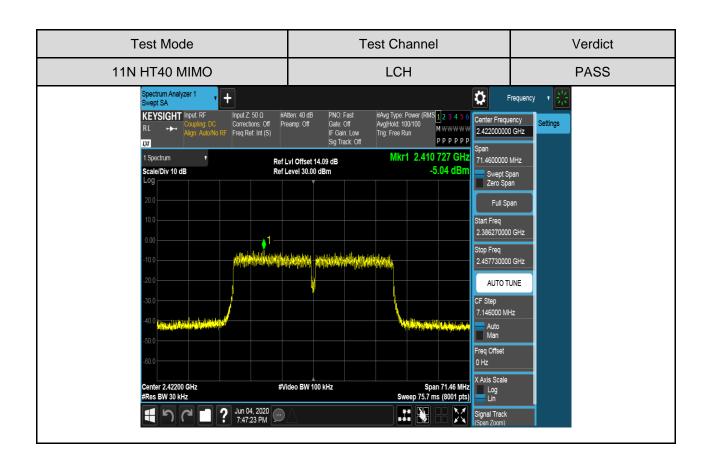
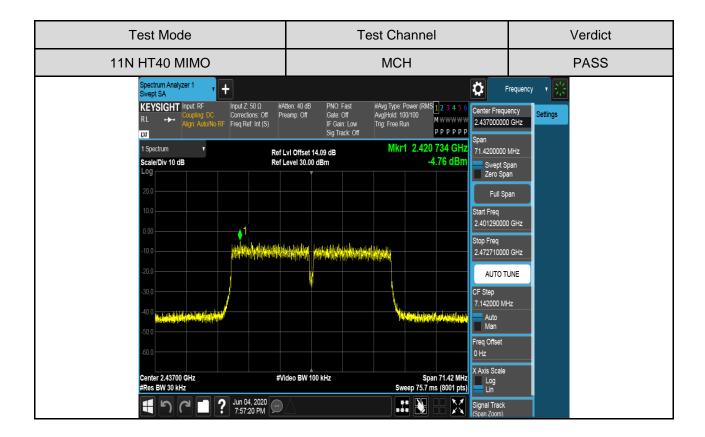


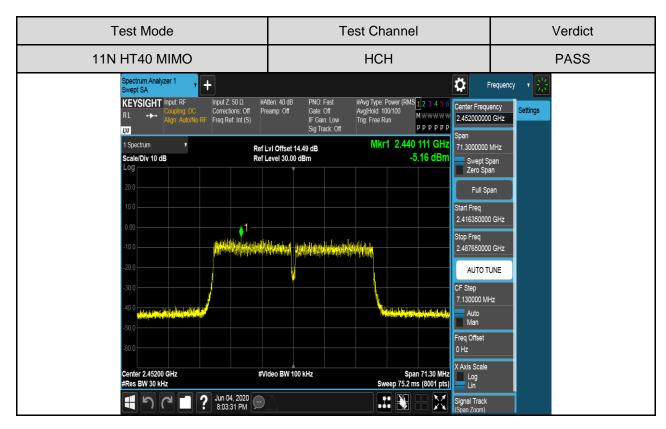


Test Mode **Test Channel** Verdict 11N HT20 MIMO **HCH PASS** Spectrum Analyzer 1 Swept SA Ö Frequency Input Z: 50 Ω #Avg Type: Power (RMS 1 2 3 4 5 KEYSIGHT Input RF #Atten: 40 dB Coupling: DC Corrections: Off Align: Auto/No RF Freq Ref: Int (S) Gate: Off IF Gain: Low Settings M₩₩₩₩ 2.462000000 GHz PPPPPP ĻXI Mkr1 2.465 102 GHz 1 Spectrum Ref LvI Offset 14.49 dB Ref Level 30.00 dBm 35.1000000 MHz -4.33 dBn Scale/Div 10 dB Swept Span Zero Span Full Span 2.444450000 GHz 2.479550000 GHz AUTO TUNE 3.510000 MHz Auto Man Freq Offset X Axis Scale Span 35.10 MHz Sweep 37.3 ms (8001 pts) #Video BW 100 kHz enter 2.46200 GHz 1961 # # Signal Track (Span Zoom)











7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) , Subpart C				
Section	Section Test Item Limit			
FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power		

TEST PROCEDURE

Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

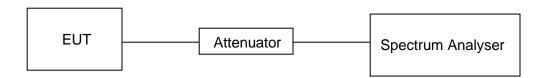
settings:

Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

TEST SETUP





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TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

Part I: Conducted Bandedge

RESULTS TABLE

Ant 1:

