycle CF (dB)	0.00	Included in	Included in Calculations of Corr'd PSI				
PSD Results								
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin		
		Measured	Measured	Corr'd PSD				
	(MHz)	(dBm/ 3kHz)	(dBm/ 3kHz)	(dBm/ 3kHz)	(dBm/ 3kHz)	(dB)		
Low 3	2422	-5.701	-5.021	-2.34	8.0	-10.3		
Low 4	2427	-0.737	-0.497	2.39	8.0	-5.6		
Mid 6	2437	-0.532	-0.152	2.67	8.0	-5.3		
High 8	2447	-0.526	-0.369	2 56	8.0	-5 4		

-5.554

-5.698

-7.410

-2.62

-2.45

-4.64

8.0

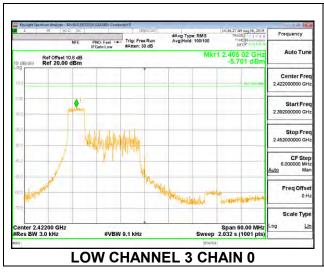
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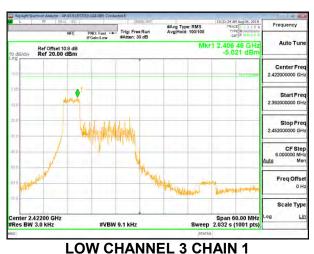
8.0

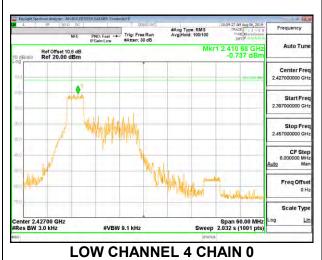
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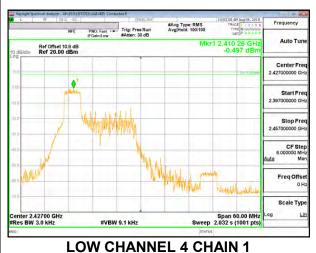
-10.5

