



**FCC 47 CFR PART 15 SUBPART C
ISED RSS 247 ISSUE 2
CERTIFICATION TEST REPORT**

For

SMART VACUUM CLEANER

MODEL NUMBER: VS100100US

ADDITIONAL MODEL NUMBER:

**VS100100CA, VS100200CA, VS100200US, VS100300CA,
VS100300US, VS100400CA, VS100400US, VS100500CA, VS100500US**

PROJECT NUMBER: 4789476876

REPORT NUMBER: 4789476876-1

FCC ID: 2AV7A-S10

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Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/24/2020	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Tineco Intelligent Technology Co., Ltd.
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215128
P.R.China

Manufacturer Information

Company Name: Tineco Intelligent Technology Co., Ltd.
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215128
P.R.China

Factory Information

Company Name: Tineco Intelligent Technology Co., Ltd.
Address: No. 108 Shihu Road West, Wuzhong Zone, Suzhou, 215128
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EUT Description

Product Name: SMART VACUUM CLEANER
Model Name: VS100100US
Additional No.: VS100100CA, VS100200CA, VS100200US, VS100300CA,
VS100300US, VS100400CA, VS100400US, VS100500CA,
VS100500US
Sample Number: 2913906
Data of Receipt Sample: Feb. 28, 2020
Date Tested: May. 02, 2020~ May. 26, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	PASS
ISED RSS-247 Issue 2	PASS
ISED RSS-GEN Issue 5	PASS



Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6db DTS Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a)	Complied
2	Peak Conducted Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (e)	Complied
3	Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	Complied
4	Conducted Band edge And Spurious emission	FCC 15.247 (d) RSS-247 Clause 5.5	Complied
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Complied
6	Conducted Emission Test For AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	Complied
7	Antenna Requirement	FCC 15.203 RSS-GEN Clause 8.3	Complied
Remark: 1) The measurement result for the sample received is <Pass> according to < ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15C, ISED RSS-GEN Issue5, ISED RSS-247 Issue2> > when <Accuracy Method> decision rule is applied. 2) The product is powered by battery.			

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15 ISSED RSS-GEN ISSUE5 and ISSED RSS-247 ISSUE2.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.00dB
Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	3.31dB
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	3.31dB
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	3.83dB (1GHz-18Gz)
	4.13dB (18GHz-26.5Gz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name	SMART VACUUM CLEANER
Model No.	VS100100US
Operating Frequency	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Type of Modulation	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channels Step	Channels with 5MHz step
Test power grade	NA (manufacturer declare)
Test software of EUT	EspRFtestTool_2.0 (manufacturer declare)
Antenna Type	Meandered printed inverted-F antenna
Antenna Gain	2.3 dBi
	Remark: This data is provided by customer and our lab isn't responsible for this data
Battery	NAME: Rechargeable Li-ion Battery OUTPUT:21.6V DC 260W
Adapter	MODEL:YLS0241A-T260070 INPUT:100-240V~50/60Hz 0.8A Max OUTPUT:26V  700 mA

Model No.:

Number:	Name:	Number:	Name:	Number:	Name:
1	VS100100CA	2	VS100100US	3	VS100200CA
4	VS100200US	5	VS100300CA	6	VS100300US
7	VS100400CA	8	VS100400US	9	VS100500CA
10	VS100500US				

Remark: Only the main model **VS100100US** was tested and only the data of this model is shown in this test report. Since Their electrical circuit design, layout, components used and internal wiring are identical, only the model name, product color, marketing channel and sale country.



5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Channel Number	Max PK Conducted Power (dBm)
1	IEEE 802.11B	1-11[11]	10.78
1	IEEE 802.11G	1-11[11]	14.93
1	IEEE 802.11n HT20	1-11[11]	14.87

5.3. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452		



5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
WiFi TX (802.11b)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz
WiFi TX (802.11g)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz
WiFi TX (802.11n HT20)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		EspRFtestTool_2.0					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	NA	NA	NA	/		
802.11g	1	NA	NA	NA			
802.11n HT20	1	NA	NA	NA			

Remark: The ATT in the software is setting 0.



5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	Meandered printed inverted-F antenna	2.3

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11g	☒ 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11N (HT20)	☒ 1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

5.7. THE WORSE CASE CONFIGURATIONS

For the product, there two transmission antennas, and pre-testing both of them, only the worse data for the antenna is recorded in the report.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11b mode: 6 Mbps
802.11n HT20 mode: MCS0



5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	55 ~ 65%	
Atmospheric Pressure:	101kPa	
Temperature	TN	23 ~ 28°C
Voltage:	VL	N/A
	VN	DC 21.6V
	VH	N/A

Note: VL= Lower Extreme Test Voltage
VN= Nominal Voltage
VH= Upper Extreme Test Voltage
TN= Normal Temperature



5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	N/A
2	Fixed Frequency Board	N/A	N/A	Supply by Customer
3	USB Cable	N/A	N/A	Supply by UL Lab(100cm length)

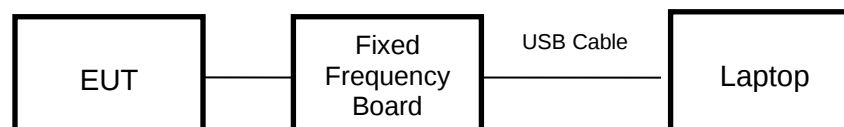
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Battery	Rechargeable Li-ion Battery	A12NA-02	OUTPUT:21.6V 260W
2	Adapter	NA	YLS0241A-T260070	INPUT:100-240V~50/60Hz 0.8A Max OUTPUT:26V  700 mA

TEST SETUP

The EUT can work in an engineer mode with a software through a table PC.

SETUP DIAGRAM FOR TESTS





5.10. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	EMI Test Receiver	R&S	ESR3	126700	2018-12-13	2019-12-07	2020-12-06
☒	Two-Line V-Network	R&S	ENV216	126701	2018-12-13	2019-12-07	2020-12-06
☒	Artificial Mains Networks	R&S	ENY81	126711	2018-12-13	2019-12-07	2020-12-06
Software							
Used	Description		Manufacturer		Name	Version	
☒	Test Software for Conducted disturbance		R&S		EMC32	Ver. 9.25	
Radiated Emissions (Instrument)							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	Keysight	N9010B	MY57110128	2019-05-29	2020-05-28	2021-05-27
☒	EMI test receiver	R&S	ESR26	1267603	2018-12-13	2019-12-07	2020-12-06
☒	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB 1513	513-265	2018-06-17	2019-06-16	2022-06-15
☒	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB1	126704	N/A	2019-01-28	2022-01-27
☒	Receiver Antenna (1GHz-18GHz)	R&S	HF907	126705	2018-01-27	2019-01-26	2022-01-26
☒	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170	126706	2018-02-07	2019-02-06	2022-02-05
☒	Receiver Antenna (26.5GHz-40GHz)	TOYO	HAP 26-40W	00000012	2018-07-25	2019-07-23	2020-07-22
☒	Pre-amplification (To 18GHz)	Compliance Direction System Inc.	PAP-1G18-50	14140-13467	2019-04-09	2020-02-20	2021-02-19
☒	Pre-amplification (To 26.5GHz)	R&S	SCU-26D	134668	2019-03-18	2020-02-20	2021-02-19
☒	Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	1	2019-02-06	2020-01-23	2021-01-22
☒	Highpass Filter	Wainwright	WHKX10-2700-3000-18000-40SS	2	2019-05-29	2020-01-23	2021-01-22
Software							
Used	Description		Manufacturer		Name		Version
☒	Test Software for Radiated disturbance		Tonscend		JS32		V1.0
Other instruments							
Used	Equipment	Manufacturer	Model No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	Keysight	N9010B	MY57110128	2019-05-29	2020-05-28	2021-05-27
☒	Power Meter	Keysight	U2021XA	MY57110002	2019-06-12	2020-06-11	2021-06-10



6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6dB Bandwidth and 99% Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Peak Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	8.3.1.3/8.3.2.3
3	Power Spectral Density	KDB 558074 D01 15.247 Meas Guidance v05r02	8.4
4	Out-of-band emissions in non-restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 15.247 Meas Guidance v05r02	8.7
7	Conducted Emission Test For AC Power Port	ANSI C63.10-2013	6.2



7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

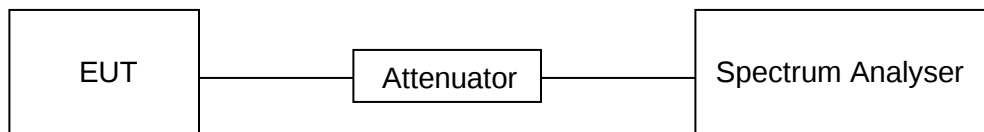
LIMITS

None; for reporting purposes only

PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 21.6V

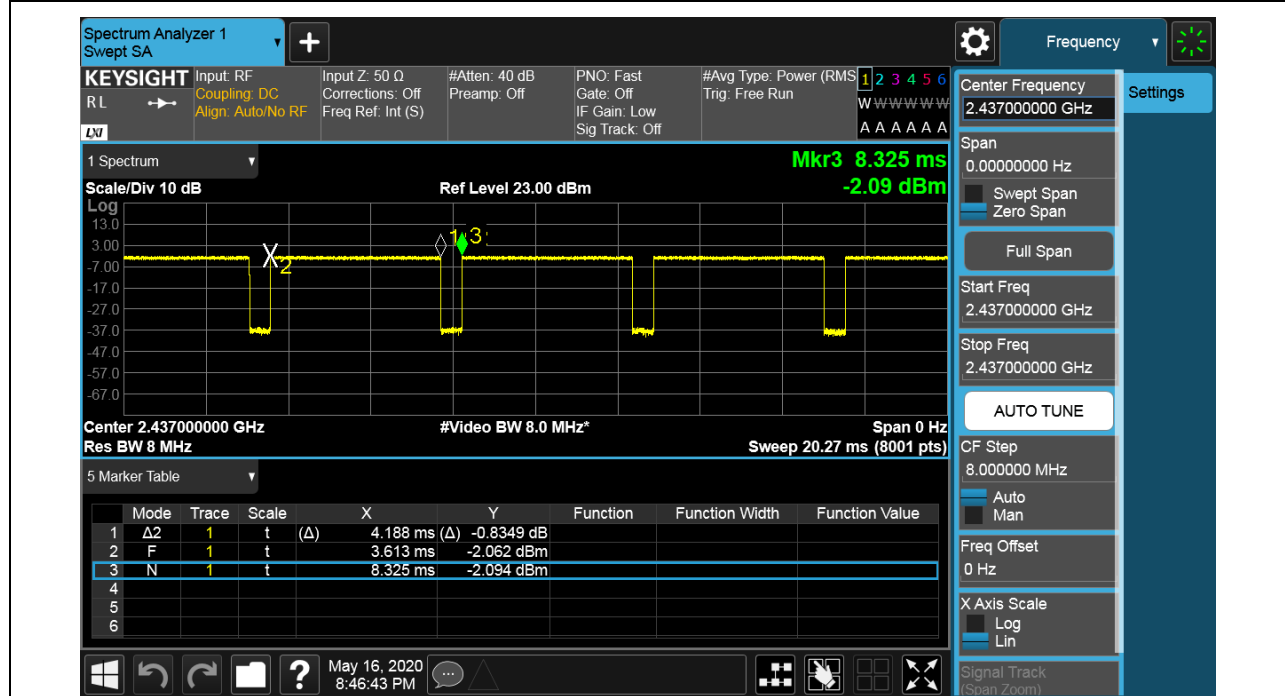
RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (KHz)	Final VBW (kHz)
11B	4.188	4.712	0.889	88.9	0.51	0.24	1
11G	0.6906	0.7951	0.869	86.9	0.61	1.45	2
11N HT20	0.655	0.76	0.862	86.2	0.64	1.53	2

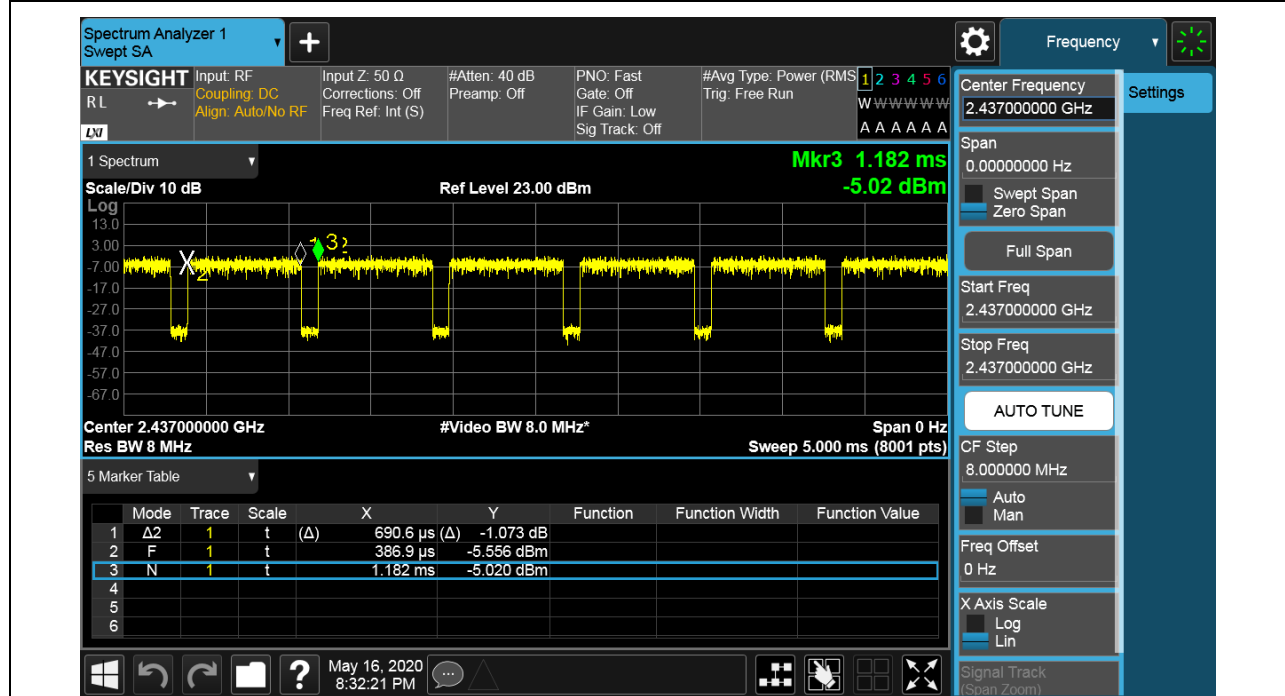
Note: 1) Duty Cycle Correction Factor= $10\log(1/x)$.
2) Where: x is Duty Cycle (Linear)
3) Where: T is On Time (transmit duration)

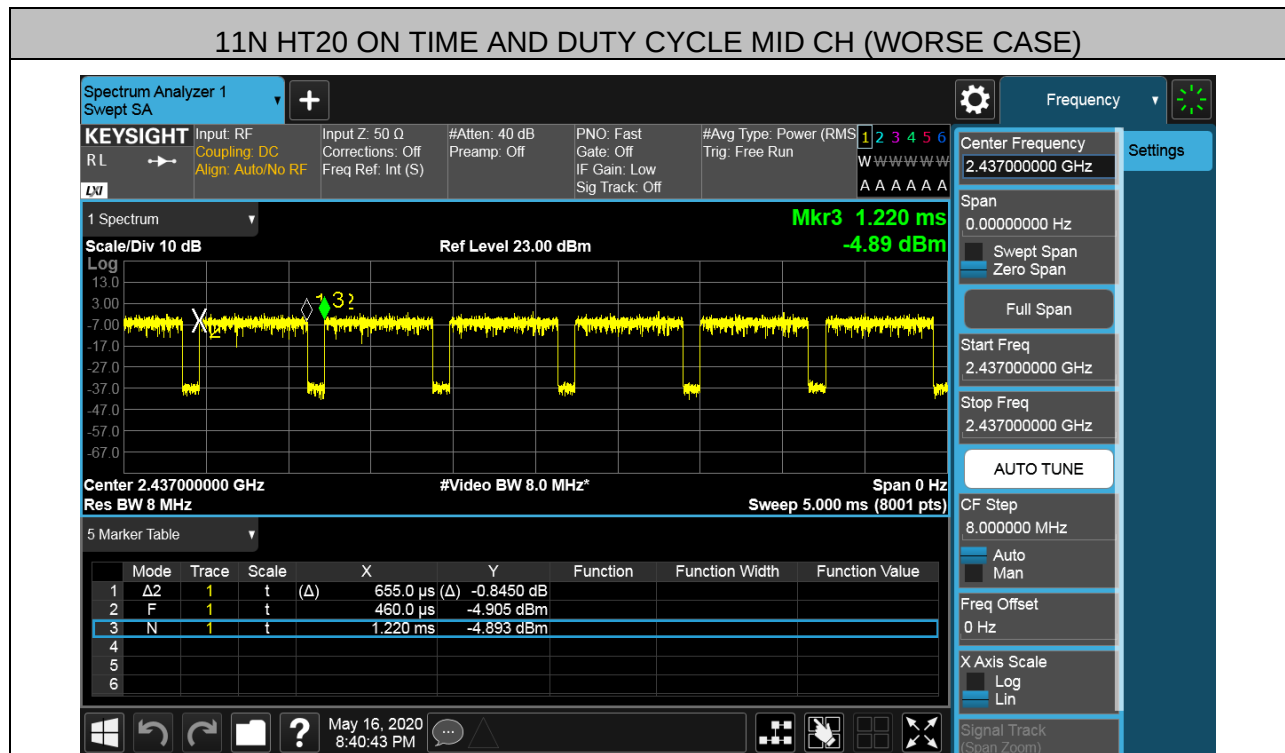


11B ON TIME AND DUTY CYCLE MID CH (WORSE CASE)



11G ON TIME AND DUTY CYCLE MID CH (WORSE CASE)







7.2. 6 dB BANDWIDTH AND 99% BANDWIDTH

LIMITS

FCC Part15 (15.247) Subpart C, ISSED RSS-247 Issue 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(a)(2)	6dB Bandwidth	$\geq 500\text{KHz}$	2400-2483.5
ISED RSS-Gen Clause 6.7	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth :100K For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth: $\geq 3 \times \text{RBW}$ For 99% Occupied Bandwidth: $\geq \text{RBW}$
Trace	Max hold
Sweep	Auto couple

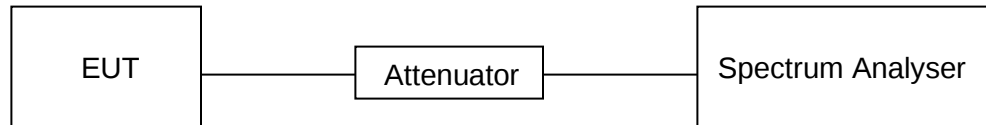
Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 21.6V

TEST SETUP

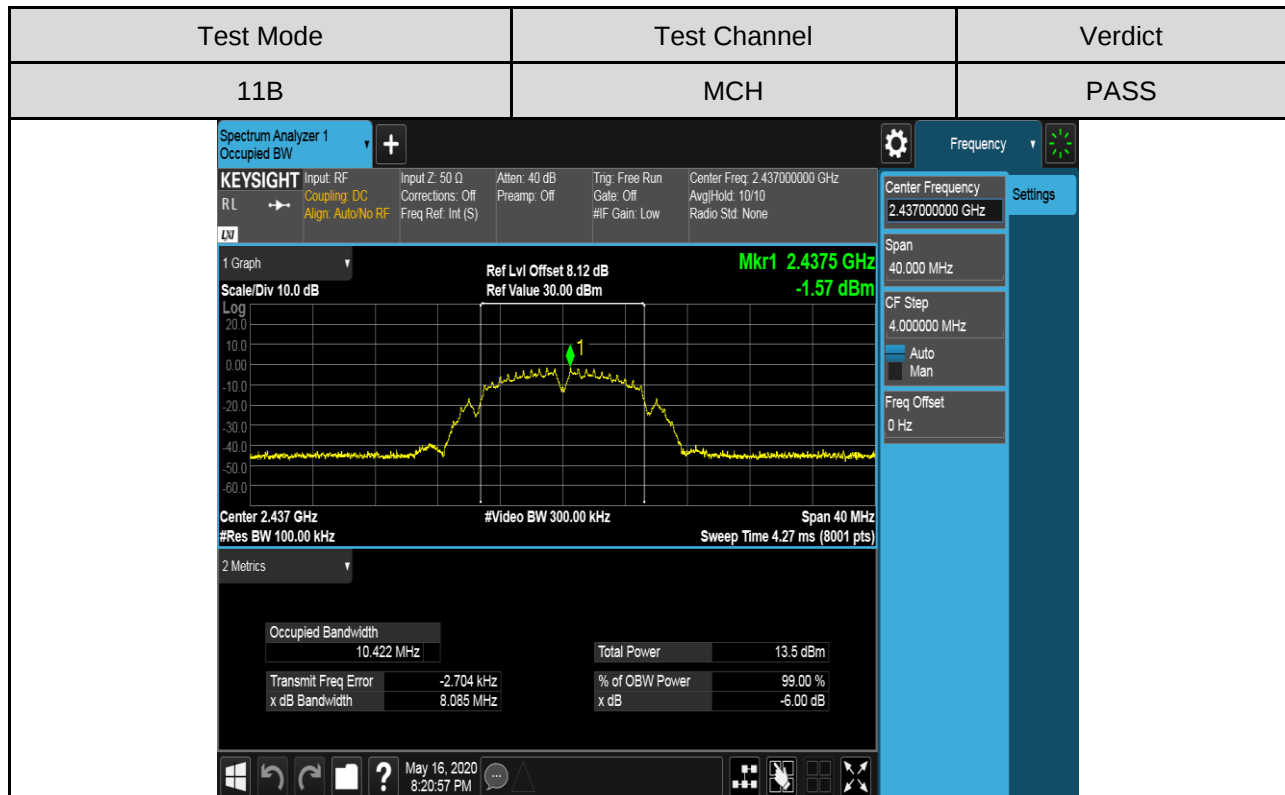
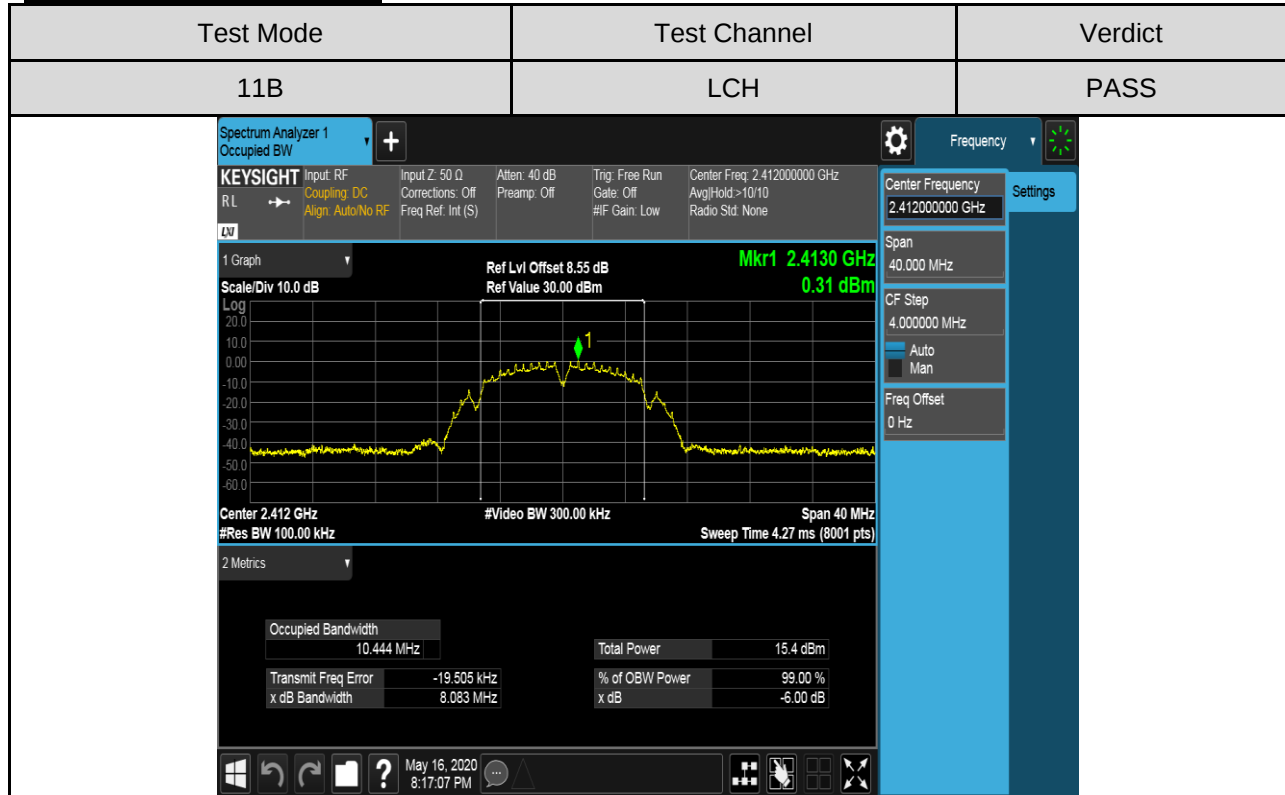


