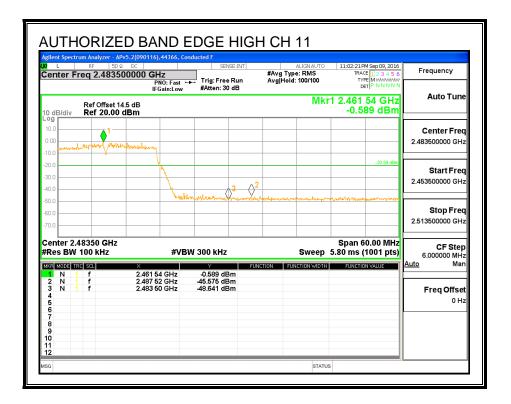
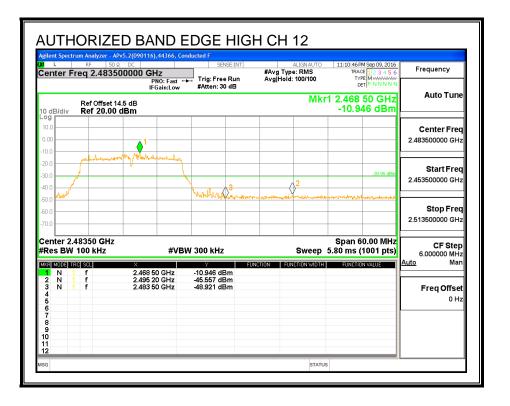
L RF	zer - APv5.2(090116),4 50 Ω DC 483500000 GHz	, ,	SENSE:INT	ALIGNAUTO #Avg Type: RMS Avg Hold: 100/100	10:53:27 PM Sep 09, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Frequency
dB/div Ref 2		in:Low #Atter	: 30 dB	Mkr	0er P NNNN 1 2.457 76 GHz 2.569 dBm	Auto Tune
	muetrules					Center Fre 2.483500000 GH
0.0 0.0 0.0		Wollmannin	3		-17.43 dBm	Start Fre 2.453500000 GH
0.0 0.0 0.0		Methinglowed according		yllingdragneety, par, Look, yllendrody		Stop Fre 2.513500000 GH
enter 2.48350 Res BW 100 kl R MODE TRC SCL	Hz ×	#VBW 300 k	FUN	Sweep	Span 60.00 MHz 5.80 ms (1001 pts) FUNCTION VALUE	<b>CF Stej</b> 6.000000 MH <u>Auto</u> Ma
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	2.457 76 2.510 92 2.483 50	GHz -45.156				Freq Offse 0 H
7 8 9 0 1 2						

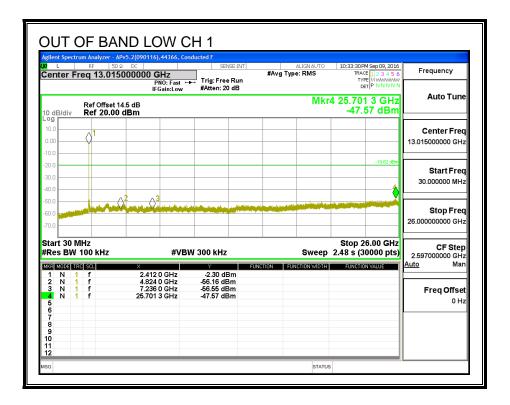


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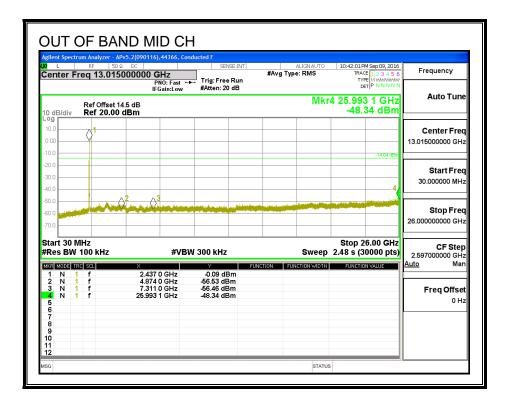


## OUT-OF-BAND EMISSIONS, Chain 1



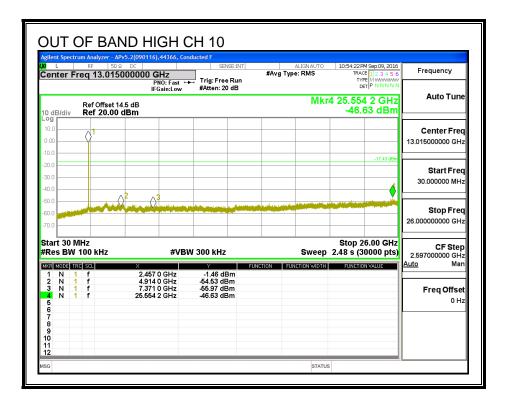
Page 602 of 928

gilent Spect		- APv5.2(090116),44	366, Cond		E:INT		ALIGN AUTO	10:38:221	PM Sep 09, 2016	_
enter F	req 13.0		Z Fast ↔ n:Low	Trig: Free #Atten: 20		#Avg T	ype: RMS	ΤΥ	CE 123456 PE MUMAAAAAA PE NNNNN	Frequency
0 dB/div		et 14.5 dB 00 dBm					Mkr		6 1 GHz 91 dBm	Auto Tune
og 10.0	.1									Center Free
0.00	- Y'									13.015000000 GH
0.0									-14.87 dBm	
0.0										Start Free
0.0										30.000000 MH
0.0	And	2 $3$	Kolossalour	ور بالالار بالألام ال	والمتحمين المحمد	lander and a				Stop Fre
0.0										26.000000000 GH
tart 30 ľ	a									
	100 kHz		#VBW	/ 300 kHz			Sweep		26.00 GHz 30000 pts)	CF Ste 2.597000000 GH
KR MODE T		× 2.417.0 G		⊺ -1.62 dBi		CTION F	UNCTION WIDTH	FUNCTI	ON VALUE	<u>Auto</u> Mar
2 N ′		4.834 0 0	Hz	-56.37 dBr -55.52 dBr	n					Freq Offse
	f	25.806 1 0		-47.91 dBr						
6										
8 9										
0										



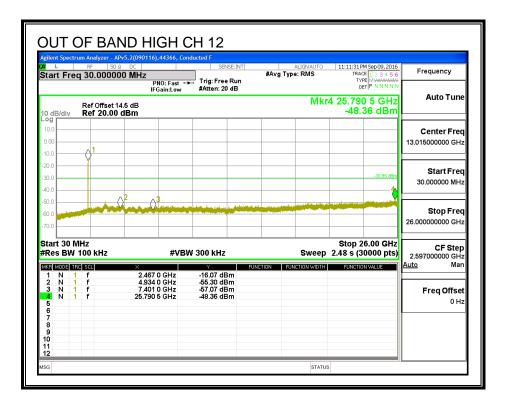
Page 603 of 928

Frequency	M Sep 09, 2016 CE 1 2 3 4 5 6			#Avg Ty	ENSE:INT			50 Ω	RF	L
	PE M WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TYP	. RMS	#Avg iy		+++ Trig: Fre #Atten: 2	0000 GHz PNO: Fast IFGain:Low	13.01500	⊦req	ter
Auto Tun	9 4 GHz 58 dBm		Mkr					Offset 14.5 20.00 df		B/div
Center Fre										
13.015000000 GH										$\vdash$
	-15.70 dBm									
Start Fre										
30.000000 MH	<u></u>									
	<b>H</b>	an a	and the second second second	and the state	and the second		3	$\sim$		<u> </u>
Stop Fre 26.00000000 GH										-
20.00000000000										
CF Ste 2.597000000 GH	26.00 GHz 30000 pts)		Sweep		z	3W 300 kHz	#VE	kHz	MHz V 100	
<u>Auto</u> Ma	ON VALUE	FUNCTIO	CTION WIDTH	CTION FL		Y 0.05 d	× 2.452.0 GHz		TRC SCL 1 f	MODE
<b>F</b> === 0ff==					Bm	-55.91 di -57.97 di	4.904 0 GHz 7.356 0 GHz		1 f 1 f	N
Freq Offse 0 H						-47.58 di	25.739 4 GHz		1 f	N



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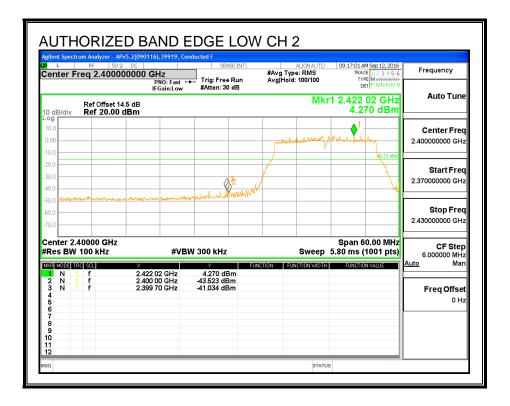
L	RF	- APv5.2(090116),44366, C	SENSE:INT	ALIGNAUTO #Avg Type: RMS	11:03:09 PM Sep 09, 2016 TRACE 1 2 3 4 5 6	Frequency
enter	Freq 13.0	15000000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 20 dB	WAVG Type, RMS	TYPE MWWWWW DET P N N N N N	
0 dB/div		et 14.5 dB 00 dBm		Mkr	4 25.555 9 GHz -47.58 dBm	Auto Tune
10.0						Center Fred
0.00	1					13.015000000 GHz
0.0					-20.00 dBm	Start Fred
0.0					4	30.000000 MH;
0.0		$\Delta^2$ $\Delta^3$	a la strata de la constitue a			
0.0						Stop Fred 26.00000000 GHz
tart 30					Stop 26.00 GHz	CF Step
	N 100 kHz	#VE	SW 300 kHz	Sweep	2.48 s (30000 pts)	2.597000000 GH: Auto Mar
1 N 2 N	1 f 1 f	2.462 0 GHz 4.924 0 GHz	-6.64 dBm -55.29 dBm	Tonenon wern	TOTETOT VALUE	
3 N 4 N	1 f 1 f	7.386 0 GHz 25.555 9 GHz	-57.68 dBm -47.58 dBm			Freq Offset
5 6 7						
8 9						
0						



