

## FCC 47 CFR PART 15 SUBPART C

## **CERTIFICATION TEST REPORT**

For

## **CONSUMER CAMERA**

### **MODEL NUMBER: IPC-F42FEP-C**

ADDTIONAL MODEL NUMBER: IPC-F42FEP-C-imou;IPC-F42FEP-C-0280B-imou; IPC-F42FEP-C-0360B-imou; IPC-F42FEP-C-0600B-imou; IPC-F42FEN-C; IPC-F42FEN-C-imou; IPC-F42FEN-C-0280B-imou; IPC-F42FEN-C-0360B-imou; IPC-F42FEN-C-0600B-imou; LC-K32F-4M-C; IPC-F42FE-C-LC; IPC-F42FE-C-0280B-LC; IPC-F42FE-C-0360B-LC; IPC-F42FE-C-0600B-LC; IPC-F42FEP-C-0280B; IPC-F42FEP-C-0360B; IPC-F42FEP-C-0600B; IPC-F42FEN-C-0280B; IPC-F42FEN-C-0360B; IPC-F42FEN-C-0600B

### **PROJECT NUMBER: 4790033180-3**

### **REPORT NUMBER: 4790033180-3-3**

## FCC ID: 2AVYF-IPC-F4XFE-C

## **ISSUE DATE: Aug 02, 2021**

### Prepared for

#### Hangzhou Huacheng Network Technology Co.,Ltd. Prepared by

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### **Revision History**

Rev.	Issue Date	Revisions	Revised By
V0	08/02/2021	Initial Issue	



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# **1. ATTESTATION OF TEST RESULTS**

### **Applicant Information**

Company Name: Address:	Hangzhou Huacheng Network Technology Co.,Ltd. No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
Manufacturer Information Company Name: Address:	Hangzhou Huacheng Network Technology Co.,Ltd. No.2930, Nanhuan Road, Binjiang District, Hangzhou, China
EUT Description Product Name: Model Name: Additional No. : Sample Number: Data of Receipt Sample:	CONSUMER CAMERA IPC-F42FEP-C IPC-F42FEP-C-imou;IPC-F42FEP-C-0280B-imou; IPC-F42FEP- C-0360B-imou; IPC-F42FEP-C-0600B-imou; IPC-F42FEN-C; IPC-F42FEN-C-imou; IPC-F42FEN-C-0280B-imou; IPC-F42FEN- C-0360B-imou; IPC-F42FEN-C-0600B-imou; LC-K32F-4M-C; IPC-F42FE-C-LC; IPC-F42FE-C-0280B-LC; IPC-F42FE-C- 0360B-LC; IPC-F42FE-C-0600B-LC; IPC-F42FEP-C-0280B; IPC-F42FEP-C-0360B; IPC-F42FEP-C-0600B; IPC-F42FEN-C- 0280B; IPC-F42FEN-C-0360B; IPC-F42FEN-C-0600B 4083927 Jul 20, 2021
Date Tested:	Jul 20, 2021~ Aug 02, 2021

#### APPLICABLE STANDARDS

STANDARD	

TEST RESULTS

CFR 47 Part 15 Subpart C

PASS



Summary of Test Results								
Clause	Test Items	FCC Rules	Test Results					
1	6db DTS Bandwidth	FCC 15.247 (a) (2)	PASS					
2	Conducted Power	FCC 15.247 (b) (3)	PASS					
3	Power Spectral Density	FCC 15.247 (e)	PASS					
4	Conducted Band edge And Spurious emission	FCC 15.247 (d)	PASS					
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205	PASS					
6 Conducted Emission Test For AC Power Port FCC 15.207 PASS								
7	7 Antenna Requirement FCC 15.203 PASS							
,	Remark: 1) The measurement result for the sample received is <pass> according to &lt; ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15C&gt; when <accuracy method=""> decision rule is applied.</accuracy></pass>							

100.01

Prepared By:

Reviewed By:

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Tom Tang

Tom Tang Project Engineer Leon Wu Senior Project Engineer

Authorized By:

Chris Zhong

Chris Zhong Laboratory Leader



# 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) 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	3.1dB			
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)			
	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.				