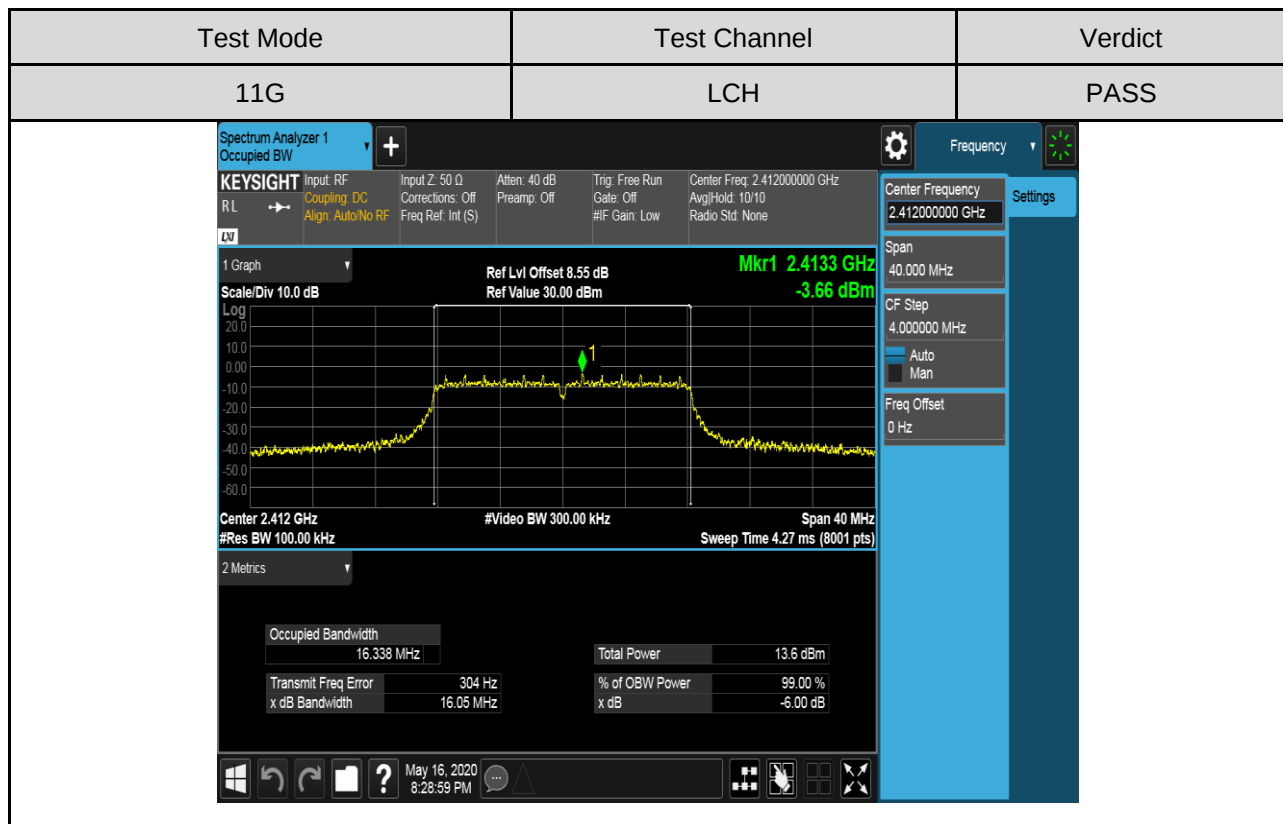
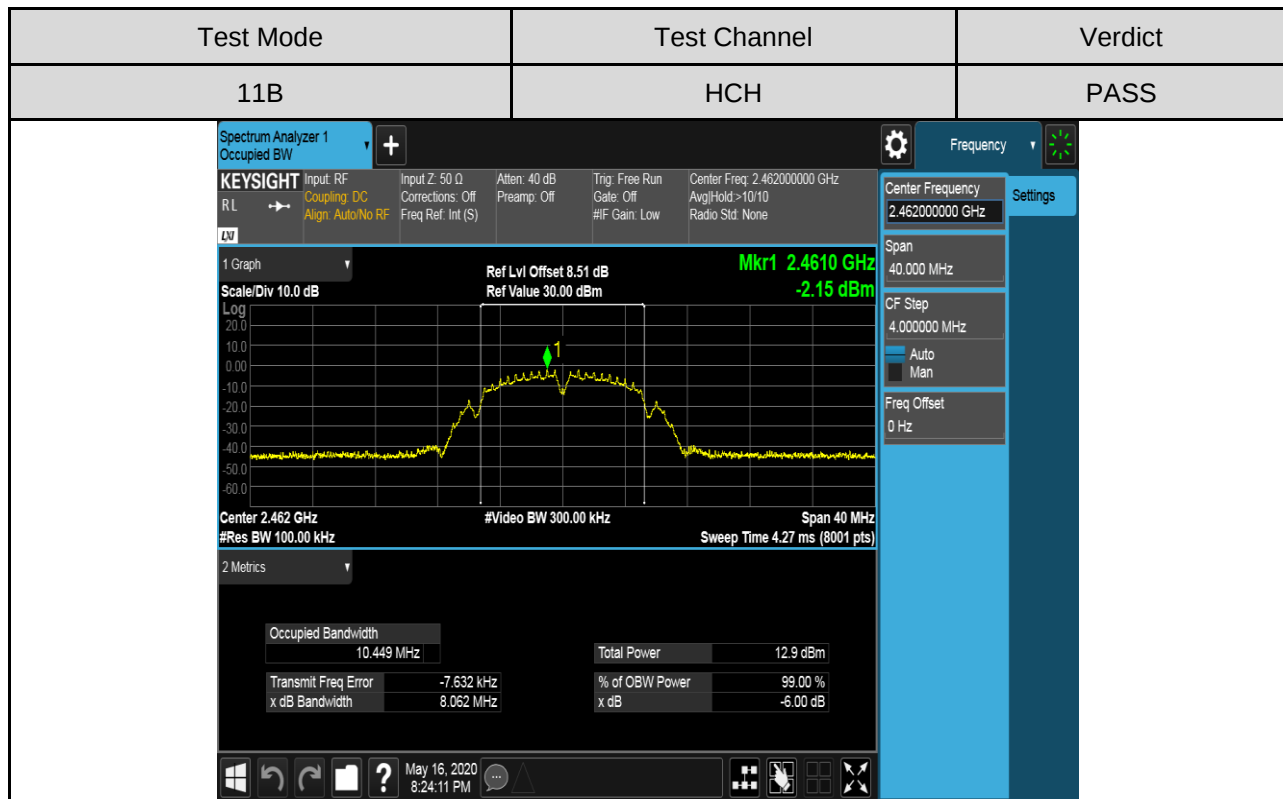
RESULTS TABLE

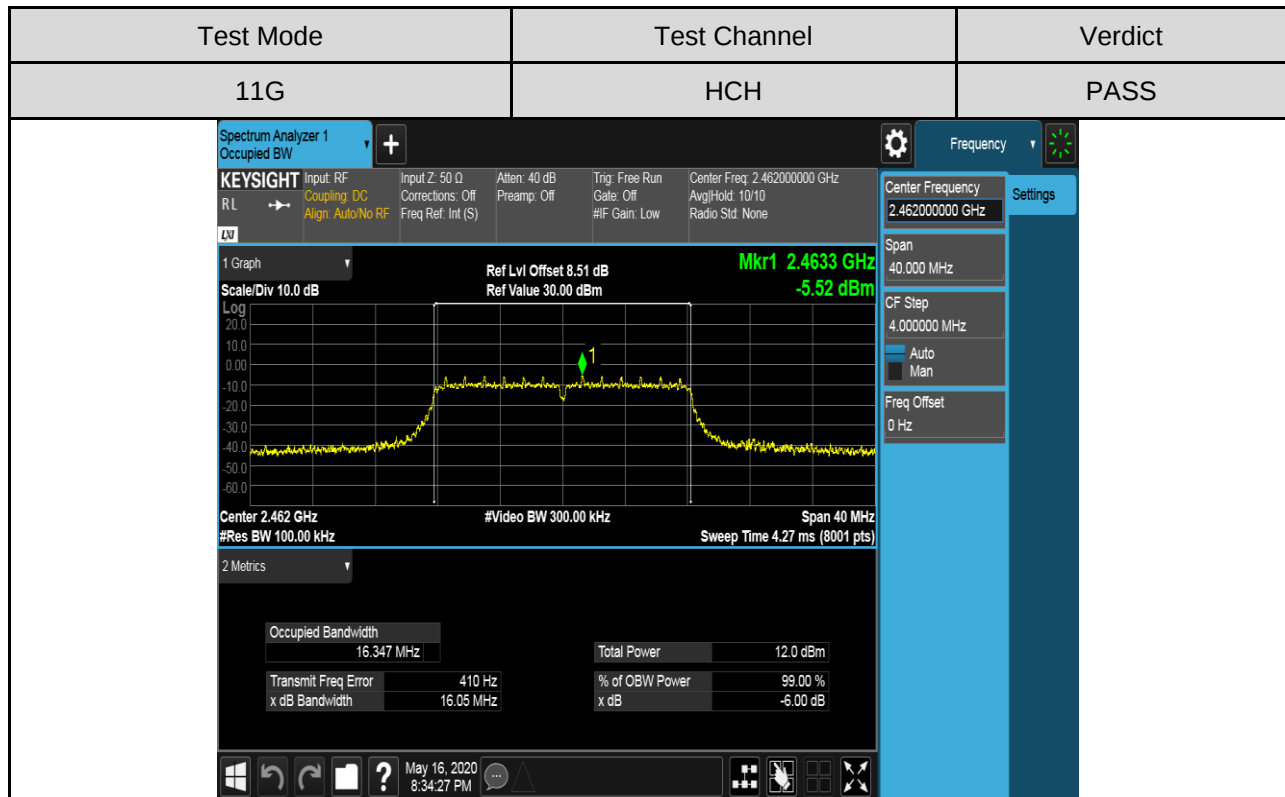
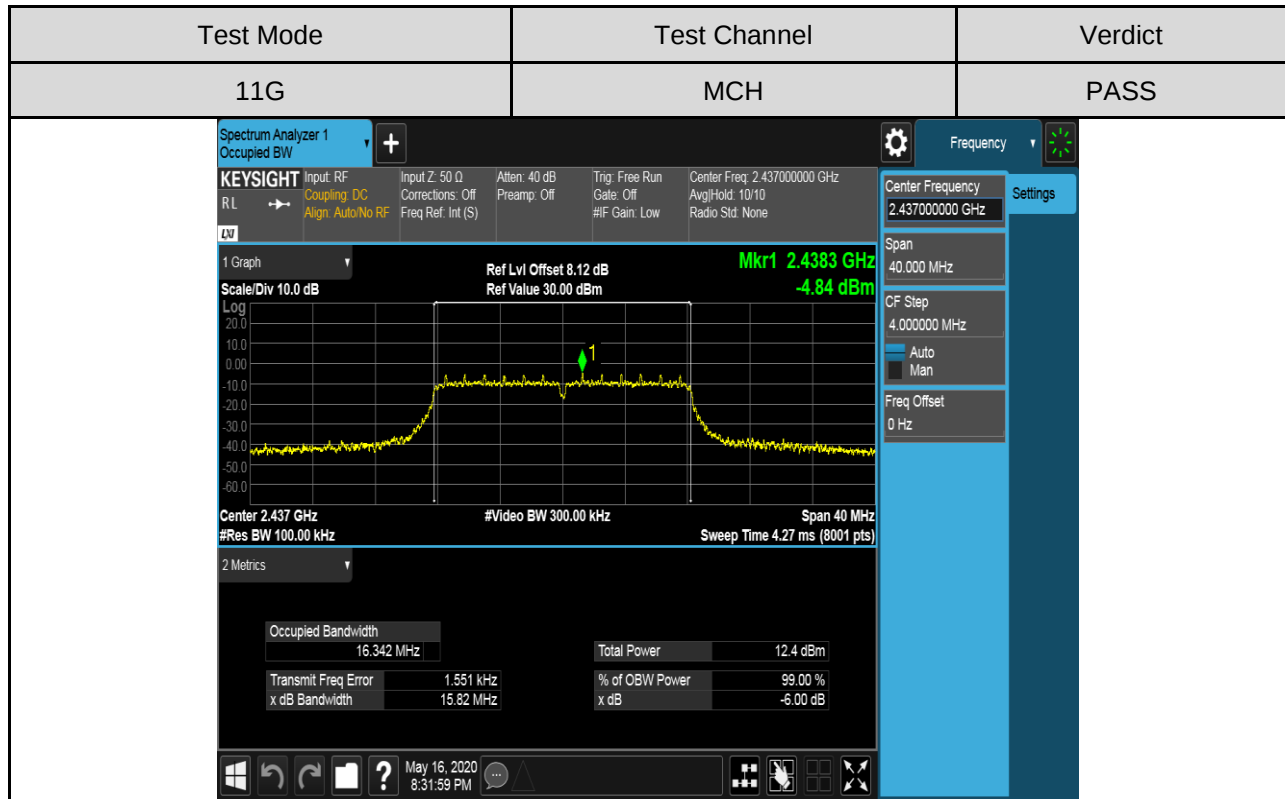
Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Verdict
11B	LCH	8.083	10.541	PASS
11B	MCH	8.085	10.547	PASS
11B	HCH	8.062	10.617	PASS
11G	LCH	16.05	16.413	PASS
11G	MCH	15.82	16.388	PASS
11G	HCH	16.05	16.400	PASS
11N HT20	LCH	16.56	17.381	PASS
11N HT20	MCH	16.28	17.379	PASS
11N HT20	HCH	16.54	17.365	PASS

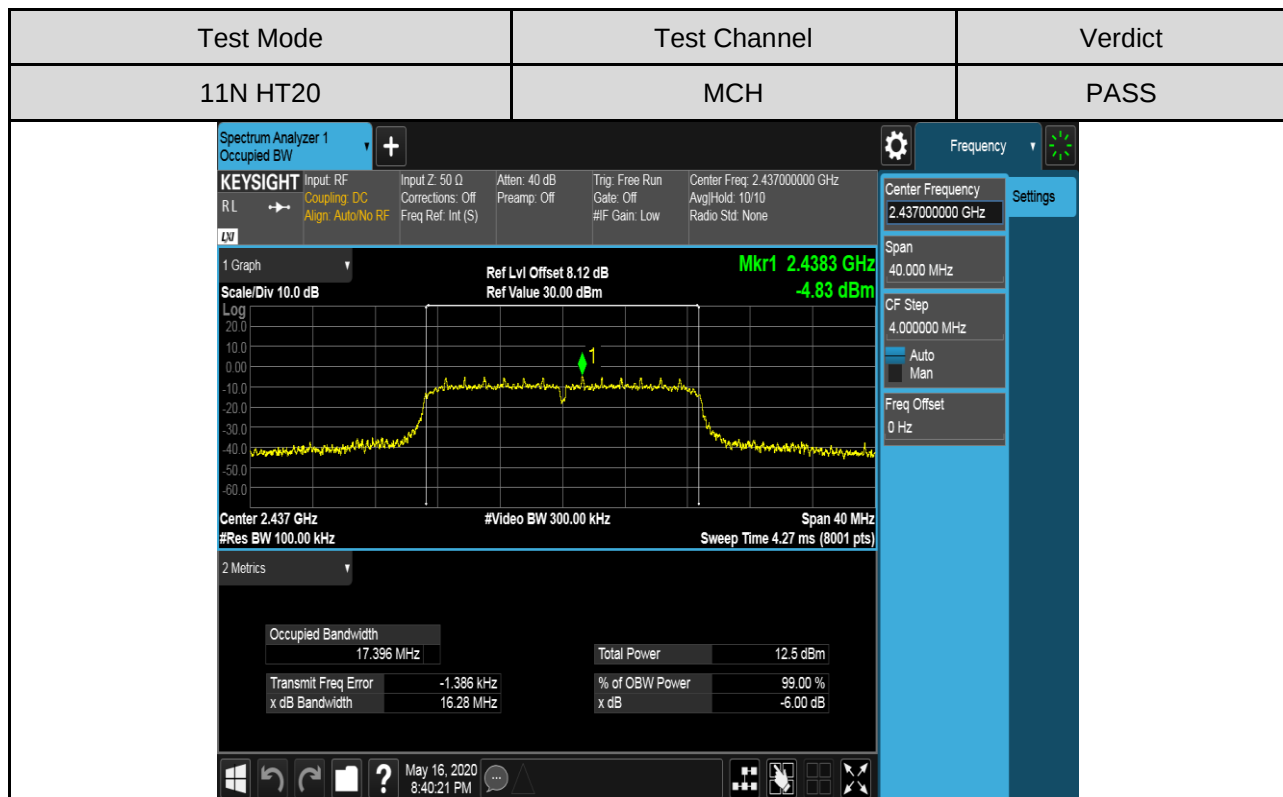
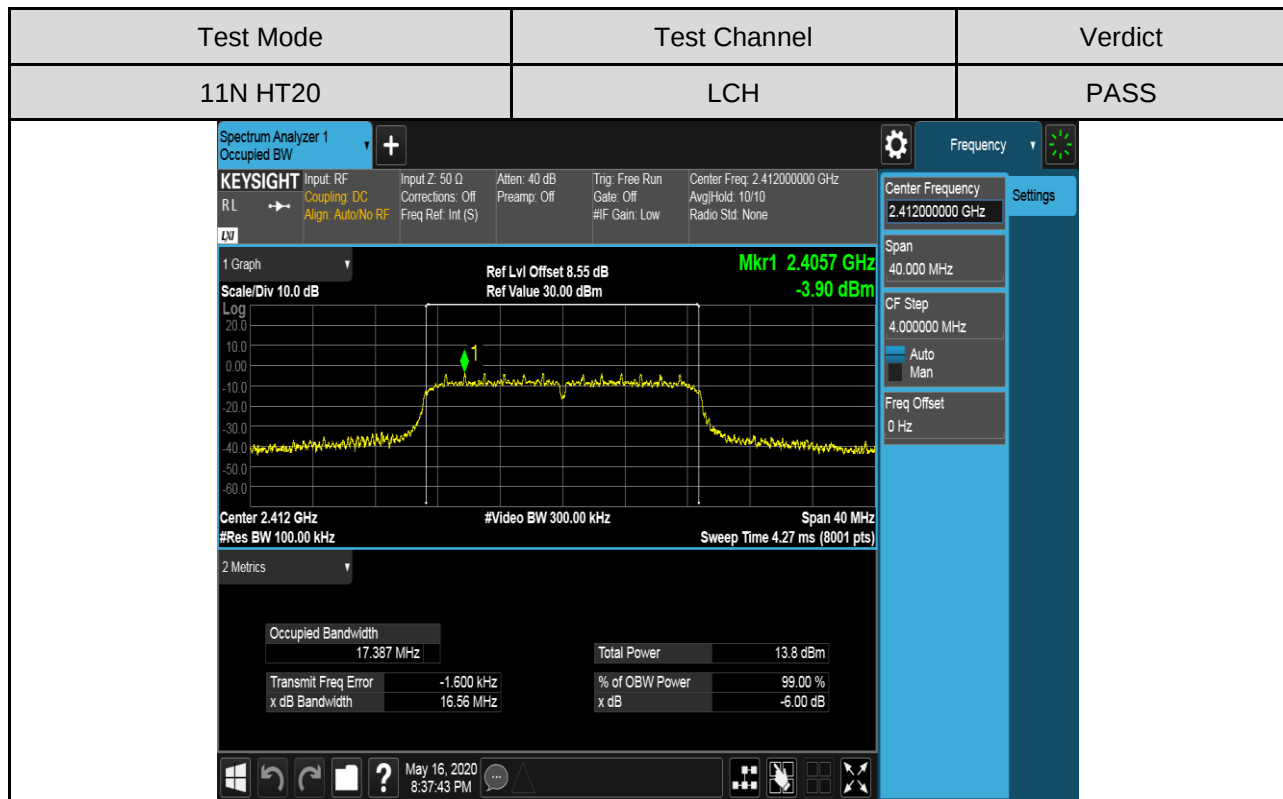


