

FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

CONSUMER CAMERA

MODEL NUMBER: IPC-TA42P-D

ADDTIONAL MODEL NUMBER: IPC-TA42P-D-imou; IPC-TA42N-D-imou; IPC-TA42N-D

PROJECT NUMBER: 4790196205-3

REPORT NUMBER: 4790196205-3-3

FCC ID: 2AVYF-IPC-TA4X-D

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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	12/12/2021	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hangzhou Huacheng Network Technology Co.,Ltd.

Address: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China

Manufacturer Information

Company Name: Hangzhou Huacheng Network Technology Co.,Ltd.

Address: No.2930, Nanhuan Road, Binjiang District, Hangzhou, China

EUT Description

Product Name: CONSUMER CAMERA

Model Name: IPC-TA42P-D

Additional No.: IPC-TA42P-D-imou; IPC-TA42N-D-imou; IPC-TA42N-D

Sample Number: 4382966
Data of Receipt Sample: Nov 09, 2021

Date Tested: Nov 10, 2021~ Dec 12, 2021

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C PASS



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Complied

Summary of Test Results Clause Test Items **FCC Rules Test Results** 6db DTS Bandwidth 1 FCC 15.247 (a) (2) Complied **Conducted Power** 2 FCC 15.247 (b) (3) Complied 3 Complied Power Spectral Density FCC 15.247 (e) Conducted Band edge And 4 FCC 15.247 (d) Complied Spurious emission FCC 15.247 (d) Radiated Band edges and Spurious 5 FCC 15.209 Complied emission FCC 15.205 Conducted Emission Test For AC FCC 15.207 Complied 6 **Power Port**

Remark:

7

Laboratory Leader

FCC 15.203

Antenna Requirement

Prepared By:	Reviewed By:		
Tom Tang	Leon Wu		
Tom Tang Project Engineer	Leon Wu Senior Project Engineer		
Authorized By:			
Chris Zhong			
Chris Zhong			

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> when <Accuracy Method> decision rule is applied.



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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.

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; CAB No.:CN0073) 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.



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4. CALIBRATION AND UNCERTAINTY

MEASURING INSTRUMENT CALIBRATION 4.1.

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	3.1dB
Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	3.4dB
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	3.4dB
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	3.9dB (1GHz-18Gz)
Nets: This was estaint; represente an expended up	4.2dB (18GHz-26.5Gz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	CONSUMER CAMERA
Model No.:	IPC-TA42P-D
Operating Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
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 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Channels Step:	Channels with 5MHz step
Test software of EUT:	SecureCRT (manufacturer declare)
Antenna Type:	Monopole Antenna
Antenna Gain:	Antenna1: 2.84 dBi
	Remark: This data is provided by customer and our lab isn't responsible for this data
Test Voltage	AC 120V

Remark:

Model No.:

Number:	Name:	Number:	Name:	Number:	Name:
1	IPC-TA42P-D	2	IPC-TA42P-D-imou	3	IPC-TA42N-D-imou
4	IPC-TA42N-D				

Only the main model **IPC-TA42P-D** 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 name of the models.

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5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Channel Number	Max AV Conducted Power (dBm)
1	IEEE 802.11B SISO	1-11[11]	14.72
1	IEEE 802.11G SISO	1-11[11]	12.03
1	IEEE 802.11nHT20	1-11[11]	12.08
1	IEEE 802.11nHT40	3-9[7]	10.78

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				

	Channel List for 802.11n (40 MHz)								
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz)									
3	2422	5	2432	7	2442	9	2452		
4	2427	6	2437	8	2447				



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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
WiFi TX(802.11n HT40)	CH 3, CH 6, CH 9	2422MHz, 2437MHz, 2452MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Softw	vare		SecureCRT					
	Transmit	Test Channel						
Modulation Mode	Antenna	NCB: 20MHz			NCB: 40MHz			
Wiode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	N/A	N/A	N/A				
802.11g 1		N/A	N/A	N/A] /			
802.11n HT20	1	N/A	N/A	N/A]			
802.11n HT40	1	/ 60 60 60				60		



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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	Monopole Antenna	2.84

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.
IEEE 802.11N (HT40)	⊠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 802.11g mode: 6 Mbps 802.11n HT20 mode: MCS0 802.11n HT40 mode: MCS0

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5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	N/A
2	SD Card	N/A	N/A	Supply by UL Lab

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB to TTL	USB	100cm Length	N/A

