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Test Graph



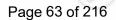












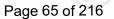






















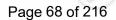


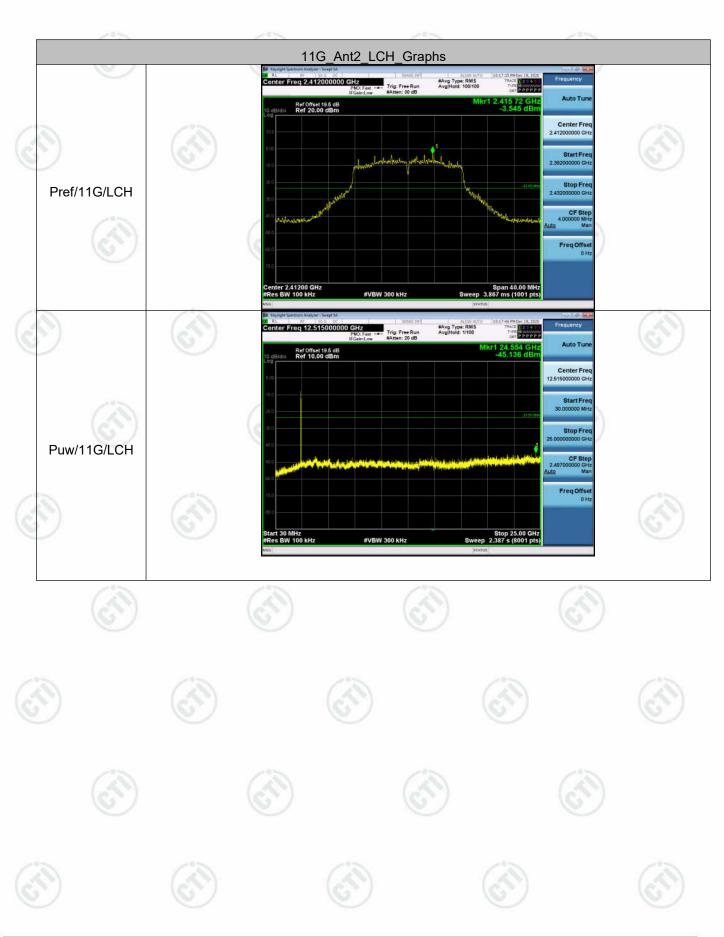
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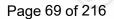
