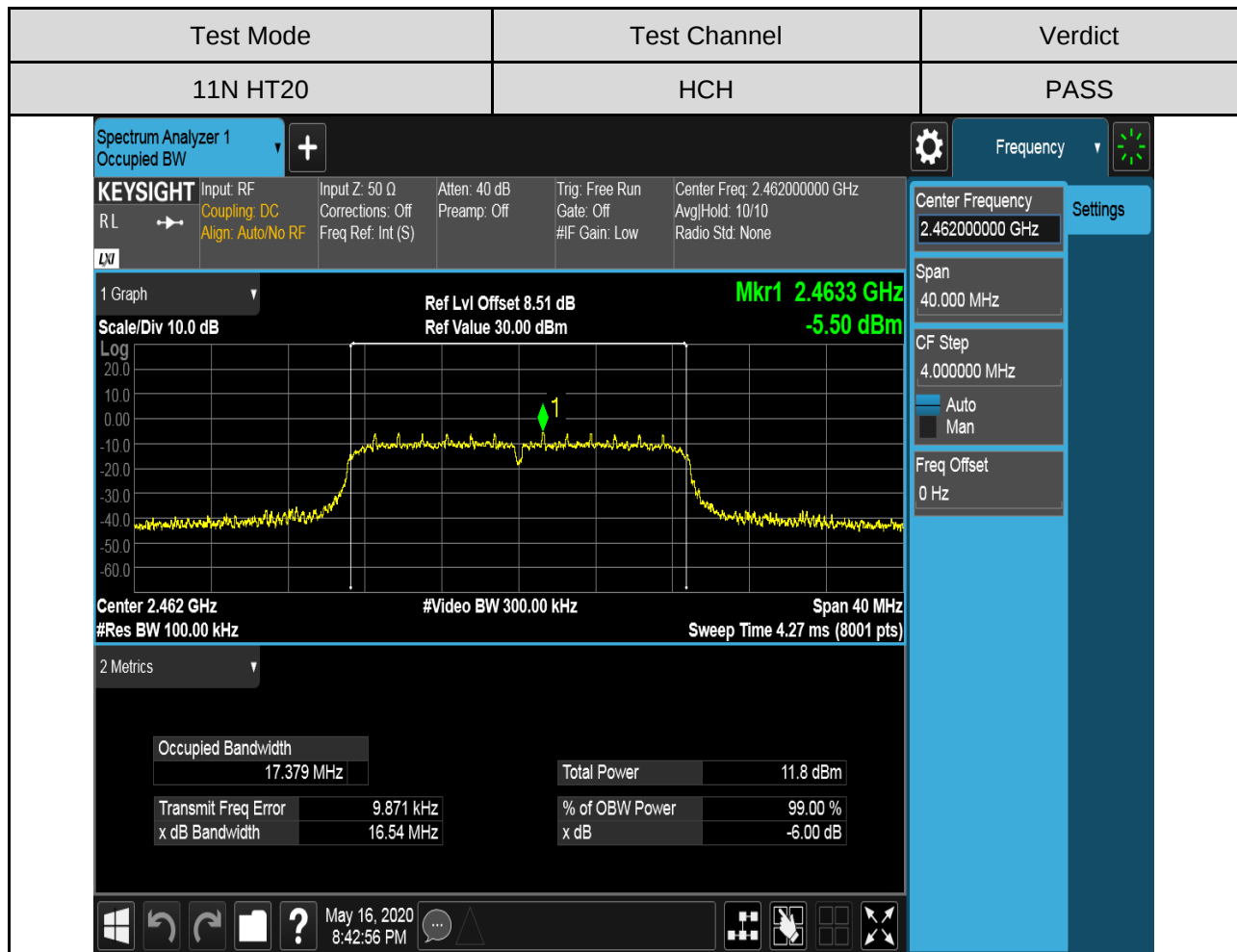
Test Graphs
Part I: For 6dB bandwidth





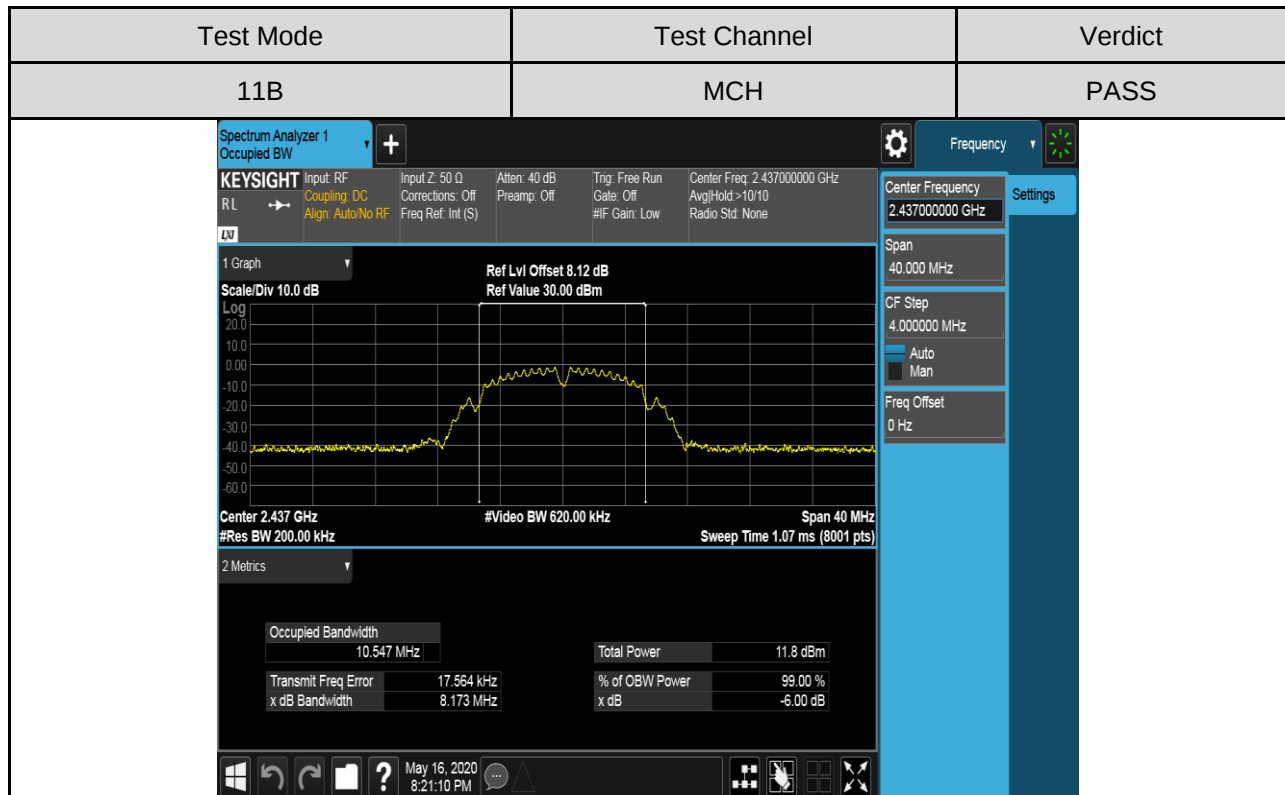
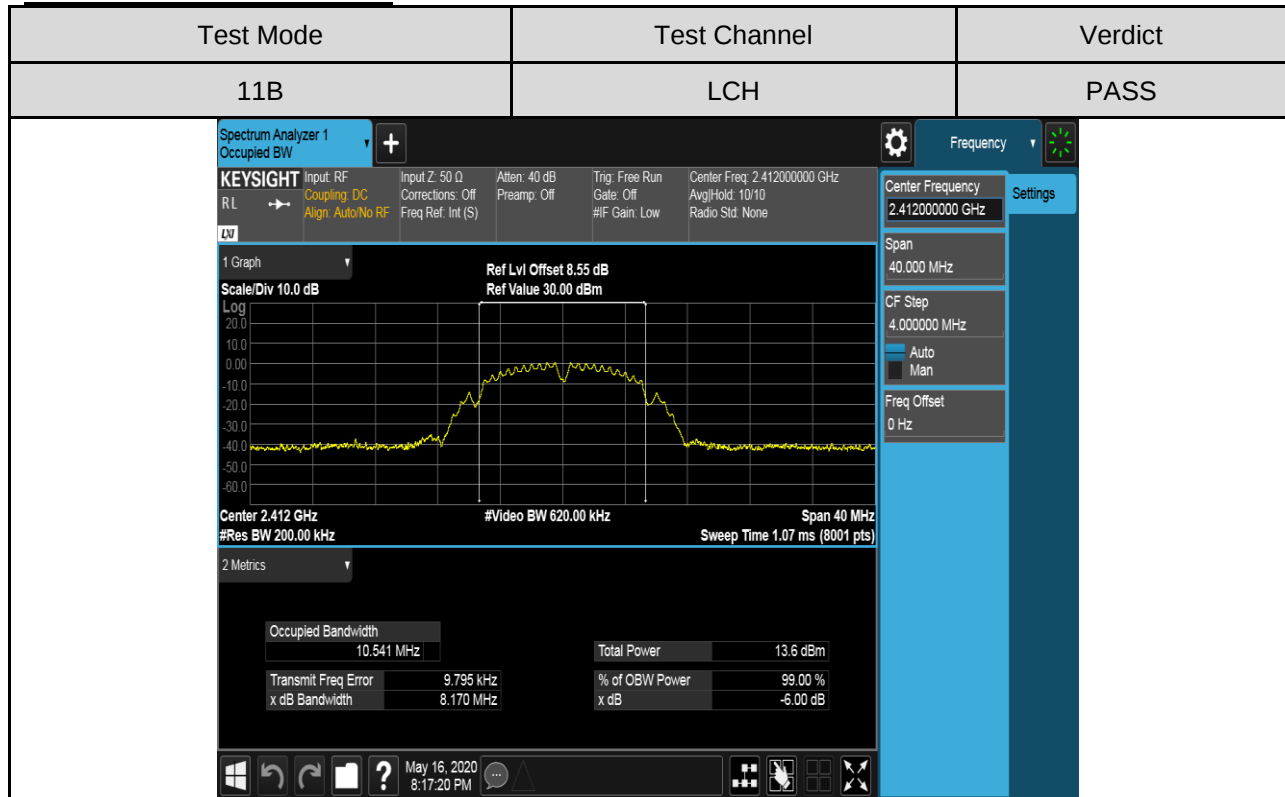


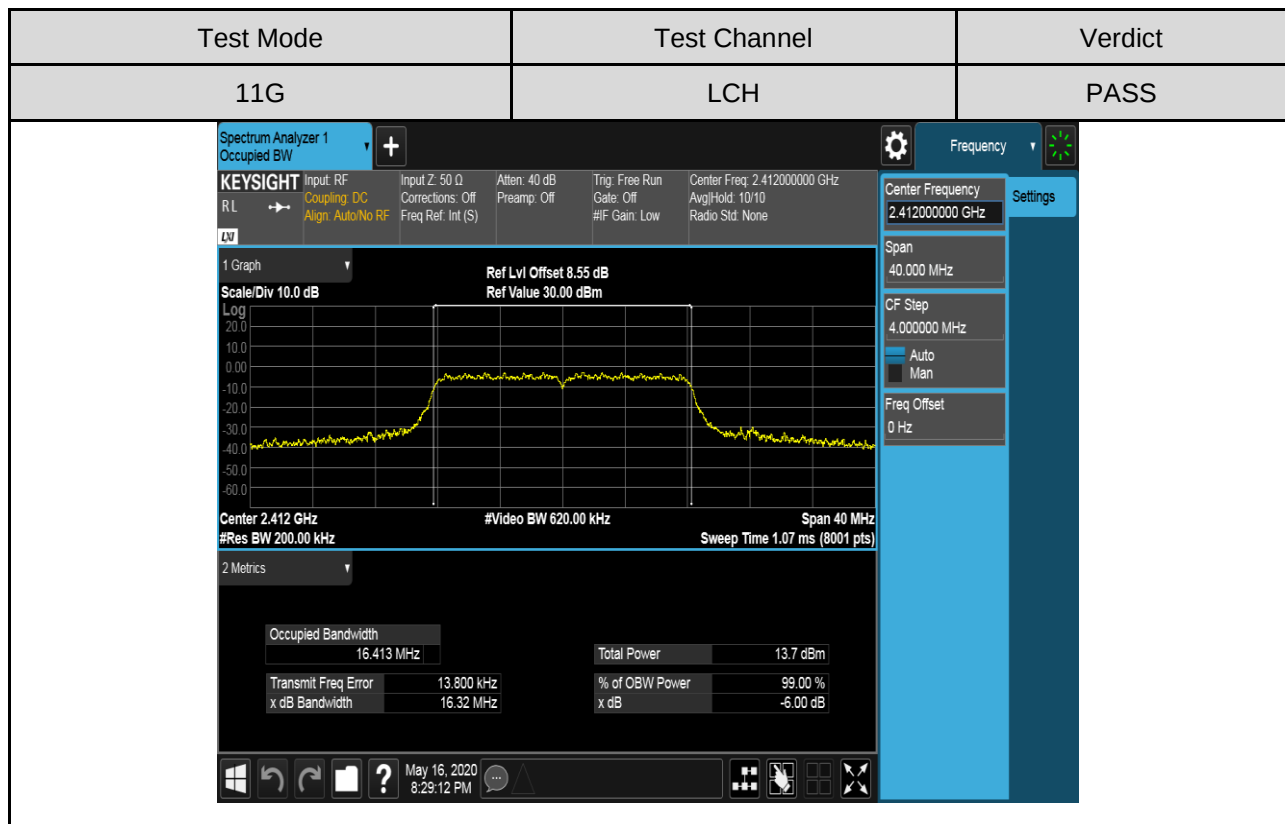
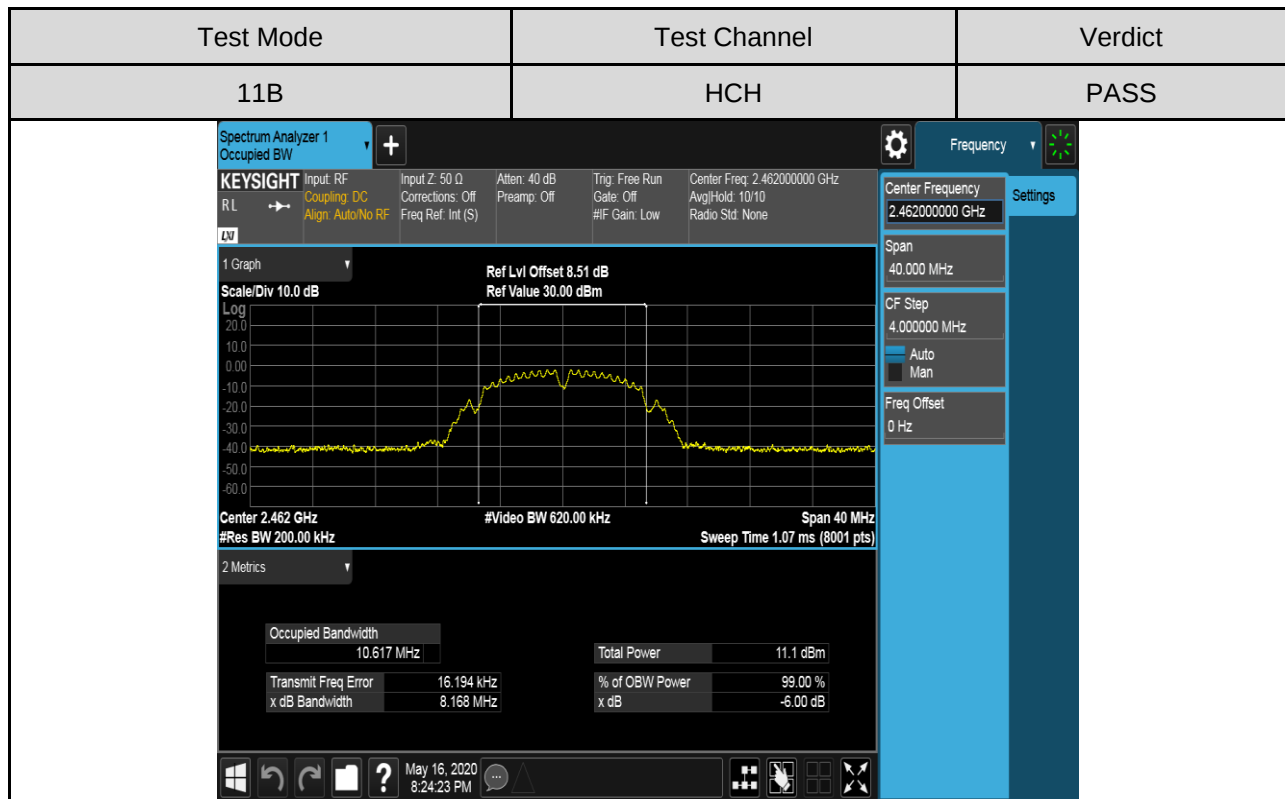


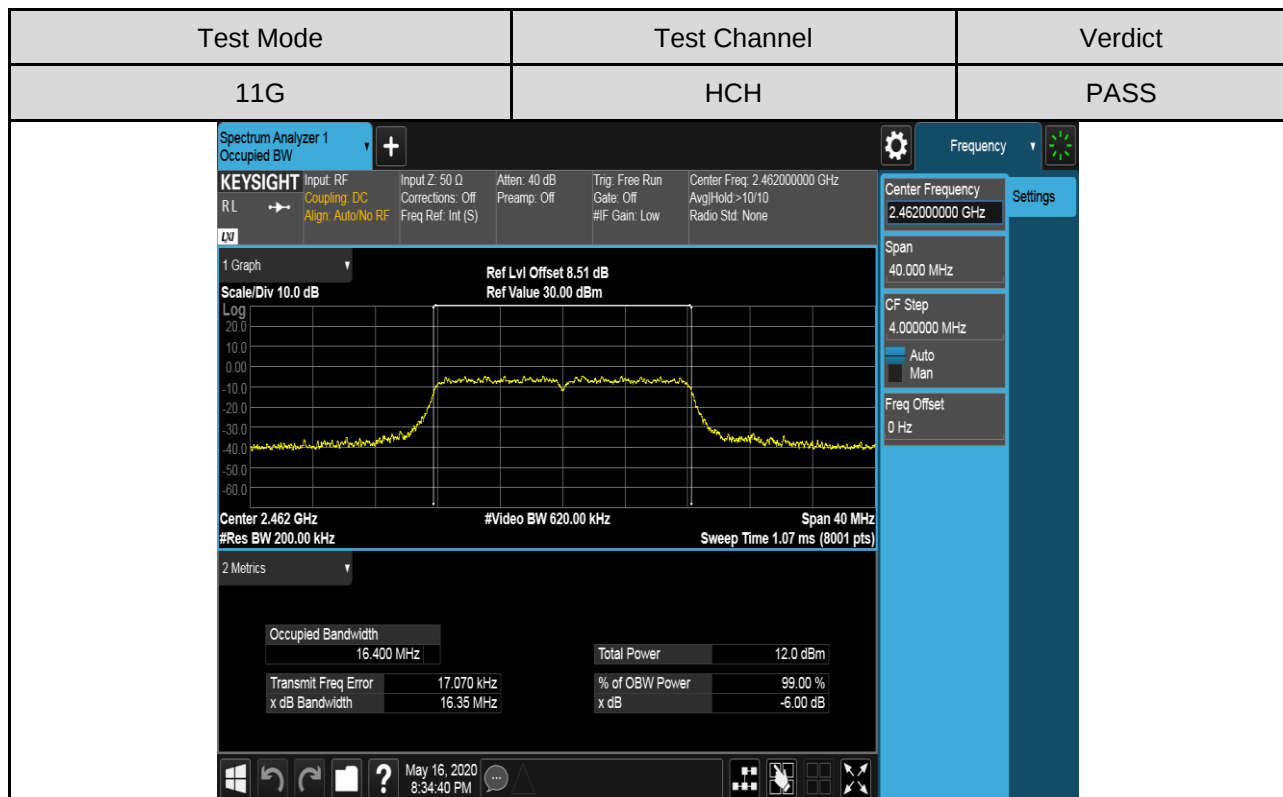
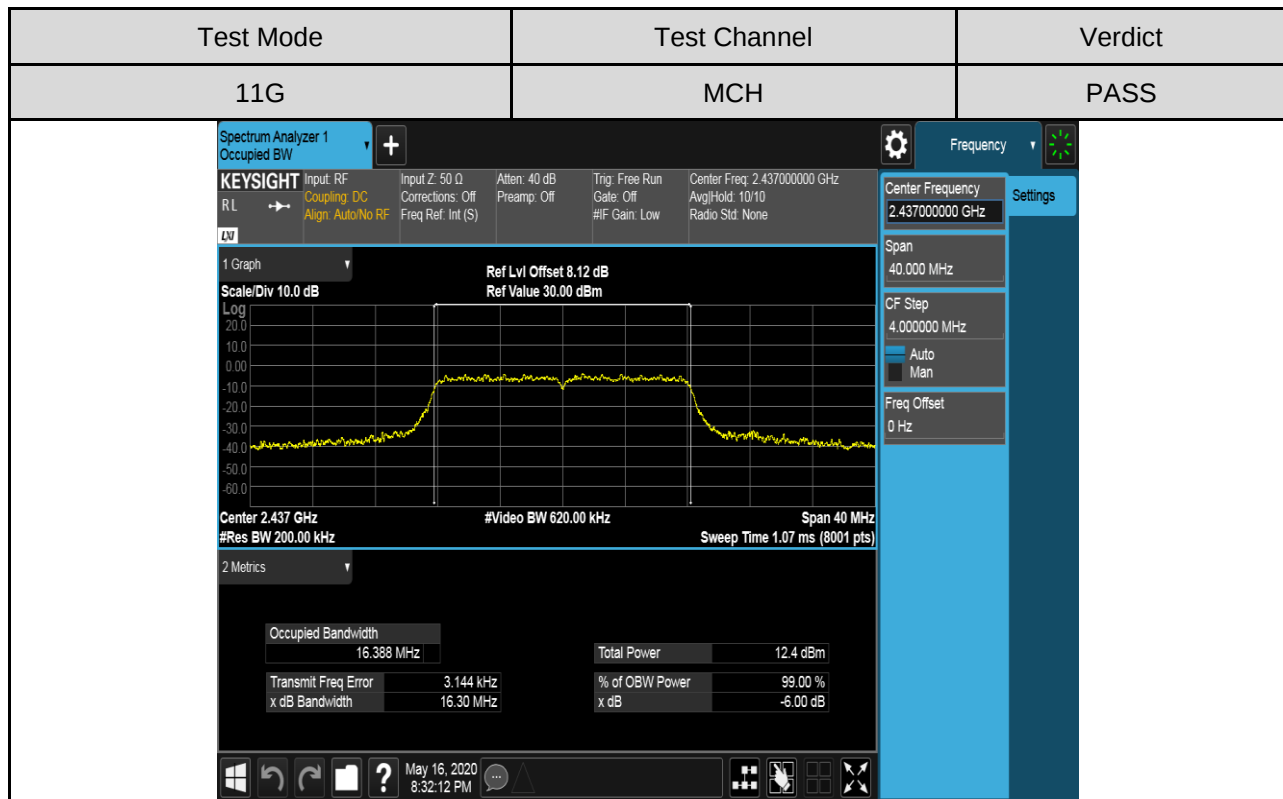