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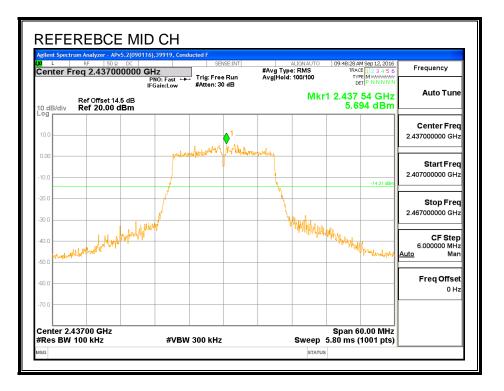
## LOW CHANNEL BANDEDGE, Chain 2

RF 50 Ω DC er Freq 2.4000000	00 GHz PNO: Fast +	SENSE:INT	ALIGNAUTO #Avg Type: RMS Avg Hold: 100/100	09:11:50 AM Sep 12, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P. N.N.N.N.	Frequency
Ref Offset 14.5 dl		#Atten: 30 dB	Mki	r1 2.419 50 GHz -0.897 dBm	Auto Tune
		hy la	helphanklowk pltronked	1 	Center Free 2.400000000 GH:
		37		-20.90 dBm	Start Free 2.370000000 GH:
	hily in a second se				Stop Fred 2.430000000 GH;
	×		Sweep	Span 60.00 MHz 5.80 ms (1001 pts) FUNGTONIVALUE	CF Step 6.000000 MH Auto Mar
1 f	2.419 50 GHz 2.400 00 GHz 2.399 16 GHz	-0.897 dBm -45.255 dBm -40.909 dBm			Freq Offse 0 H:

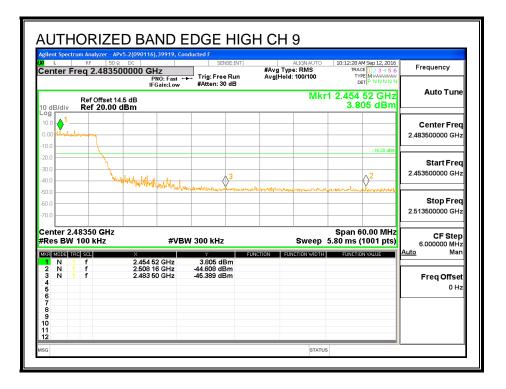


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#### MID CHANNEL REFERENCE, Chain 2

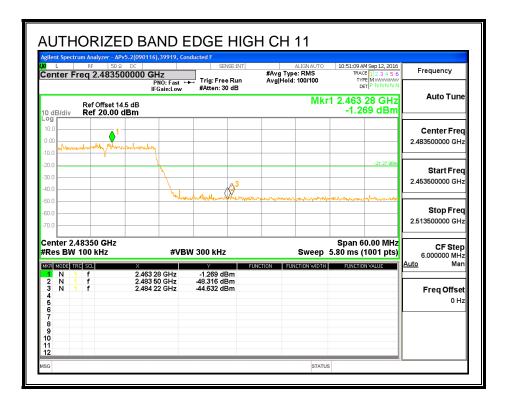


#### HIGH CHANNEL BANDEDGE, Chain 2

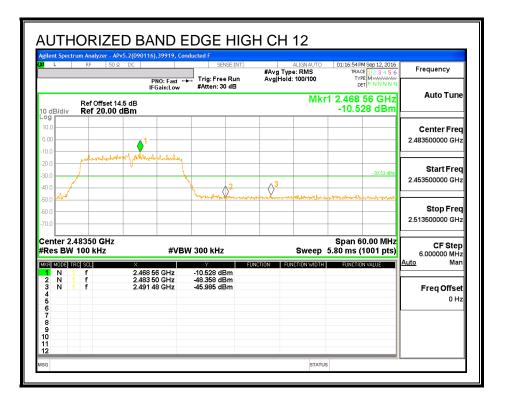


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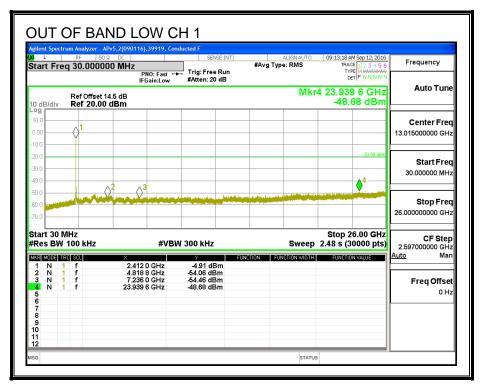
enter Fr	RF 50 Ω Teq 2.48350	PNO	:Fast 🛏	Trig: Free		#Avg Typ Avg Hold		TRAC	M Sep 12, 2016 E 1 2 3 4 5 6 E M M N N N N T P N N N N N	Frequency
dB/div	Ref Offset 14 Ref 20.00 (	.5 dB	n:Low	#Atten: 30	dB		Mkr	1 2.454		Auto Tune
	Hit Marshamethe									Center Freq 2.483500000 GHz
).0 <b>V</b> ).0									-18.00 dBm	
).0 ).0					<mark>3∆2</mark>					Start Freq 2.453500000 GHz
).0		- Mil	mithough	marthan ar har	mour	warmer and	under morales.	Herstoniewa	montecter	
).0 ).0										<b>Stop Fred</b> 2.513500000 GHz
	8350 GHz 100 kHz		#VBW	300 kHz			Sweep		0.00 MHz 1001 pts)	CF Step 6.000000 MHz
r Mode Tr 1 N 1 2 N 1 3 N 1	f f f	× 2.454 04 ( 2.485 42 ( 2.483 50 (	GHz	2.004 dB -45.317 dB -46.564 dB	m m	NCTION FUN	ICTION WIDTH	FUNCTIO	N VALUE	Auto Mar Freg Offsel
4 5 5										0 Hz
7 3										
ə D 1										



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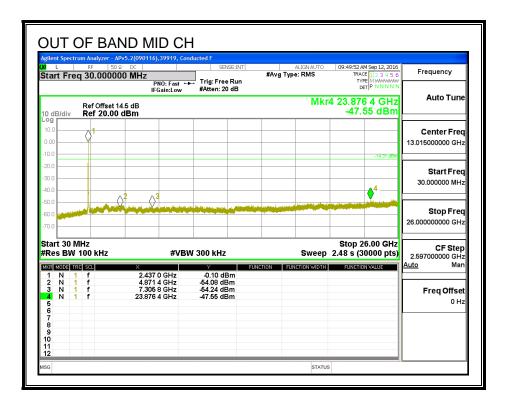


## **OUT-OF-BAND EMISSIONS, Chain 2**



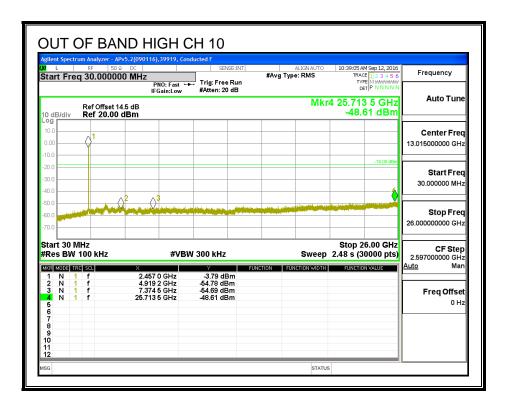
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U L		Pv5.2(090116),399 Ω DC DO MH→		SENSI	EINT	#Avg Type	ALIGNAUTO		M Sep 12, 2016	Frequency
	1 30.00000			Trig: Free F #Atten: 20 d				TY		
0 dB/div	Ref Offset 1 Ref 20.00						Mkr		9 8 GHz 21 dBm	Auto Tune
.og 10.0	A1									Center Free
0.00	<u> </u>									13.015000000 GH
10.0									-15.73 dBm	
20.0										Start Free
10.0	_							4 -		30.000000 MH
50.0		$\gamma = 0$	and a state of the second	i dutit, a bu	destablished on the	a dhear ta ail an Nac				04 E
50.0 <b></b>		alle data da succho de combo			. Attended to the second se	a line a successivities				Stop Free 26.000000000 GH
70.0										
tart 30 N Res BW		:	#VBW 3	00 kHz			Sweep		26.00 GHz 20000 pts)	CF Step 2.597000000 GH
KR MODE TR	C SCL	× 2.417.0 GH		Y -0.12 dBr	FUNCT	ION FUN	CTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Ma
2 N 1 3 N 1	f	4.840 1 GH 7.254 5 GH	iz -	54.56 dBn 53.26 dBn	1					
4 N 1 5		22.359 8 GH		49.21 dBn						Freq Offse
6 7										
8										
IÕ										



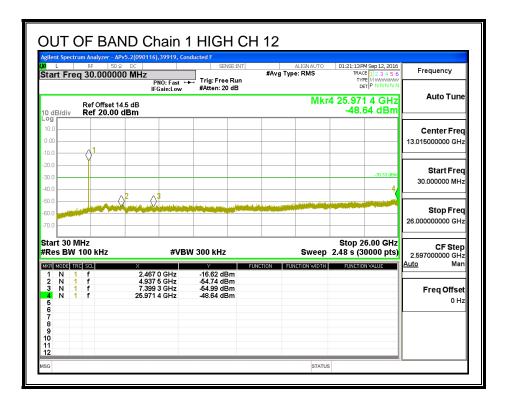
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tart Fre	RF 50Ω		SENSE:INT	ALIGNAUTO #Avg Type: RMS	10:19:02 AM Sep 12, 2016 TRACE 1 2 3 4 5 6	Frequency
	-	PNO: Fast ← IFGain:Low	Trig: Free Run #Atten: 20 dB		DET P N N N N N	
0 dB/div	Ref Offset 14.5 Ref 20.00 df			Mki	4 25.903 0 GHz -48.59 dBm	Auto Tune
og 10.0						Center Fred
).00	<u> </u>					13.015000000 GH
0.0					-16.20 dBm	1
0.0						Start Free
0.0					4	30.000000 MH:
io.o			al and have been also and the second state			Otop Eror
0.0						Stop Fred 26.000000000 GH:
tart 30 Res BW	MHz / 100 kHz	#VB	N 300 kHz	Sweep	Stop 26.00 GHz 2.48 s (30000 pts)	CF Step 2.597000000 GH
KR MODE	TRC SCL	X	Y F	UNCTION FUNCTION WIDTH		Auto Mar
2 N	1 f 1 f	2.452 0 GHz 4.910 1 GHz	-0.28 dBm -54.57 dBm			
4 N	1 f 1 f	7.393 6 GHz 25.903 0 GHz	-52.82 dBm -48.59 dBm			Freq Offset
5 6 7						
8						
0						