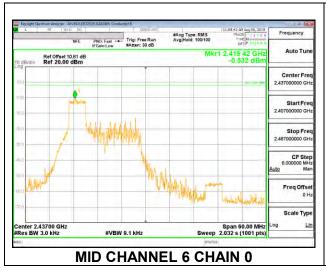
-12.6

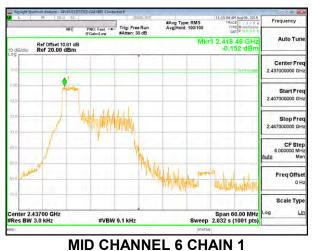


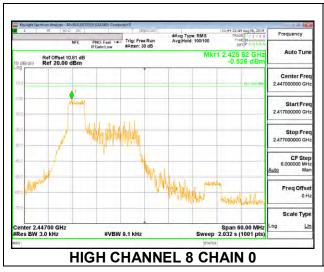


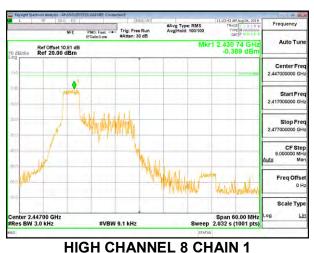


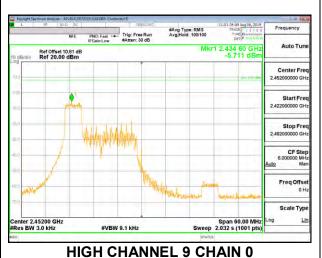


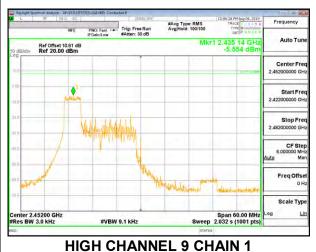


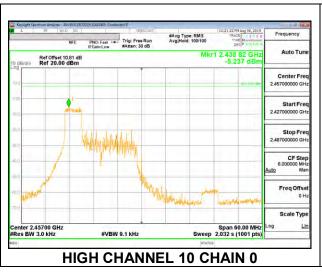


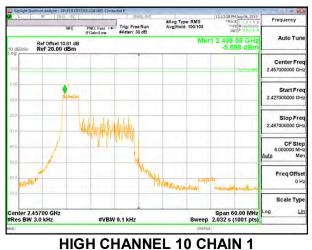


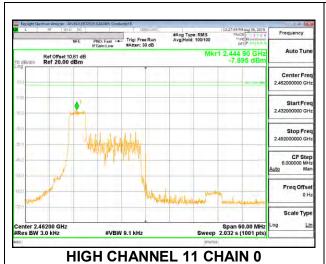


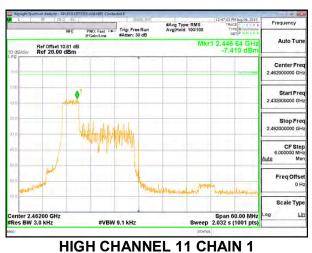










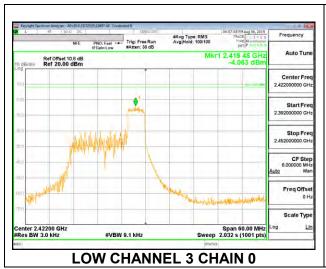


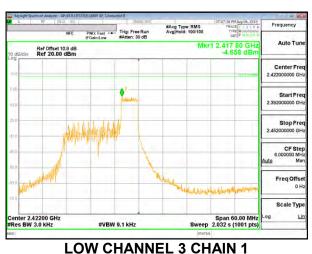
### Antenna 1 + Antenna 2 2TX MODE: 52-Tones RU Index 40

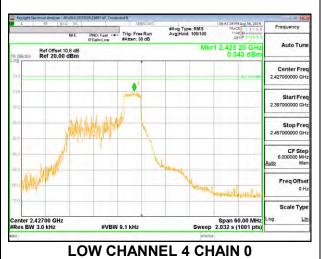
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

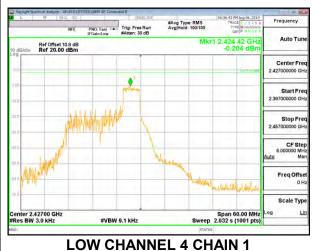
#### **PSD Results**

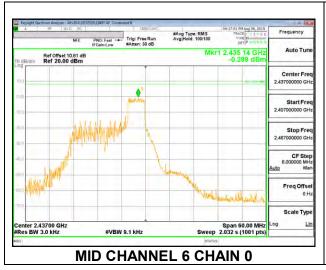
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin
		Measured	Measured	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)
Low 3	2422	-4.063	-4.658	-1.34	8.0	-9.3
Low 4	2427	0.343	-0.204	3.09	8.0	-4.9
Mid 6	2437	-0.289	0.093	2.92	8.0	-5.1
High 8	2447	0.083	0.403	3.26	8.0	-4.7
High 9	2452	-5.951	-6.054	-2.99	8.0	-11.0
High 10	2457	-5.661	-5.489	-2.56	8.0	-10.6
High 11	2462	-6.921	-7.115	-4.01	8.0	-12.0