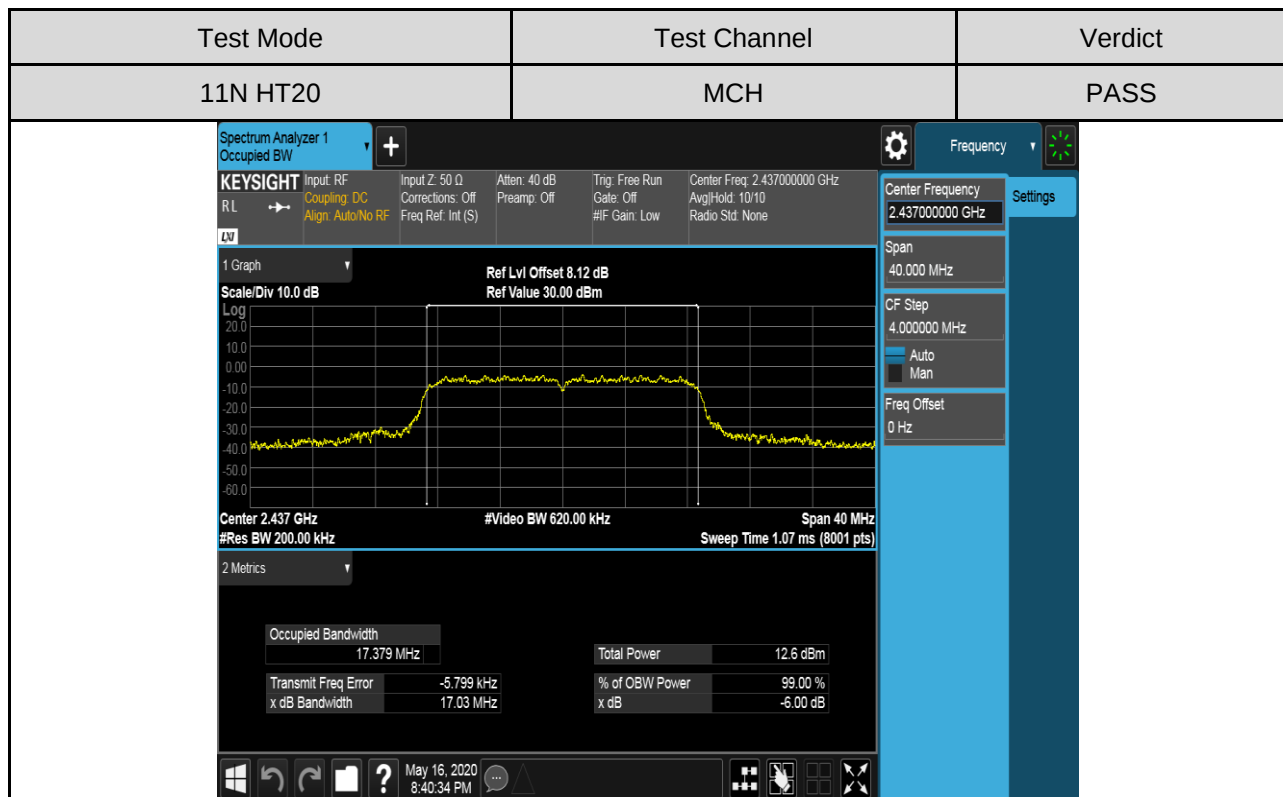
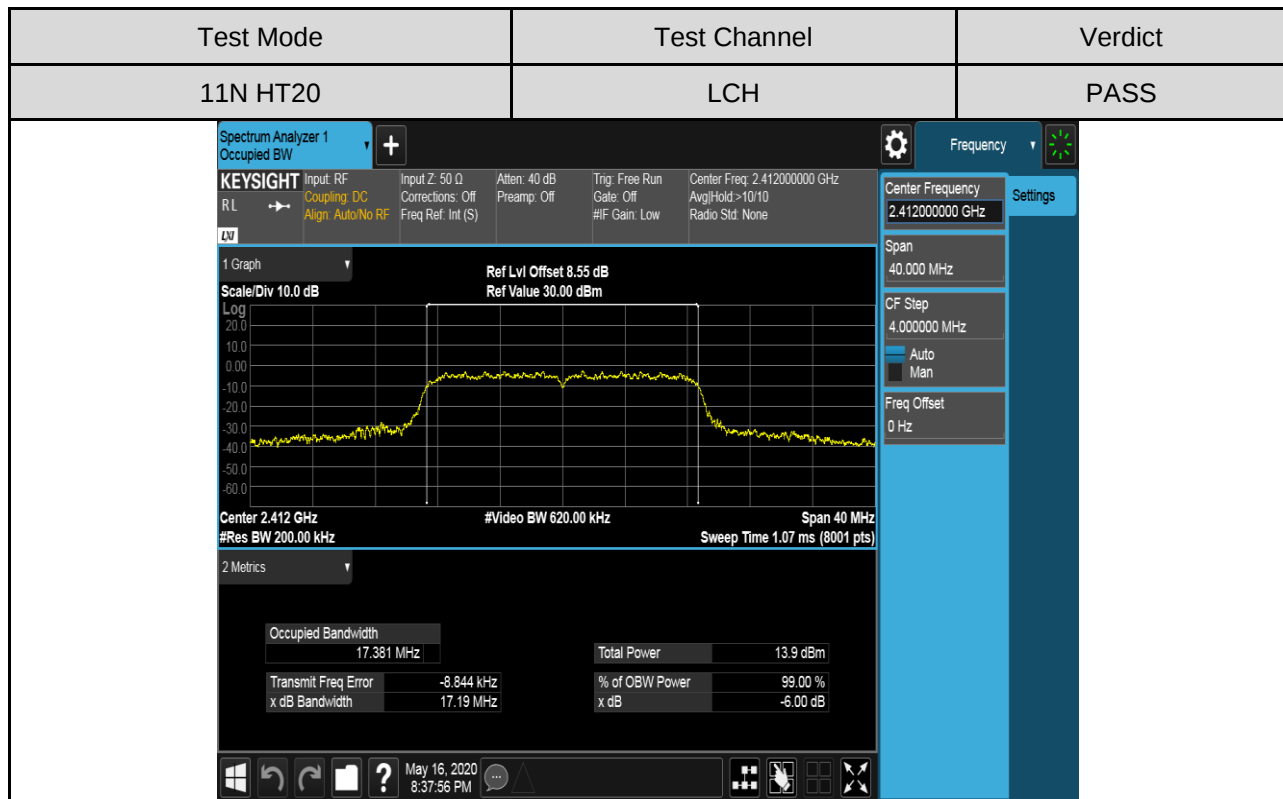


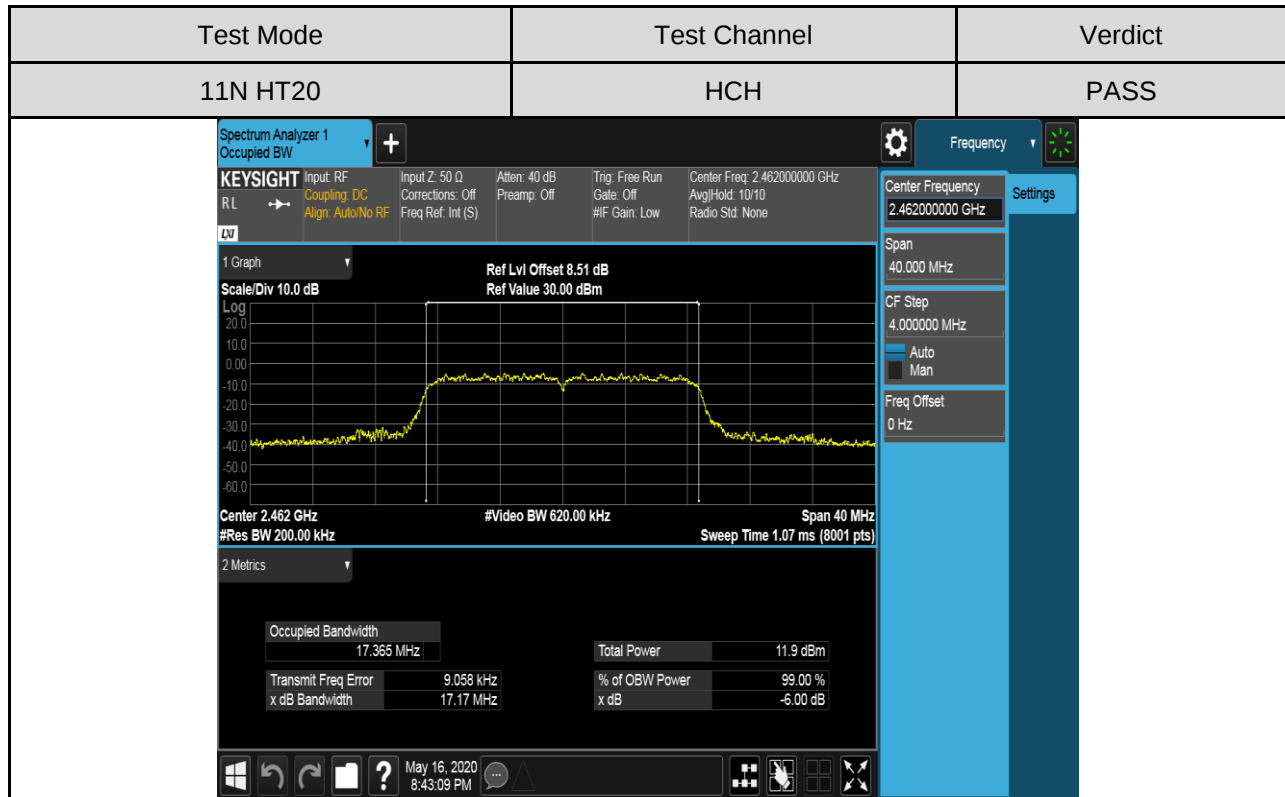
Part II: For 99% bandwidth













7.3. CONDUCTED OUTPUT POWER

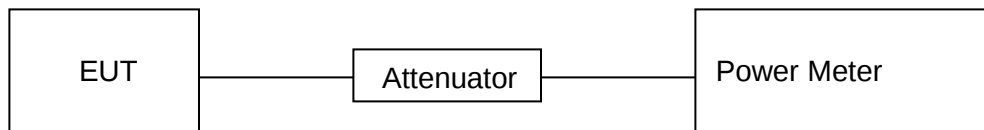
LIMITS

FCC Part15 (15.247) Subpart C, ISSED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3) ISSED RSS-247 5.4 (d) RSS-Gen Clause 6.12	Output Power	1 watt or 30dBm	2400-2483.5

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.
Measure the power of each channel.
Peak Detector use for Peak result.
AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 21.6V



RESULTS

Maximum Conducted Output Power(dBm)

Test Mode	Test Channel	Maximum Conducted Output Power (PK)	Maximum Conducted Output Power (AV)	LIMIT
		dBm	dBm	dBm
11B	LCH	10.78	7.94	30
	MCH	9.37	6.55	30
	HCH	8.44	5.78	30
11G	LCH	14.93	7.17	30
	MCH	13.70	5.97	30
	HCH	13.23	5.45	30
11n HT20	LCH	14.87	7.09	30
	MCH	13.60	5.88	30
	HCH	12.96	5.16	30



7.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15 (15.247) Subpart C, ISSED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 (e) ISSED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

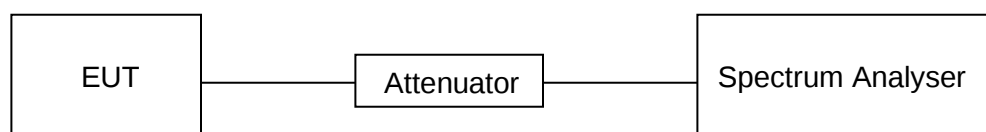
Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 21.6V

TEST SETUP



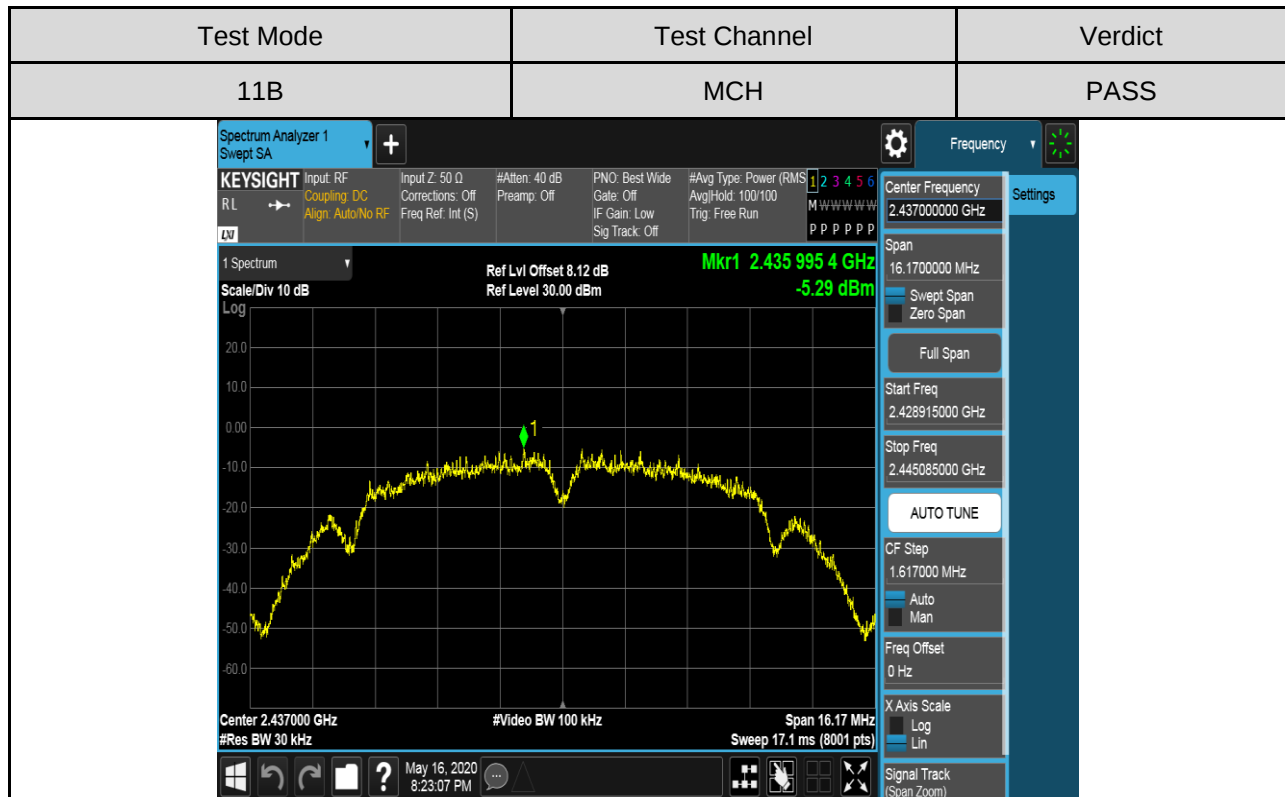
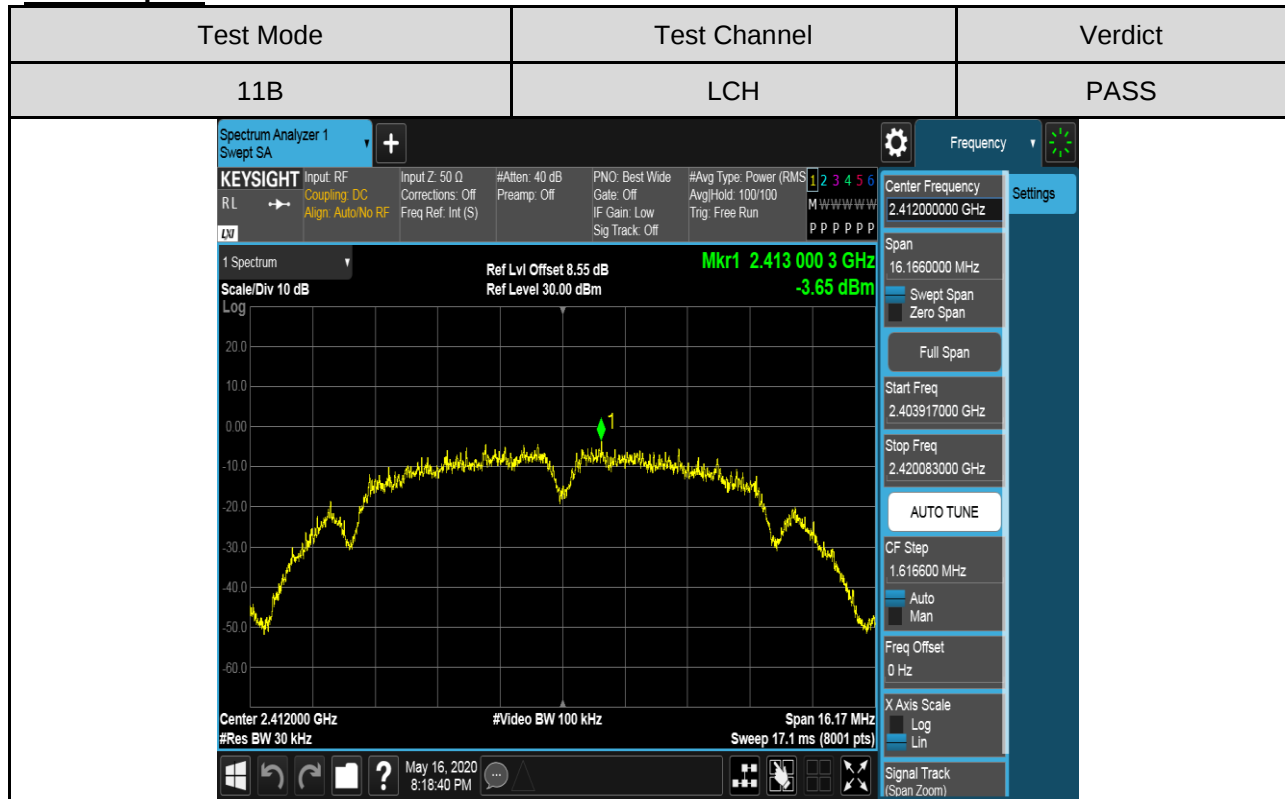


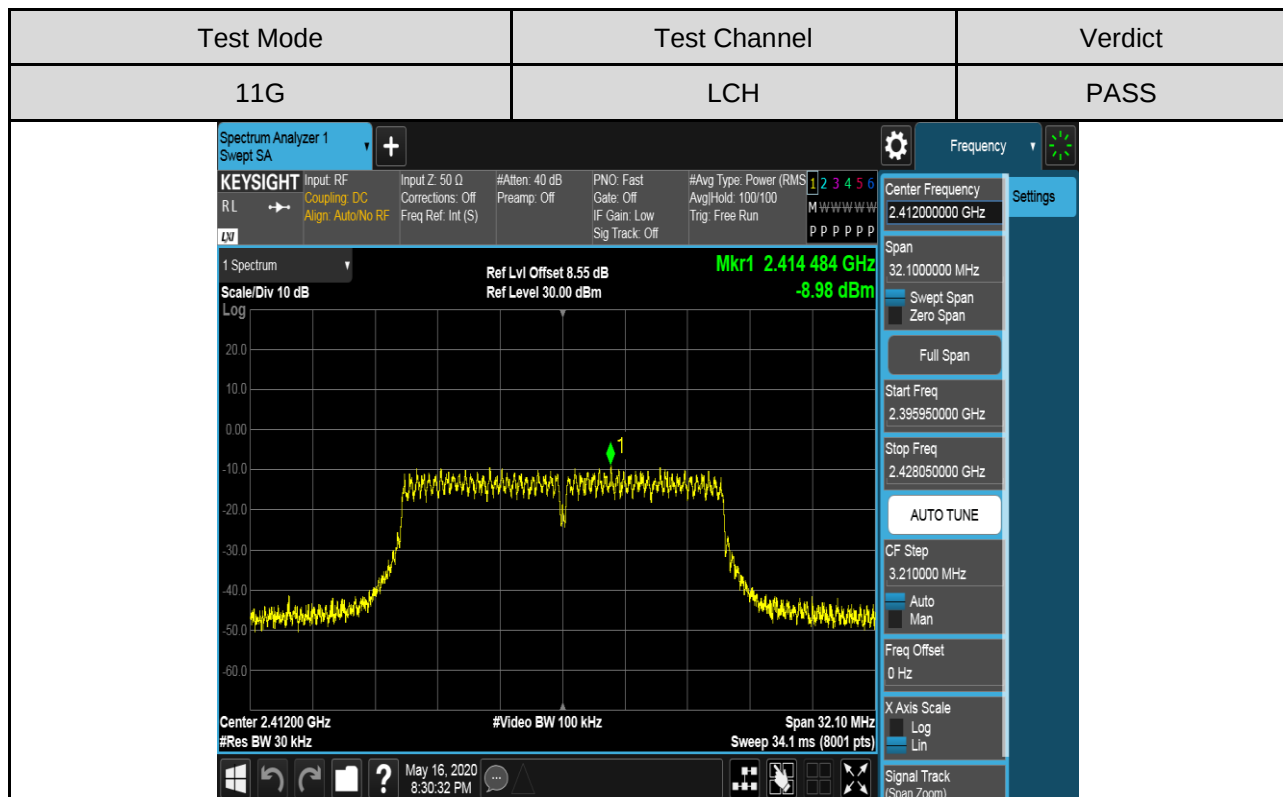
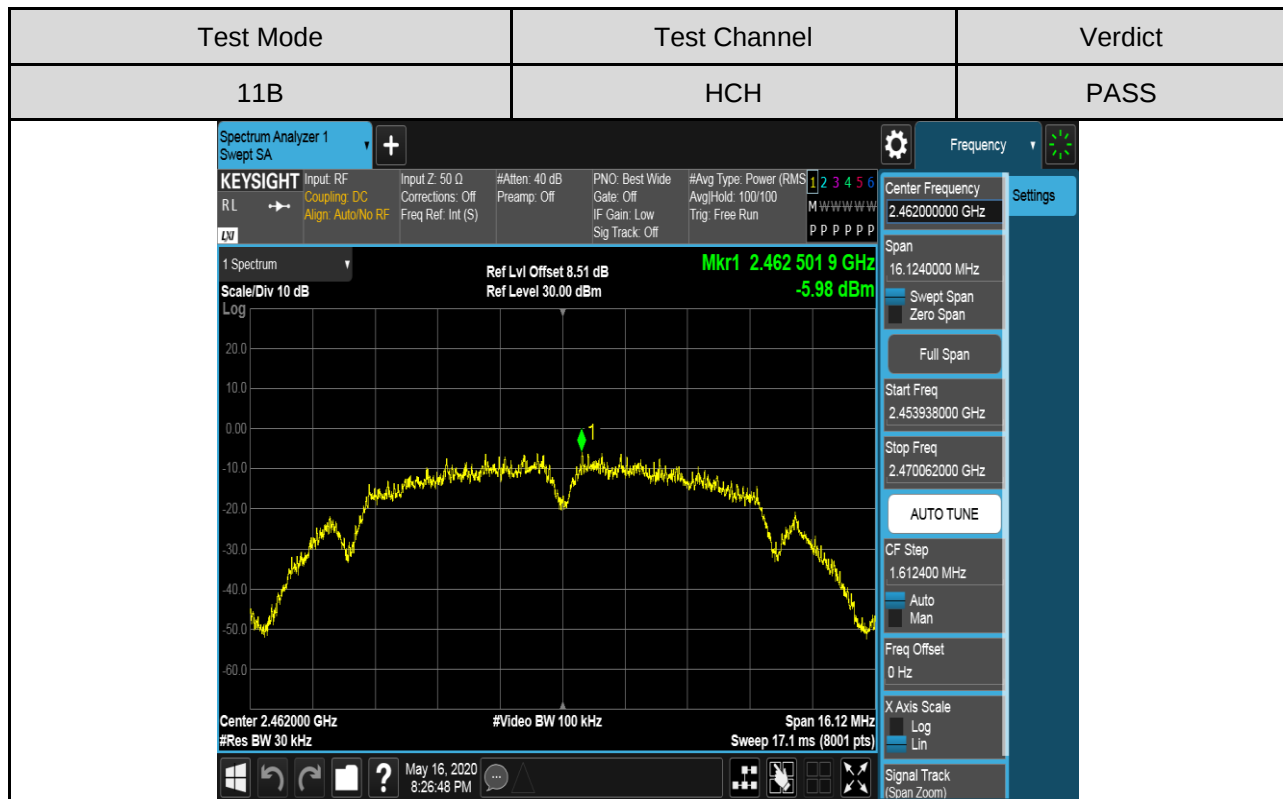
RESULTS