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tart Fro		50 Ω DC DOOO MHz	PNO: Fast +	SENSE		#Avg Typ	ALIGN AUTO e: RMS	TRA T)	M Sep 12, 2016 CE 1 2 3 4 5 6 PE M MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Frequency
) dB/div		et 14.5 dB 00 dBm	IFGain:Low	#Atten: 20 d	B		Mkr	4 25.73	erPNNNNN 4 2 GHz 12 dBm	Auto Tune
	1									Center Fred 13.015000000 GHz
0.0									-21.27 dBm	Start Free 30.000000 MHz
0.0 0.0 0.0		2 								<b>Stop Fred</b> 26.000000000 GH2
tart 30 Res BW	/ 100 kHz	*	#VB	W 300 kHz	FUNCT		Sweep	2.48 s (3	26.00 GHz 30000 pts)	<b>CF Step</b> 2.597000000 GH; Auto Mar
1 N 2 N 3 N	1 f 1 f 1 f 1 f 1 f	2.46 4.93 7.38	52 0 GHz 38 7 GHz 36 9 GHz 34 2 GHz	-6.97 dBn -54.94 dBn -56.54 dBn -48.12 dBn	ו ו ו			PUNCTI		Freq Offse
9 0 1 2										



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# 8.25. 802.11n HT20 3Tx BEAM FORMING MODE IN THE 2.4 GHz BAND

# 8.25.1. 6 dB BANDWIDTH

## **LIMITS**

FCC §15.247 (a) (2)

IC RSS-247 (5.2) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

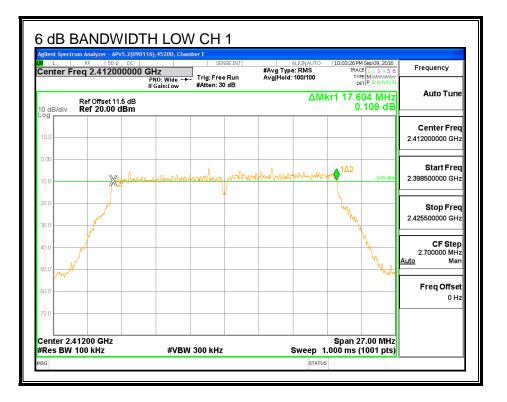
#### **RESULTS**

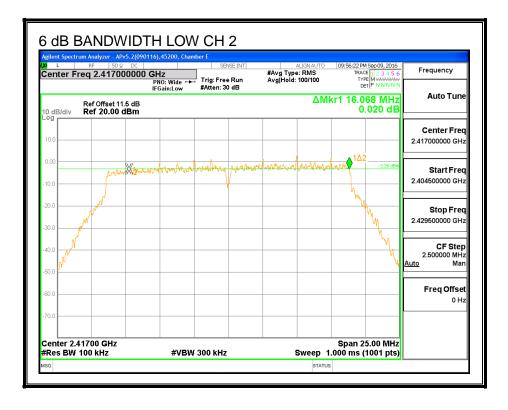
Channel	Frequency	6 dB BW	6 dB BW	6 dB BW	Minimum
		Chain 0	Chain 1	Chain 2	Limit
	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
Low_1	2412	17.604	17.604	17.604	0.5
Low_2	2417	16.068	16.952	16.604	0.5
Low_3	2422	17.604	17.631	17.631	0.5
Mid_6	2437	17.604	17.631	17.631	0.5
High_8	2447	17.631	17.658	17.577	0.5
High_9	2452	17.577	17.631	17.577	0.5
High_10	2457	17.631	17.631	17.577	0.5
High_11	2462	17.685	17.631	17.604	0.5
High_12	2467	17.577	17.604	17.631	0.5

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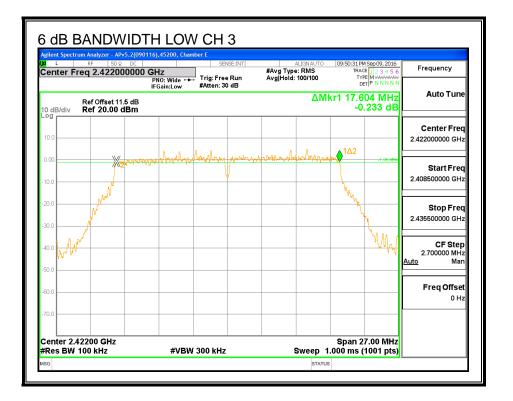
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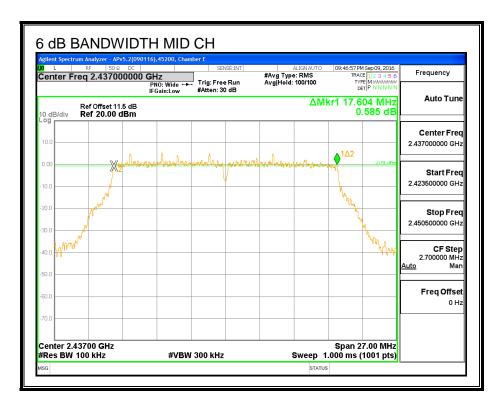
#### 6 dB BANDWIDTH, Chain 0



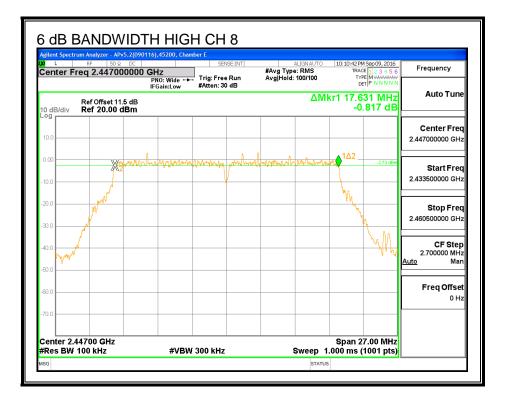


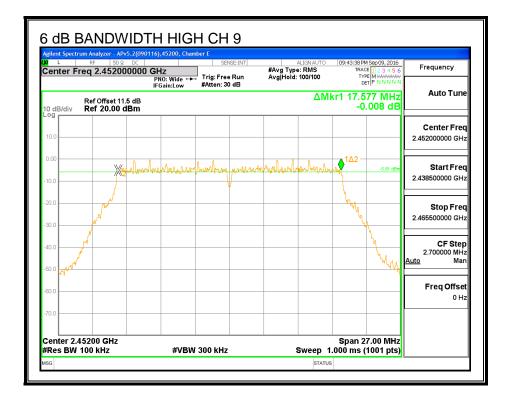
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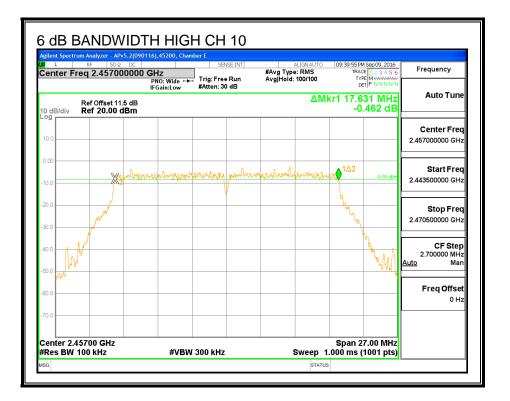


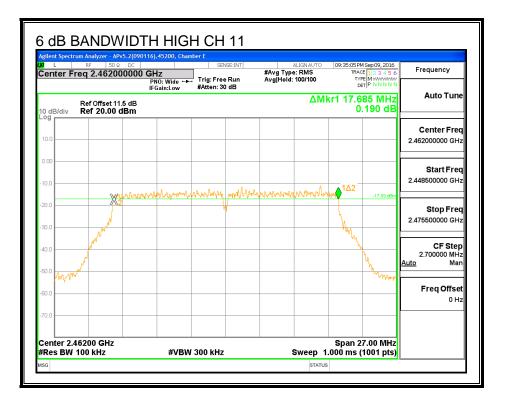
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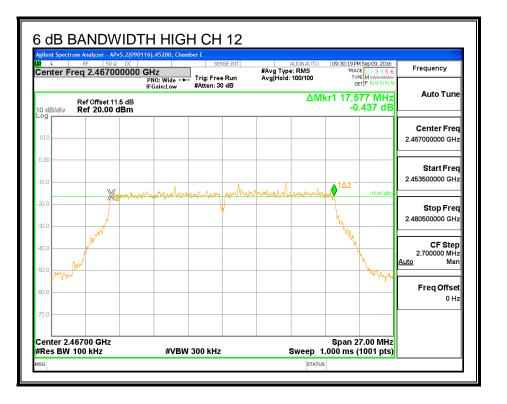


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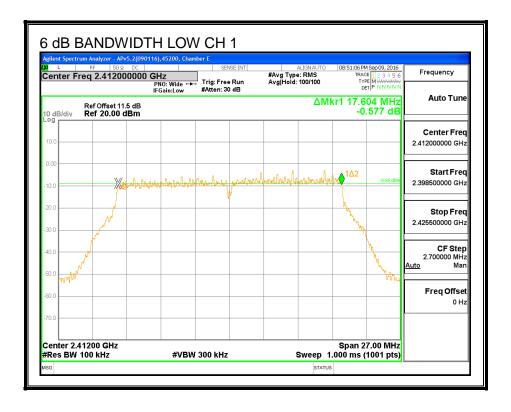




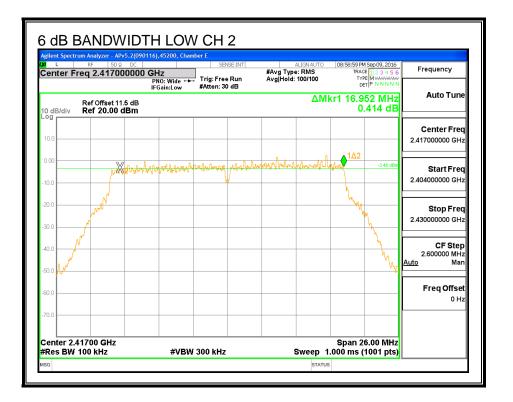
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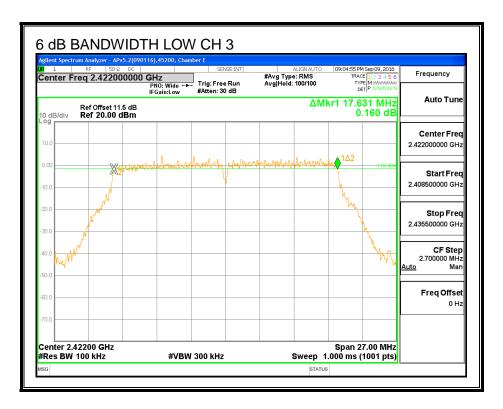