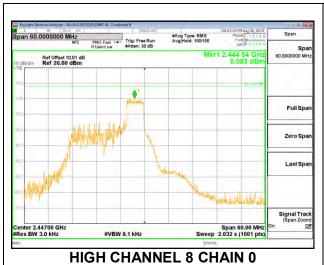


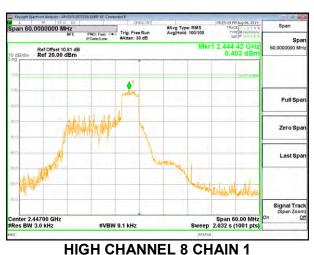


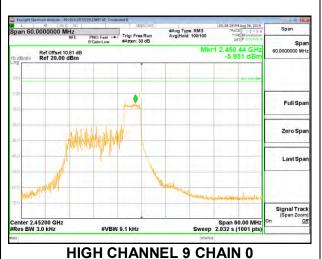


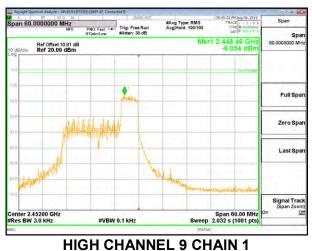


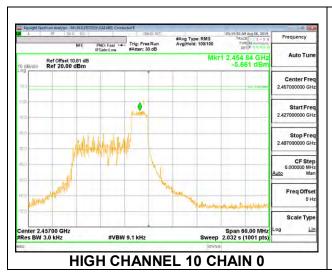


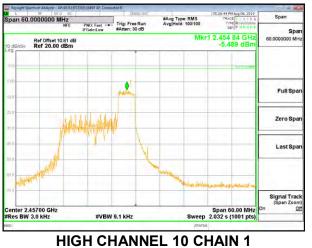


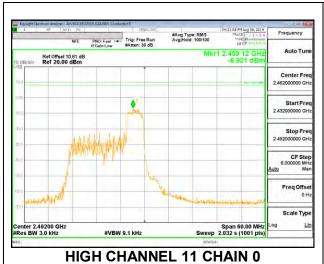


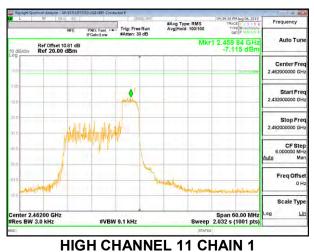












# Antenna 1 + Antenna 2 2TX MODE: 52-Tones RU Index 44

2447

2452

2457

2462

-0.463

-5.902

-5.606

-6.830

High 8

High 9

High 10

High 11

Duty C	ycle CF (dB)	ele CF (dB) 0.00 Included in Calculations of Corr'd PSD								
PSD Results										
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin	l			
		Measured	Measured	Corr'd			l			
				PSD			ı			
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/		Ī			
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)	ı			
Low 3	2422	-4.805	-4.017	-1.38	8.0	-9.4	ı			
Low 4	2427	-0.044	-0.424	2.78	8.0	-5.2	l			
Mid 6	2437	-0.837	-0.528	2.33	8.0	-5.7	l			