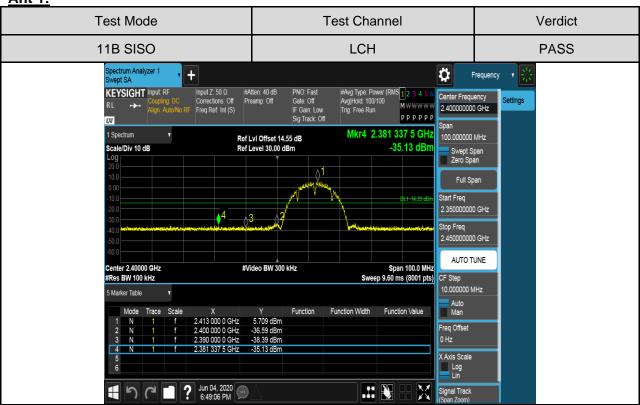
<u> </u>		ī			
Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.709	-35.13	-14.29	PASS
ПВ	HCH	5.116	-35.17	-14.88	PASS
11G	LCH	3.166	-35.79	-16.83	PASS
110	HCH	2.798	-34.86	-17.20	PASS
11N HT20	LCH	3.491	-35.80	-16.51	PASS
TIIN HTZU	HCH	2.952	-35.22	-17.05	PASS
11N HT40	LCH	1.254	-35.77	-28.75	PASS
1111 11140	HCH	1.572	-35.39	-28.43	PASS

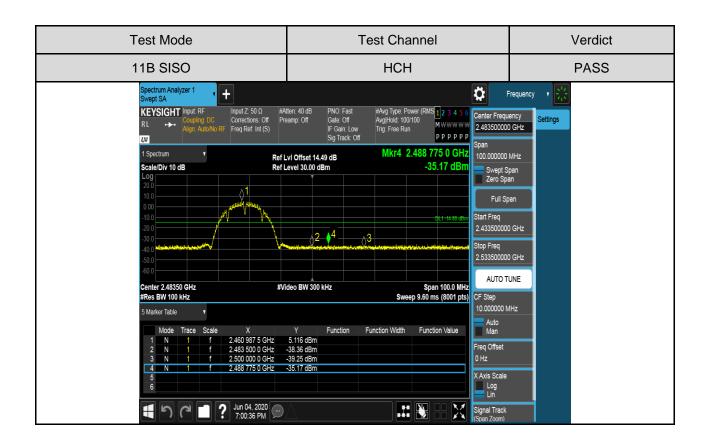
Ant 2:

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.513	-35.69	-15.49	PASS
ПБ	HCH	2.659	-34.87	-17.34	PASS
11G	LCH	2.251	-35.36	-17.75	PASS
116	HCH	0.8930	-35.90	-19.11	PASS
11N HT20	LCH	2.360	-35.43	-17.64	PASS
1111 11120	HCH	1.042	-35.28	-18.96	PASS
11N HT40	LCH	-0.1004	-34.93	-30.10	PASS
111N F1140	HCH	-0.4585	-34.86	-30.64	PASS

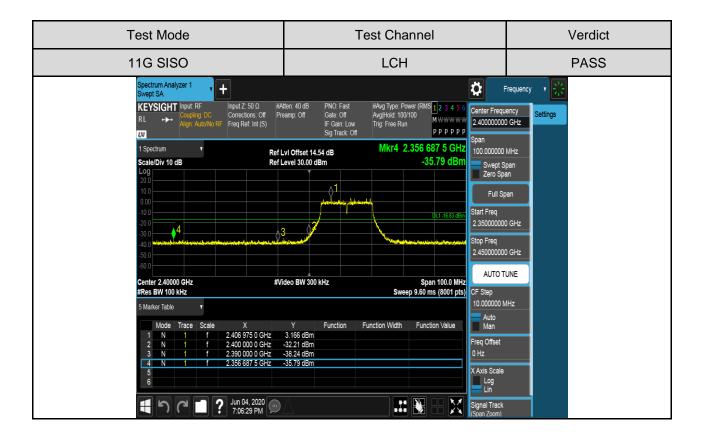


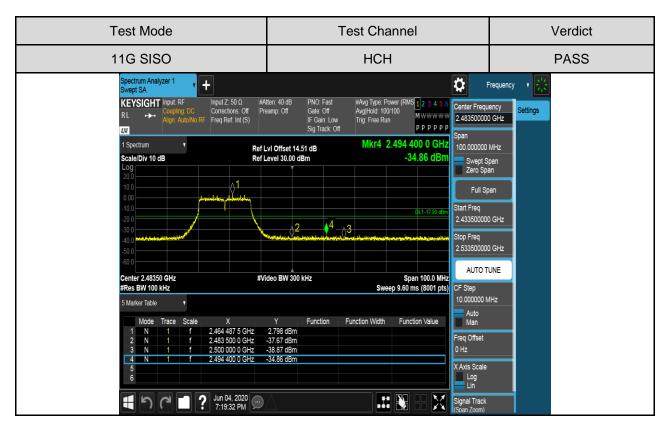
Ant 1:



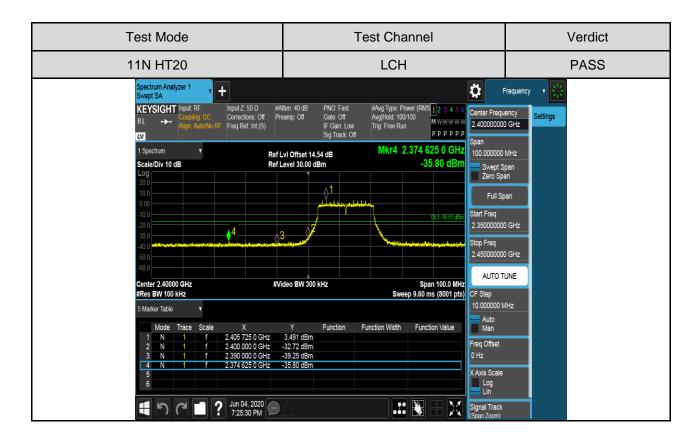


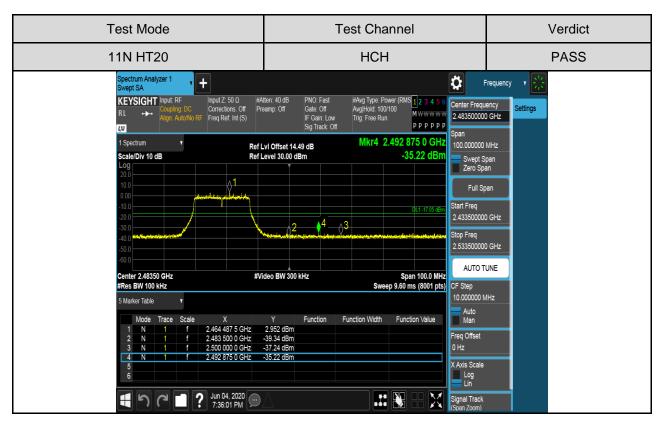




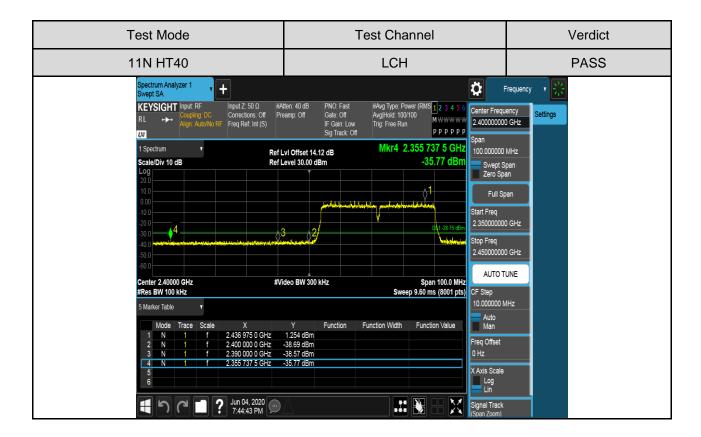


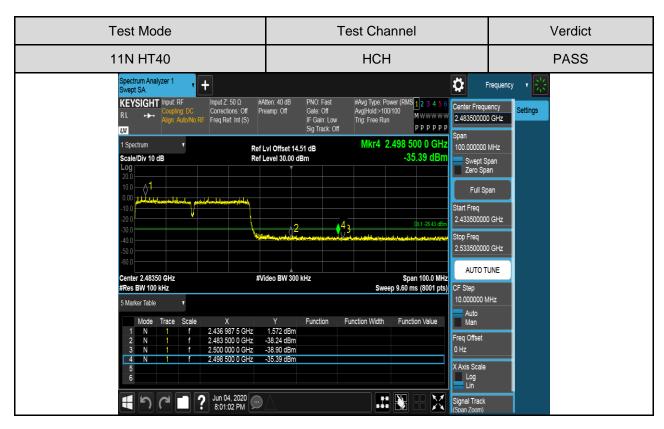