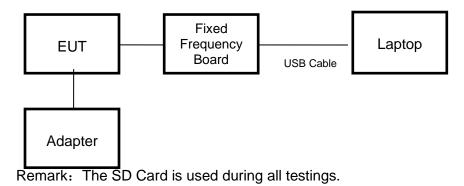
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	AC Adapter	AC POWER	NBS05B050100 VUU	INPUT:100-240V~, 50/60Hz, 0.2A OUTPUT:5.0V1.0A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS





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5.9. MEASURING INSTRUMENT AND SOFTWARE USED

	5.9. ME	ASURING IN	151KU	MEN	I AND SO	FIWARE U	SED			
	Conducted Emissions (Instrument)									
Used	Equipment	Manufacturer	Model No.		Serial No.	Upper Last Cal.	Last Cal.	Next Cal.		
V	EMI Test Receiver	R&S	ESR	3	126700	2020-12-05	2021-12-04	2022-12-03		
V	Two-Line V- Network	R&S	ENV2	16	126701	2020-12-05	2021-12-04	2022-12-03		
				Soft	ware					
Used	Des	cription		Ma	nufacturer	Name	Version			
$\overline{\mathbf{V}}$	Test Software for C	Conducted distu	ırbance		R&S	EMC32	Ver. 9.25			
	Radiated Emissions (Instrument)									
Used	Equipment	Manufacturer	Model	No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.		
V	Spectrum Analyzer	Keysight	N901	0B	155727	2020-05-10	2021-05-09	2022-05-08		
$\overline{\checkmark}$	EMI test receiver	R&S	ESR:	26	126703	2020-12-05	2021-12-04	2022-12-03		
V	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB ²	1513	155456	2018-06-15	2021-06-03	2024-06-02		
V	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB1	l	177821	N/A	2019-01-28	2022-01-27		
V	Receiver Antenna (1GHz-18GHz)	R&S	HF90	07	126705	2018-01-29	2019-01-28	2022-01-27		
V	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHAS	170	126706	2018-01-06	2019-01-05	2022-01-04		
	Pre-amplification (To 18GHz)	Compliance Direction System Inc.	PAP-10 50		177825	2019-03-18	2020-12-05	2022-03-25		
V	Pre-amplification (To 26.5GHz)	R&S	SCU-2	26D	135391	2020-12-05	2021-12-04	2022-12-03		
	Band Reject Filter	Wainwright	WRCJ 2350-2 2483 2533.5-4	400- .5-	1	2020-05-10	2021-05-09	2022-05-08		
	Highpass Filter	Wainwright	WHKX 2700-3 18000-4	000-	2	2020-05-10	2021-05-09	2022-05-08		
				Soft	ware					
Used	Descr	ription	Manufac		turer	Name	Version			
$\overline{\mathbf{V}}$	Test Software for R	adiated disturba		onsce		TS+	Ver. 2.5			
			Oth	er ins	truments					
Used	Equipment	Manufacturer	Model No.		Serial No.	Upper Last Cal.	Last Cal.	Next Cal.		
V	Spectrum Analyzer	Keysight	N901	0B	155368	2020-05-10	2021-05-09	2022-05-08		
V	Power Meter	Keysight	U2021	XA	155370	2020-05-10	2021-05-09	2022-05-08		



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6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6dB Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Conducted Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	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



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7. ANTENNA PORT TEST RESULTS

7.1. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	56%	
Atmospheric Pressure:	102kPa	
Temperature	20°C	



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7.2. ON TIME AND DUTY CYCLE

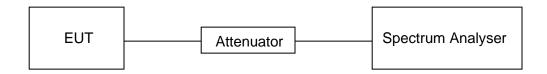
LIMITS

None; for reporting purposes only

PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (KHz)	Final Minimum VBW (KHz)
11B	8.379	8.454	0.991	99.1	0.04	0.12	0.01(Note 4)
11G	1.391	1.460	0.953	95.3	0.21	0.72	1
11N HT20	5.081	5.152	0.986	98.6	0.06	0.20	0.01(Note 4)
11N HT40	2.466	2.536	0.972	97.2	0.12	0.41	1

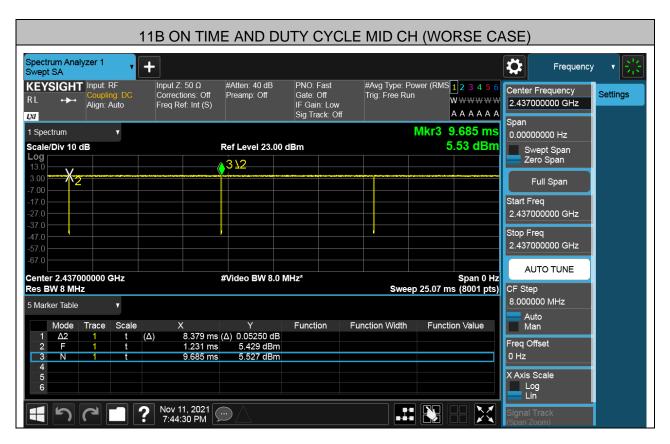
Note: 1) Duty Cycle Correction Factor=10log(1/x).