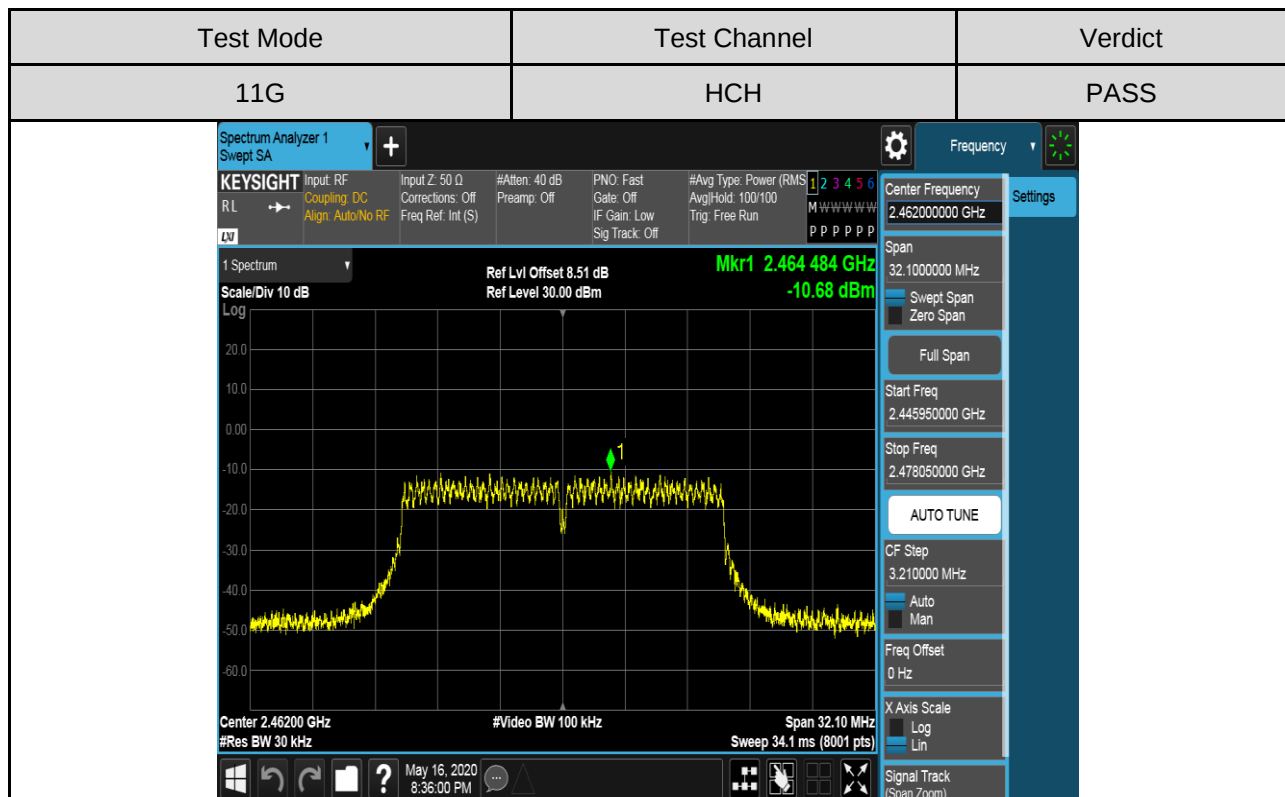
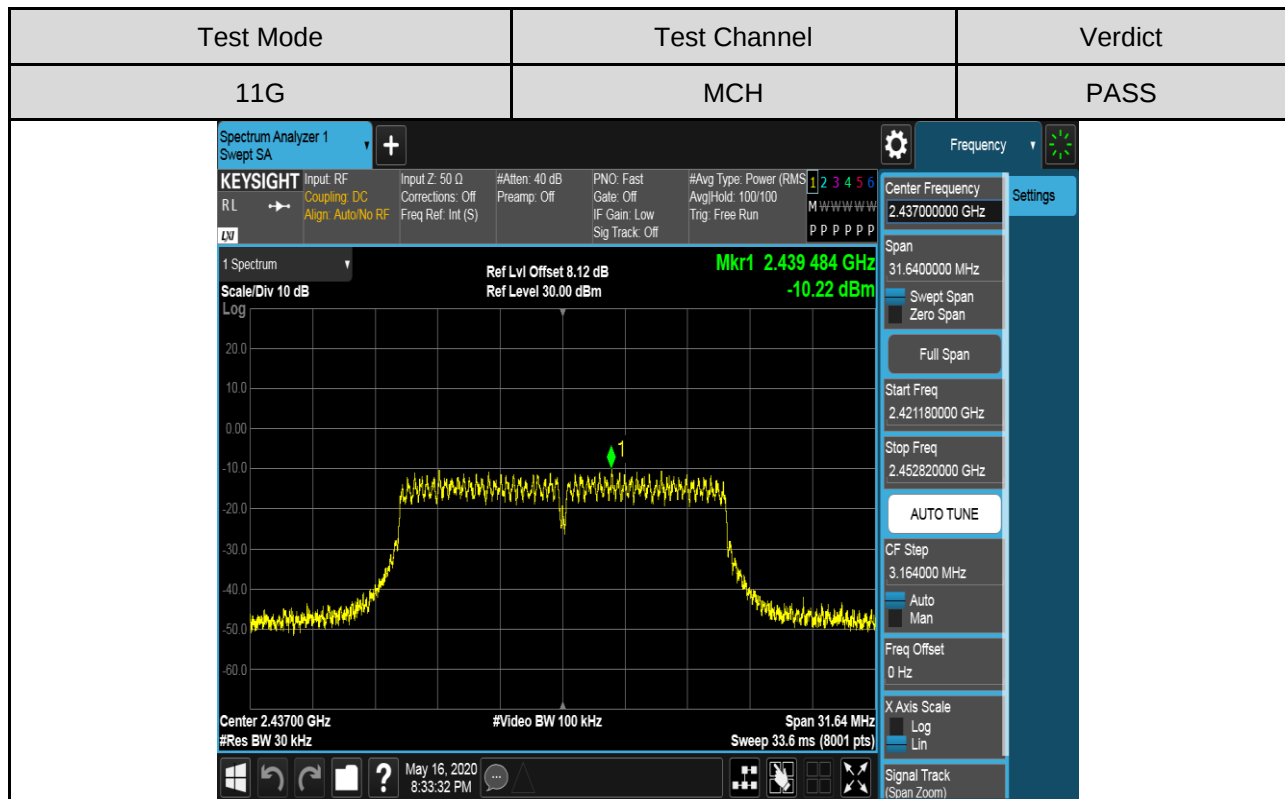
Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30KHz)	Result
11B	LCH	-3.65	Pass
	MCH	-5.29	Pass
	HCH	-5.98	Pass
11G	LCH	-8.98	Pass
	MCH	-10.22	Pass
	HCH	-10.68	Pass
11N HT20	LCH	-8.30	Pass
	MCH	-9.58	Pass
	HCH	-10.32	Pass

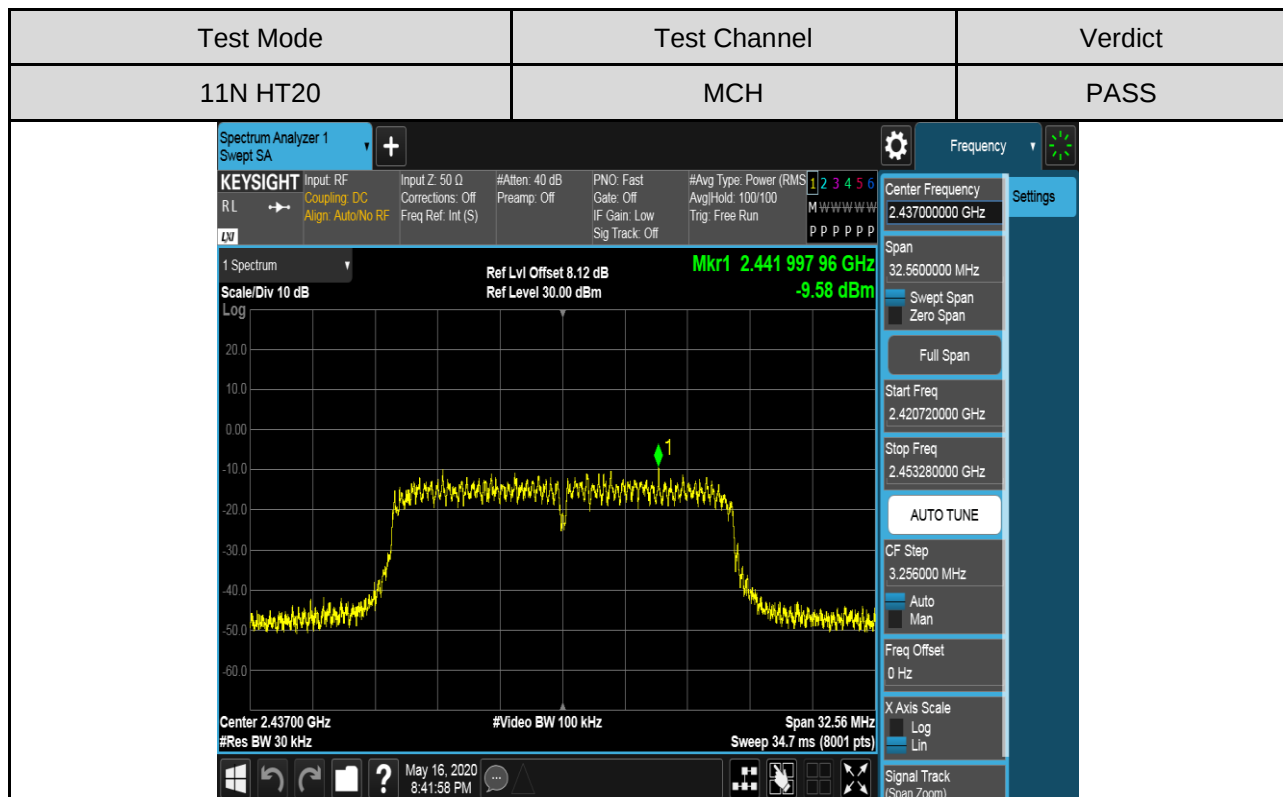
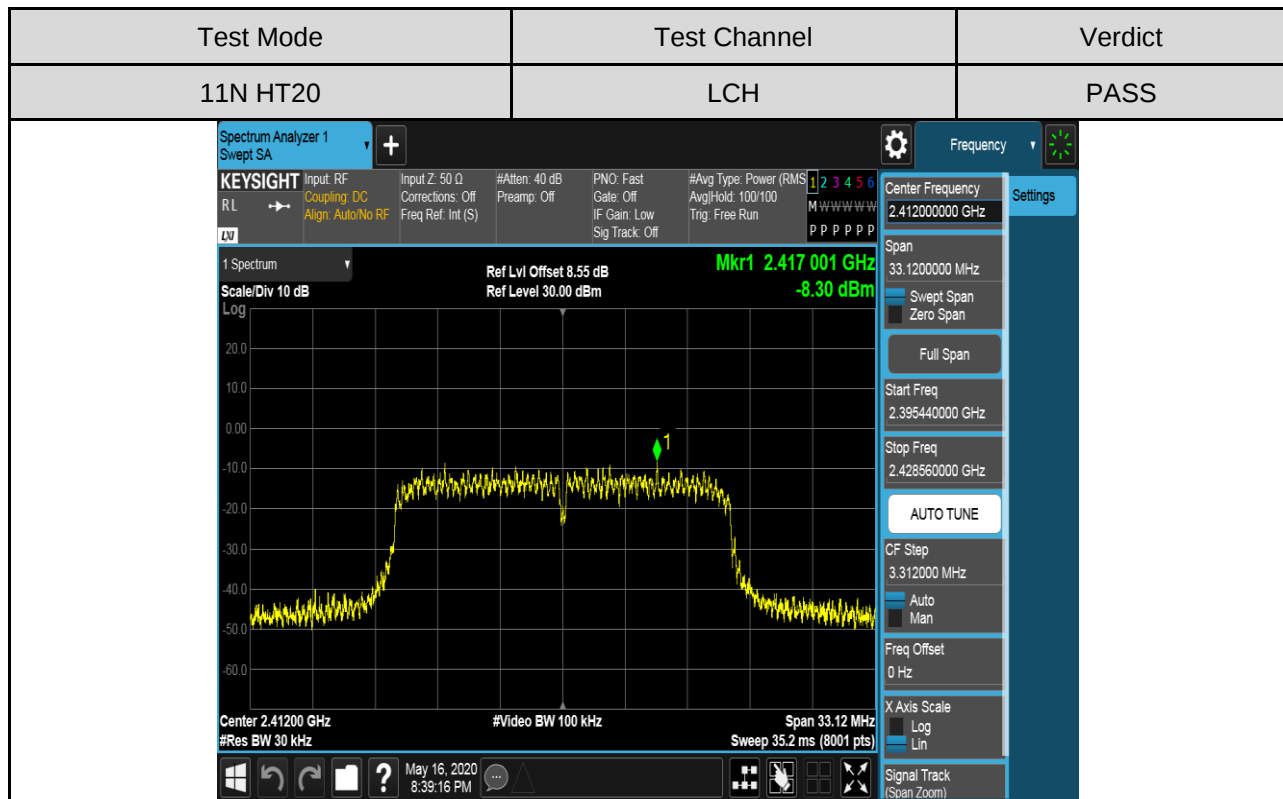


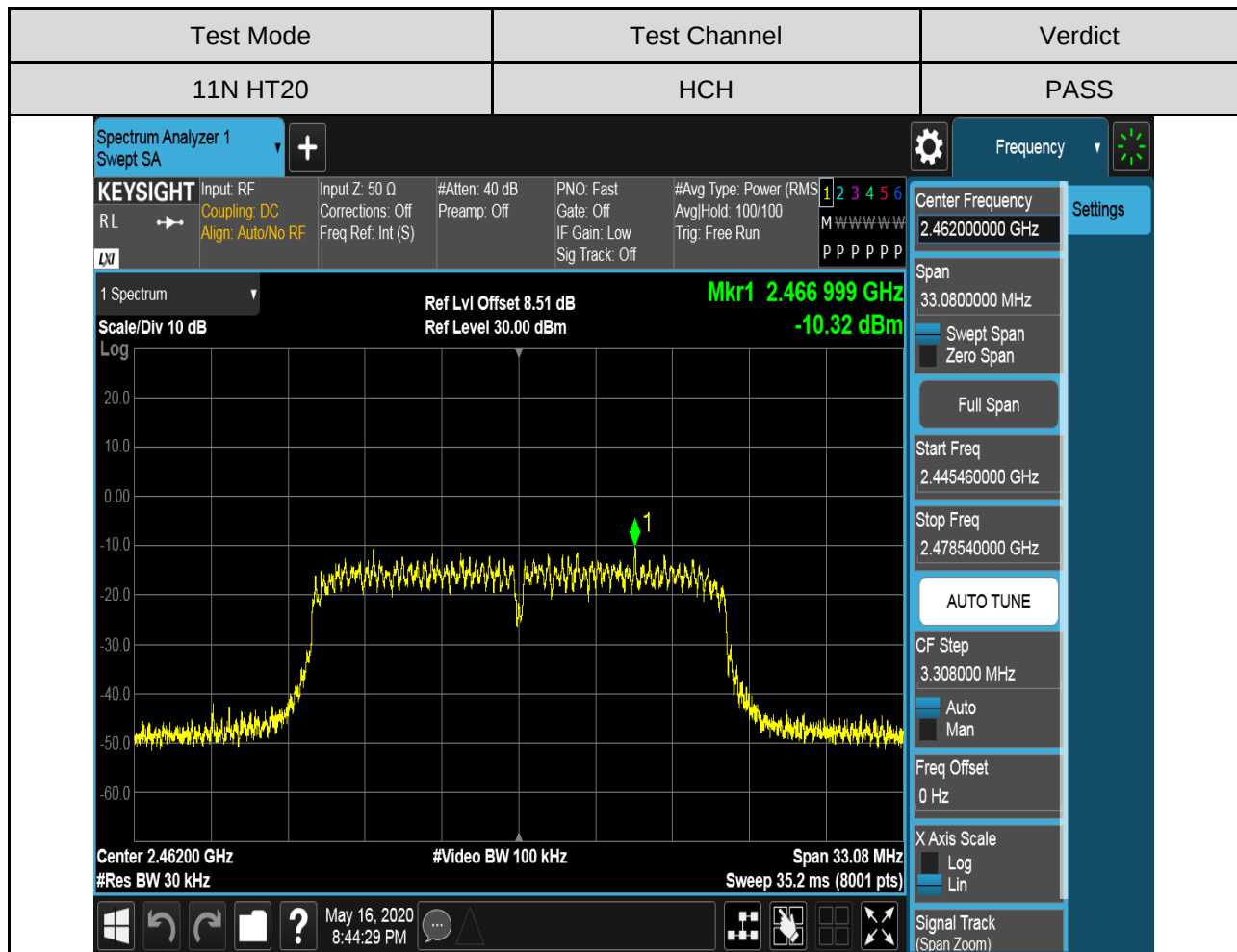
Test Graphs:













7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) Subpart C, ISSED RSS-247 ISSUE 2		
Section	Test Item	Limit
FCC §15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	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	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

settings:

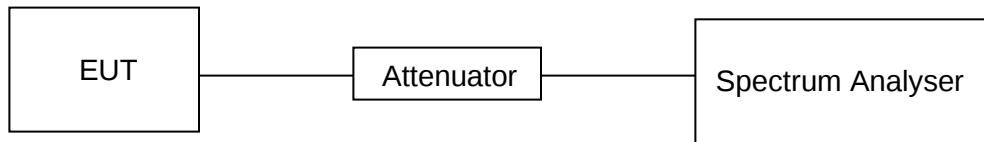
Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span/RBW}$
Trace	Max hold
Sweep time	Auto couple.

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



TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 21.6V



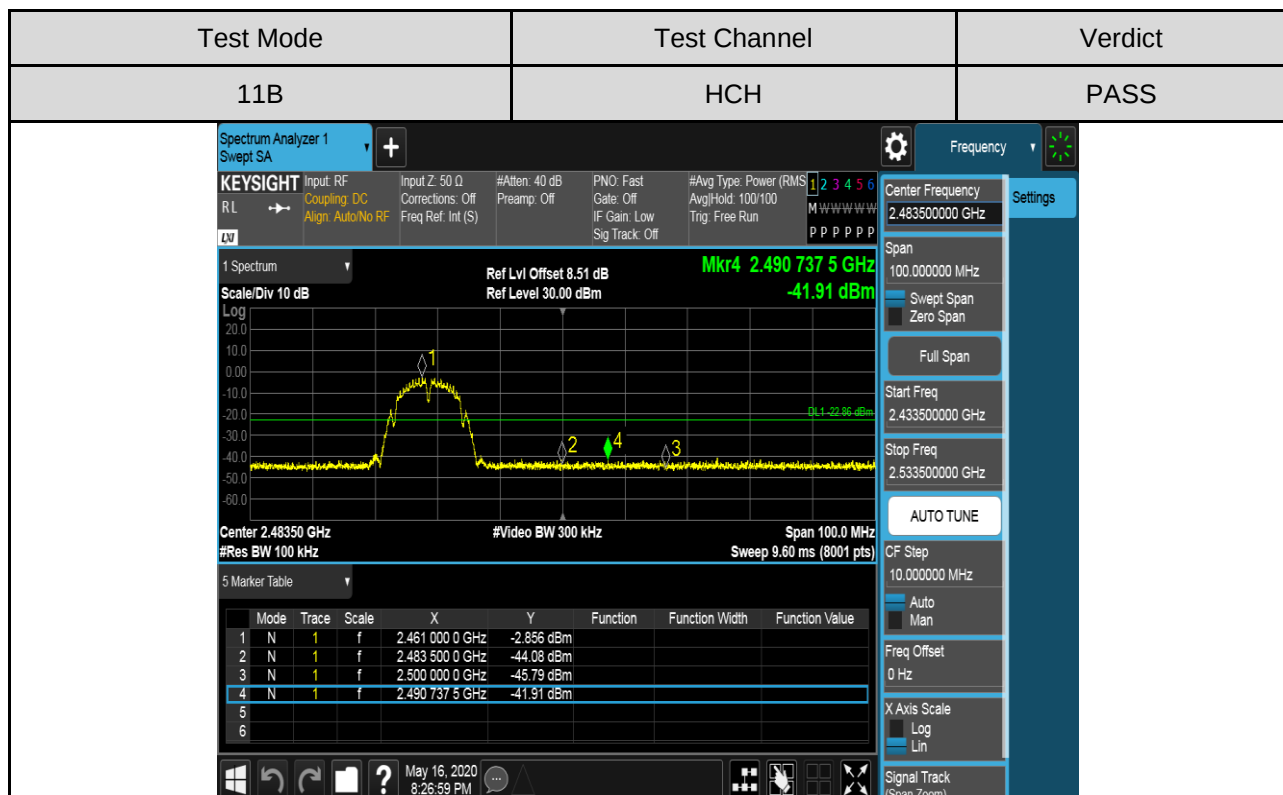
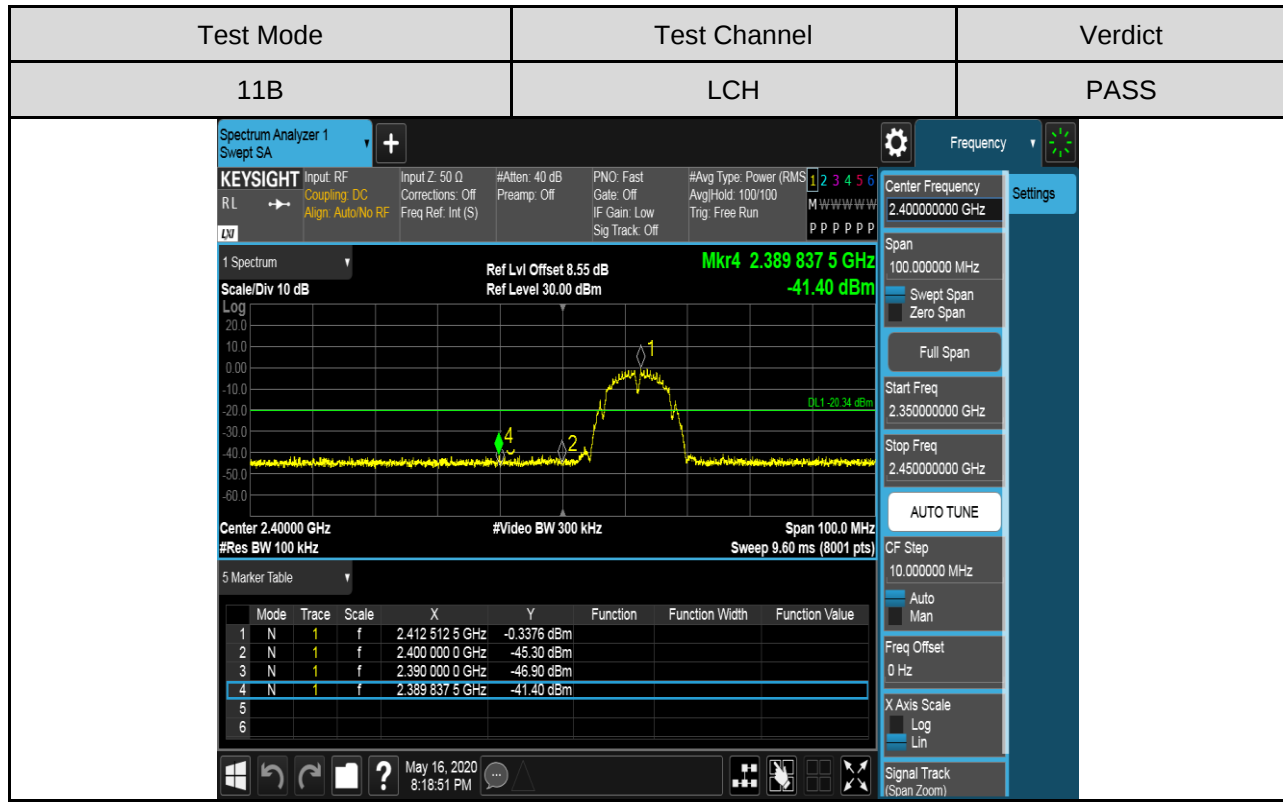
Part I: Conducted Bandedge