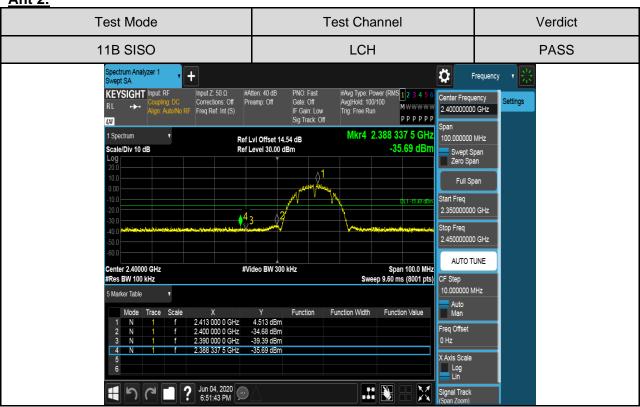


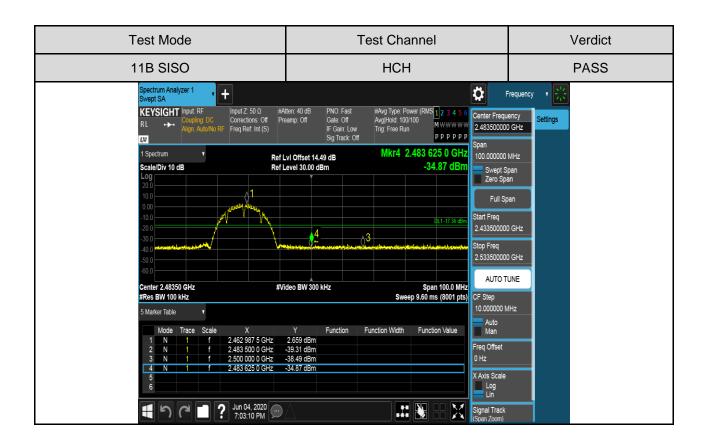




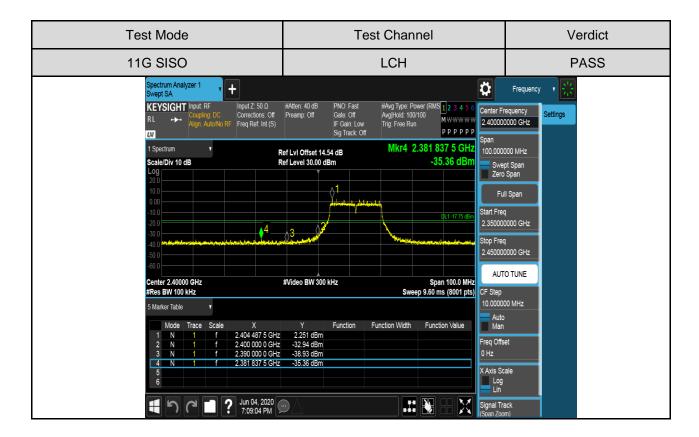


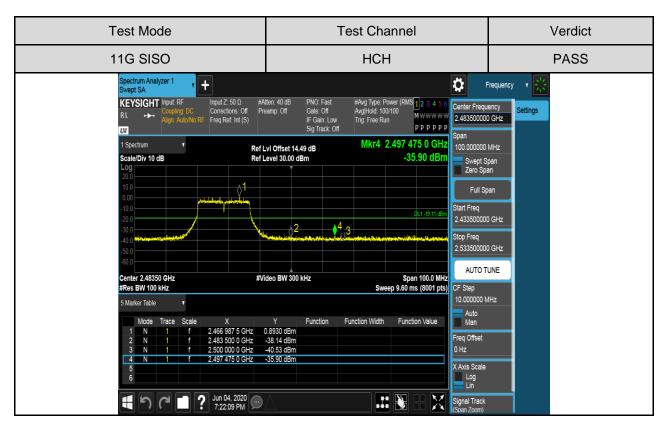
Ant 2:



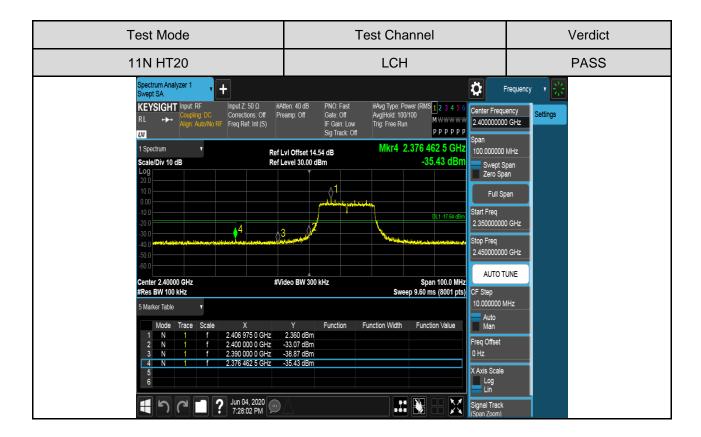


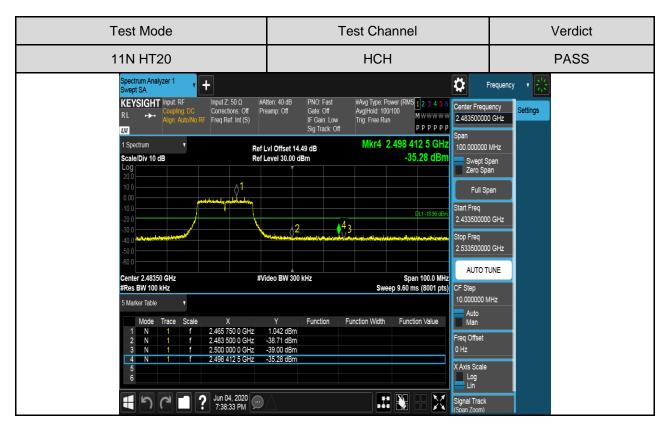




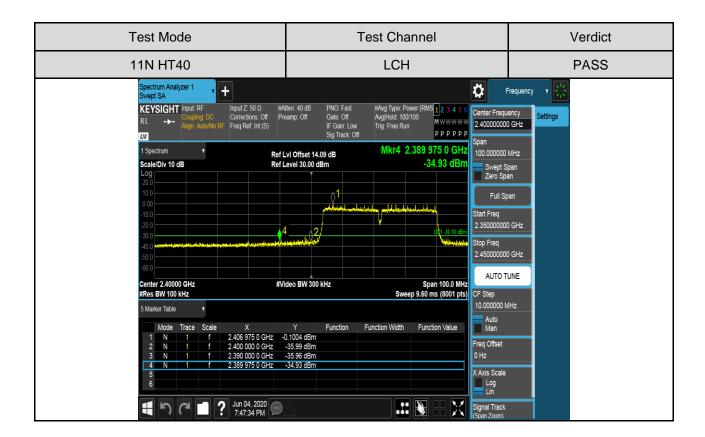


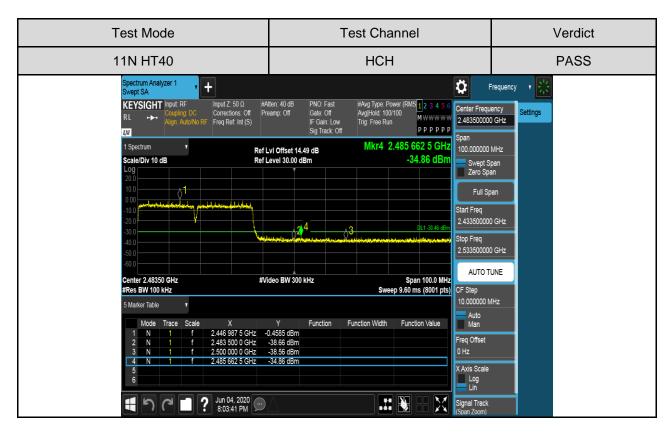














Part II : Conducted Emission

Test Result Table

Test Mode	Channel	Pref(dBm)		Puw(dBm)	Verdict
Test Wode	Test wode Chainlei	Ant 1	Ant 2		verdict
	LCH	5.79	4.80	<limit< td=""><td>PASS</td></limit<>	PASS
11B	MCH	5.28	3.59	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	4.88	2.67	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	3.39	2.21	<limit< td=""><td>PASS</td></limit<>	PASS
11G	MCH	2.77	1.42	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	2.99	0.95	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	3.40	2.28	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT20	MCH	3.23	1.50	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	3.10	1.23	<limit< td=""><td>PASS</td></limit<>	PASS
	LCH	1.52	-0.50	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT40	MCH	1.15	-0.68	<limit< td=""><td>PASS</td></limit<>	PASS
	HCH	0.97	-0.70	<limit< td=""><td>PASS</td></limit<>	PASS