-0.414

-6.169

-5.430

-6.559

2.57

-3.02

-2.51

-3.68

8.0

8.0

8.0

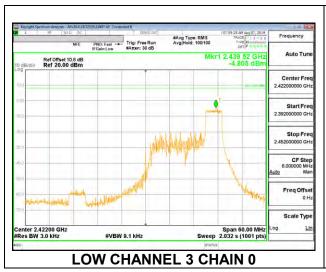
8.0

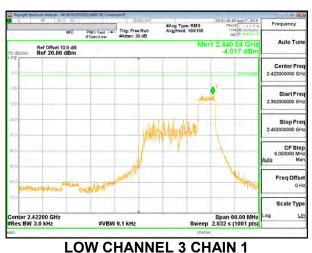
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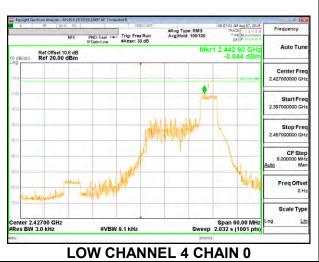
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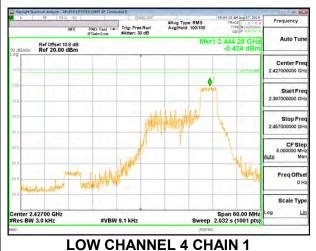
-10.5

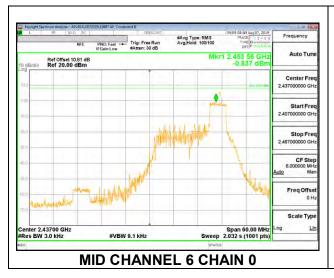
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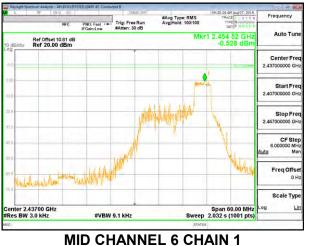


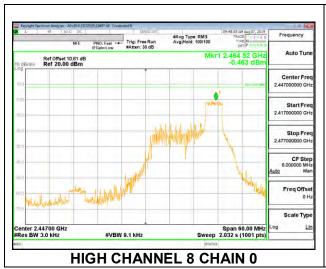


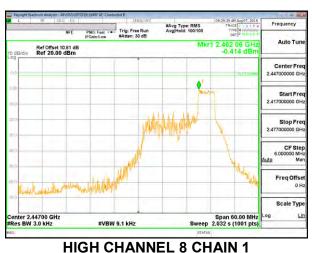


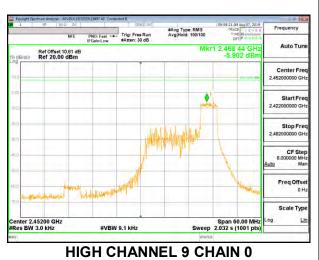


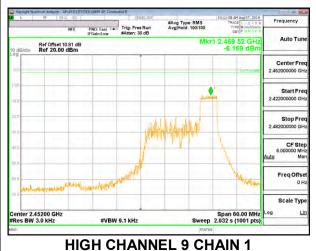


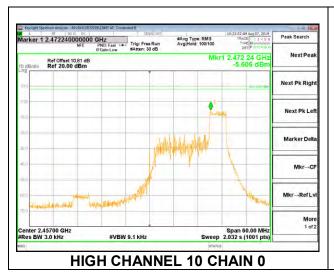


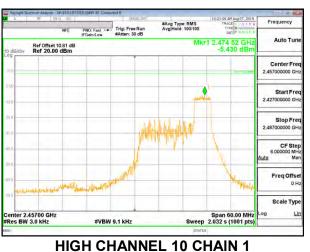




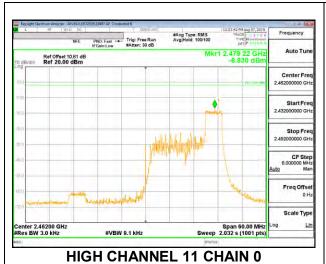


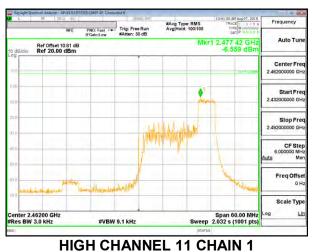






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### Antenna 1 + Antenna 2 2TX MODE: 26-Tones RU Index 0