## 6 dB BANDWIDTH, Chain 1

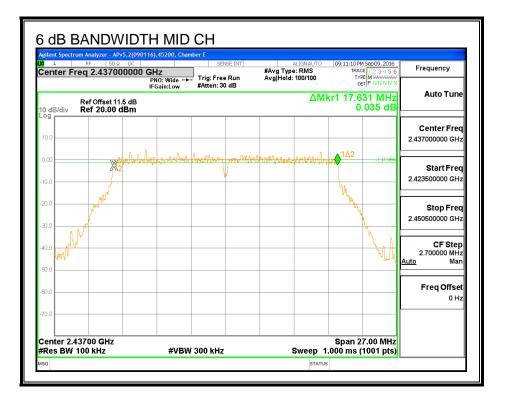


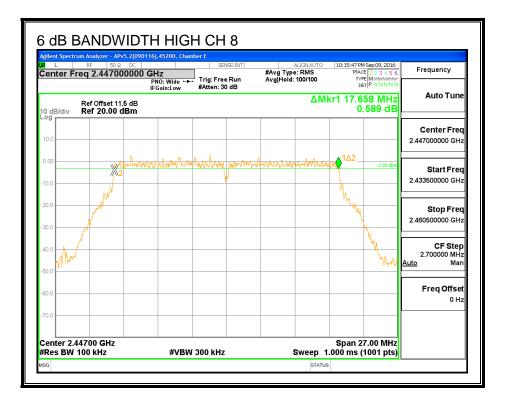
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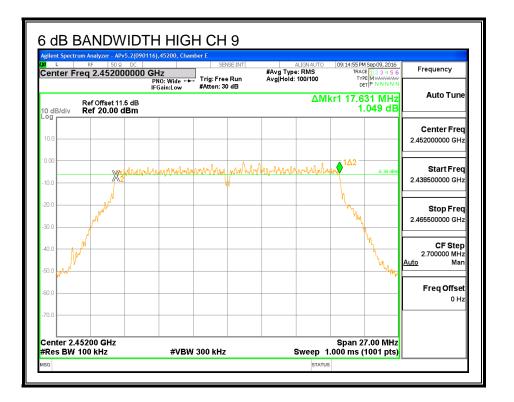


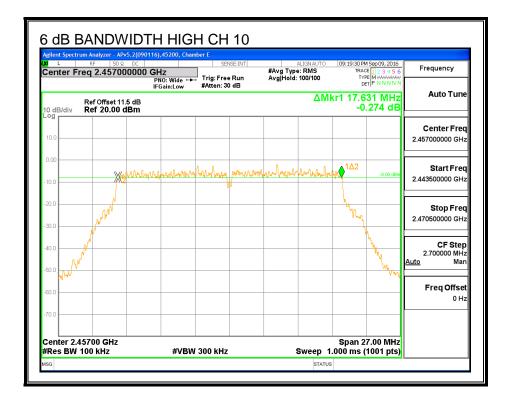
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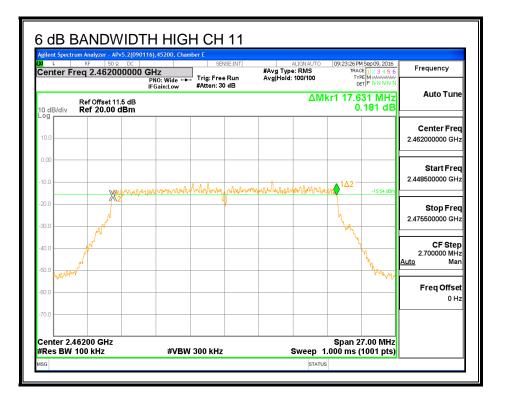


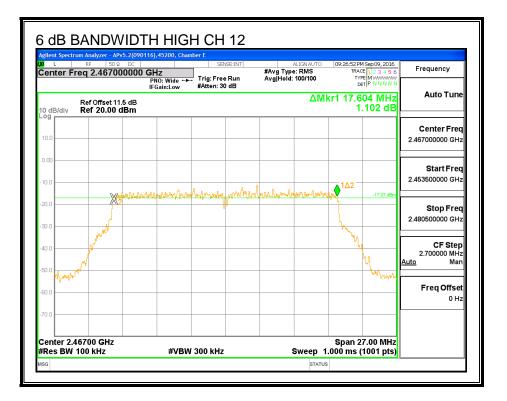
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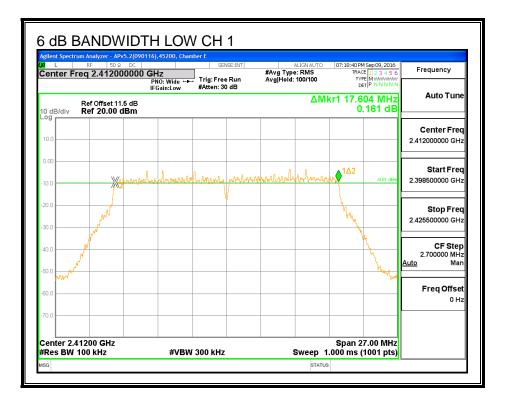
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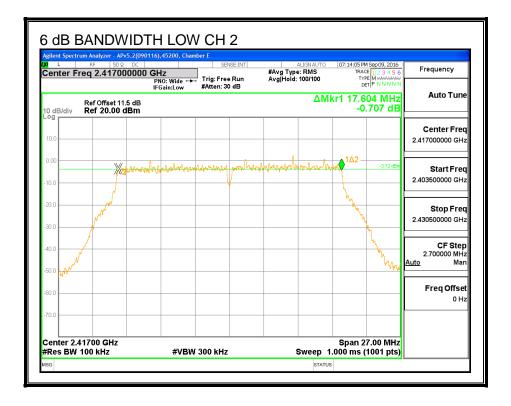




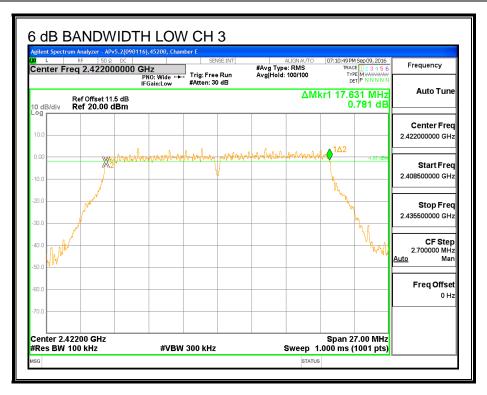
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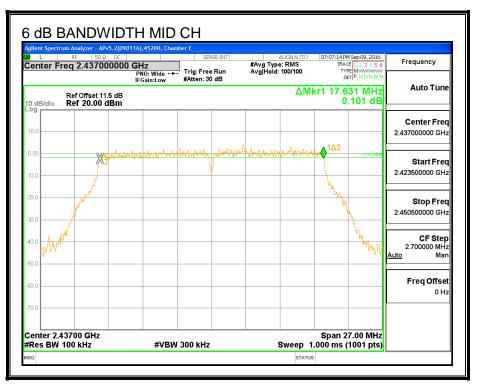
## 6 dB BANDWIDTH, Chain 2





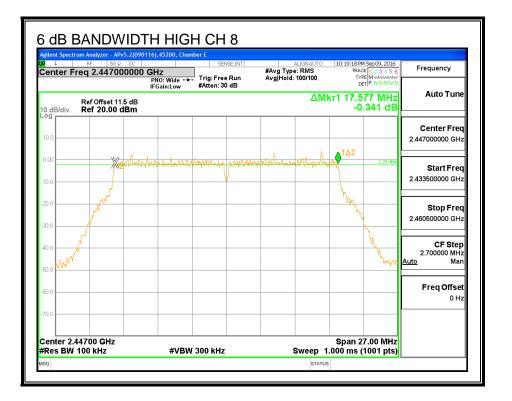
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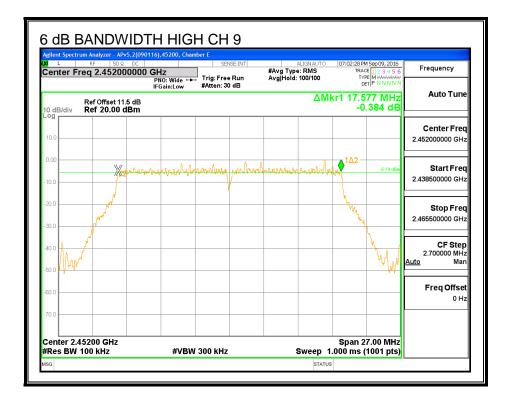




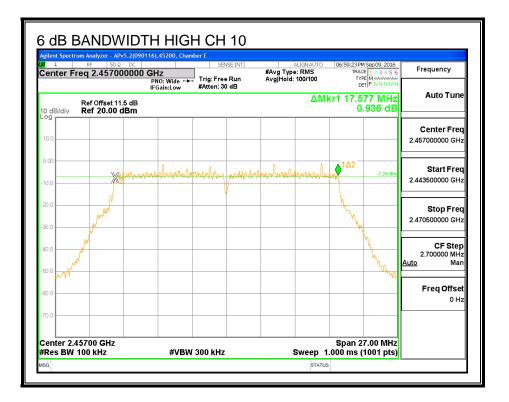
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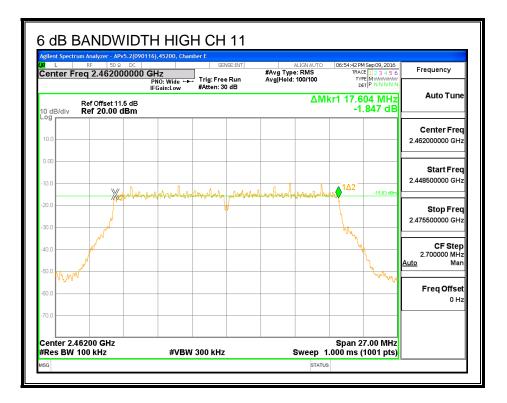
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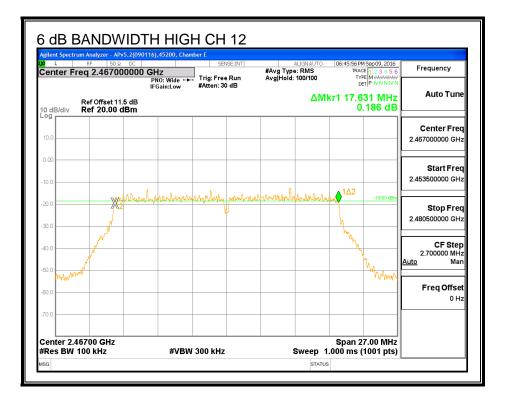


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## 8.25.2. 99% BANDWIDTH

## **LIMITS**

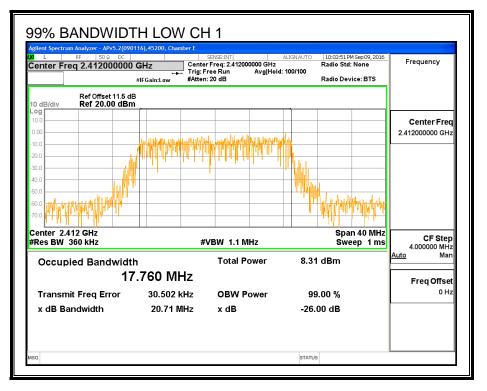
None; for reporting purposes only.