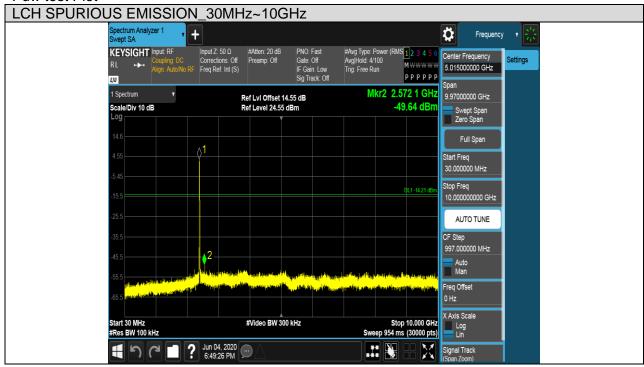
Test Plots

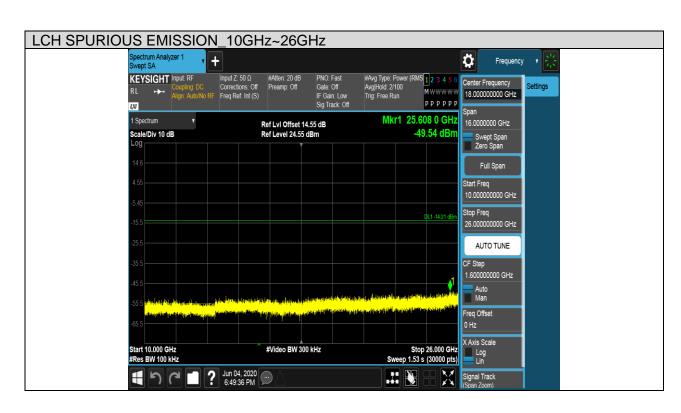
Ant 1:

Test Mode	Channel	Verdict
11B	LCH	PASS









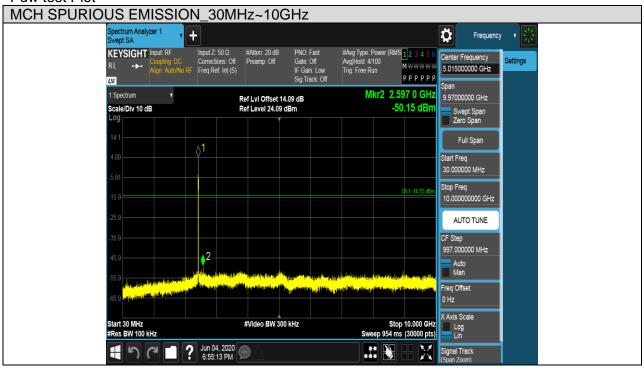


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Test Mode	Channel	Verdict
11B	MCH	PASS









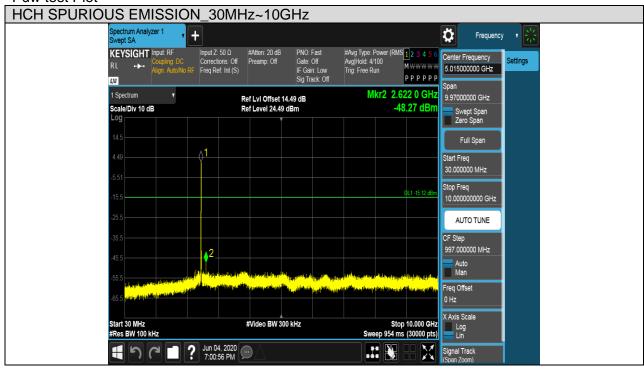


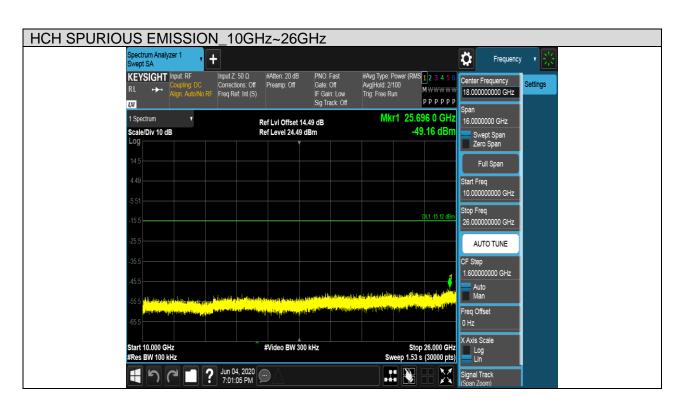
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Test Mode	Channel	Verdict
11B	HCH	PASS