Duty C	Duty Cycle CF (dB) 0.00 Included in Calculations of Corr'd PSI							
PSD Results								
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin		
		Measured	Measured	Corr'd				
				PSD				
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/			
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)		
Low 3	2422	-3.245	-2.237	0.30	8.0	-7.7		
Low 4	2427	1.217	1.955	4.61	8.0	-3.4		
Mid 6	2437	1.817	1.517	4.68	8.0	-3.3		
High 8	2447	1.314	1.497	4.42	8.0	-3.6		
High 9	2452	-2.918	-2.801	0.15	8.0	-7.8		
High 10	2457	-3.390	-3.909	-0.63	8.0	-8.6		

-4.880

8.0

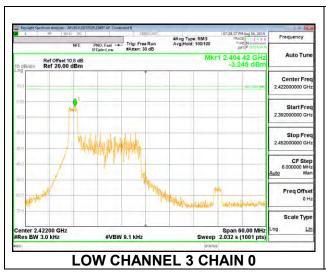
-1.45

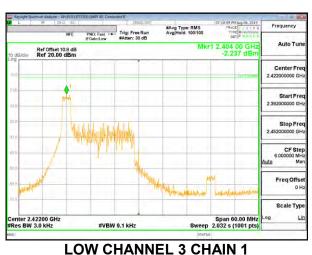
-9.5

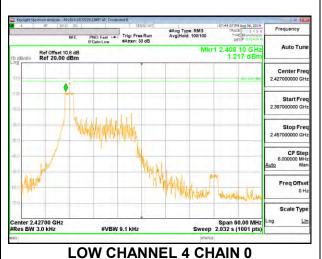
-4.081

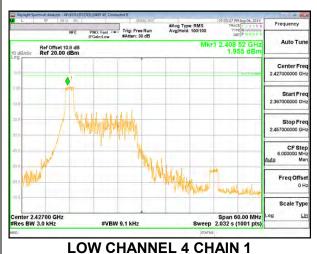
High 11

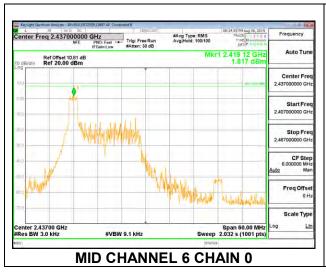
2462

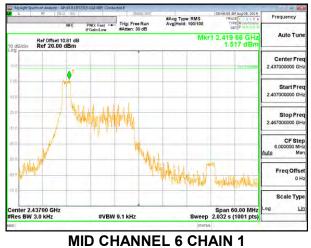


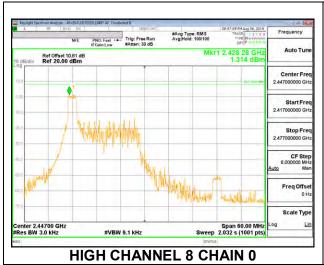


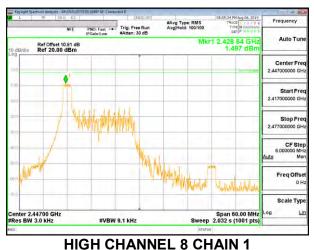


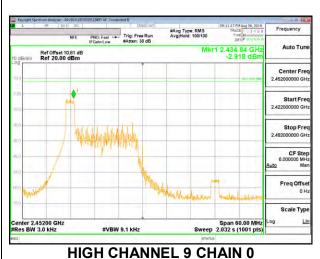


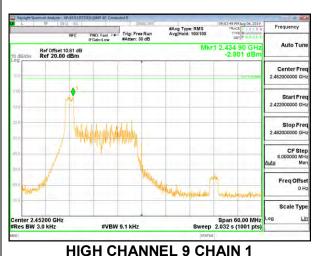


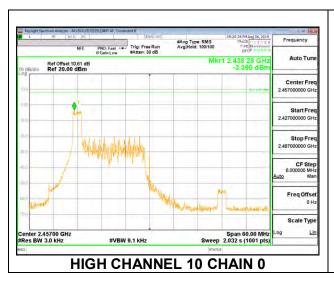


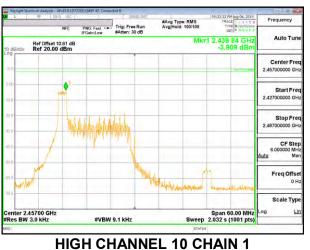




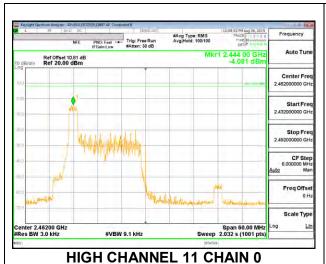


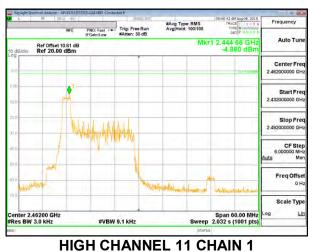






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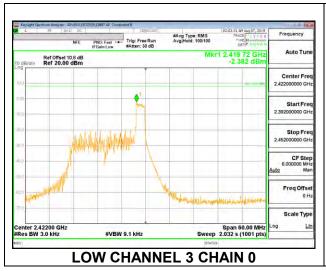


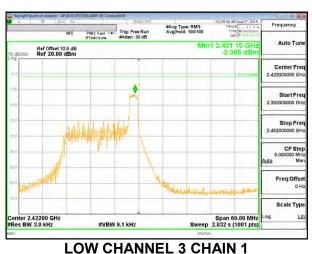
### Antenna 1 + Antenna 2 2TX MODE: 26-Tones RU Index 8

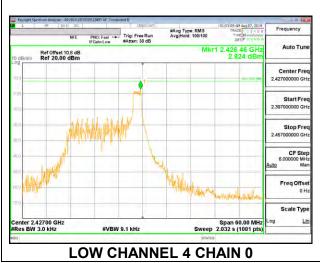
Puty Cycle CE (dP) 0.00 Included in Colculations of Court BCD			
Duty Cycle CF (dB) 0.00 Inicidded in Calculations of Corr d PSD	Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

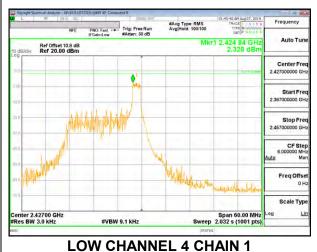
# **PSD Results**

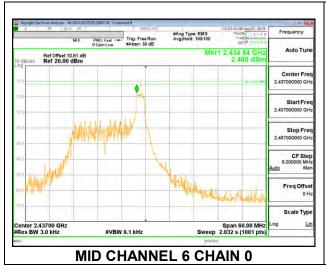
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin
		Measured	Measured	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)
Low 3	2422	-2.382	-2.385	0.63	8.0	-7.4
Low 4	2427	2.824	2.328	5.59	8.0	-2.4
Mid 6	2437	2.480	2.370	5.44	8.0	-2.6
High 8	2447	2.921	2.873	5.91	8.0	-2.1
High 9	2452	-2.227	-2.834	0.49	8.0	-7.5
High 10	2457	-3.902	-3.065	-0.45	8.0	-8.5
High 11	2462	-4.108	-4.467	-1.27	8.0	-9.3