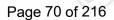


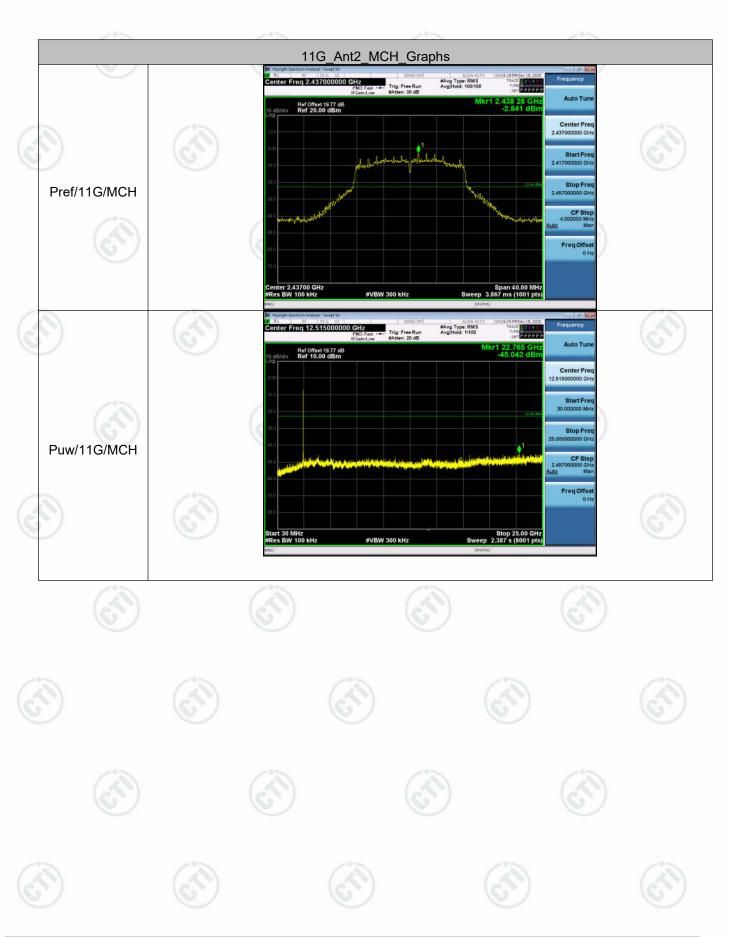




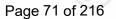








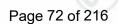


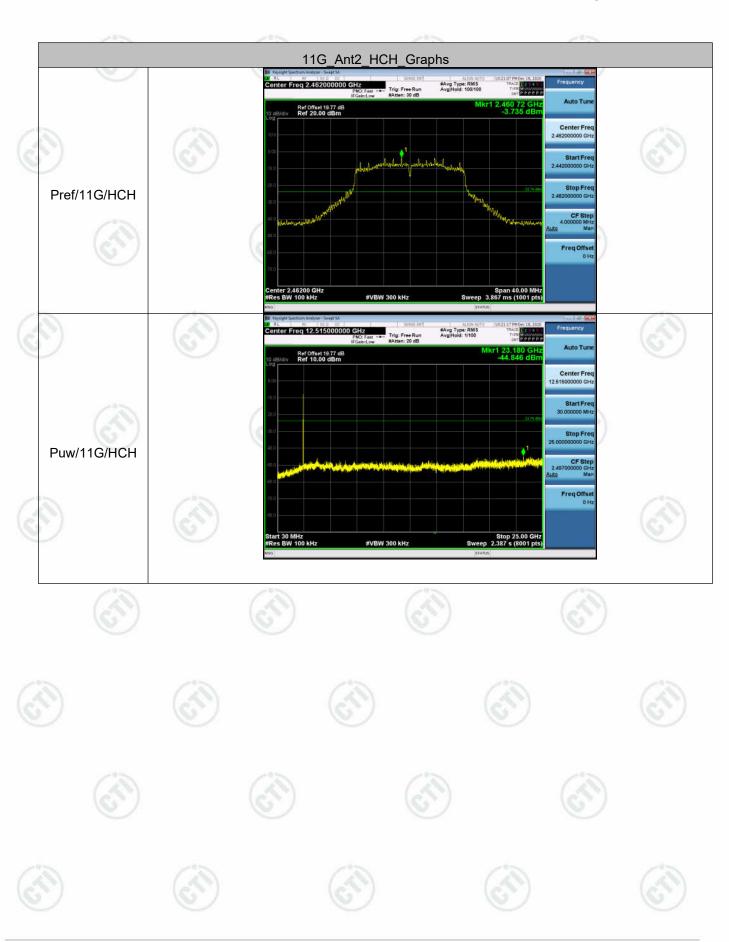






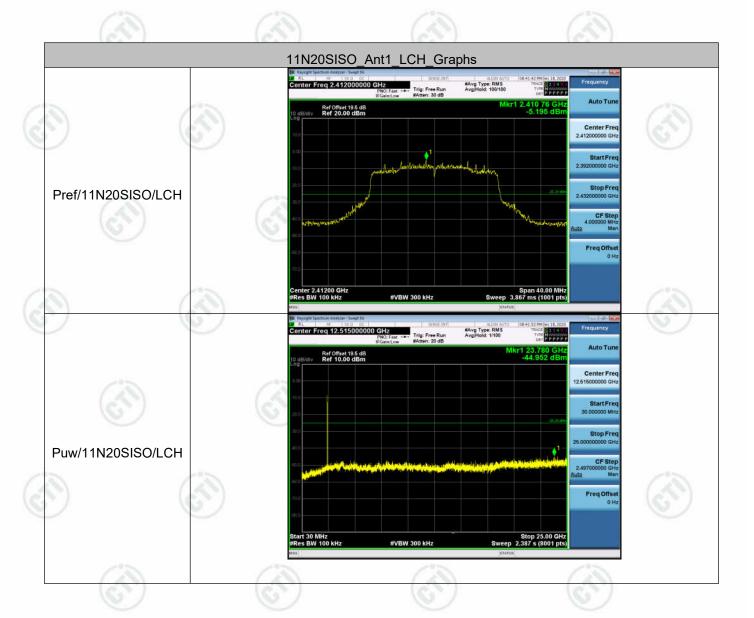








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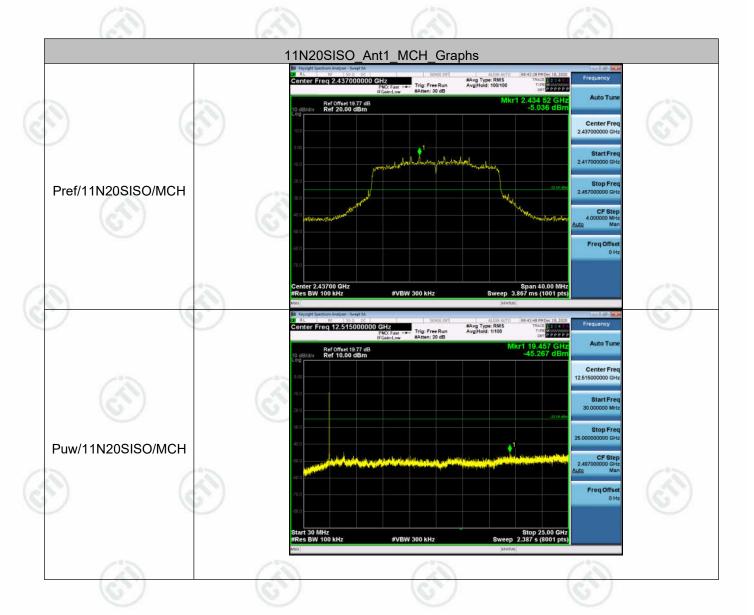


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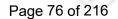


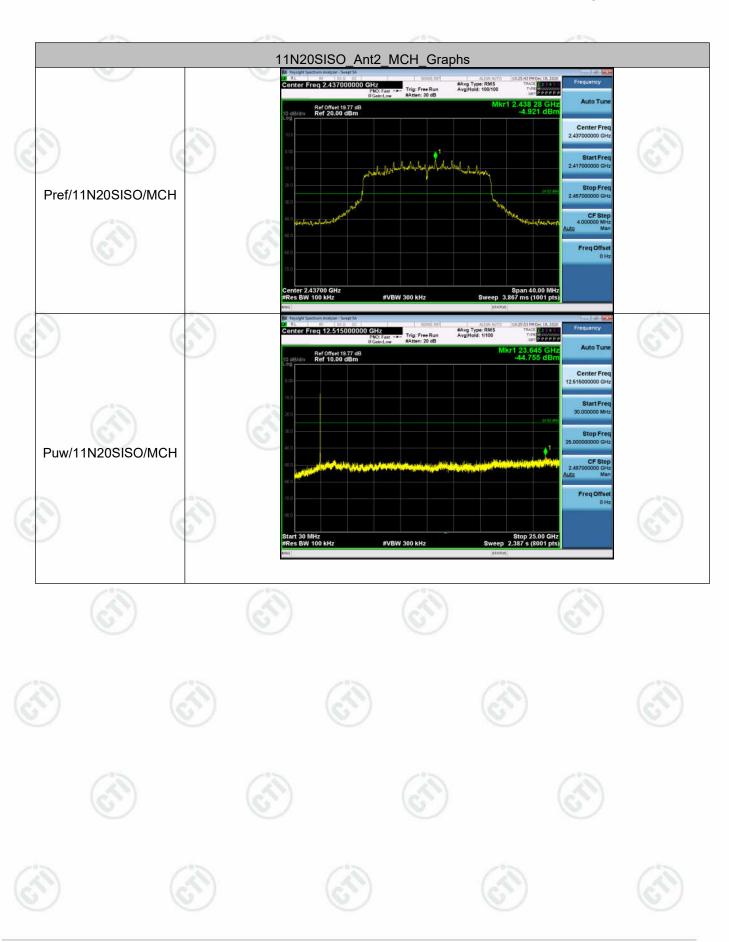
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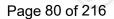


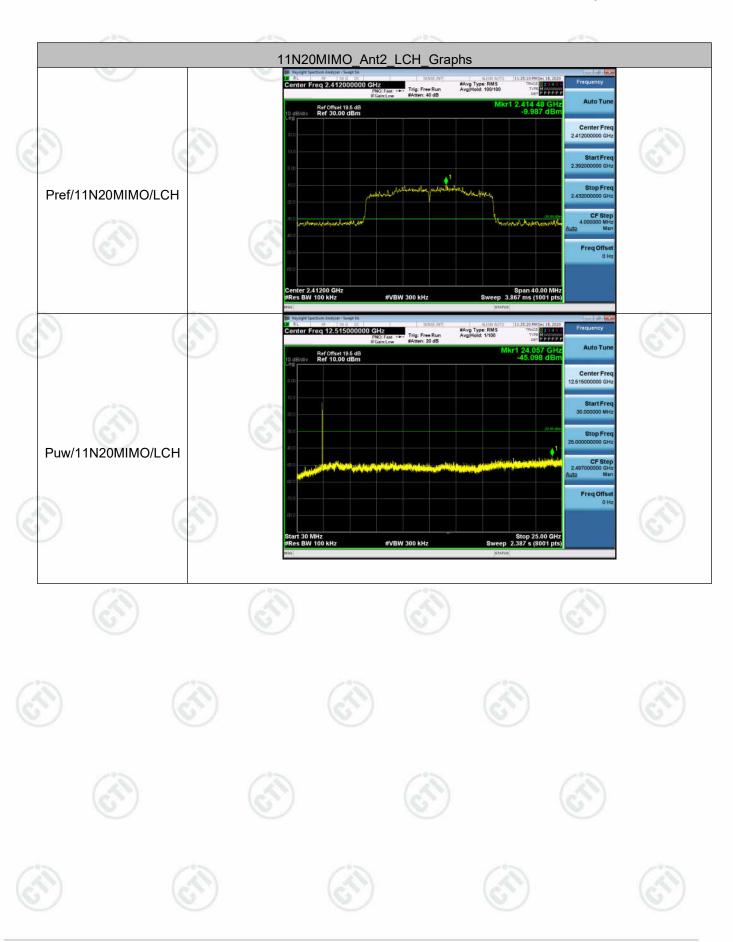
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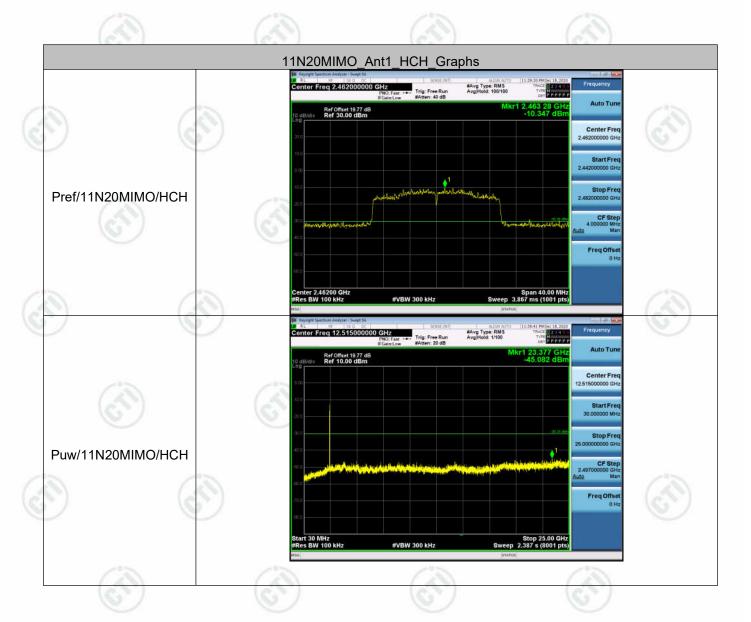