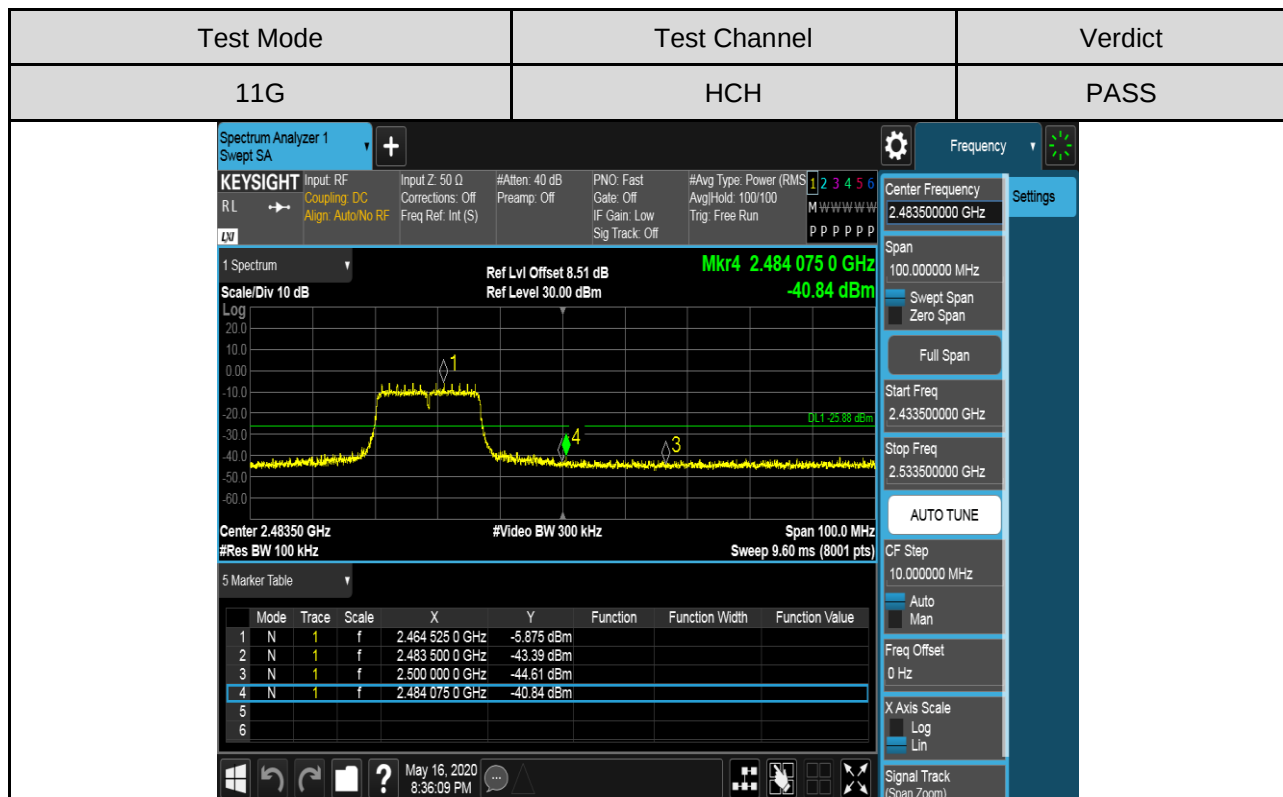
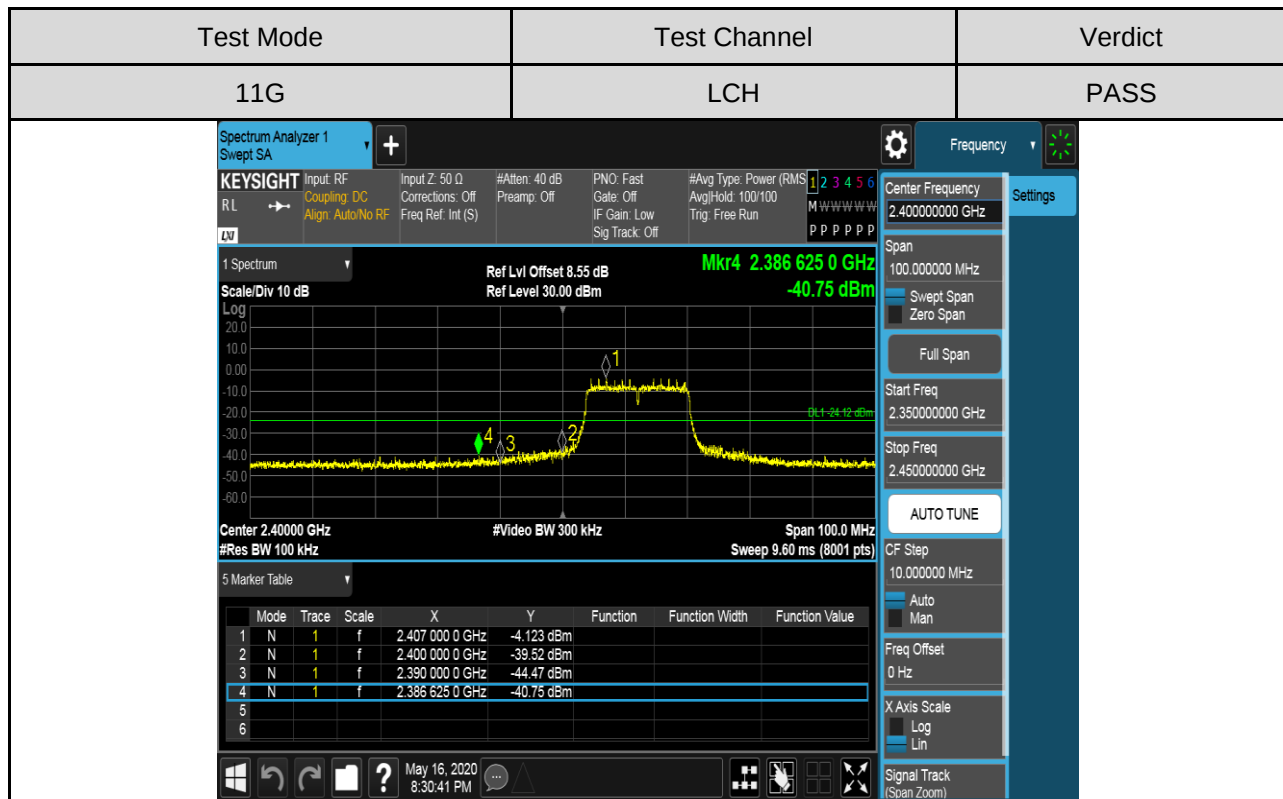
RESULTS TABLE

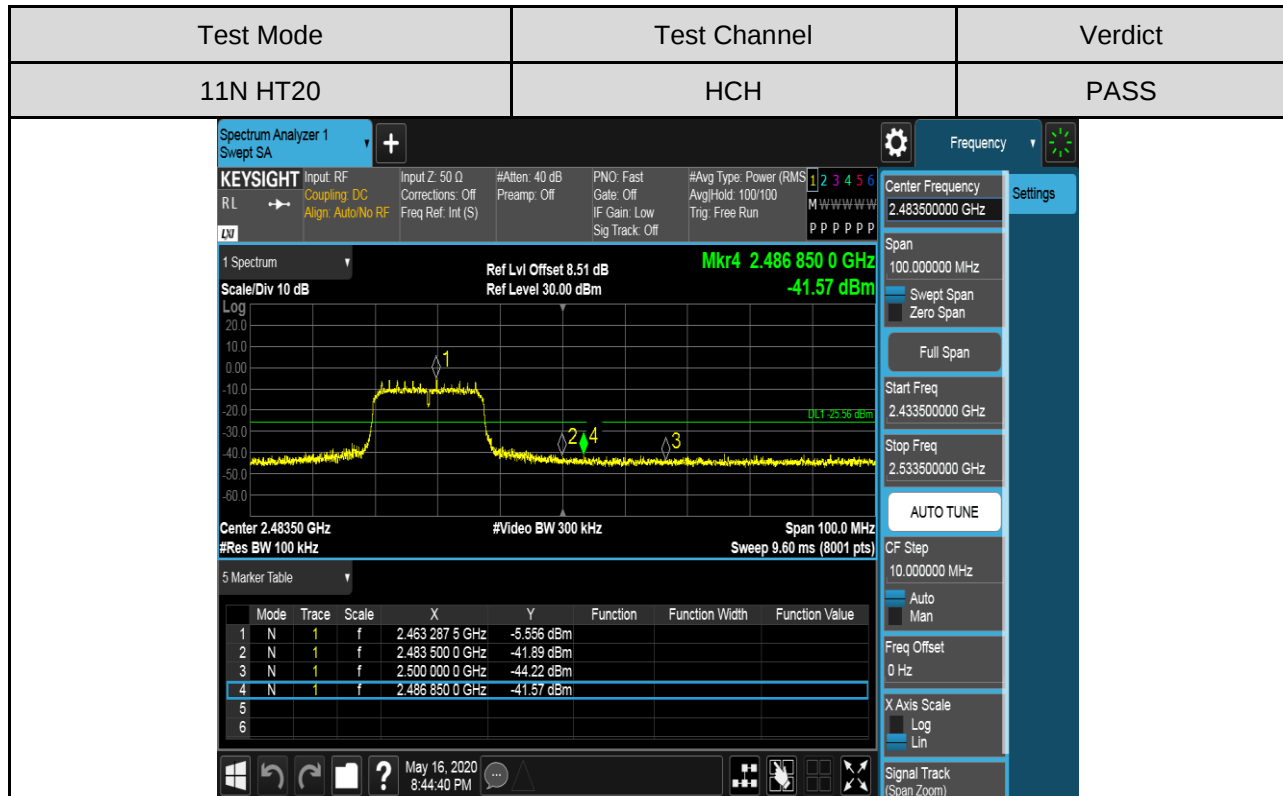
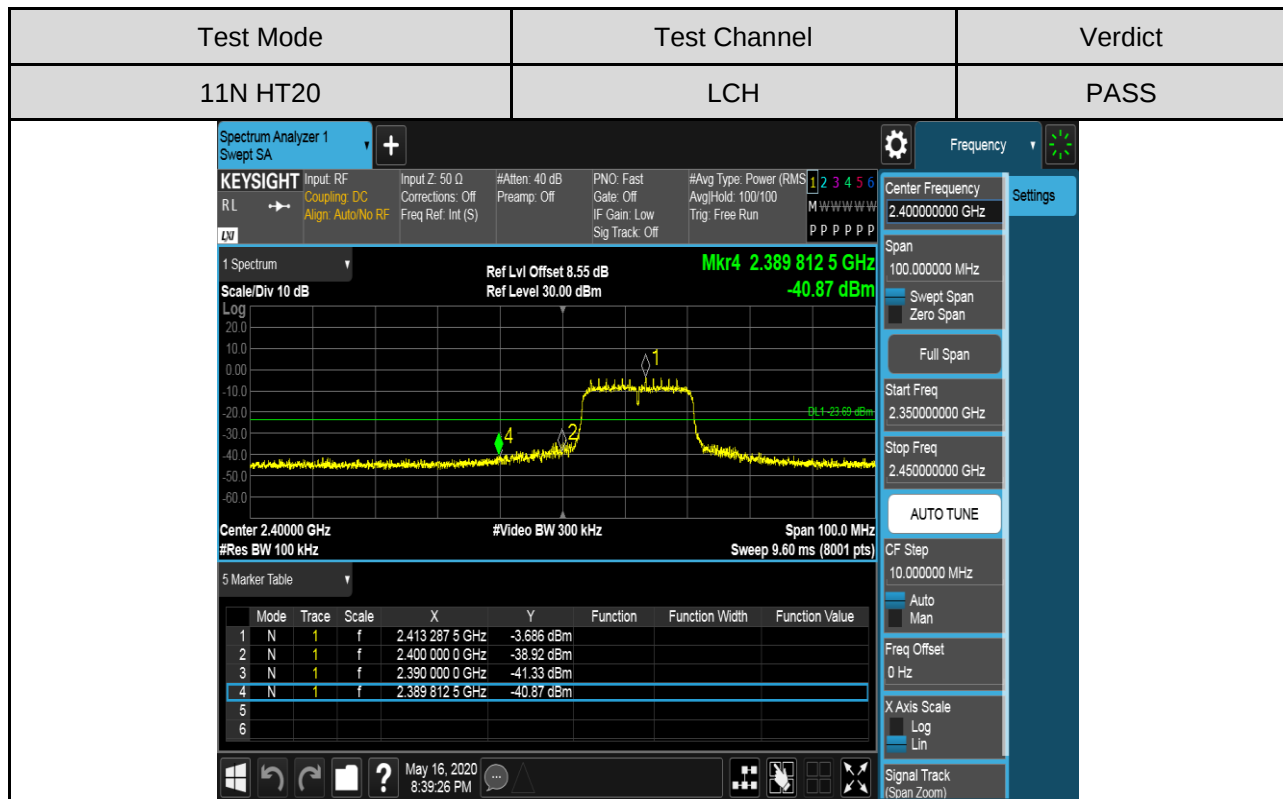
Test Mode	Test Antenna	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Antenna 1	LCH	-0.3376	-41.40	-20.34	PASS
		HCH	-2.856	-41.91	-22.86	PASS
11G	Antenna 1	LCH	-4.123	-40.75	-24.12	PASS
		HCH	-5.875	-40.84	-25.88	PASS
11N HT20	Antenna 1	LCH	-3.686	-40.87	-23.69	PASS
		HCH	-5.556	-41.57	-25.56	PASS



TEST GRAPHS









Part II: Conducted Emission

Test Result Table

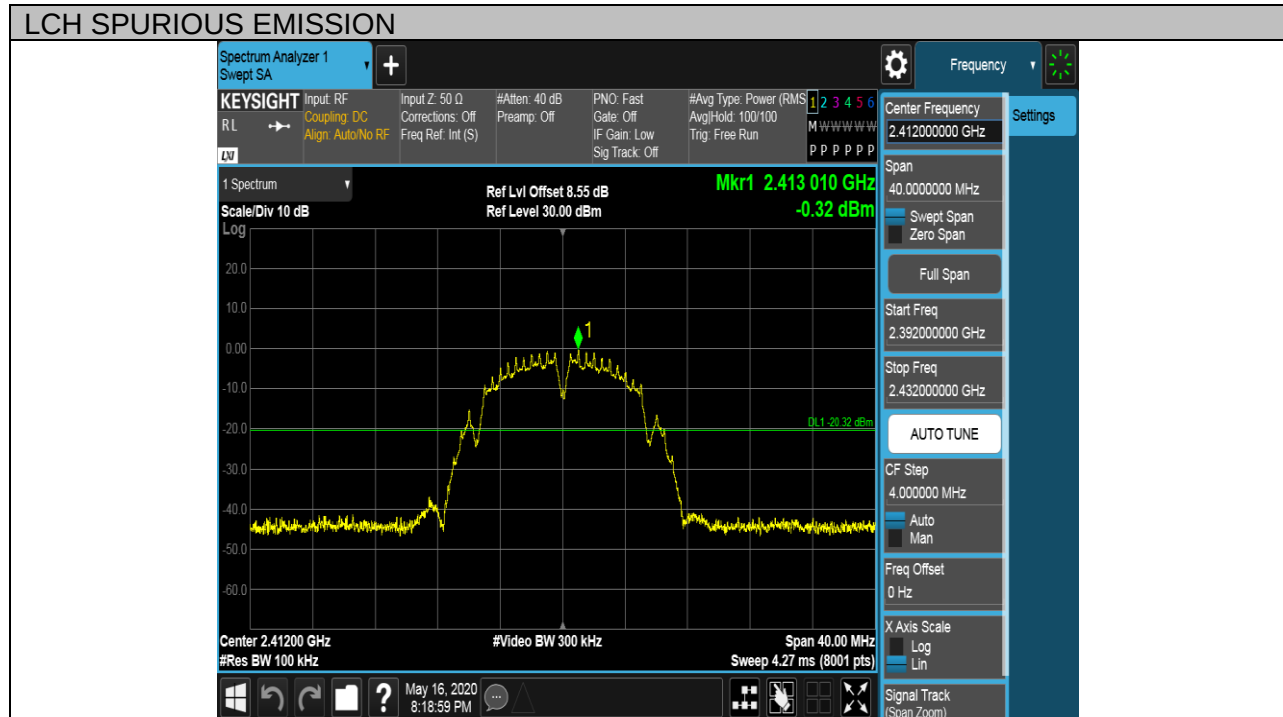
Test Mode	Channel	Pref(dBm)	Puw(dBm)	Verdict
11B	LCH	-0.32	<Limit	PASS
	MCH	-1.54	<Limit	PASS
	HCH	-2.28	<Limit	PASS
11G	LCH	-4.10	<Limit	PASS
	MCH	-4.90	<Limit	PASS
	HCH	-5.40	<Limit	PASS
11N HT20	LCH	-3.67	<Limit	PASS
	MCH	-5.36	<Limit	PASS
	HCH	-5.64	<Limit	PASS



Test Plots

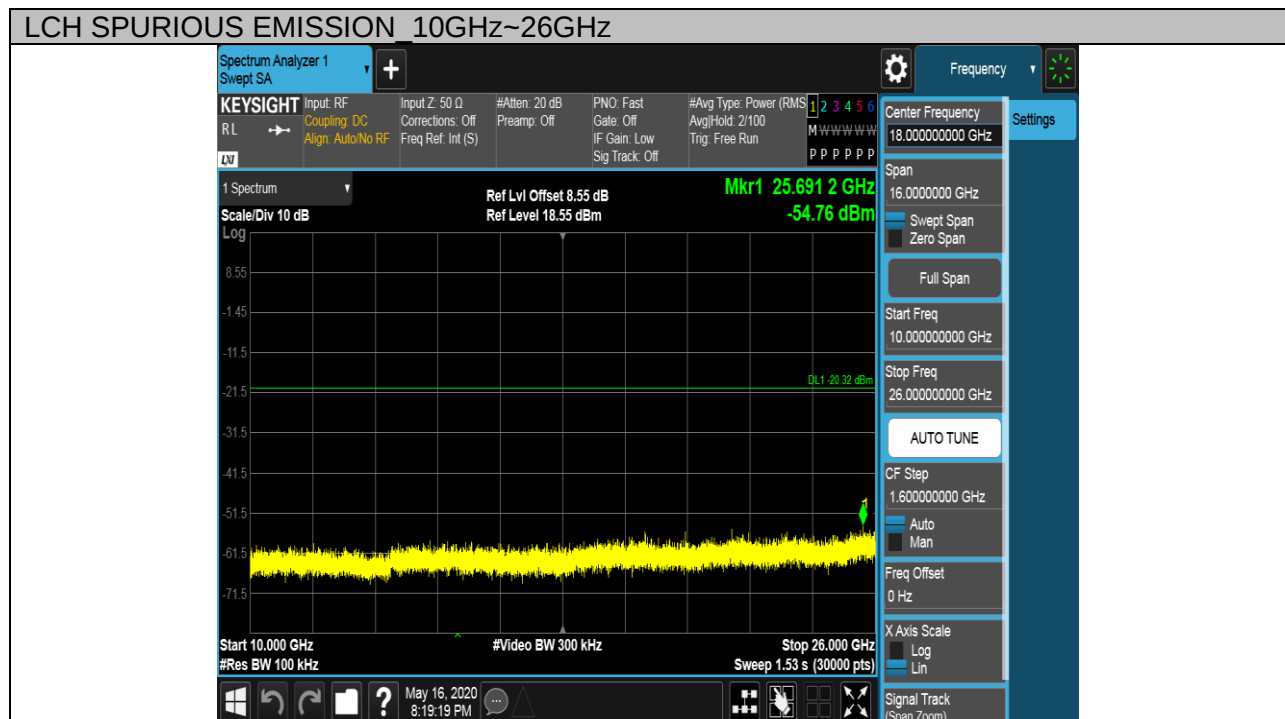
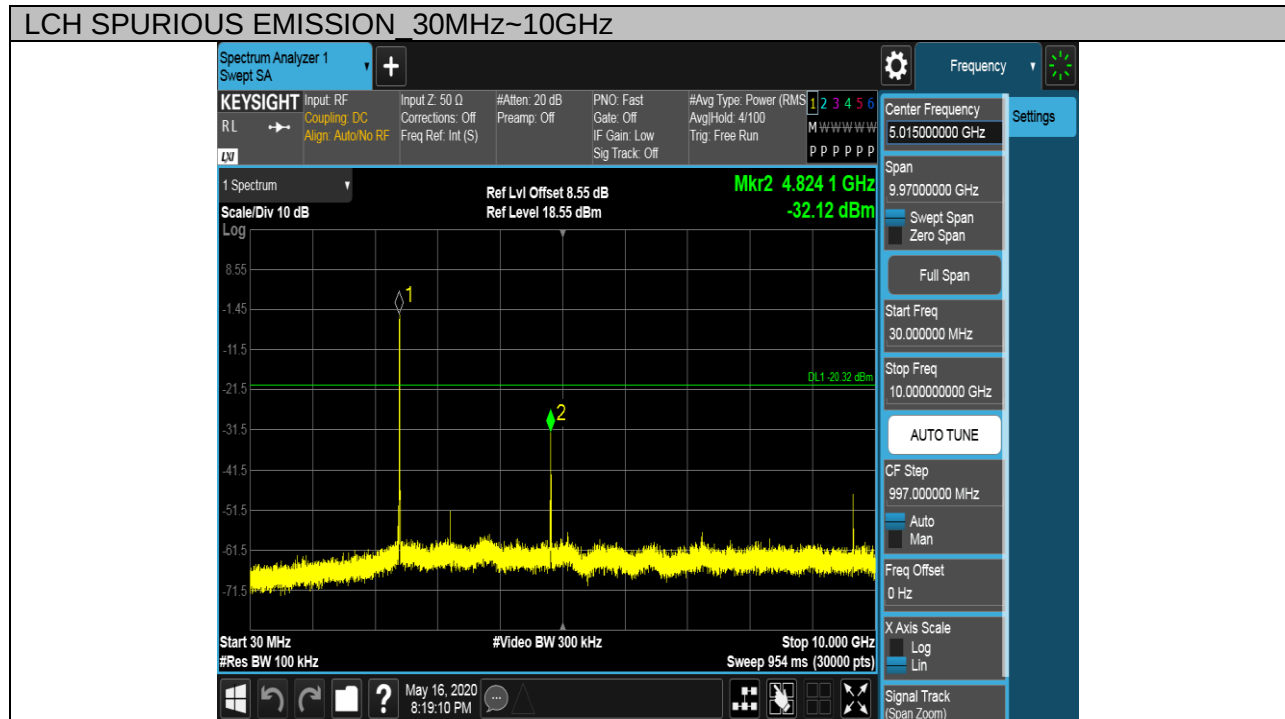
Test Mode	Channel	Verdict
11B	LCH	PASS