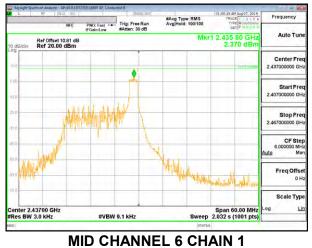


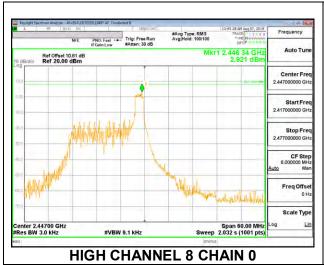


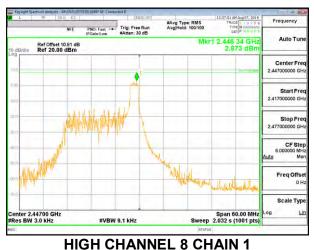


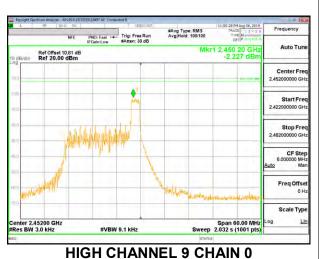


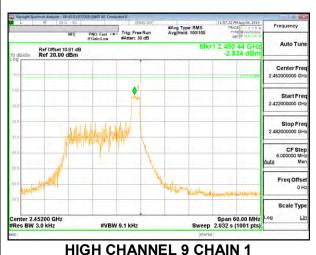


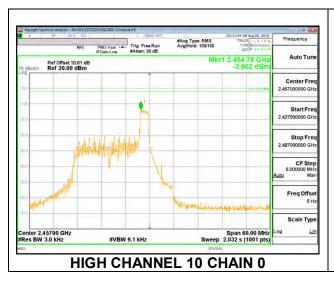


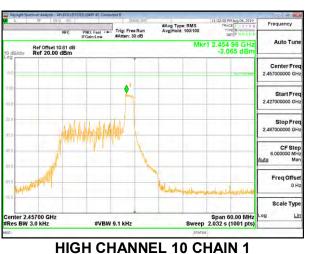


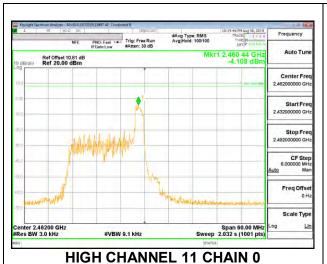










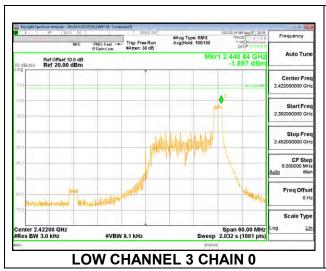


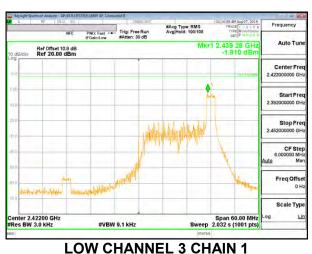


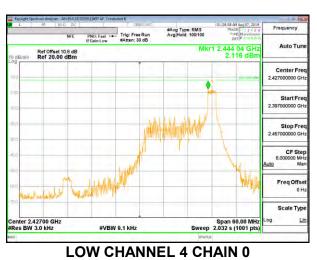
### Antenna 1 + Antenna 2 2TX MODE: 26-Tones RU Index 17

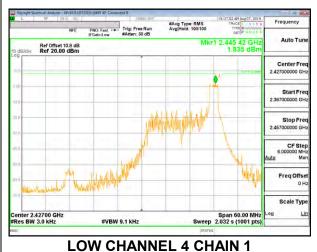
Duty C	ycle CF (dB)	0.00	Included in Calculations of Corr'd PSD							
PSD Results										
Channel	Frequency	Antenna 1	Antenna 2	Total	Limit	Margin				
		Measured	Measured	Corr'd						

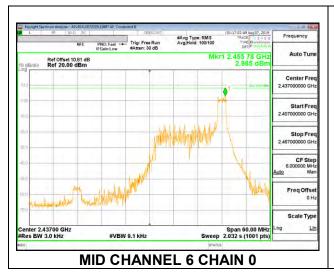
Channel	Frequency	Antenna 1	Antenna 2 Total		Limit	Margin
		Measured	Measured	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		3kHz)	3kHz)	3kHz)	3kHz)	(dB)
Low 3	2422	-1.897	-1.910	1.11	8.0	-6.9
Low 4	2427	2.116	1.835	4.99	8.0	-3.0
Mid 6	2437	2.985	3.268	6.14	8.0	-1.9
High 8	2447	2.296	2.427	5.37	8.0	-2.6
High 9	2452	-2.880	-2.655	0.24	8.0	-7.8
High 10	2457	-2.905	-3.265	-0.07	8.0	-8.1
High 11	2462	-4.522	-4.593	-1.55	8.0	-9.5

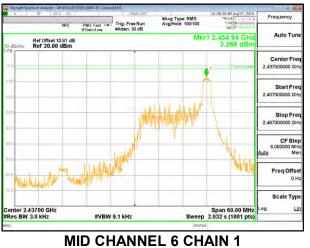




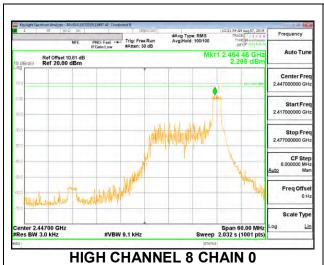


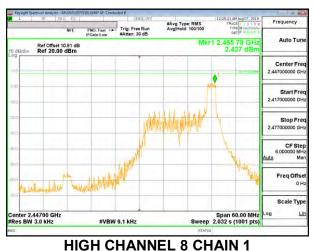


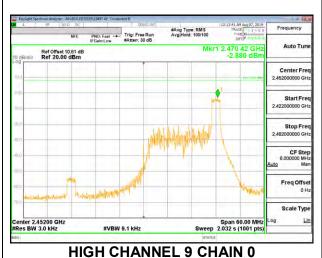


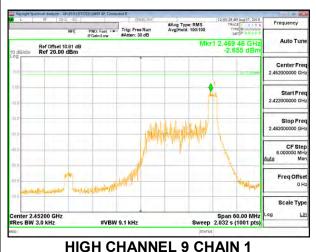


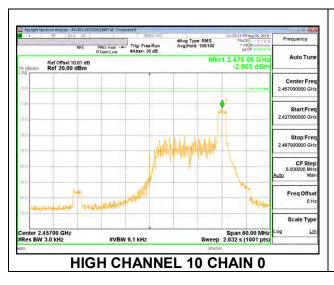
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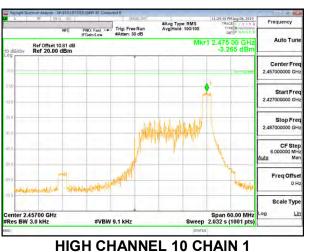