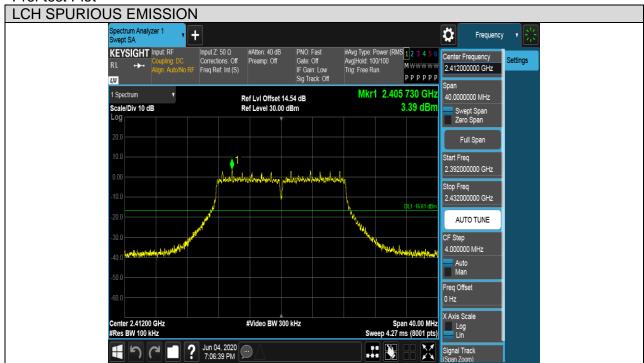




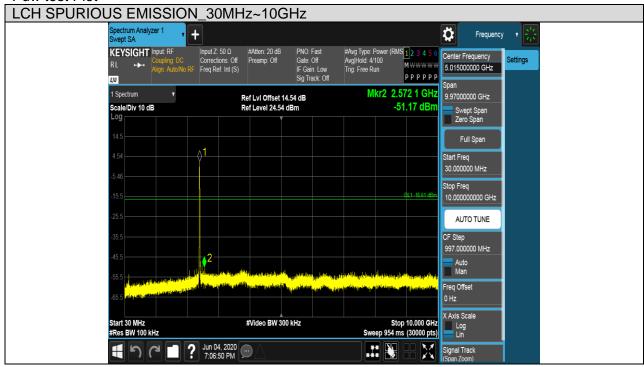


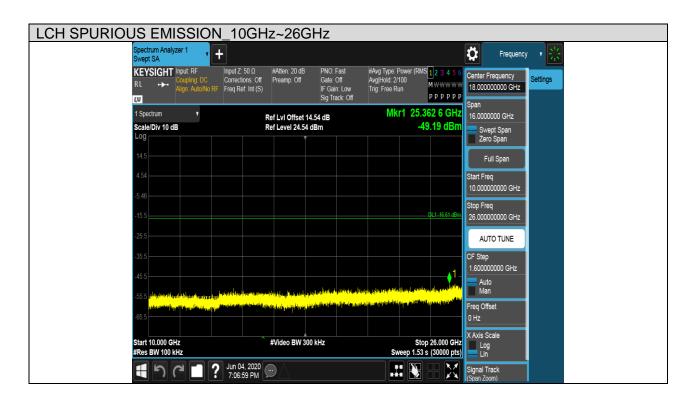
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Test Mode	Channel	Verdict
11G	LCH	PASS











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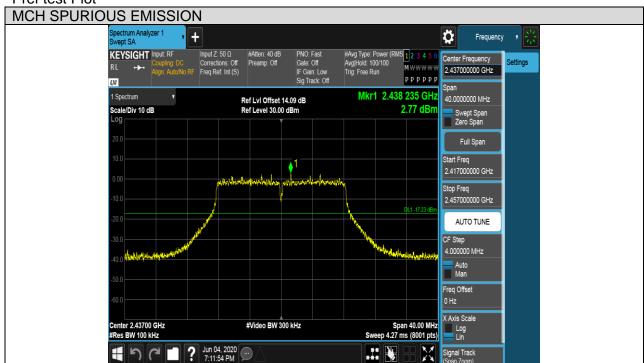
PASS