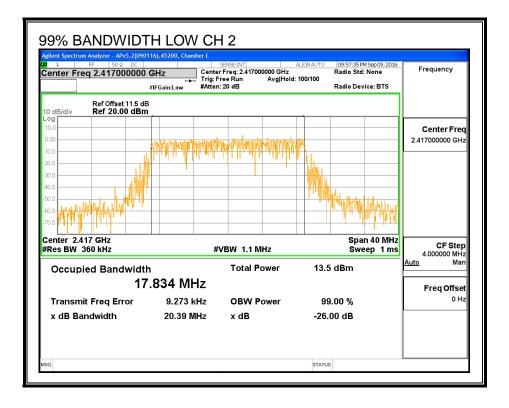
#### **RESULTS**

Channel	Frequency	99% BW	99% BW	99% BW
		Chain 0	Chain 1	Chain 2
	(MHz)	(MHz)	(MHz)	(MHz)
Low_1	2412	17.760	17.734	17.800
Low_2	2417	17.834	17.815	17.747
Low_3	2422	17.819	17.696	17.916
Mid_6	2437	17.753	17.809	17.758
High_8	2447	17.821	17.701	17.786
High_9	2452	17.862	17.788	17.867
High_10	2457	17.793	17.678	17.703
High_11	2462	17.891	17.797	17.871
High_12	2467	17.750	17.784	17.724

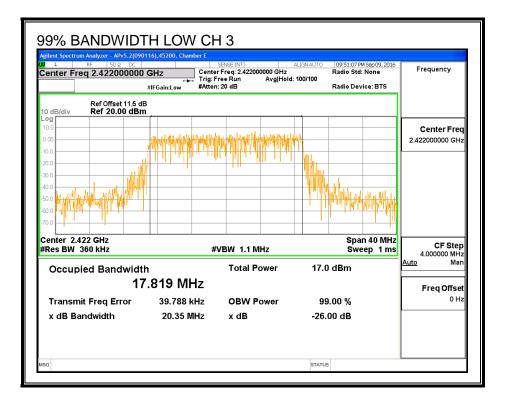
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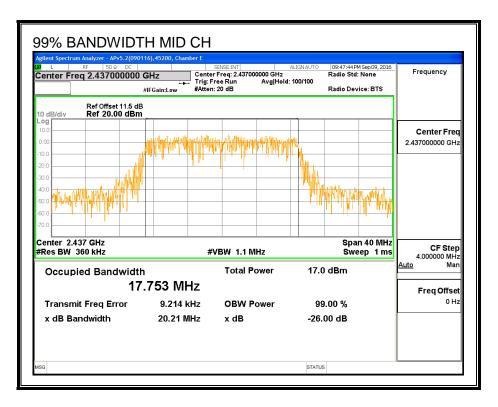
#### 99% BANDWIDTH, Chain 0



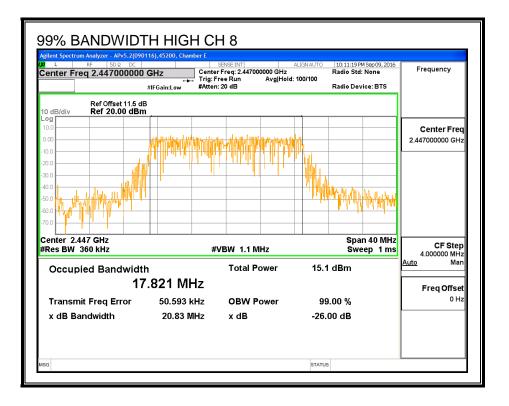


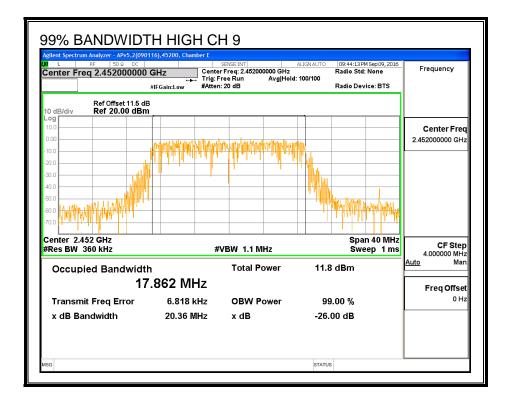
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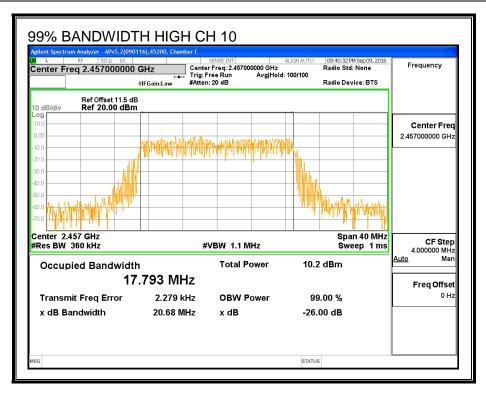


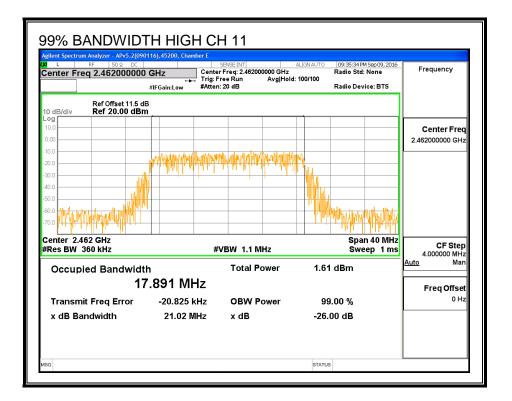
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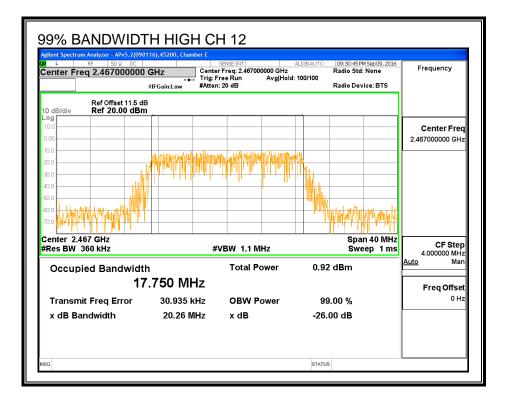


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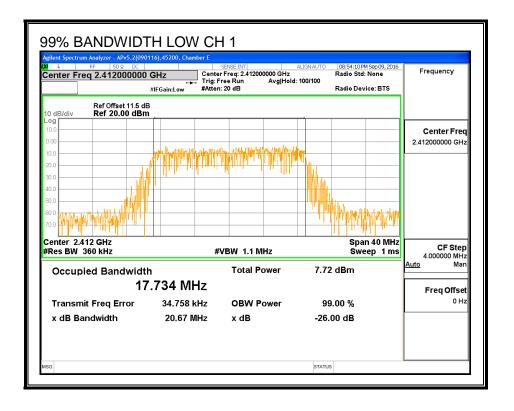




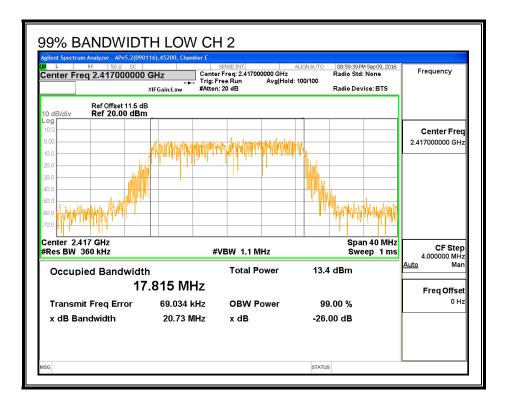
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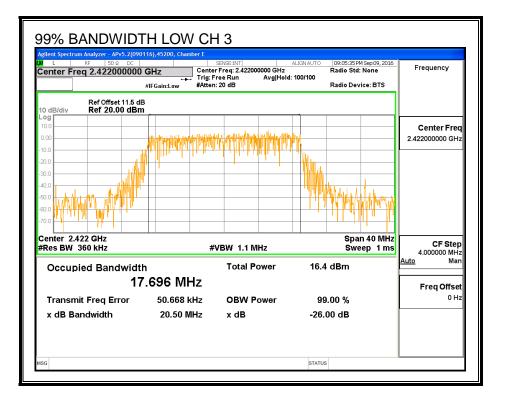