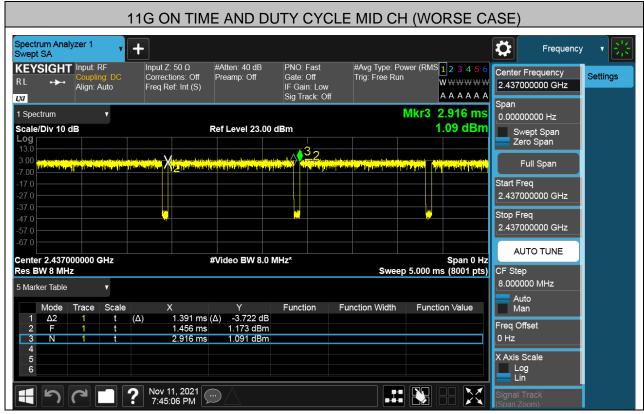
2) Where: x is Duty Cycle(Linear)

3) Where: T is On Time (transmit duration)

4) The minimum VBW should be 10Hz if the duty cycle is over 98%.

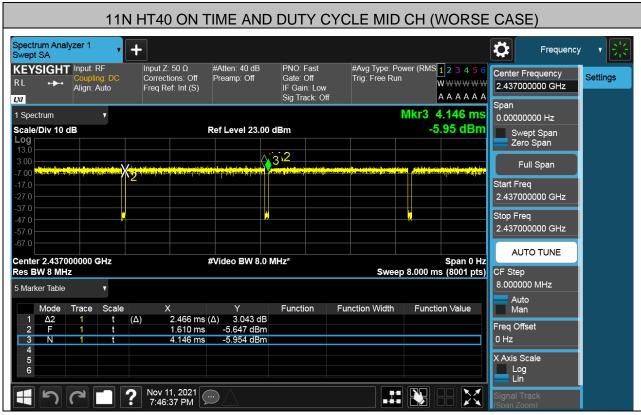














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7.3. 6 dB BANDWIDTH

LIMITS

FCC Part15 (15.247) Subpart C					
Section Test Item Limit Frequency Range (MHz)					
FCC 15.247(a)(2)	6dB Bandwidth	>= 500KHz	2400-2483.5		

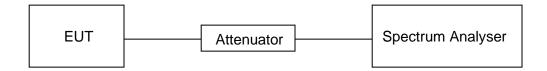
TEST PROCEDURE

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

Center Frequency	The centre frequency of the channel under test
Detector	Peak
IRRW	For 6dB Bandwidth :100K For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
IVBW	For 6dB Bandwidth : ≥3 × RBW For 99% Occupied Bandwidth : approximately 3×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 SETUP





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RESULTS

Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
	LCH	10.05	15.140	Pass
11B	MCH	10.05	15.110	Pass
	HCH	10.05	15.148	Pass
	LCH	16.36	16.772	Pass
11G	MCH	16.35	16.760	Pass
	HCH	16.35	16.771	Pass
	LCH	17.62	17.813	Pass
11N HT20	MCH	17.59	17.822	Pass
	HCH	17.60	17.824	Pass
	LCH	36.33	36.490	Pass
11N HT40	MCH	36.31	36.495	Pass
	HCH	36.33	36.512	Pass

Remark: The 99% Bandwidth is for reporting purposes only.



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<u>Test Graphs</u>

For 6dB Bandwidth part:



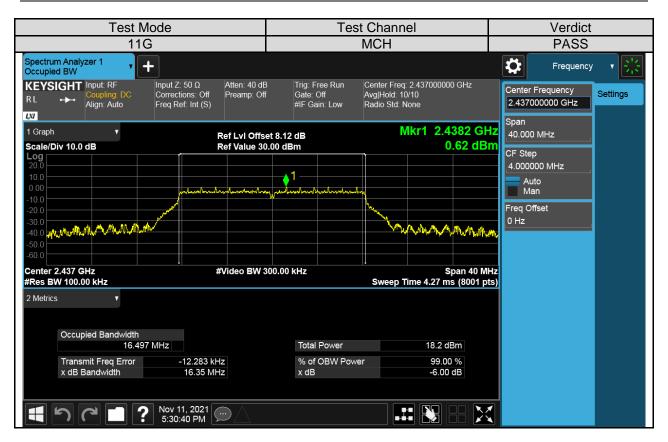


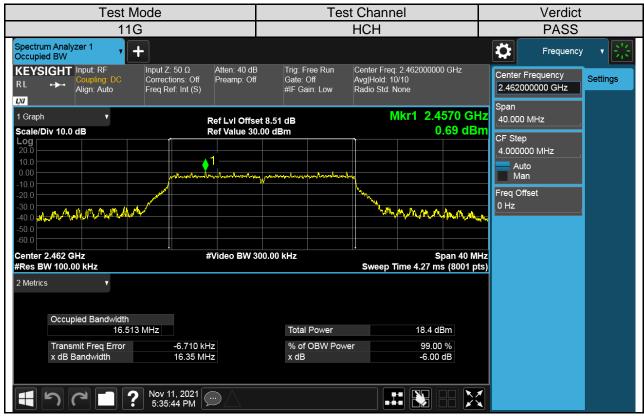






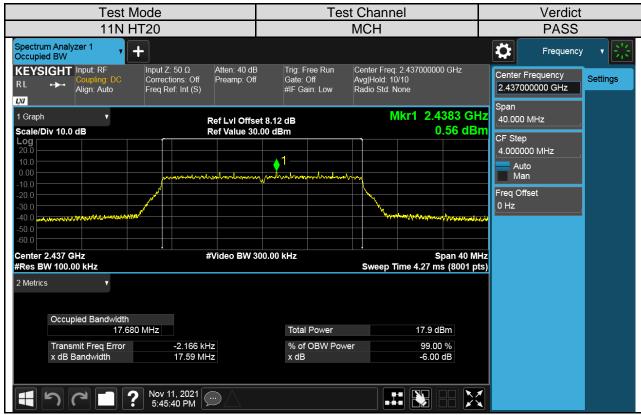






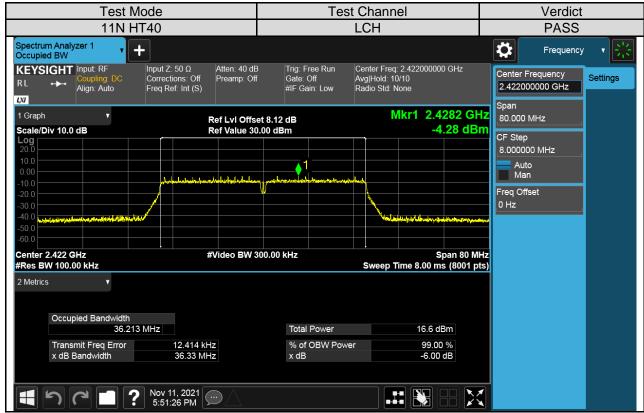






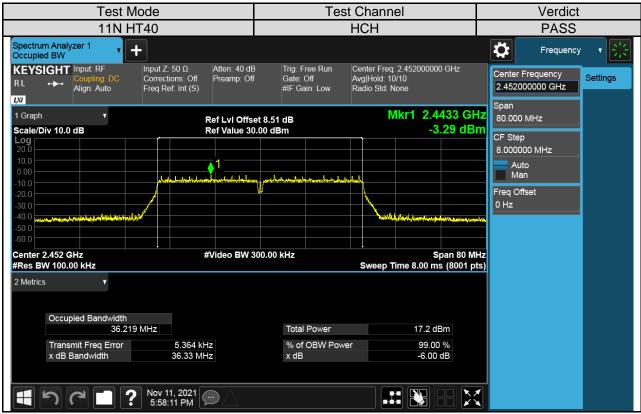














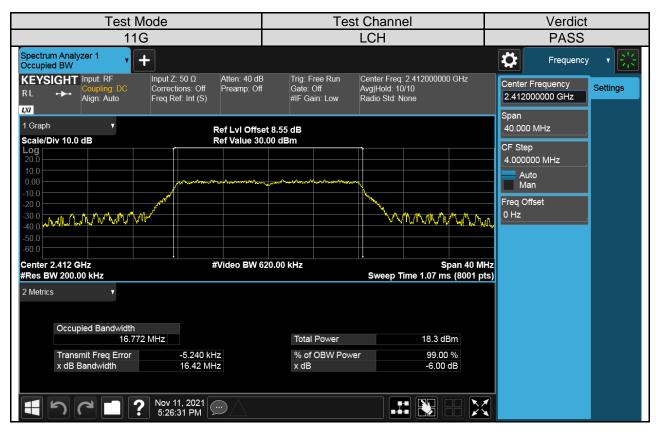
For 99% Bandwidth part:





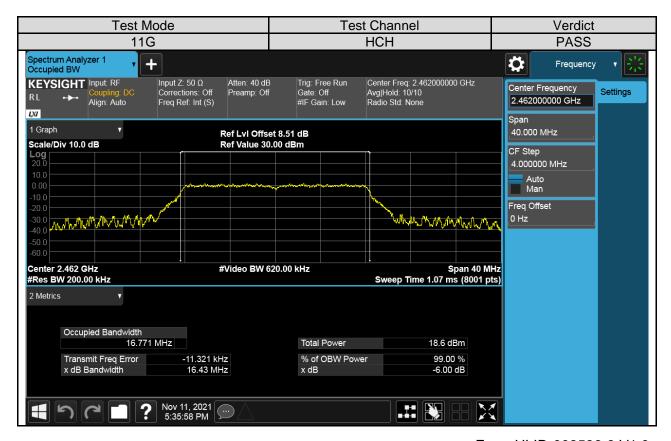




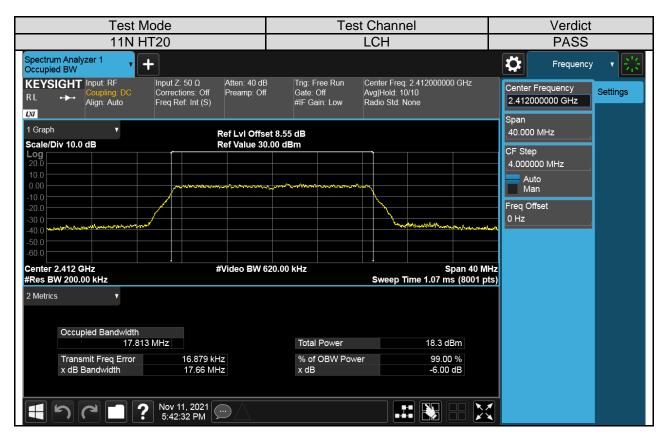








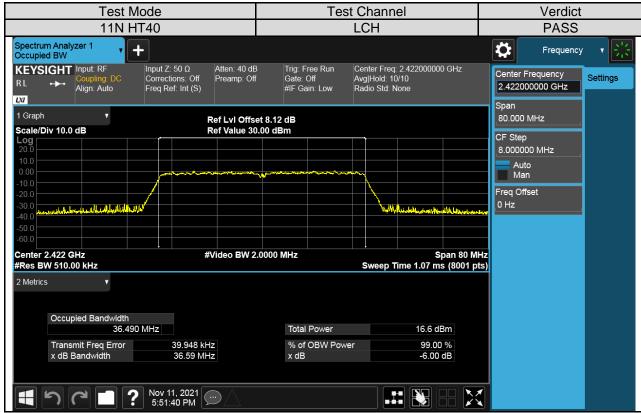




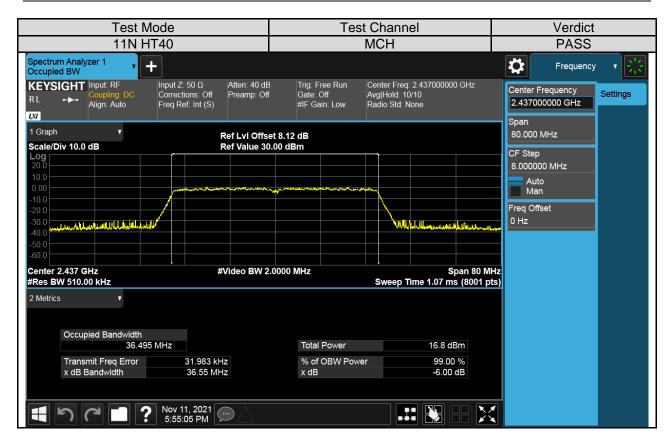


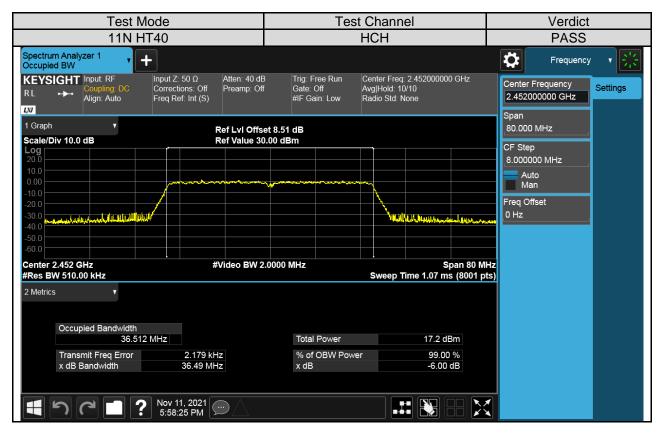












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7.4. CONDUCTED POWER

LIMITS

FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5

TEST PROCEDURE

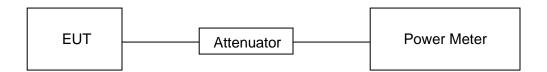
Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power Meter.