Test Mode Channel Verdict

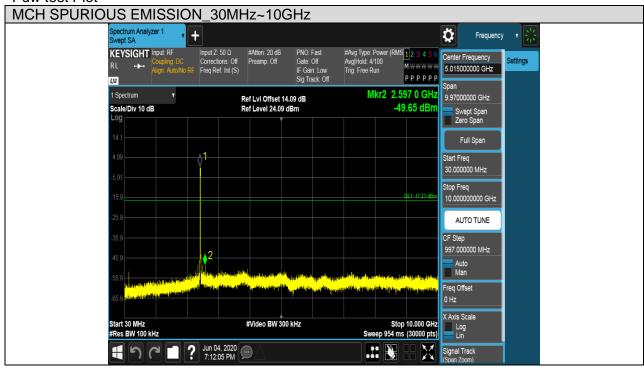
MCH

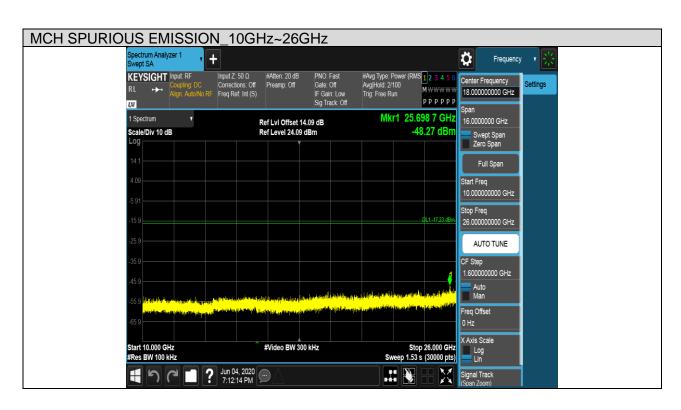
Pref test Plot

11G





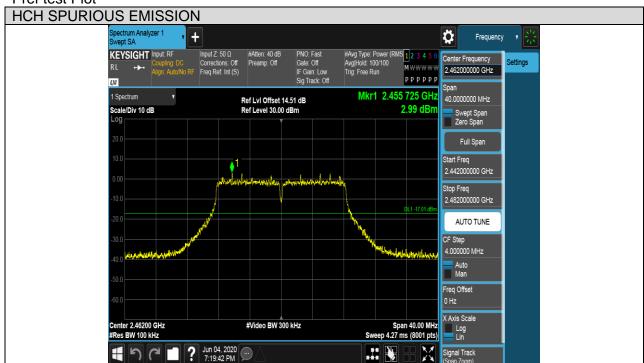




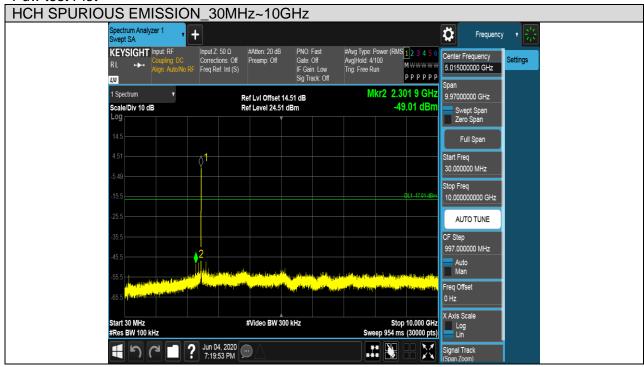


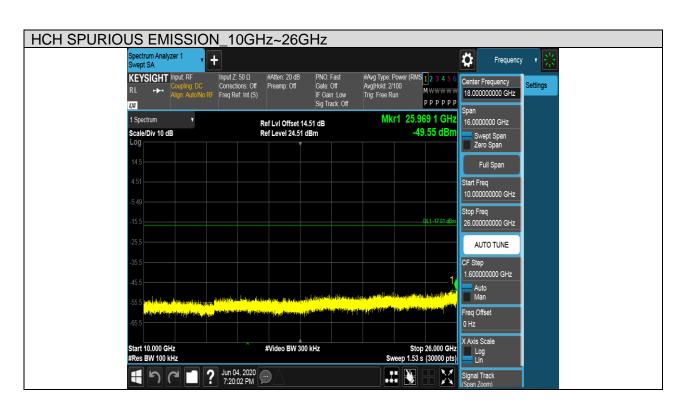
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Test Mode	Channel	Verdict
11G	HCH	PASS





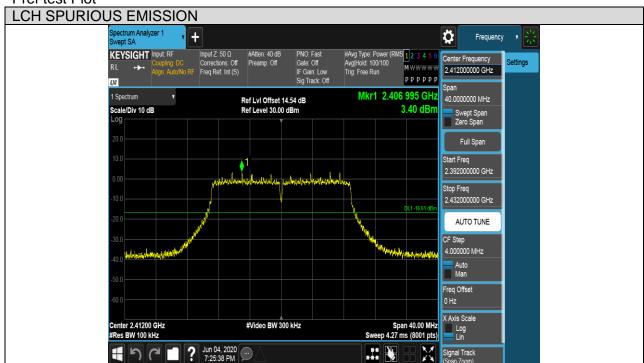




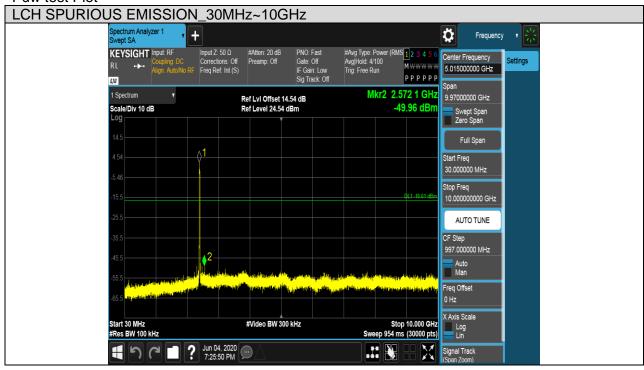


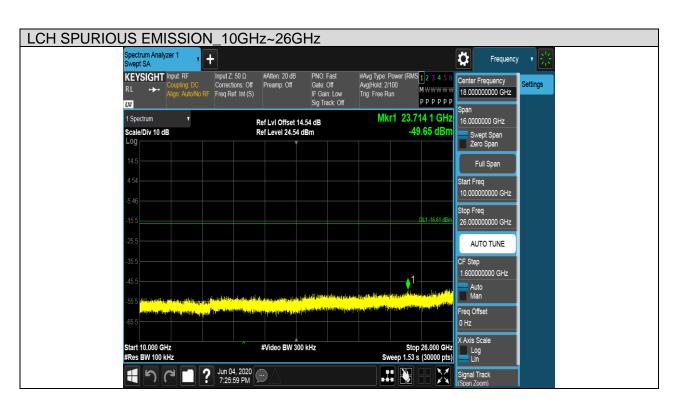
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Test Mode	Channel	Verdict
11N HT20	LCH	PASS











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Test Mode	Channel	Verdict
11N HT20	MCH	PASS