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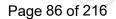


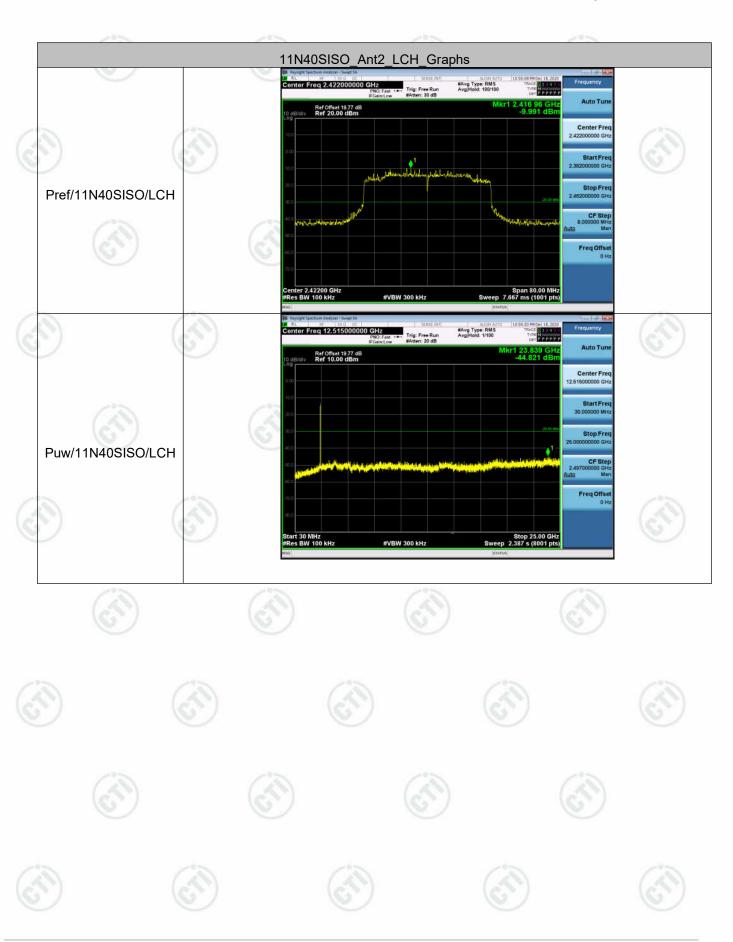






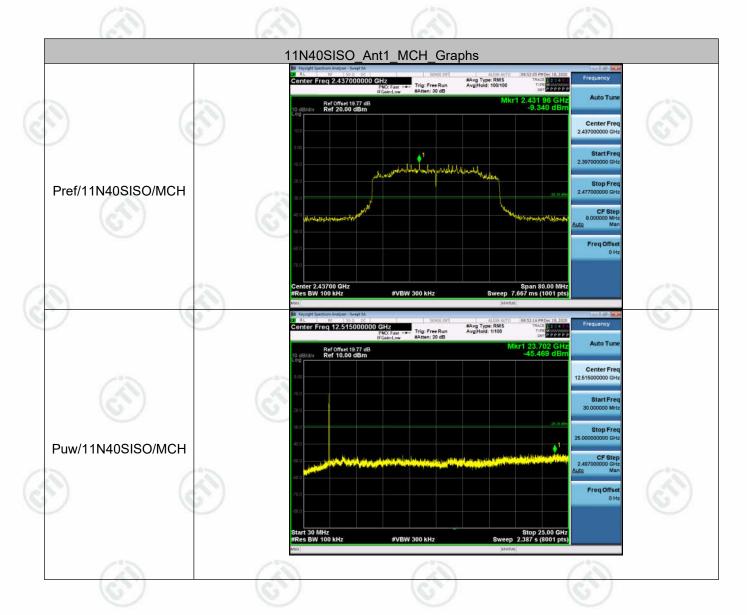






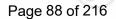


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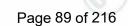


