Pref test Plot





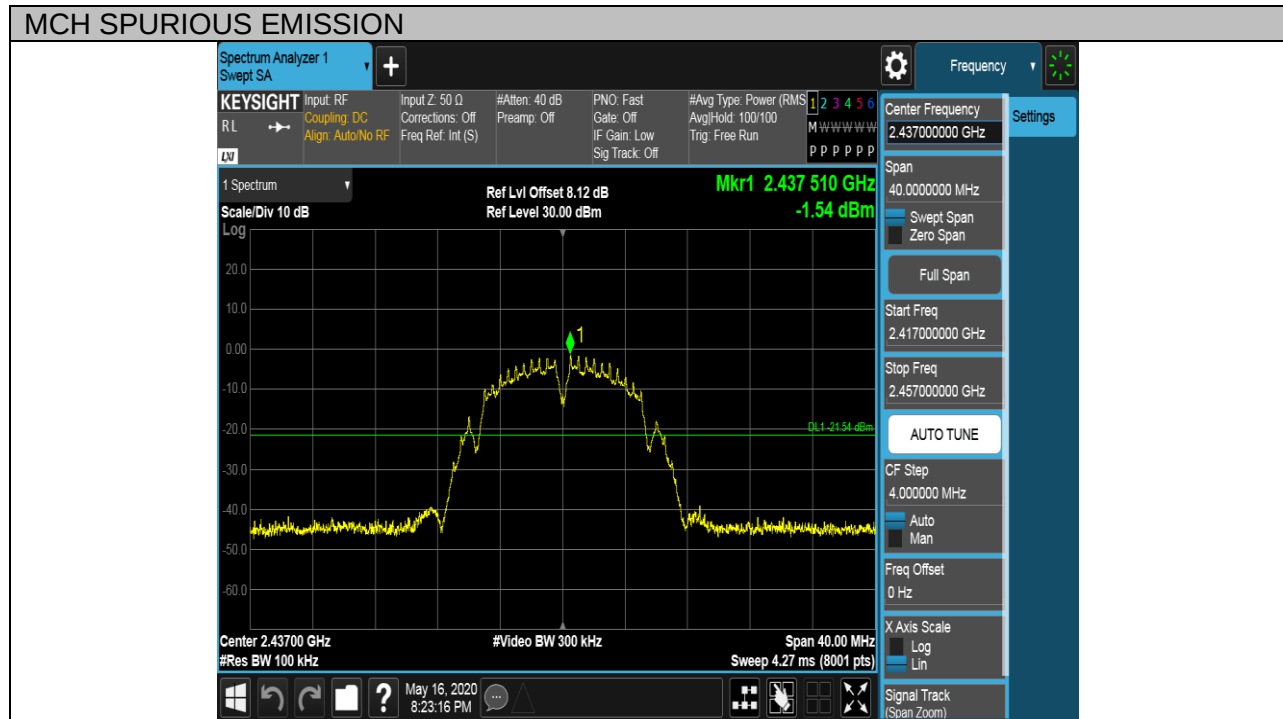
Puw test Plot





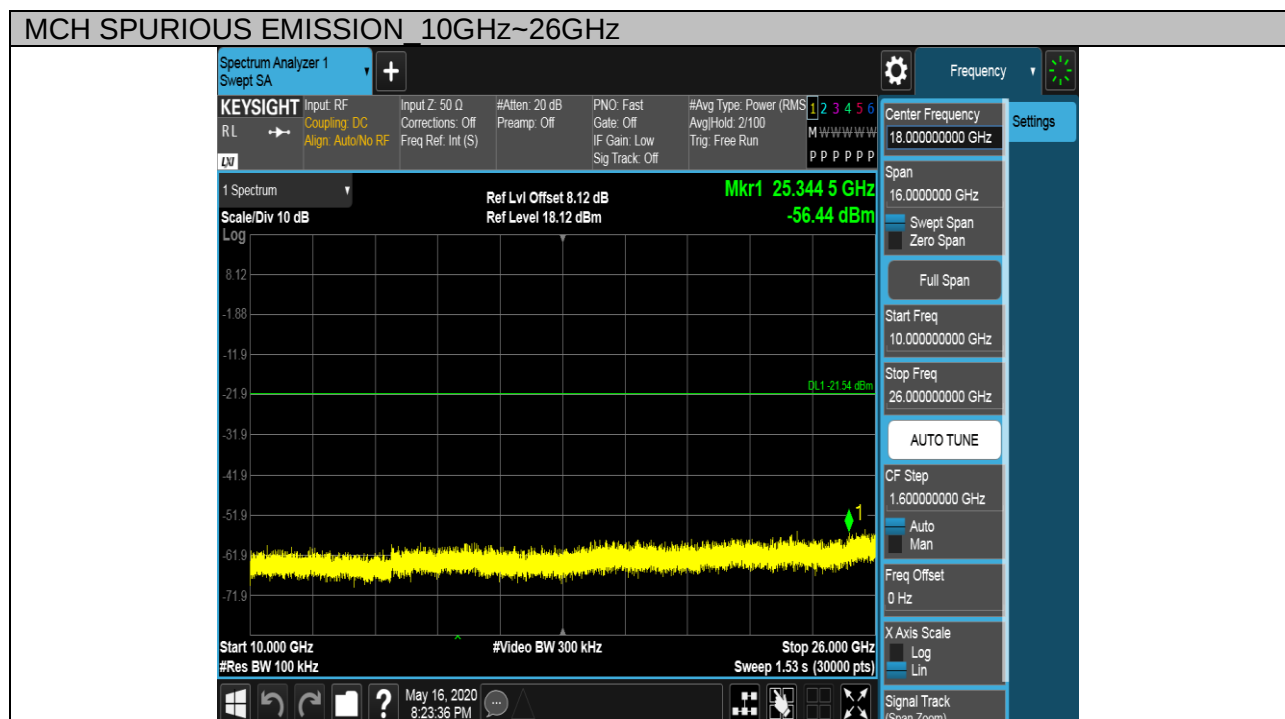
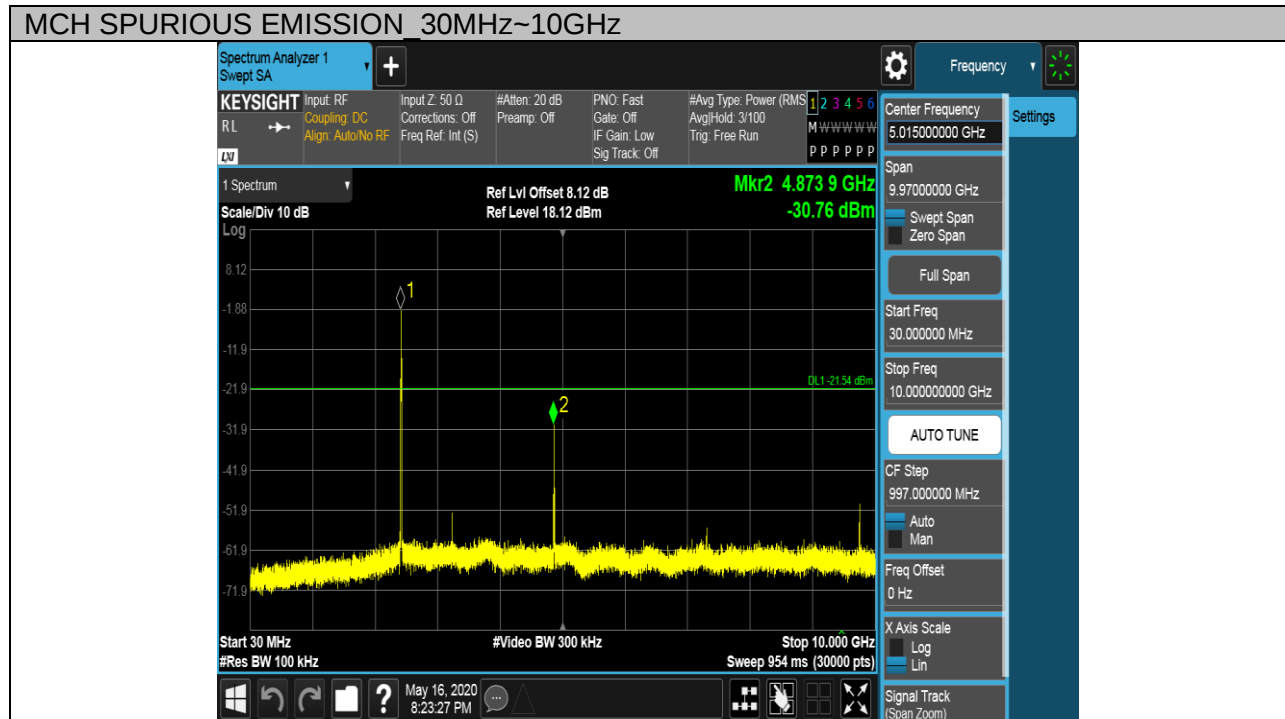
Test Mode	Channel	Verdict
11B	MCH	PASS

Pref test Plot





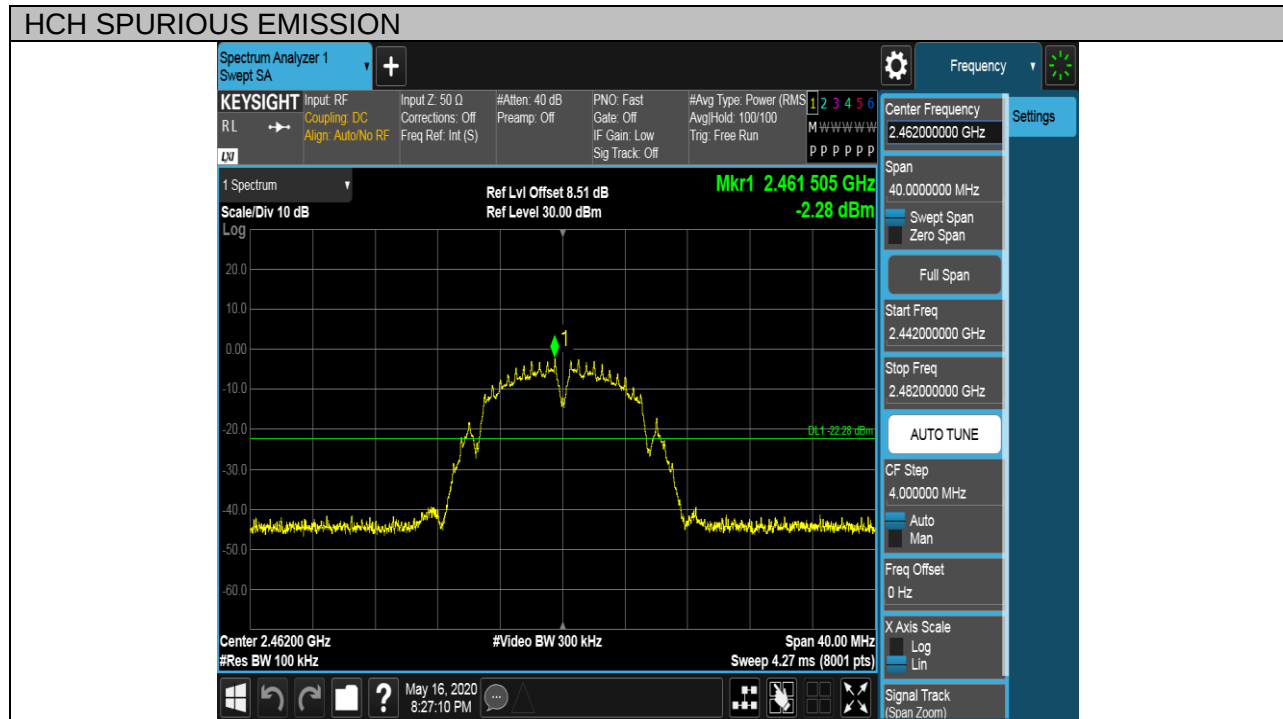
Puw test Plot





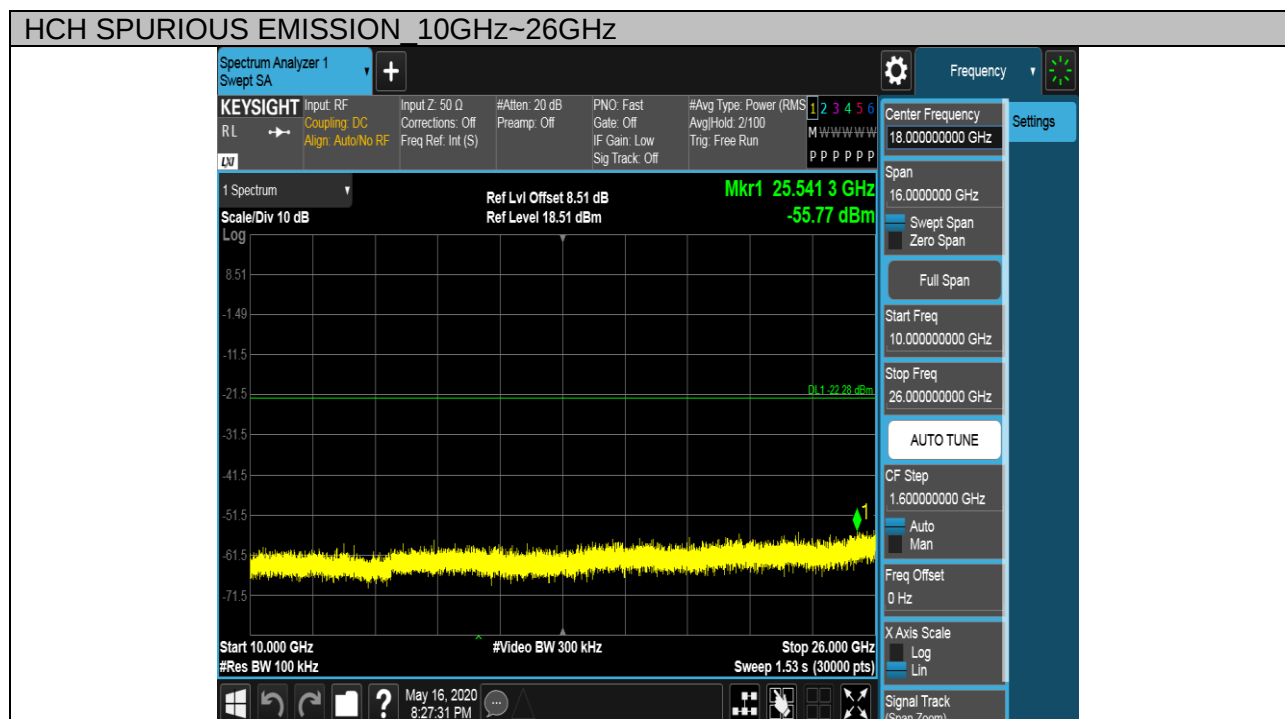
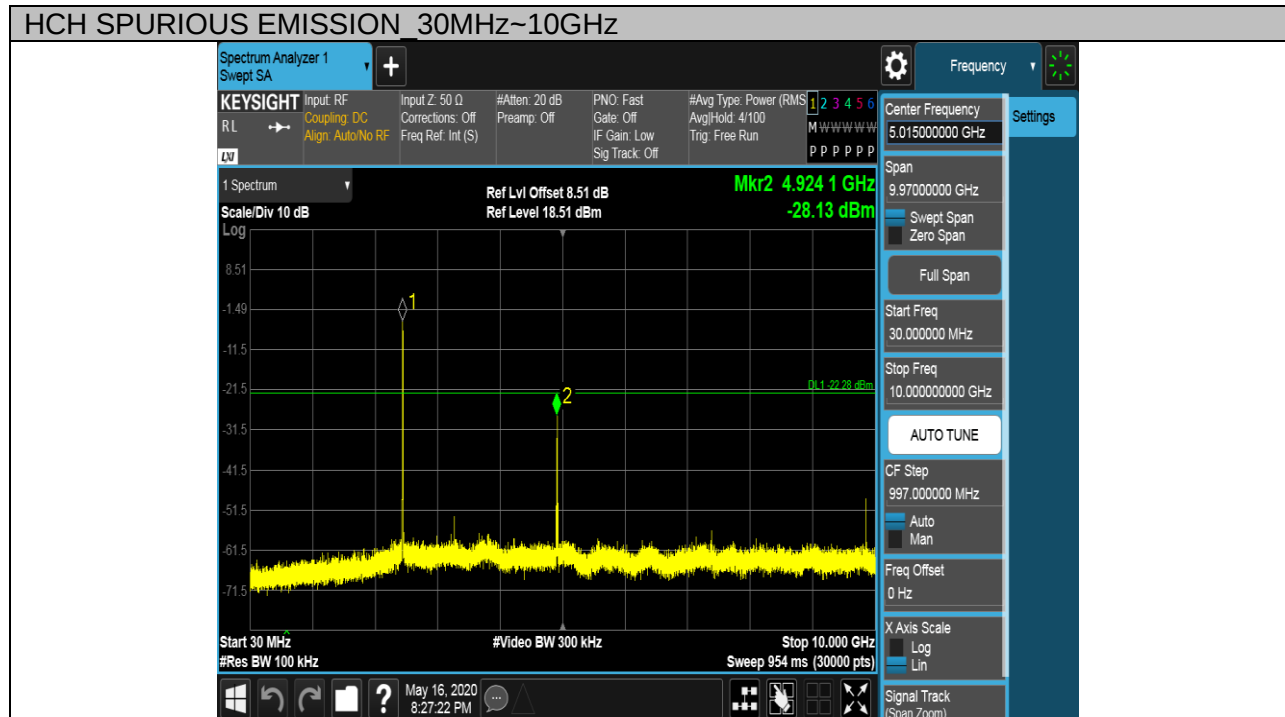
Test Mode	Channel	Verdict
11B	HCH	PASS

Pref test Plot





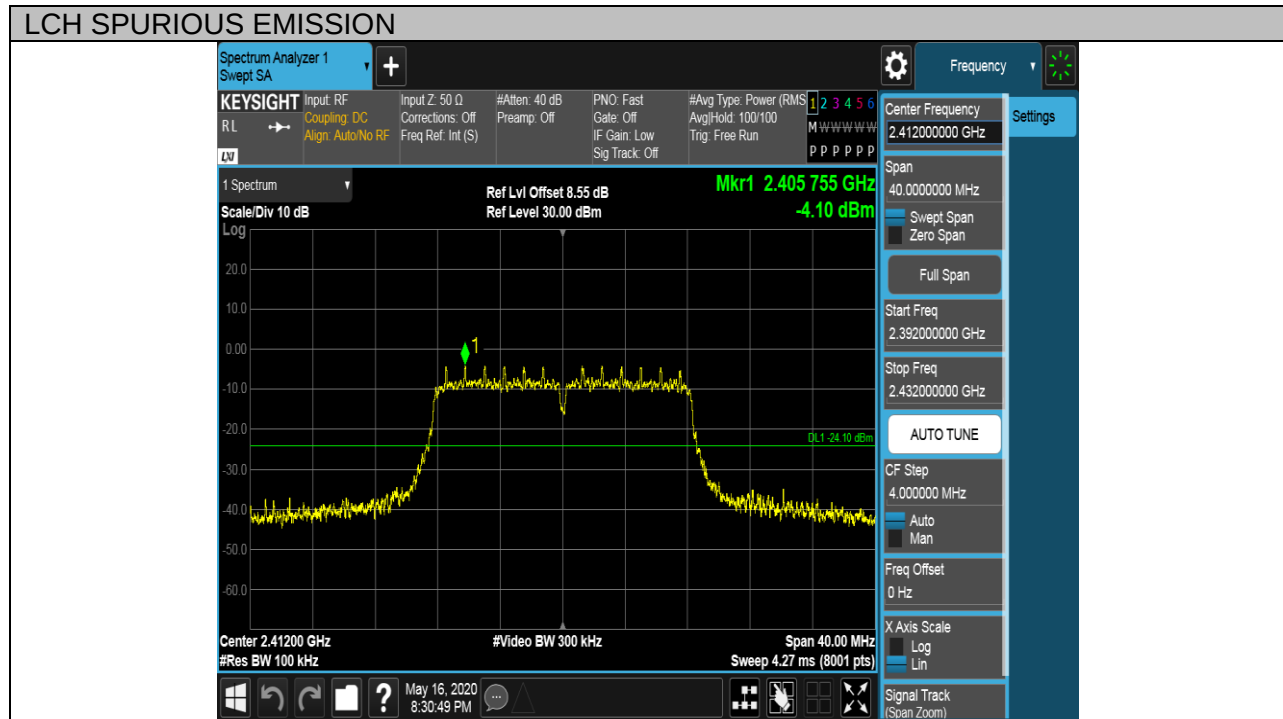
Puw test Plot





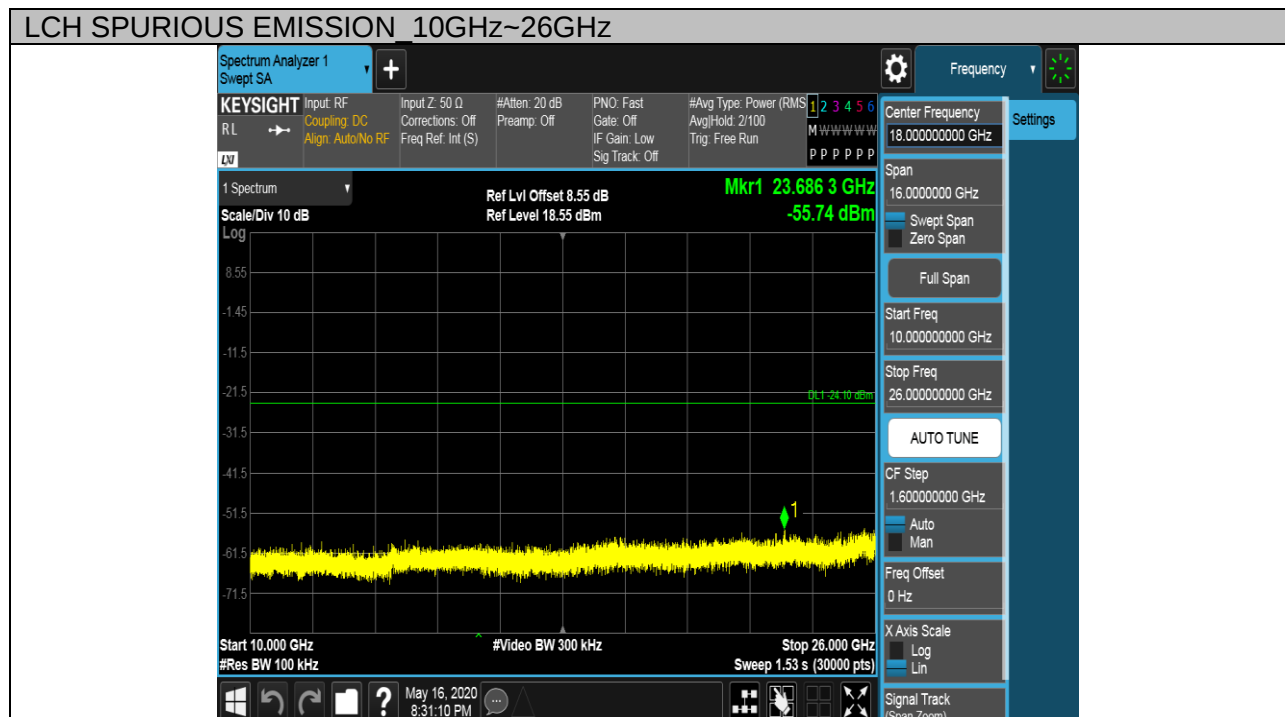
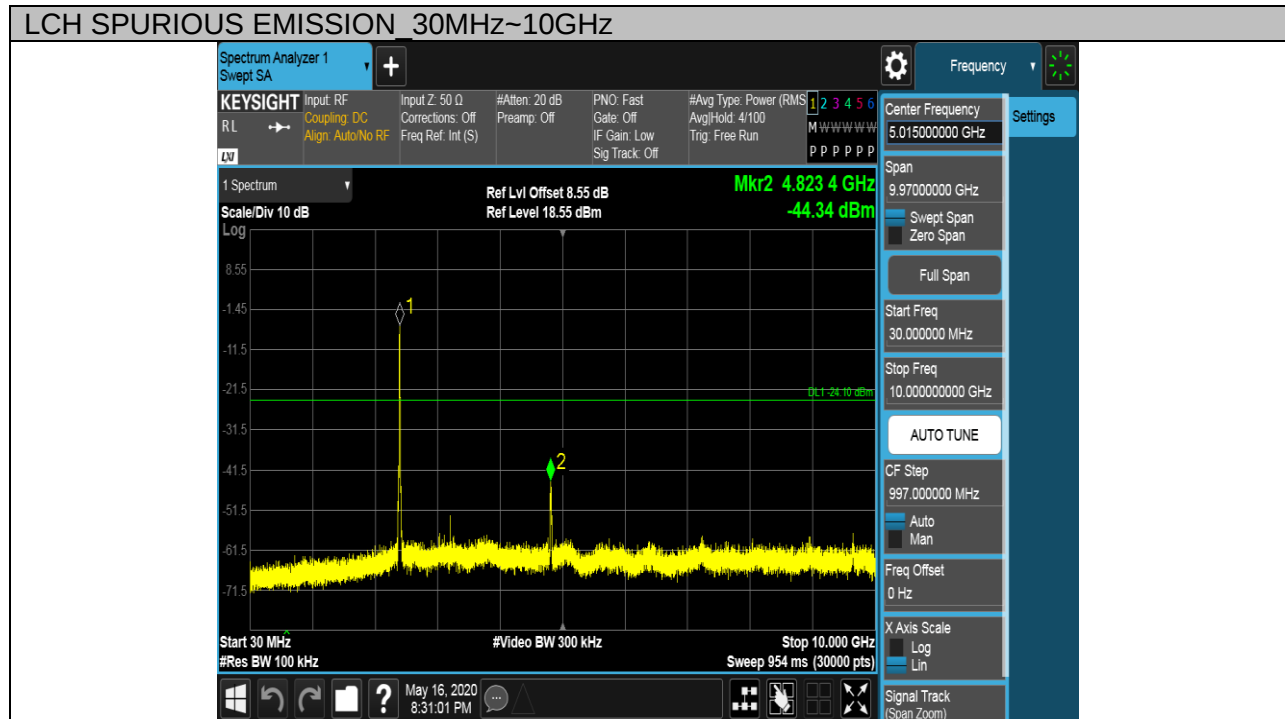
Test Mode	Channel	Verdict
11G	LCH	PASS