Measure the power of each channel.

AVG Detector use for AVG result.

TEST SETUP





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RESULTS

Test Mode	Test Channel	Measurement Output Power (AV)	10log(1/x) Factor	Maximum Conducted Output Power (AV)	Result	
		dBm	dB	dBm		
11B	LCH	14.57	0.04	14.61	Pass	
	MCH	14.68	0.04	14.72	Pass	
	HCH	14.44	0.04	14.48	Pass	
11G	LCH	11.59	0.21	11.80	Pass	
	MCH	11.56	0.21	11.77	Pass	
	HCH	11.82	0.21	12.03	Pass	
11N HT20	LCH	11.92	0.06	11.98	Pass	
	MCH	11.82	0.06	11.88	Pass	
	HCH	12.02	0.06	12.08	Pass	
11N HT40	LCH	10.26	0.12	10.38	Pass	
	MCH	10.18	0.12	10.30	Pass	
	HCH	10.66	0.12	10.78	Pass	

Remark:

For all the test results has been adjusted the duty cycle factor.
 For Correction Factor is refer to the result in section 7.2

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7.5. POWER SPECTRAL DENSITY

LIMITS

FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
FCC §15.247 I	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

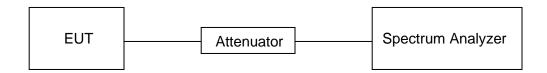
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	3 kHz ≤ RBW ≤100 kHz
VBW	≥3 × RBW
Span	1.5 x 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 SETUP





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RESULTS

Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Result
11B	LCH	0.52	Pass
	MCH	-0.11	Pass
	HCH	-0.41	Pass
11G	LCH	-4.24	Pass
	MCH	-3.35	Pass
	HCH	-2.93	Pass
11N HT20	LCH	-4.90	Pass
	MCH	-4.52	Pass
	HCH	-3.29	Pass
11N HT40	LCH	-9.11	Pass
	MCH	-9.12	Pass
	HCH	-8.78	Pass

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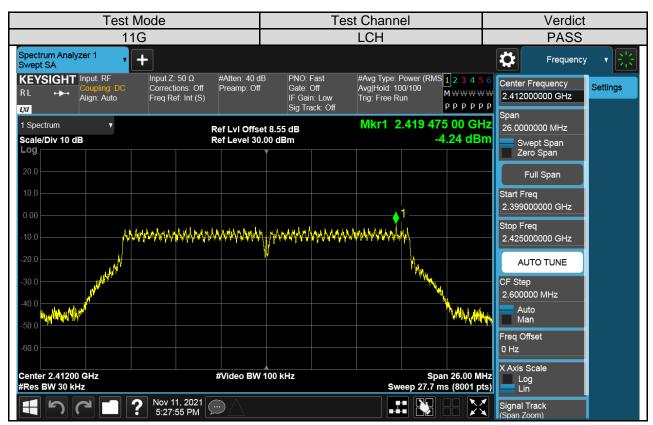
Test Graphs:





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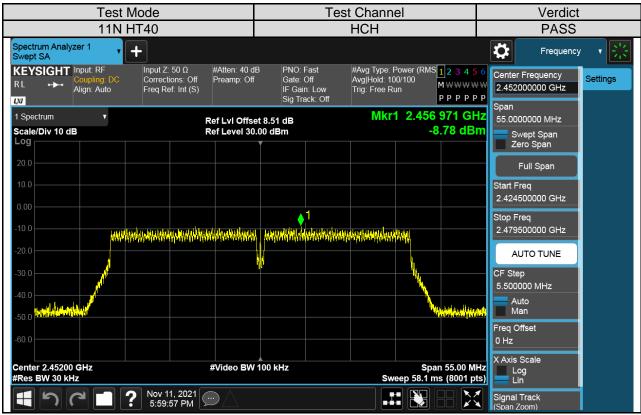














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7.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

FCC Part15 (15.247) Subpart C			
Section Test Item Limit			
FCC §15.247 (d) Conducted Bandedge and Spurious Emissions At least 30 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.