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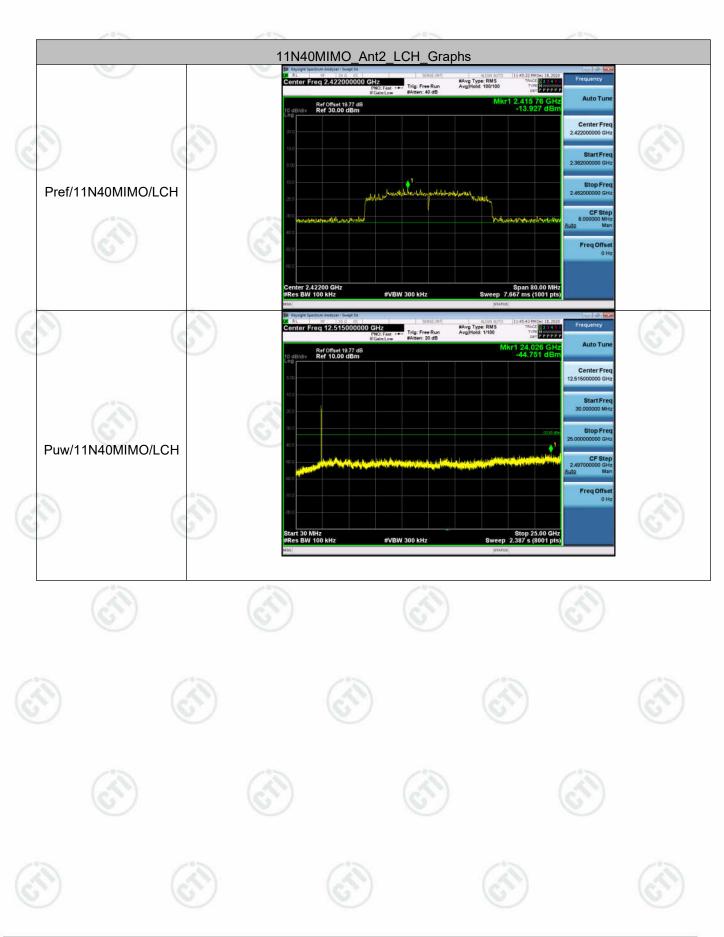
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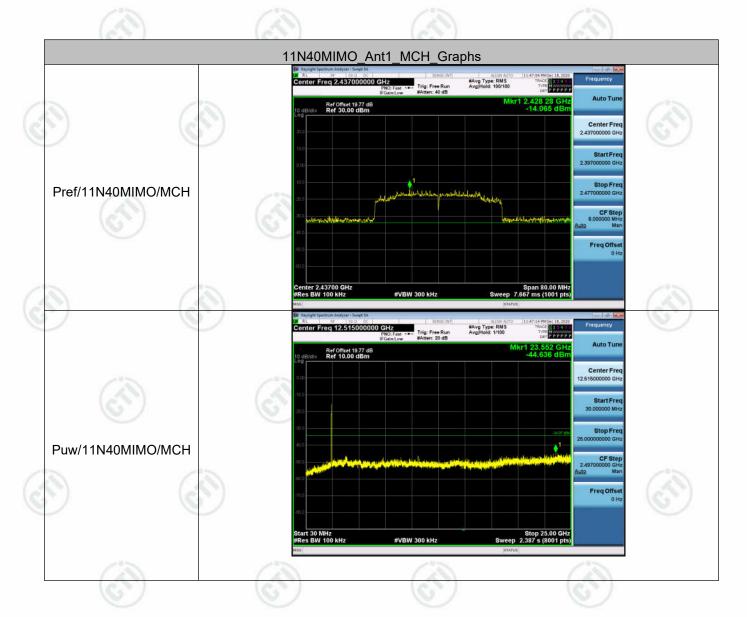








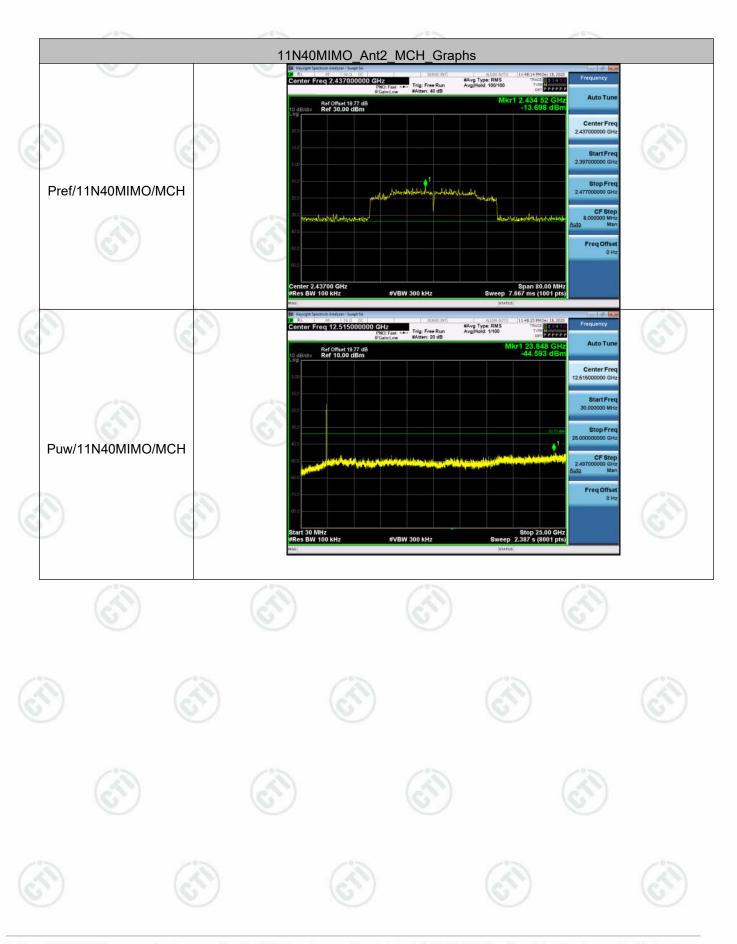
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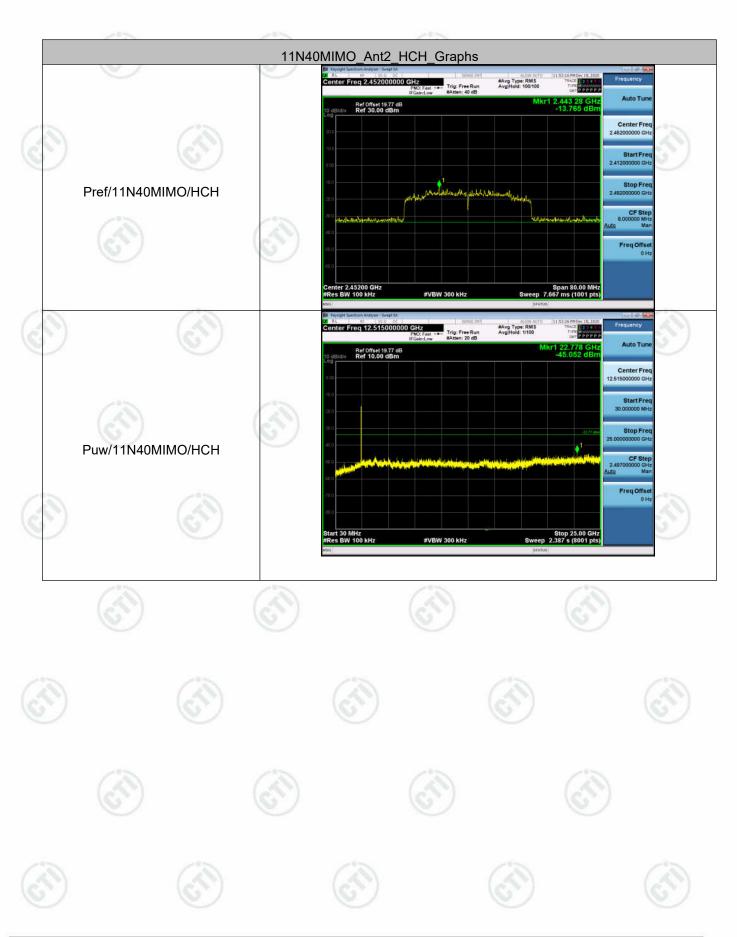
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Appendix E): Power Spectral Density