## 99% BANDWIDTH, Chain 1

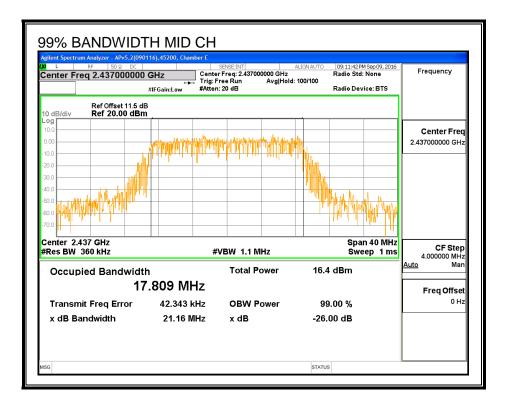


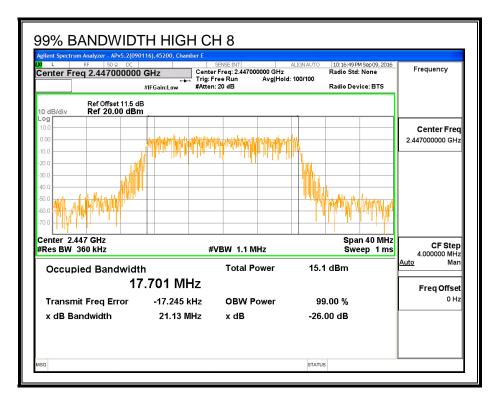
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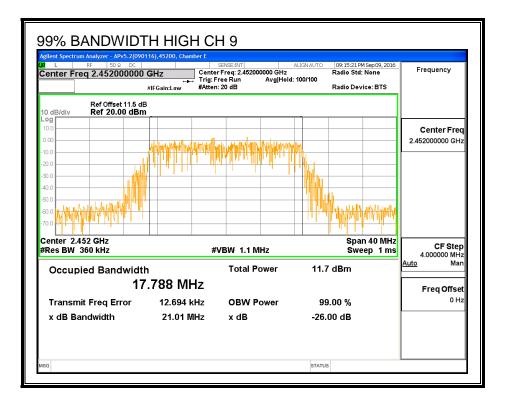
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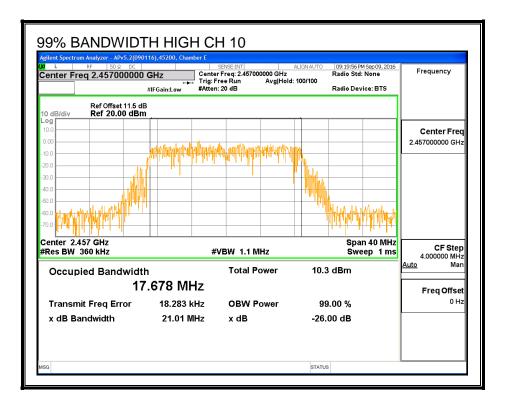




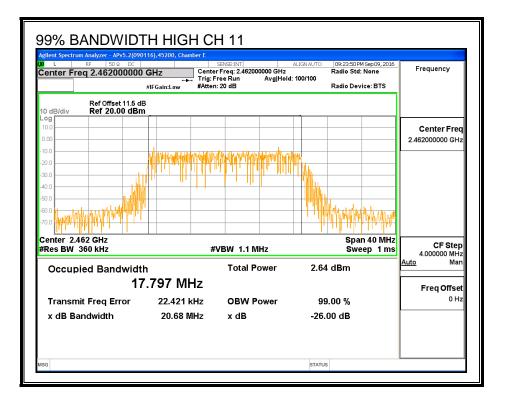
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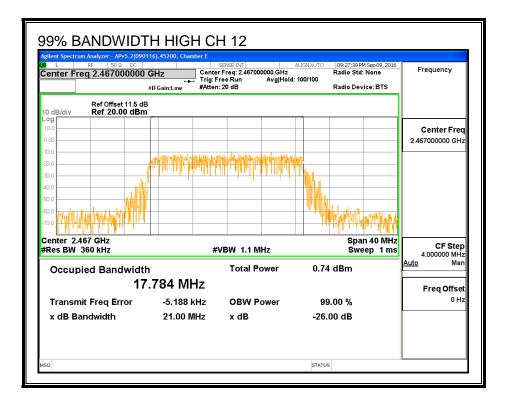
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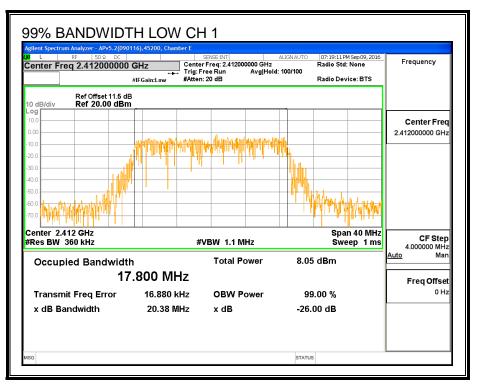
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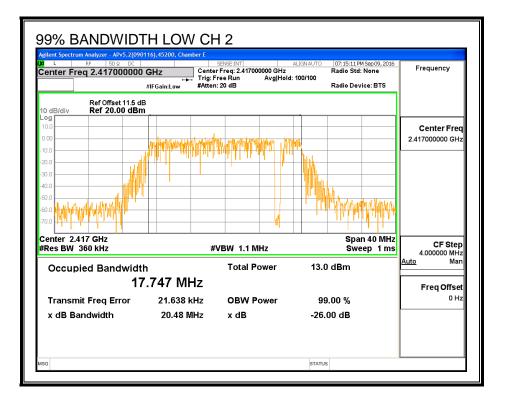




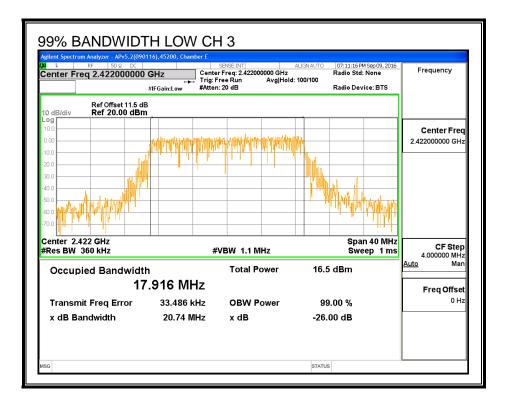
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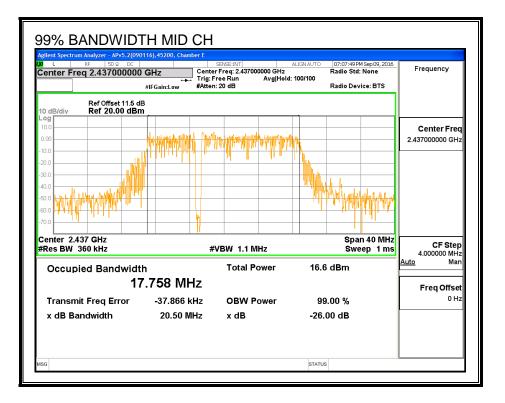
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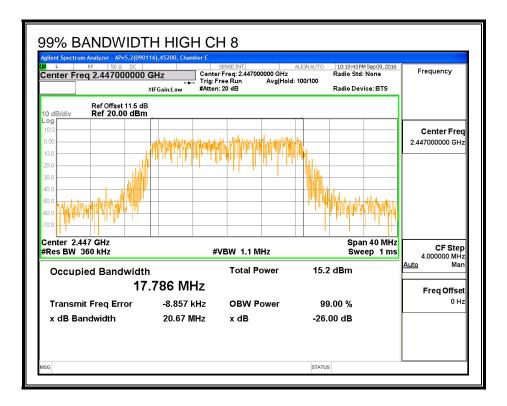


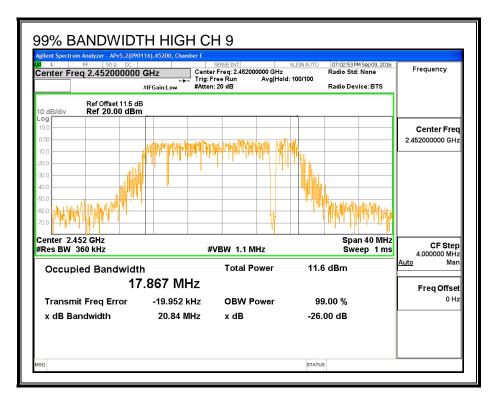
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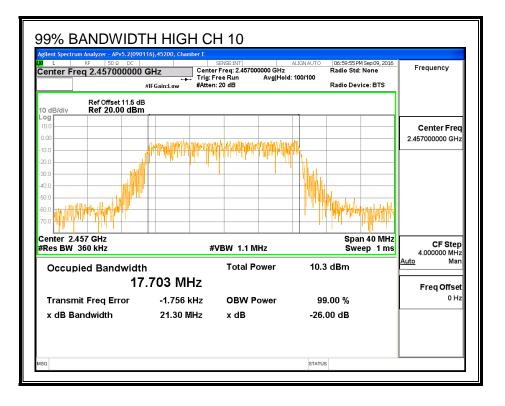


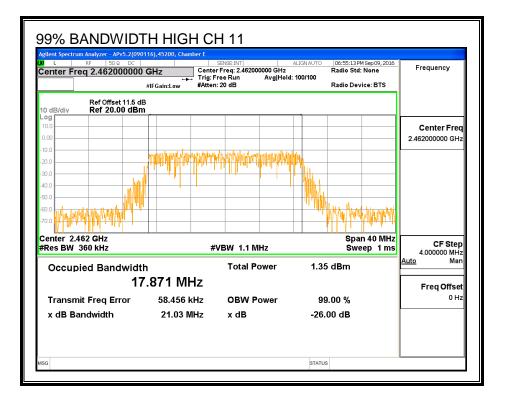
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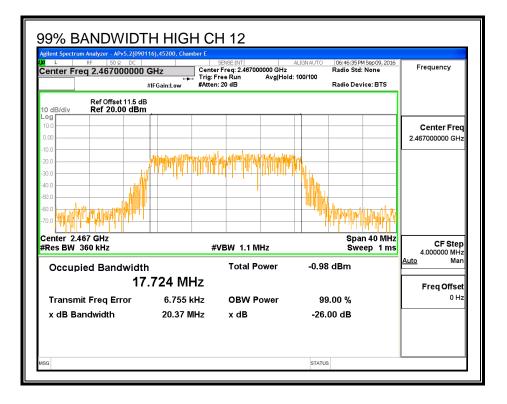
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# 8.25.3. AVERAGE POWER

## **LIMITS**

None; for reporting purposes only.