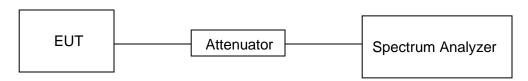
settings:

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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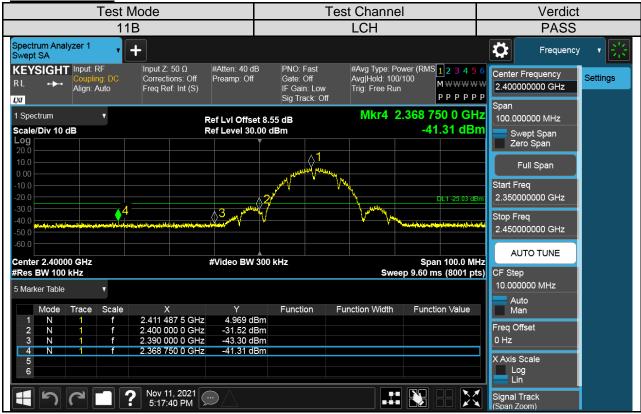
Part I : Conducted Bandedge

RESULTS TABLE

Test Mode	Test Antenna	Test Channel	Test Result	Verdict
11B	Antenna 1	LCH	See the test graphs	PASS
IID	Antenna i	HCH	See the test graphs	PASS
11G	Antonno 1	LCH	See the test graphs	PASS
TIG	Antenna 1	HCH	See the test graphs	PASS
44N UT20	Antonno 1	LCH	See the test graphs	PASS
11N HT20	Antenna 1	HCH	See the test graphs	PASS
44N UT40	Antonno 1	LCH	See the test graphs	PASS
11IN H140	11N HT40 Antenna 1		See the test graphs	PASS

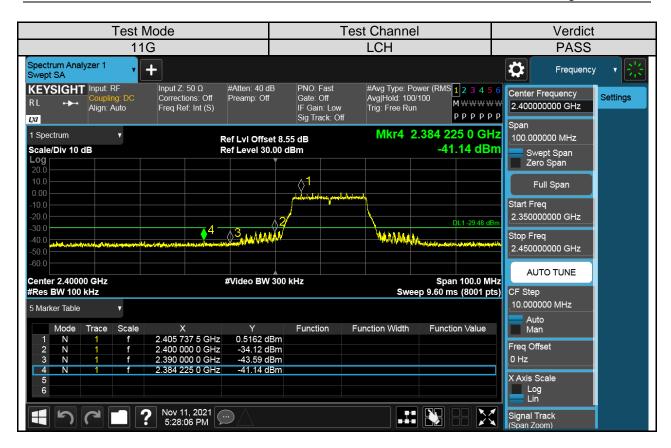
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TEST GRAPHS

























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Part II : Conducted Emission

Test Result Table

Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
	A . 1	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11B SISO	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	A . 1	LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11G SISO	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT20	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N HT40	11N HT40 Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS



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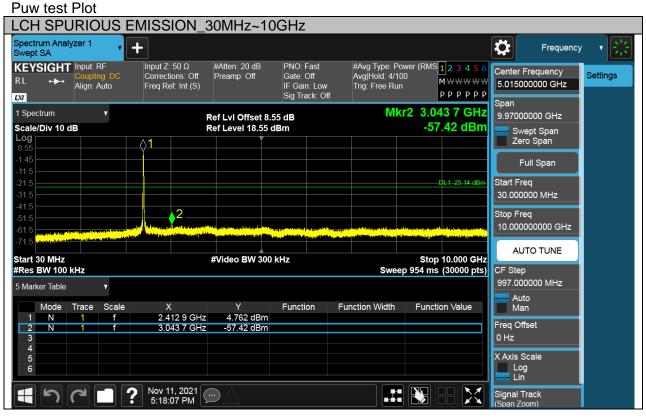
Test Plots

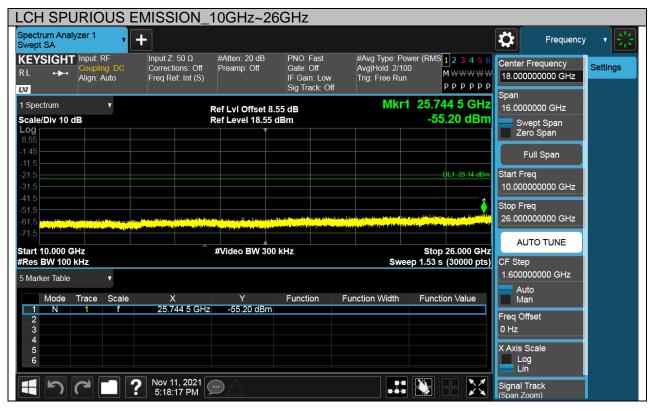
Test Mode	Channel	Verdict
11B	LCH	PASS





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Test Mode	Channel	Verdict
11B	MCH	PASS