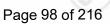
Result Table

Mode	Antenna	Channel	Power Spectral Density [dBm]	Verdict
11B	Ant1	LCH	-11.630	PASS
11B	Ant2	LCH	-11.248	PASS
11B	Ant1	MCH	-10.951	PASS
11B	Ant2	MCH	-11.473	PASS
11B	Ant1	нсн	-10.740	PASS
11B	Ant2	НСН	-11.118	PASS
11G	Ant1	LCH	-17.587	PASS
11G	Ant2	LCH	-16.749	PASS
11G	Ant1	MCH	-17.345	PASS
11G	Ant2	MCH	-16.876	PASS
11G	Ant1	НСН	-18.645	PASS
11G	Ant2	нсн	-16.953	PASS
11N20SISO	Ant1	LCH	-20.020	PASS
11N20SISO	Ant2	LCH	-20.567	PASS
11N20SISO	Ant1	MCH	-20.573	PASS
11N20SISO	Ant2	MCH	-20.321	PASS
11N20SISO	Ant1	НСН	-20.654	PASS
11N20SISO	Ant2	НСН	-21.277	PASS
11N20MIMO	Ant1	LCH	-25.597	PASS
11N20MIMO	Ant2	LCH	-24.785	PASS
11N20MIMO	Ant1+2	LCH	-22.16	PASS
11N20MIMO	Ant1	MCH	-24.389	PASS
11N20MIMO	Ant2	MCH	-24.136	PASS
11N20MIMO	Ant1+2	MCH	-21.25	PASS
11N20MIMO	Ant1	НСН	-25.500	PASS
11N20MIMO	Ant2	НСН	-24.925	PASS
11N20MIMO	Ant1+2	нсн	-22.19	PASS
11N40SISO	Ant1	LCH	-23.790	PASS
11N40SISO	Ant2	LCH	-25.562	PASS
11N40SISO	Ant1	мсн	-24.808	PASS
11N40SISO	Ant2	MCH	-26.088	PASS

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11N40SISO	Ant1	HCH	-24.372	PASS
11N40SISO	Ant2	НСН	-24.701	PASS
11N40MIMO	Ant1	LCH	-29.804	PASS
11N40MIMO	Ant2	LCH	-29.293	PASS
11N40MIMO	Ant1+2	LCH	-26.53	PASS
11N40MIMO	Ant1	MCH	-29.817	PASS
11N40MIMO	Ant2	MCH	-28.954	PASS
11N40MIMO	Ant1+2	MCH	-26.35	PASS
11N40MIMO	Ant1	HCH	-29.804	PASS
11N40MIMO	Ant2	НСН	-29.425	PASS
11N40MIMO	Ant1+2	НСН	-26.60	PASS





















































