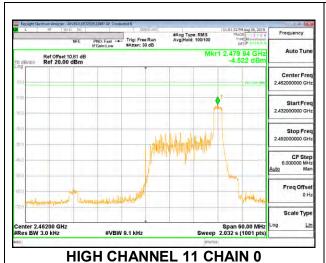


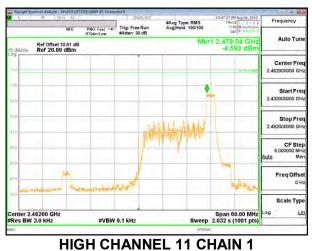






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# 8.7. CONDUCTED SPURIOUS EMISSIONS

# **LIMITS**

FCC §15.247 (d)

RSS-247 5.5

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

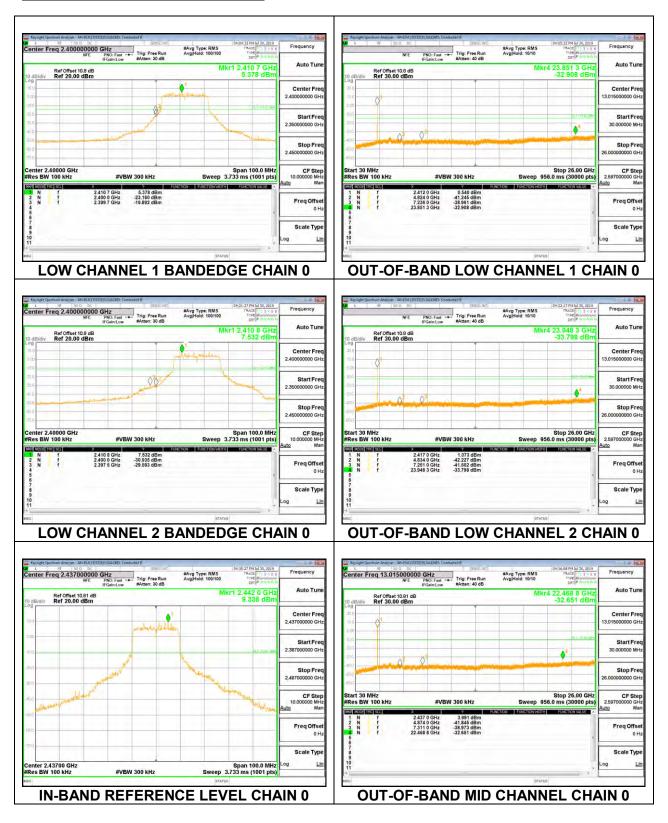
#### **PROCEDURE**

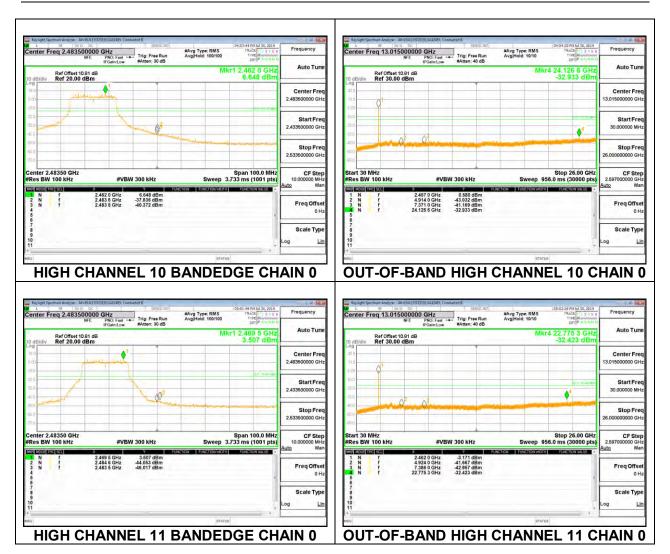
Output power was measured based on the use of peak measurement, therefore the required attenuation is 20 dB.