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Puw test Plot MCH SPURIOUS EMISSION_30MHz~10GHz Spectrum Analyzer 1 Swept SA Ö Frequency #Avg Type: Power (RMS 1 2 3 4 5 (Avg|Hold: 4/100 Input Z: 50 Ω #Atten: 20 dB KEYSIGHT Input: RF PNO: Fast Center Frequency Corrections: Off Preamp: Off Gate: Off Settings Align: Auto MWWWWW 5.015000000 GHz Freq Ref: Int (S) IF Gain: Low Trig: Free Run PPPPPP LΧΙ Sig Track: Off Mkr2 3.826 4 GHz 1 Spectrum 9.97000000 GHz Ref Lvi Offset 8.12 dB Ref Level 18.12 dBm -57.39 dBm Scale/Div 10 dB Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq 10.000000000 GHz AUTO TUNE Start 30 MHz #Video BW 300 kHz Stop 10.000 GHz #Res BW 100 kHz Sweep 954 ms (30000 pts) 997.000000 MHz 5 Marker Table Function Function Width Function Value Man Mode Trace Scale 2.436 5 GHz 4.682 dBm 3.826 4 GHz Freq Offset -57.39 dBm N 0 Hz X Axis Scale Log Lin 6 Nov 11, 2021 5:21:19 PM Signal Track





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Test Mode	Channel	Verdict
11B	HCH	PASS

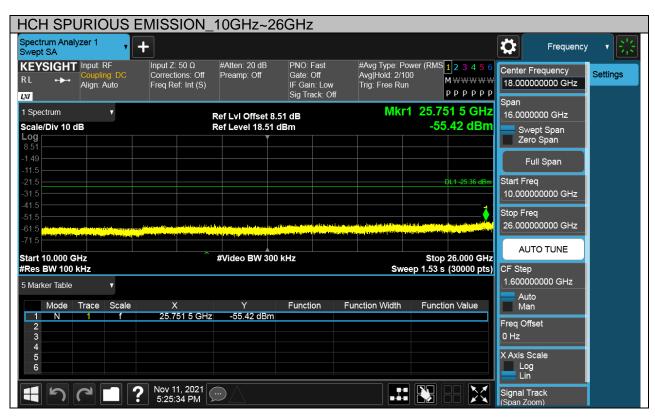




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Puw test Plot







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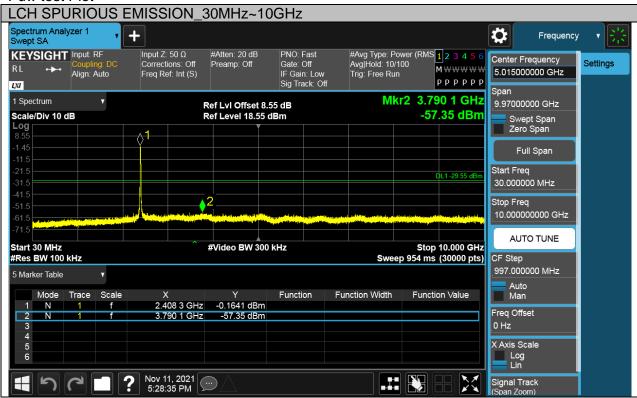
Test Mode	Channel	Verdict
11G	LCH	PASS

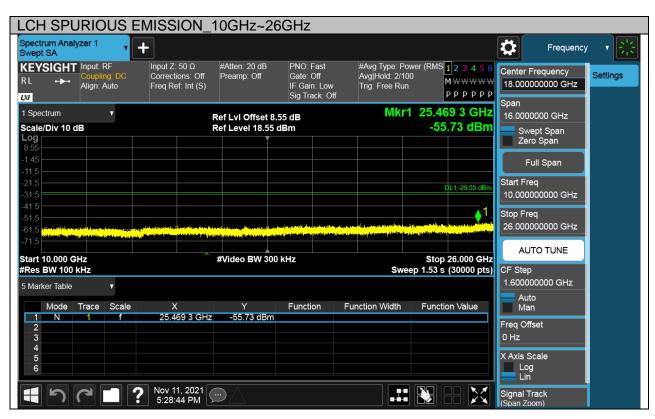




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Puw test Plot







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Test Mode	Channel	Verdict
11G	MCH	PASS





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