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Test Graph







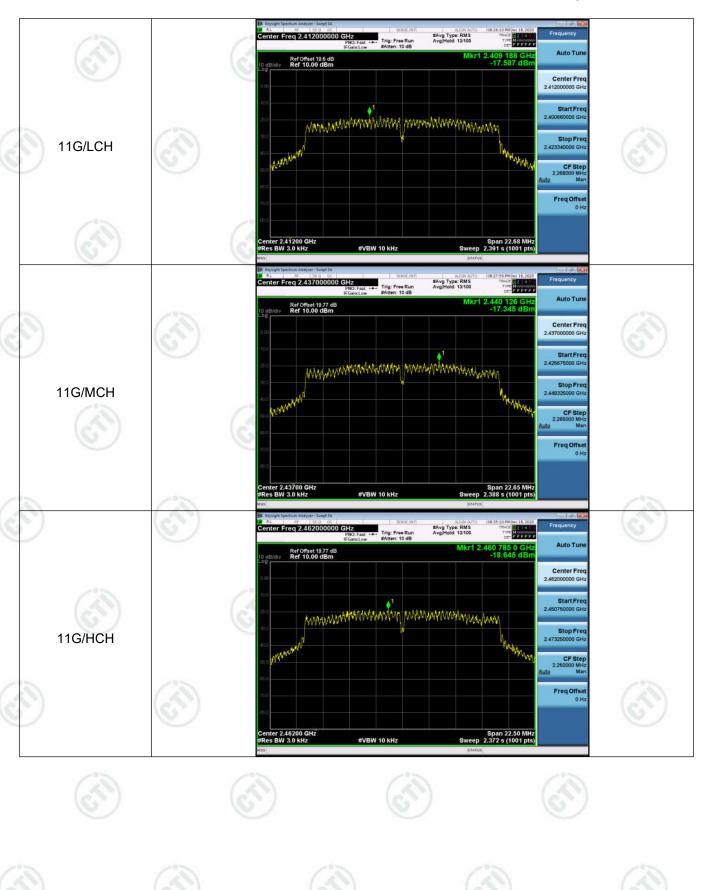






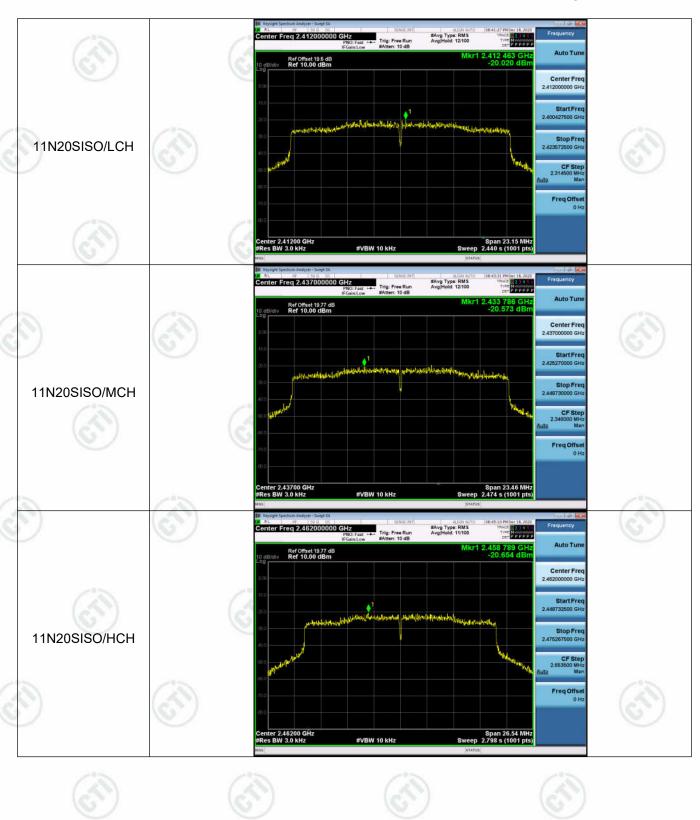


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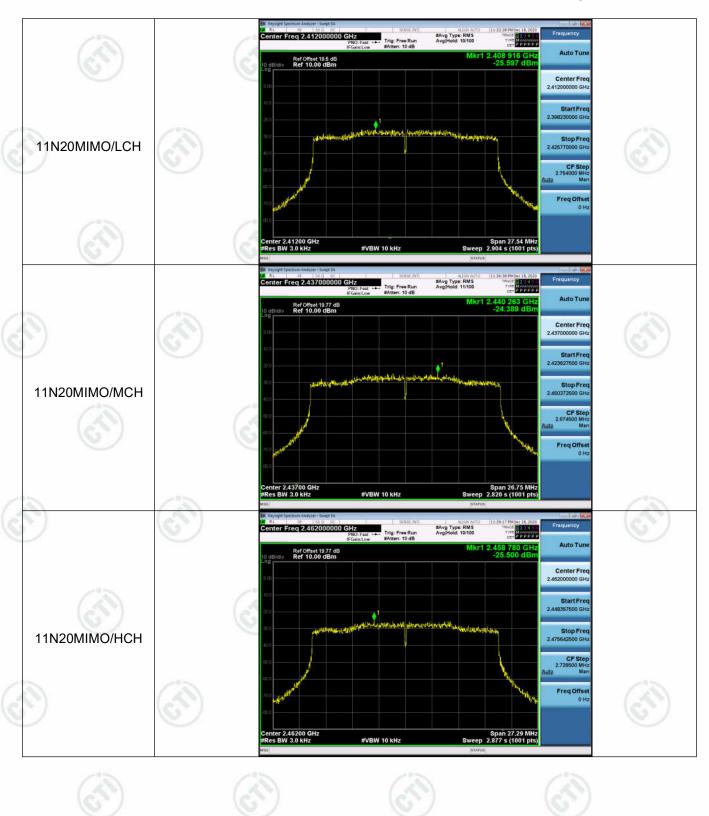
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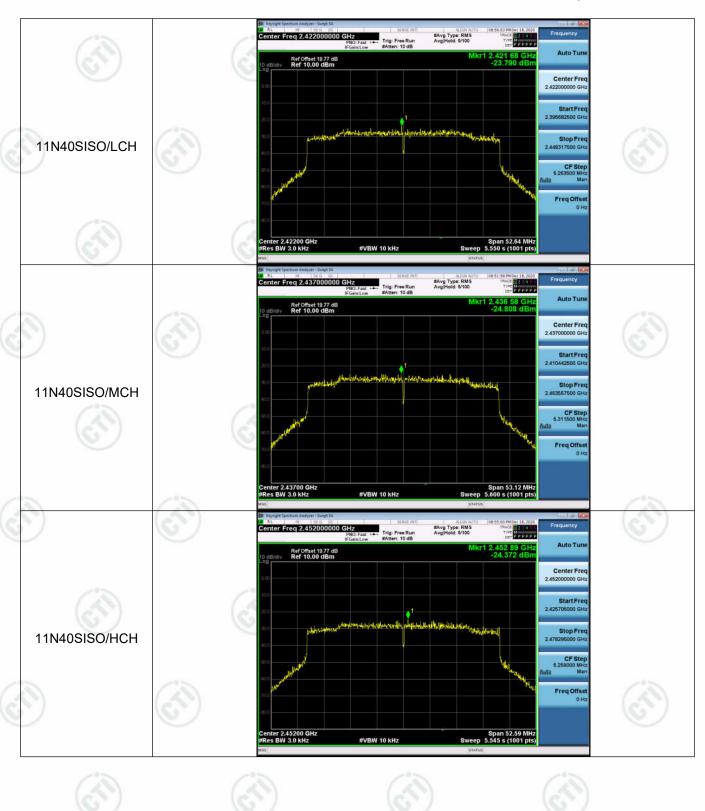


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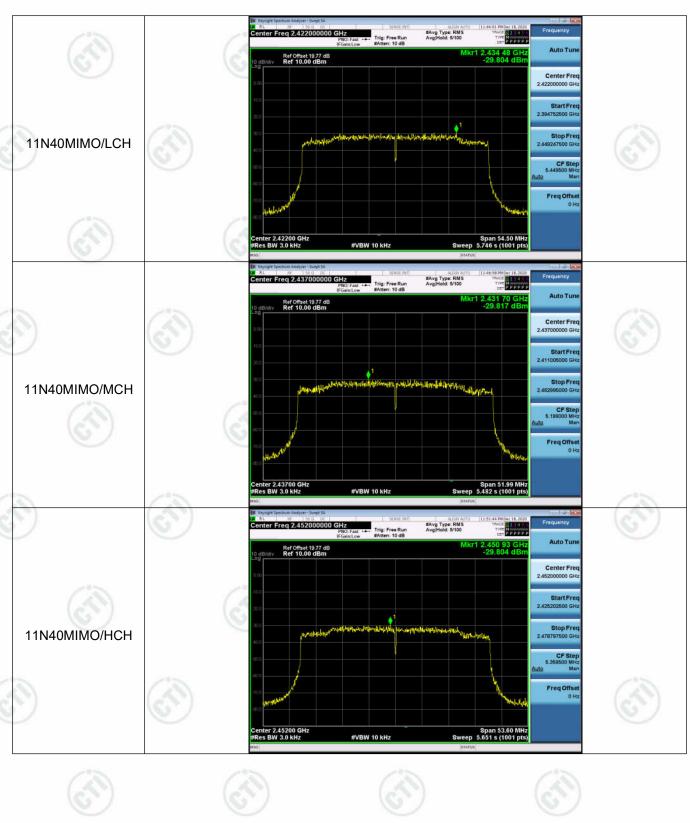
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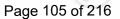


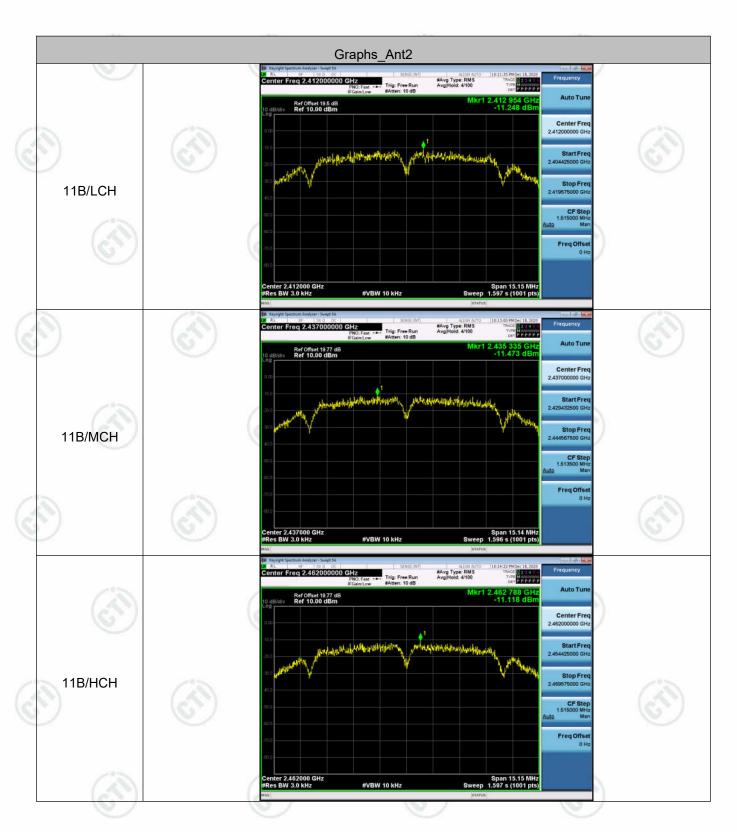
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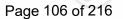