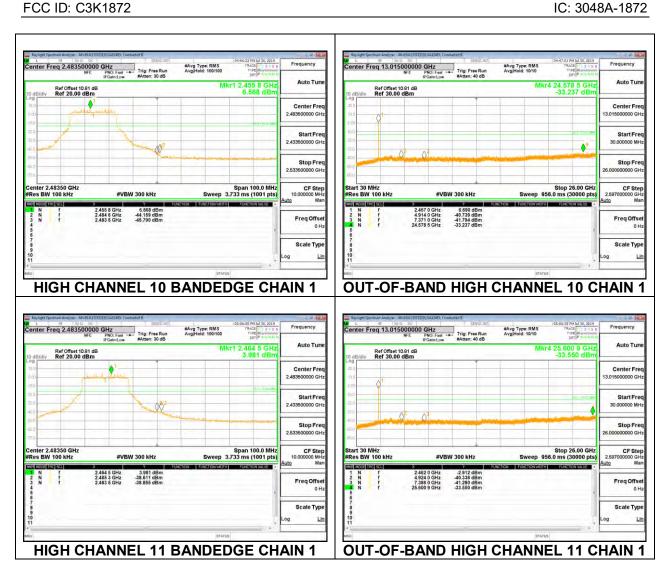
#### **RESULTS**

### 8.7.1. 802.11ax HE20 MODE 2TX

# 2TX Antenna 1 + Antenna 2 MODE SU





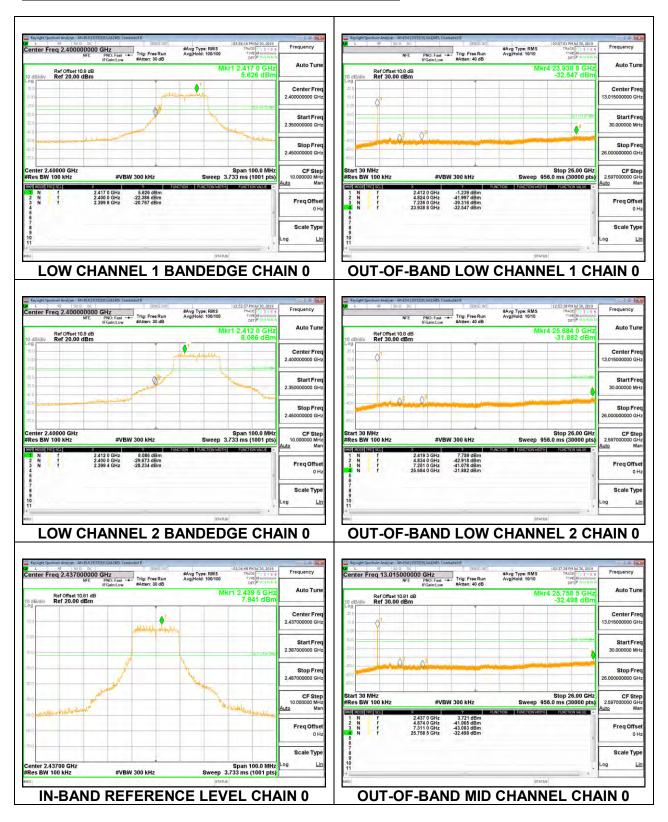


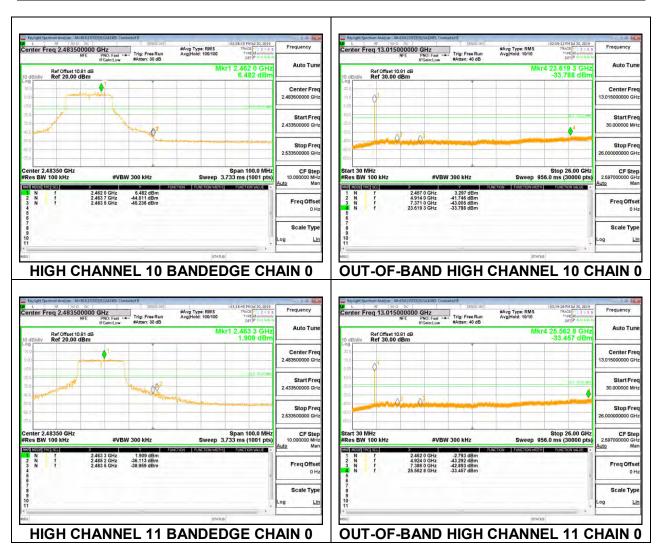
**HIGH CHANNEL 13 BANDEDGE CHAIN 1** 

**OUT-OF-BAND HIGH CHANNEL 13 CHAIN 1** 

DATE: 9/10/2019

### 2TX Antenna 1 + Antenna 2 MODE: 242-Tones, RU index 61





**HIGH CHANNEL 13 BANDEDGE CHAIN 0** 

**OUT-OF-BAND HIGH CHANNEL 13 CHAIN 0** 

DATE: 9/10/2019