Pref test Plot





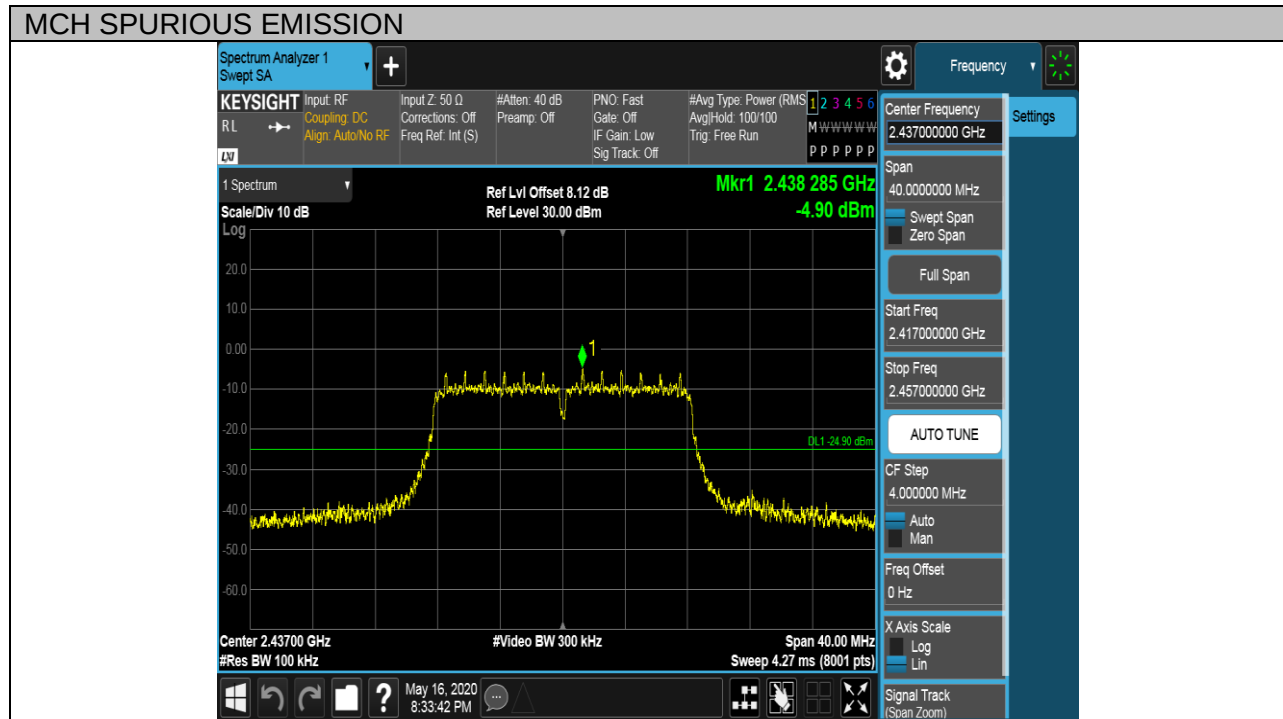
Puw test Plot





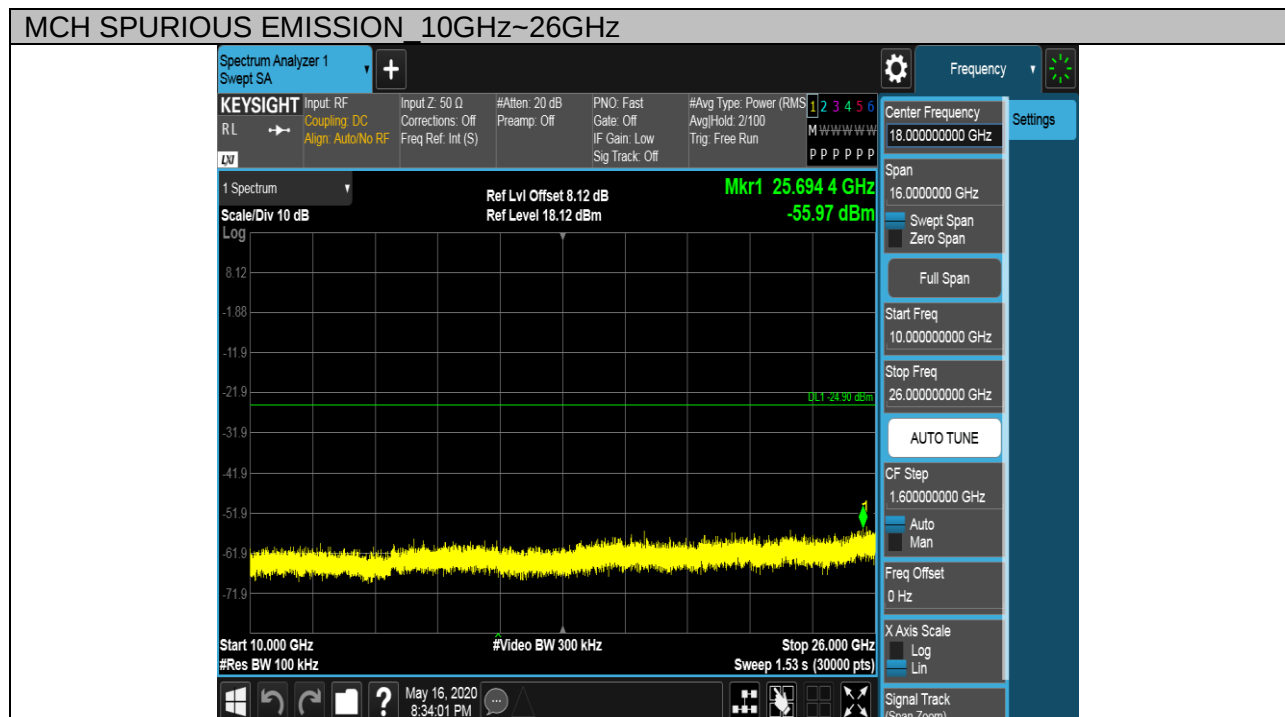
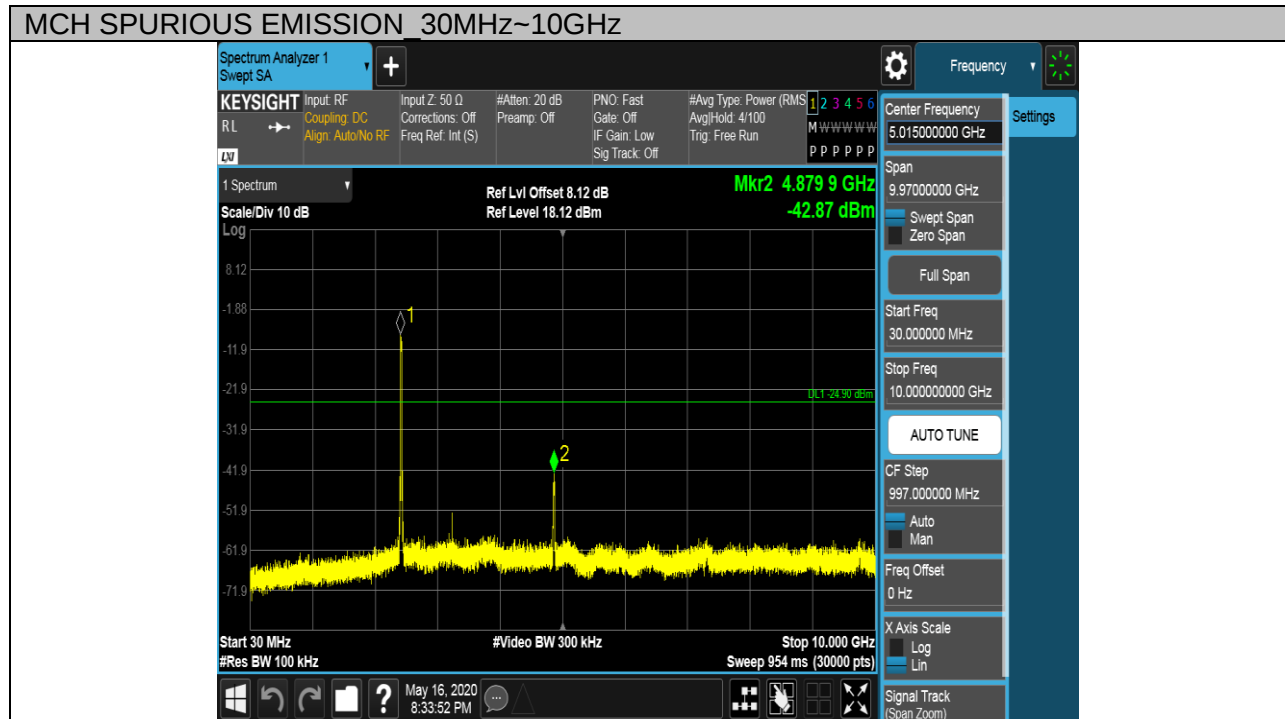
Test Mode	Channel	Verdict
11G	MCH	PASS

Pref test Plot





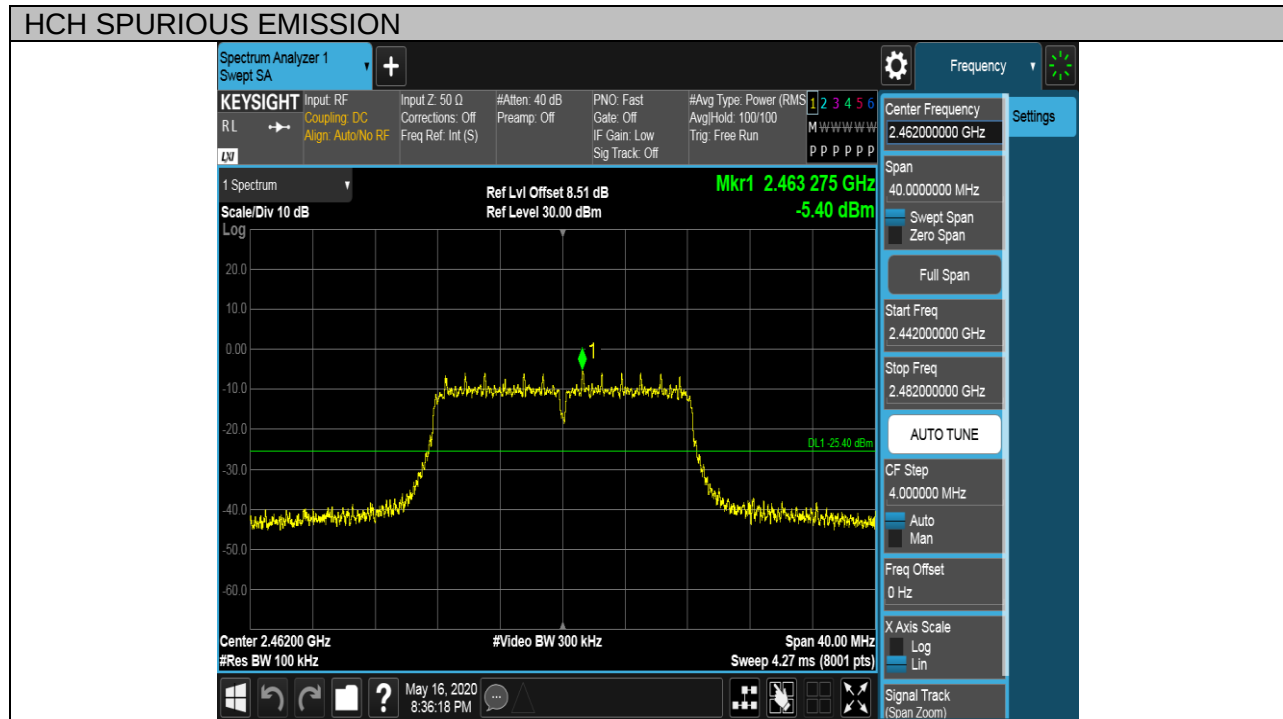
Puw test Plot





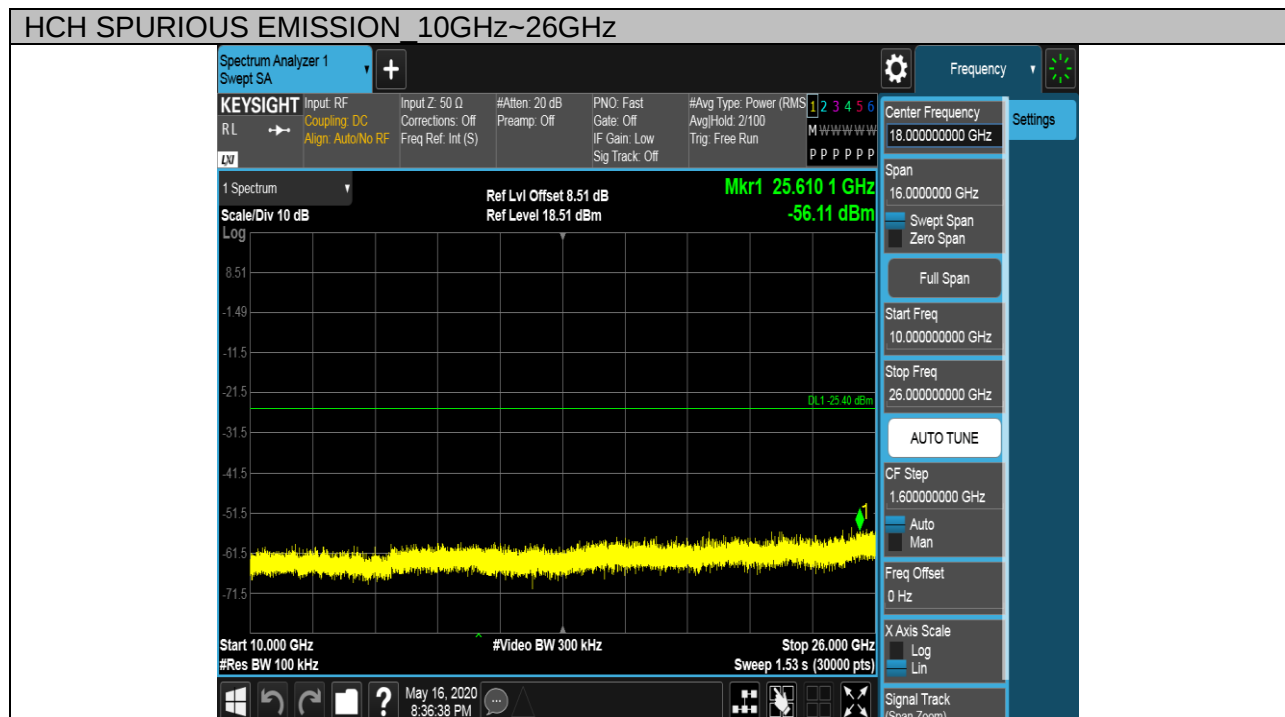
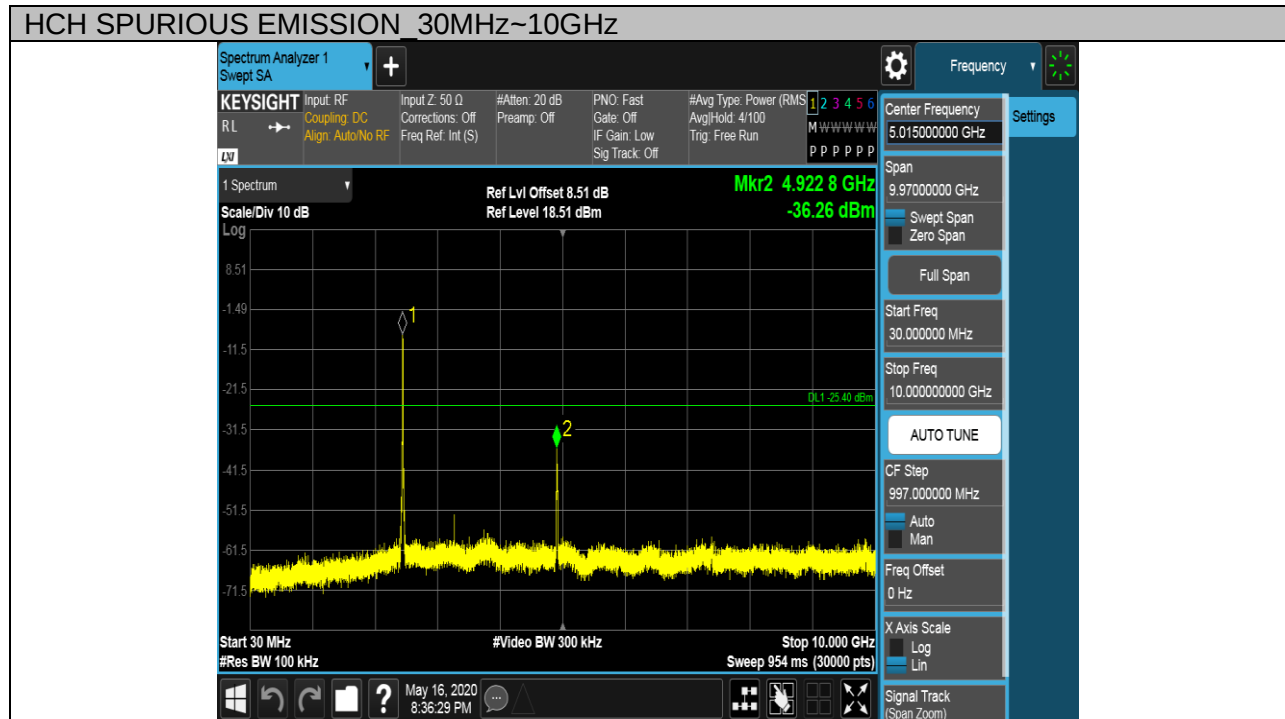
Test Mode	Channel	Verdict
11G	HCH	PASS

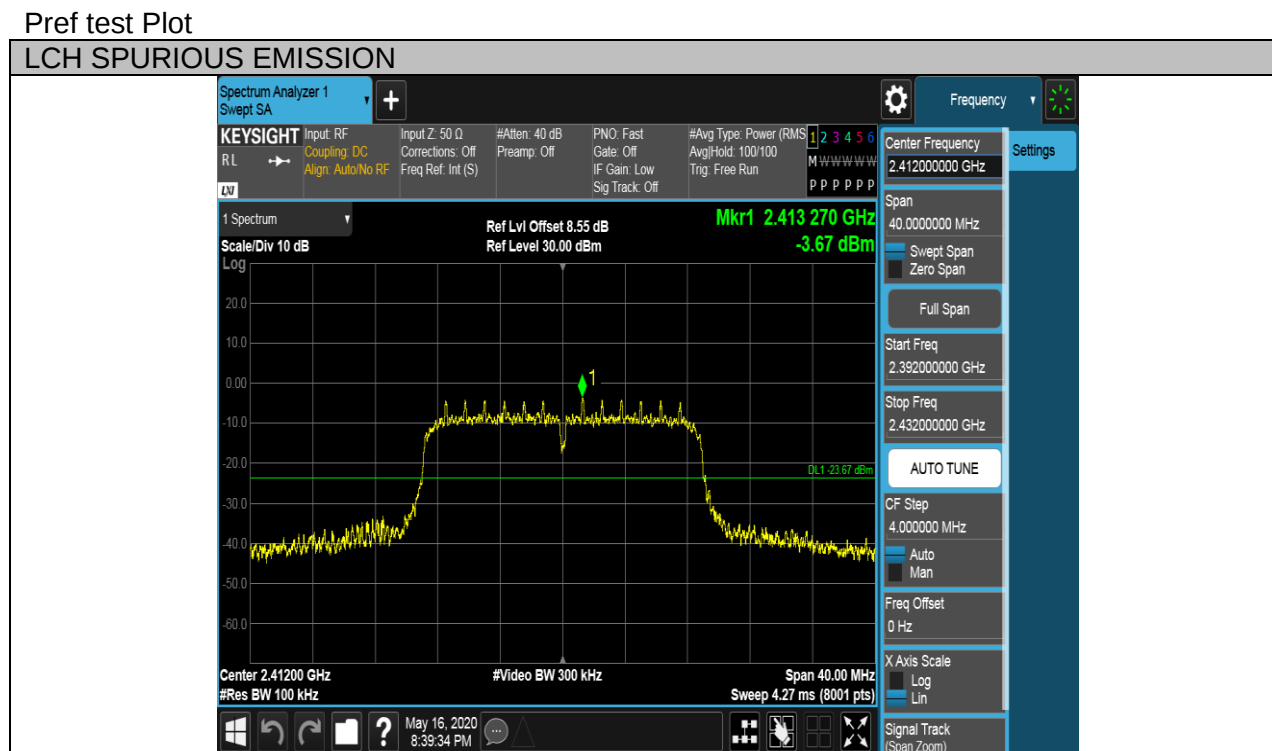
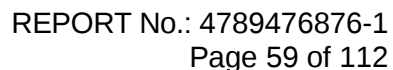
Pref test Plot





Puw test Plot







Puw test Plot