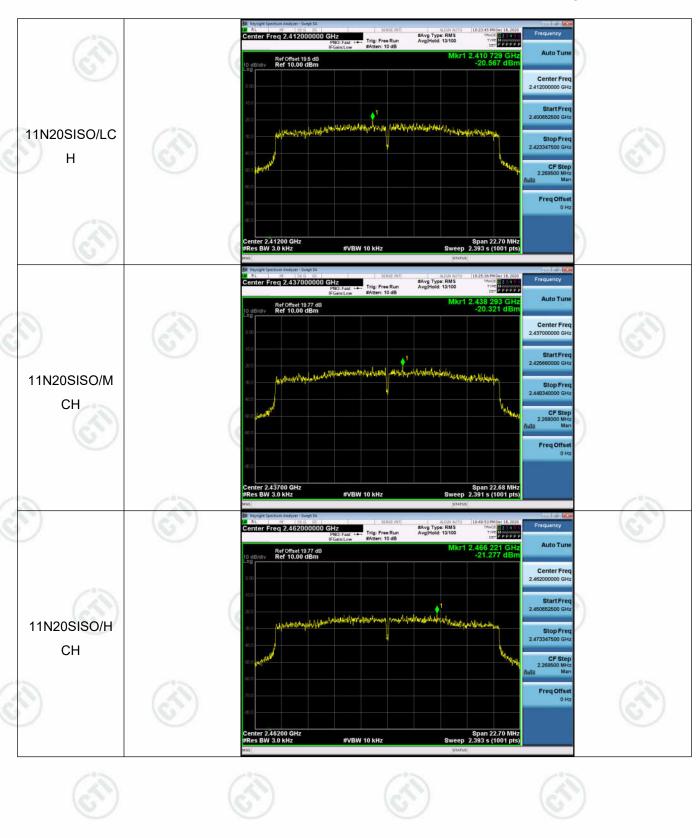




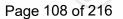


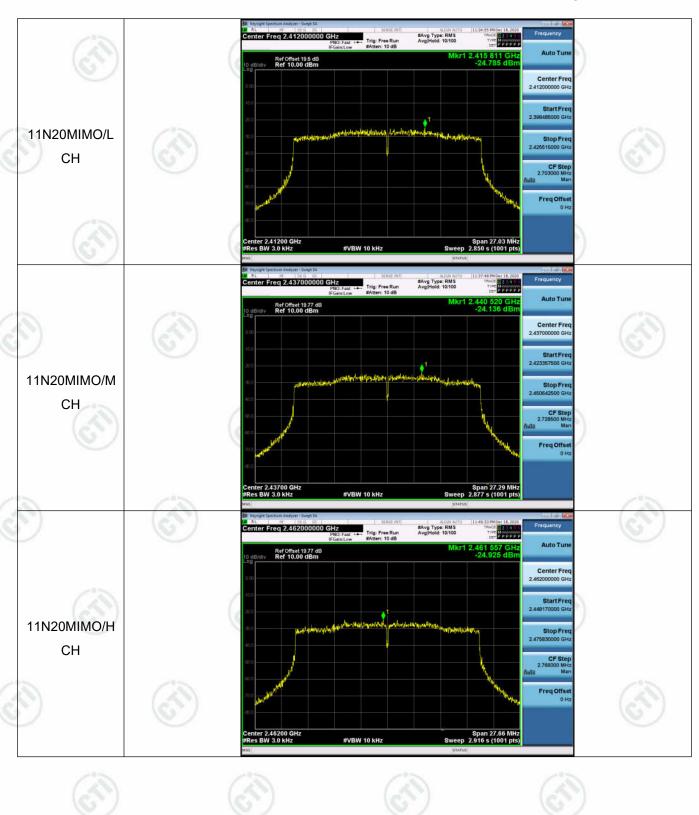


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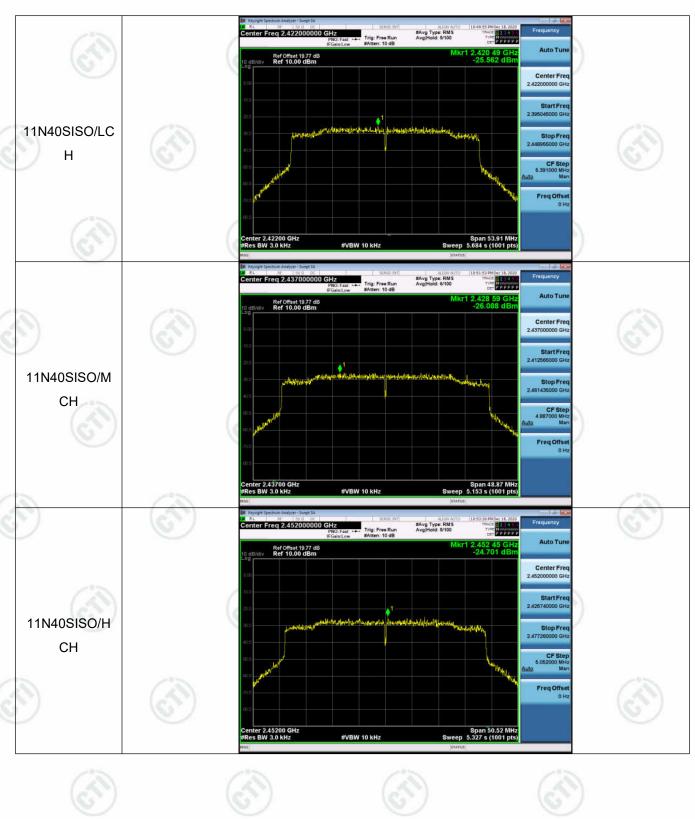








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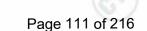












Appendix F): Antenna Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. **EUT Antenna:** Please see Internal photos

The antenna is FPC antenna. The best case gain of the antenna is 1.5dBi.



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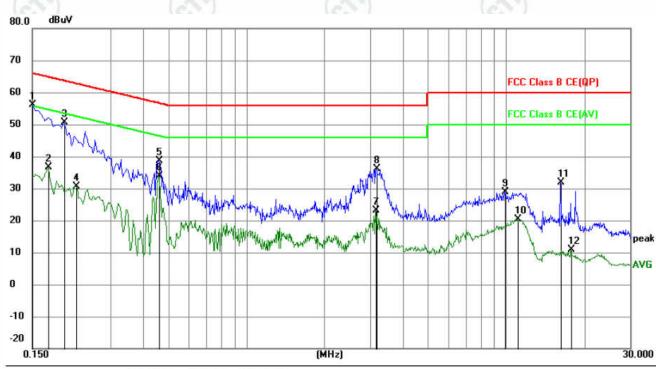
Test Procedure:	Toot frequency representation	201411-	(202)						
rest Procedure.	Test frequency range :150KHz-		conducted in a shield	ad room					
	1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance)								
	Stabilization Network) which								
	power cables of all other u								
	which was bonded to the gr								
	the unit being measured. A power cables to a single LIS	SN provided the ration	ng of the LISN was not	exceeded.					
	3) The tabletop EUT was place reference plane. And for floorizontal ground reference	oor-standing arrang		•					
	4) The test was performed with shall be 0.4 m from the reference plane was bonde	n a vertical ground referenced to the horizontal	ference plane. The vo ground reference pland	ertical groun e. The LISN					
	was placed 0.8 m from the	•		_					
	reference plane for LISNs distance was between the distance was between		and the second s						
	of the EUT and associated								
	5) In order to find the maximum								
	the interface cables must measurement.								
Limit:									
	[[] [] [] [] [] [] [] [] [] [Limit (dBµV)							
	Frequency range (MHz)	Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5	56	46						
	5-30	60	50						
	* The limit decreases linearly w to 0.50 MHz. NOTE : The lower limit is applic	-	, ,	nge 0.15 MH					
leasurement Data									
n initial pre-scan wa	s performed on the live and neutr	al lines with peak de	etector.						
	age measurement were performe			emission we					
	age medearement were perferme	a at the hequencies	mar maximized pour						
etected.									