## **RESULTS**

Channel	Frequency	Chain 0	Chain 1	Chain 2	Total
		Power	Power	Power	Power
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	7.99	7.77	7.87	12.65
Low_2	2417	13.49	13.40	13.42	18.21
Low_3	2422	16.45	16.27	16.45	21.16
Mid_6	2437	16.49	16.38	16.46	21.21
High_8	2447	14.98	14.87	14.90	19.69
High_9	2452	11.49	11.44	11.38	16.21
High_10	2457	10.00	10.00	9.79	14.70
High_11	2462	1.45	1.48	1.40	6.21
High_12	2467	-1.01	-1.01	-1.23	3.69

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# 8.25.4. OUTPUT POWER

## LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## **DIRECTIONAL ANTENNA GAIN**

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0	Chain 1	Chain 2	<b>Correlated Chains</b>
Antenna	Antenna	Antenna	Directional
Gain	Gain	Gain	Gain
(dBi)	(dBi)	(dBi)	(dBi)
2.1	3.3	2.1	7.3

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## **RESULTS**

#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	7.29	28.71	30	36	28.71
Low_2	2417	7.29	28.71	30	36	28.71
Low_3	2422	7.29	28.71	30	36	28.71
Mid_6	2437	7.29	28.71	30	36	28.71
High_8	2447	7.29	28.71	30	36	28.71
High_9	2452	7.29	28.71	30	36	28.71
High_10	2457	7.29	28.71	30	36	28.71
High_11	2462	7.29	28.71	30	36	28.71
High_12	2467	7.29	28.71	30	36	28.71

Duty Cycle CF (dB)

0.00 Includ

Included in Calculations of Corr'd Power

### Results

Channel	Frequency	Chain 0	Chain 1	Chain 2	Total	Power	Margin
		Meas	Meas	Meas	Corr'd	Limit	
		Power	Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	11.09	11.10	10.99	15.83	28.71	-12.88
Low_2	2417	16.18	16.83	16.45	21.27	28.71	-7.44
Low_3	2422	19.12	19.81	19.57	24.28	28.71	-4.43
Mid_6	2437	19.47	19.93	19.62	24.45	28.71	-4.26
High_8	2447	18.72	18.43	18.12	23.20	28.71	-5.51
High_9	2452	15.29	15.29	14.84	19.92	28.71	-8.79
High_10	2457	13.74	13.24	13.53	18.28	28.71	-10.43
High_11	2462	4.66	4.81	4.61	9.47	28.71	-19.24
High_12	2467	2.46	2.30	2.21	7.10	28.71	-21.61

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# 8.25.5. POWER SPECTRAL DENSITY

### **LIMITS**

FCC §15.247

IC RSS-247 (5.2) (2)

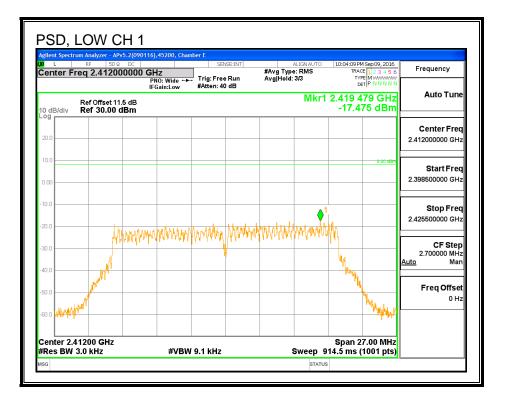
For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

### RESULTS

PSD Results							
Channel	Frequency	Chain 0	Chain 1	Chain 2	Total	Limit	Margin
		Meas	Meas	Meas	Corr'd		
	(MHz)	(dBm)	(dBm)	(dBm)	PSD		
					(dBm)	(dBm)	(dB)
Low_1	2412	-17.75	-17.50	-18.03	-12.98	8.0	-21.0
Low_2	2417	-12.69	-12.68	-13.03	-8.03	8.0	-16.0
Low_3	2422	-9.23	-9.92	-9.85	-4.88	8.0	-12.9
Mid_6	2437	-8.71	-9.57	-9.33	-4.42	8.0	-12.4
High_8	2447	-10.65	-11.60	-10.82	-6.23	8.0	-14.2
High_9	2452	-14.66	-14.56	-14.46	-9.79	8.0	-17.8
High_10	2457	-15.81	-16.43	-16.23	-11.38	8.0	-19.4
High_11	2462	-23.38	-23.42	-24.79	-19.05	8.0	-27.0
High_12	2467	-24.74	-27.18	-26.40	-21.21	8.0	-29.2

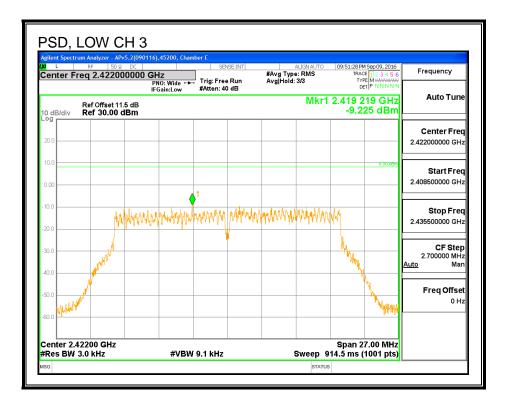
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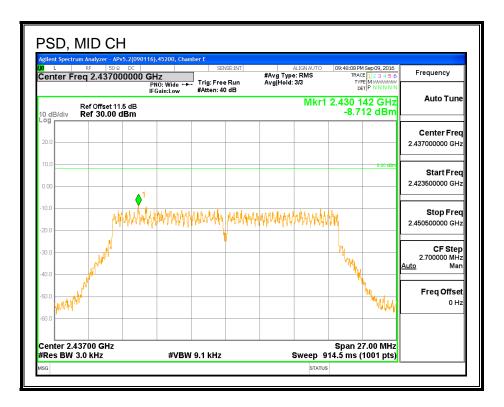
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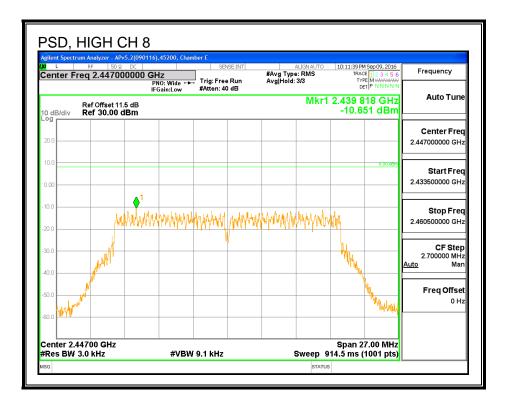


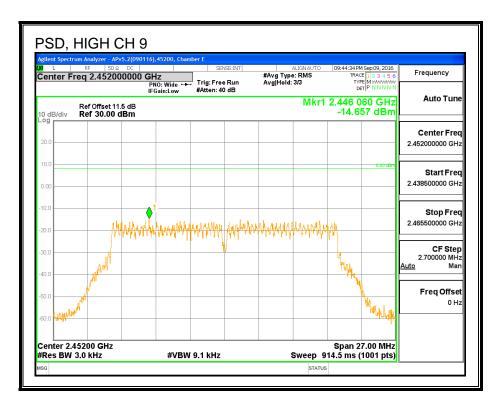
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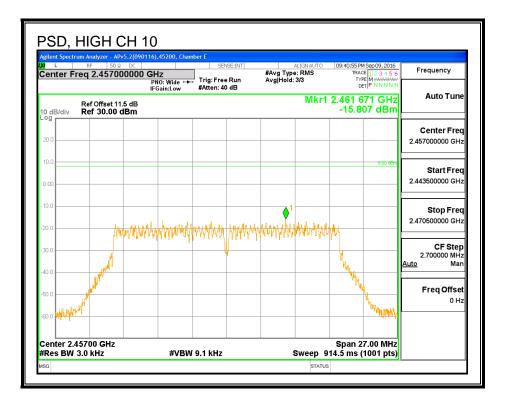


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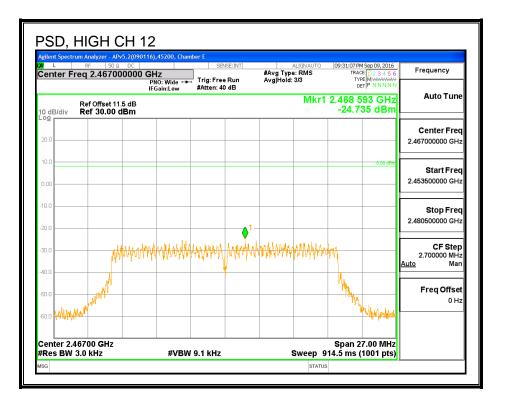


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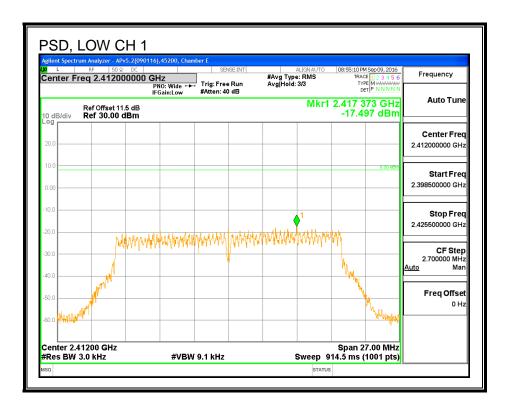




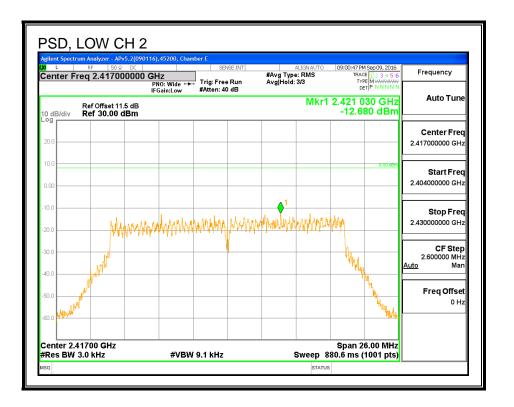
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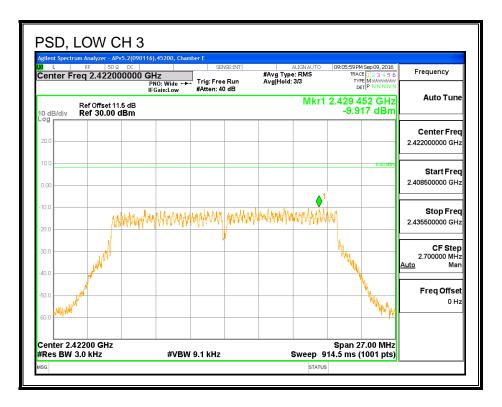