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Live line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	46.31	9.87	56.18	66.00	-9.82	QP	
2		0.1725	26.66	9.87	36.53	54.84	-18.31	AVG	
3		0.1995	40.83	9.87	50.70	63.63	-12.93	QP	
4		0.2220	20.75	9.91	30.66	52.74	-22.08	AVG	
5		0.4605	28.58	9.96	38.54	56.68	-18.14	QP	
6		0.4605	23.86	9.96	33.82	46.68	-12.86	AVG	
7		3.1560	13.33	9.79	23.12	46.00	-22.88	AVG	
8		3.1695	26.35	9.79	36.14	56.00	-19.86	QP	
9		9.8925	19.18	9.78	28.96	60.00	-31.04	QP	
10		11.0400	10.62	9.81	20.43	50.00	-29.57	AVG	
11		16.1835	22.01	9.94	31.95	60.00	-28.05	QP	
12		17.8035	0.82	9.95	10.77	50.00	-39.23	AVG	







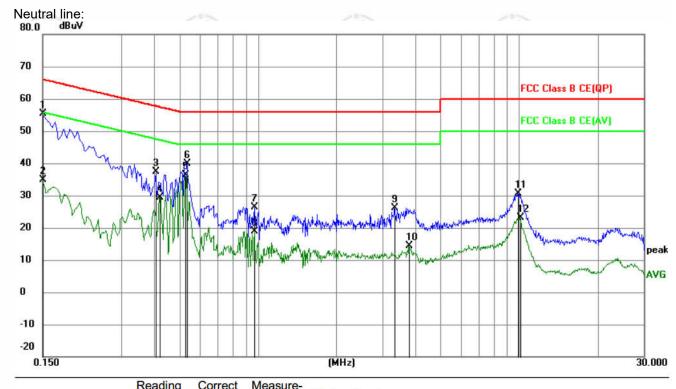












No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1725	44.57	9.87	54.44	64.84	-10.40	QP	
2		0.1725	27.19	9.87	37.06	54.84	-17.78	AVG	
3		0.2490	19.23	9.97	29.20	51.79	-22.59	AVG	
4		0.2850	33.49	10.04	43.53	60.67	-17.14	QP	
5		0.4605	19.81	9.96	29.77	46.68	-16.91	AVG	
6		0.5144	28.72	9.97	38.69	56.00	-17.31	QP	
7		3.1785	28.94	9.79	38.73	56.00	-17.27	QP	
8		3.2775	17.26	9.79	27.05	46.00	-18.95	AVG	
9		5.7255	11.90	9.78	21.68	50.00	-28.32	AVG	
10		5.8740	25.31	9.78	35.09	60.00	-24.91	QP	
11		10.2975	31.92	9.79	41.71	60.00	-18.29	QP	
12		11.6295	19.07	9.83	28.90	50.00	-21.10	AVG	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.















Appendix H): Restricted bands around fundamental frequency (Radiated)

(Naulaleu)	(878)	(A.A.))									
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark							
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak							
	Ab 4011-	Peak	1MHz	3MHz	Peak							
	Above 1GHz	Peak	1MHz	10Hz	Average							
Test Procedure:	Below 1GHz test proced Test method Refer as KDI a. The EUT was placed at a 3 meter semi-ane determine the position b. The EUT was set 3 m was mounted on the too the control of the antenna height is determine the maximular polarizations of the antenna was tuned was turned from 0 degenorms. The test-receiver systems and width with Maximular for the place a marker at the frequency to show control of the set of the se	ure as below: B 558074 D01 on the top of a roschoic camber. The of the highest rate ters away from the op of a variable-had varied from one are value of the first tenna are set to mission, the EUT d to heights from the open was set to Penum Hold Mode, and of the restrict mpliance. Also me	tating table wand table was adiation. the interfer to found to be a constant of the constant o	e 0.8 meter as rotated 3 ence-recei nna tower. our meters n. Both hor neasurement aged to its way 4 meters a the maxin Function a	rs above the 360 degrees iving antenna above the grizontal and vent. worst case along the rotate num reading. Ind Specified the transmit is in the restri	to ound vertica nd the able						
	bands. Save the spect for lowest and highest Above 1GHz test procedting. Different between about to fully Anechoic Charal 18GHz the distance is h. Test the EUT in the low it. The radiation measure Transmitting mode, are j. Repeat above procedures.	channel lure as below: ove is the test site mber change forn a 1 meter and tab owest channel, the ments are perforn and found the X ax	e, change fin table 0.8 le is 1.5 mine Highest rmed in X, tis position	rom Semi- meter to 1 eter). channel Y, Z axis p ing which i	Anechoic Ch .5 meter(Abo positioning for t is worse can	nambe ove r						
imit:												
	Frequency	Limit (dBµV/			mark							
	30MHz-88MHz	40.0	-	·	eak Value							
	88MHz-216MHz	43.5	183	· ·	eak Value							
			1.00	Quasi-pe	eak Value							
	216MHz-960MHz	46.0		960MHz-1GHz 54.0 Quasi-peak Va								
	960MHz-1GHz)	Quasi-pe								
		54.0)	Quasi-pe Averag	eak Value							













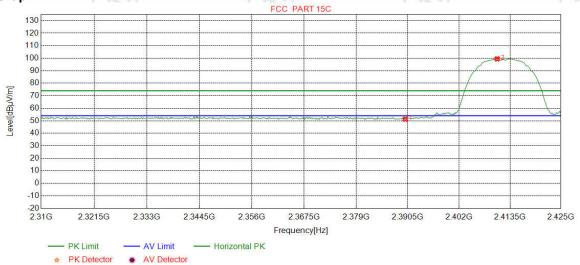
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Test plot as follows:

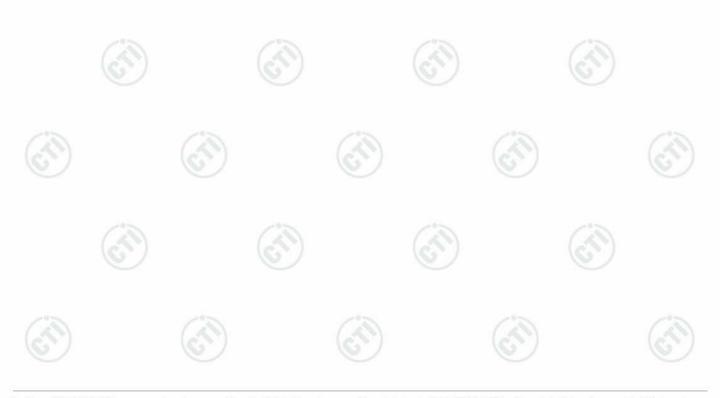
Ant1:

Mode:	802.11 b(1Mbps) Transmitting	Channel:	2412
Remark:	PK		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-43.12	48.79	51.29	74.00	22.71	Pass	Horizontal
2	2410.6070	32.27	13.35	-43.11	96.96	99.47	74.00	-25.47	Pass	Horizontal



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