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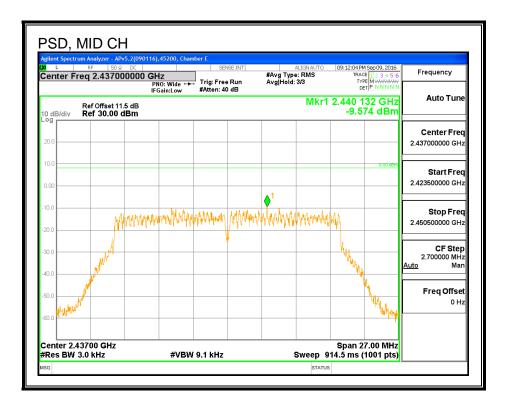


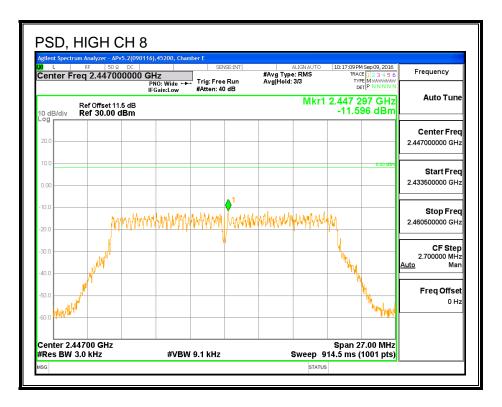
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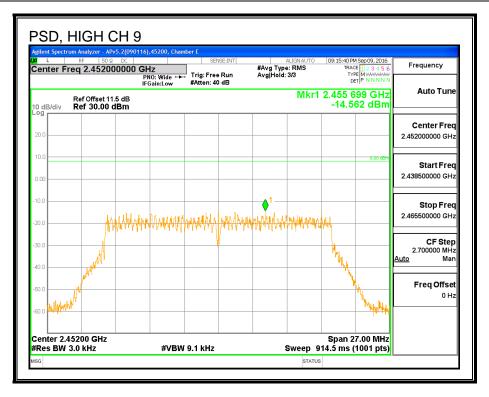


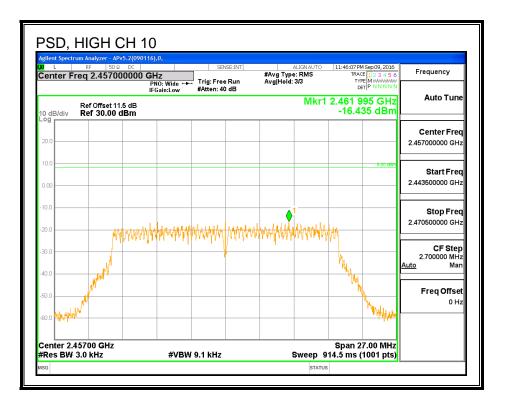
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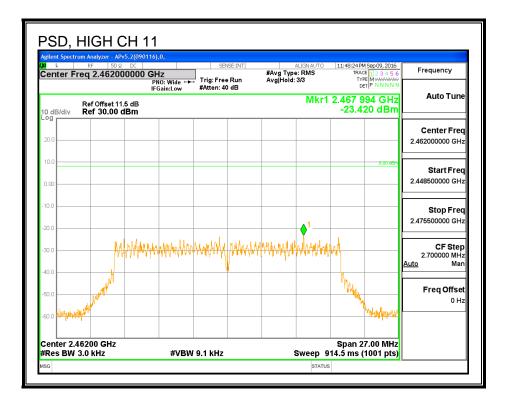


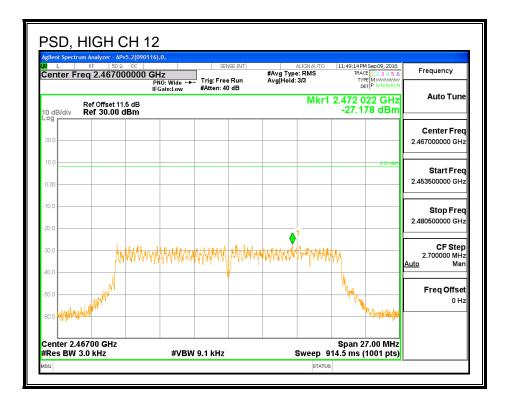
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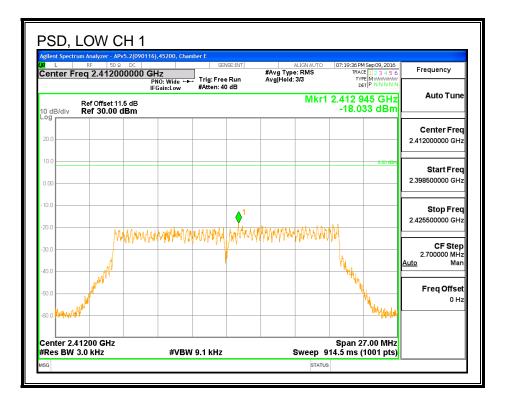
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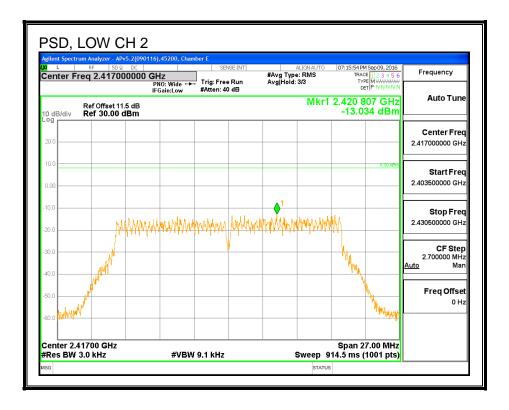




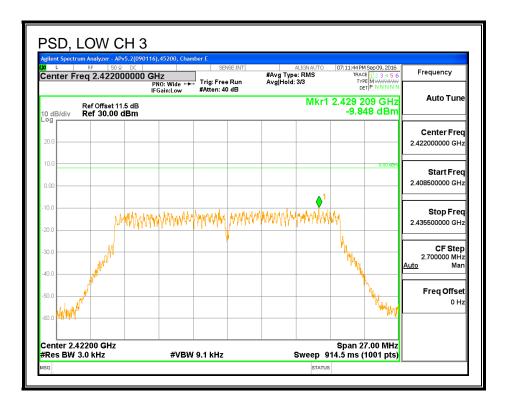
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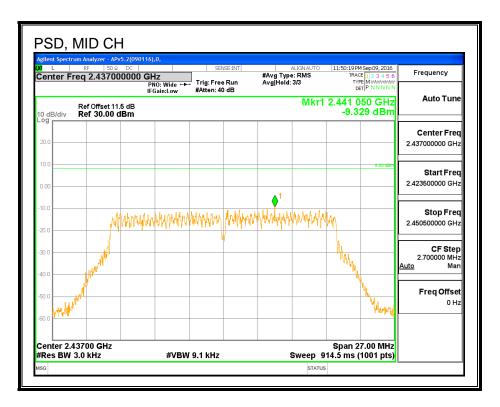
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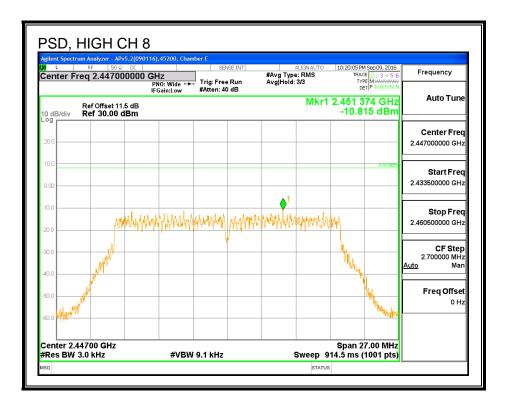


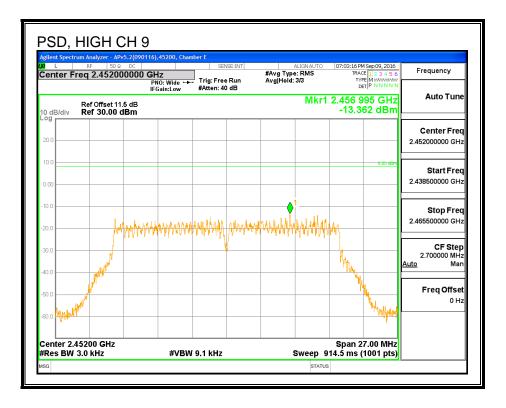
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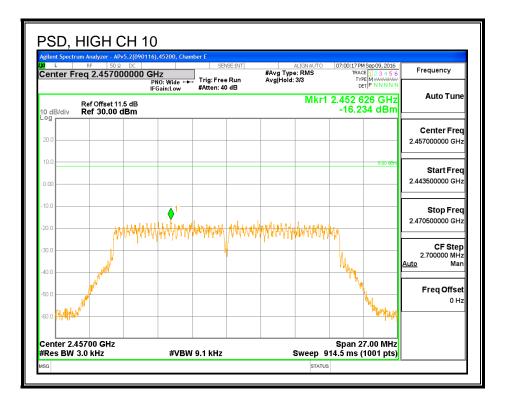


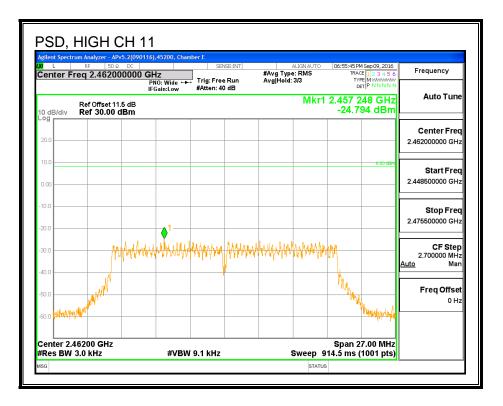
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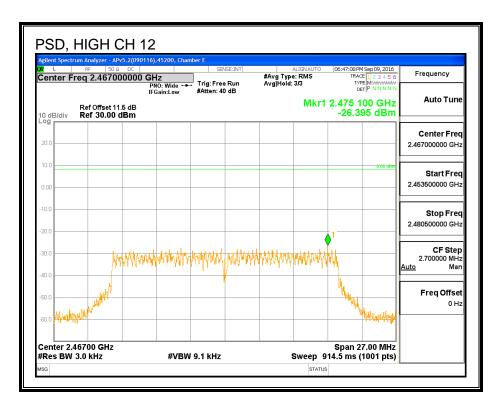


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