# 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

Product Name:	CONSUMER CAMERA		
Model No.:	IPC-F42FEP-C		
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		
Sample Type:	Fixed production		
Test software of EUT:	Secure CRT (manufacturer declare)		
Antenna Type:	Monopole Antenna		
Antenna Gain:	Antenna1: 1.43 dBi		
	Antenna2: 1.43 dBi		
	Remark: This data is provided by customer and our lab isn't responsible for this data		
Adapter	NAME: Power Adapter		
	MODEL: ADS-12AM-12 12012EPCU		
	INPUT:100-240V,50/60Hz, 0.3A		
	OUTPUT:12V II 1A		

#### Remark:

Model No.:

Number:	Name:	Number:	Name:	Number:	Name:
1	IPC-F42FEP-C	2	IPC-F42FEP-C-imou	3	IPC-F42FEP-C-0280B- imou
4	IPC-F42FEP-C-0360B- imou	5	IPC-F42FEP-C-0600B-imou	6	IPC-F42FEN-C
7	IPC-F42FEN-C-imou	8	IPC-F42FEN-C-0280B- imou	9	IPC-F42FEN-C-0360B- imou
10	IPC-F42FEN-C-0600B- imou	11	LC-K32F-4M-C	12	IPC-F42FE-C-LC
13	IPC-F42FE-C-0280B-LC	14	IPC-F42FE-C-0360B-LC	15	IPC-F42FE-C-0600B-LC
16	IPC-F42FEP-C-0280B	17	IPC-F42FEP-C-0360B	18	IPC-F42FEP-C-0600B
19	IPC-F42FEN-C-0280B	20	IPC-F42FEN-C-0360B	21	IPC-F42FEN-C-0600B

Only the main model **IPC-F42FEP-C** 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.



## 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]	15.64
1	IEEE 802.11G SISO	1-11[11]	15.24
1/2	IEEE 802.11nHT20	1-11[11]	17.12
1/2	IEEE 802.11nHT40	3-9[7]	16.73

## 5.3. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)								
Channel Channel Channel Channel Channel 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	Frequenc y(MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
3	2422	5	2432	7	2442	9	2452	
4	2427	6	2437	8	2447			

3.4. TEOTONAMILE CONTRONATION								
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						

## 5.4. TEST CHANNEL CONFIGURATION

## 5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Softw	vare			EspRF	testTool			
	Transmit		Test Channel					
Modulation Mode	Antenna	1	NCB: 20MH	lz	١	NCB: 40MHz		
Widde	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	1/2	N/A N/A N/A						
802.11n HT40	1/2		/		N/A	N/A	N/A	



## 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)	Directional gain(dBi)
1	2400-2483.5	Monopole Antenna	1.43	4.44
2	2400-2483.5	Monopole Antenna	1.43	

Note:

- 1) Directional gain=  $10\log [(10^{G1/20} + 10^{G2/20})^2/N_{ANT}] = 4.44 \text{ dBi}$
- 2) N<sub>ANT</sub>: the number of Antenna
- 3) For this product, it has two antennas, antenna1 and antenna2, but only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only the antenna1 is working.

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) MIMO	⊠2TX, 2RX	Antenna1 or Antenna2 can be used as transmitting/receiving antenna independently.
IEEE 802.11N (HT40) MIMO	⊠2TX, 2RX	Antenna1 or Antenna2 can be used as transmitting/receiving antenna independently.

Remark:

 For this product, it has two antennas, antenna1 and antenna2, only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. For the modes of 11B&11G only the antenna1 is working.

2) For the 11N mode (including the 11N HT20 SISO,11N HT20 MIMO,11N HT40 SISO,11N HT40 MIMO), pre-testing all test modes, only the worst case modes is included in this report.

## 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



## 5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests			
Relative Humidity	55	5 ~ 65%		
Atmospheric Pressure:	1001Pa			
Temperature	TN	20 ~ 28°C		
	VL	N/A		
Voltage :	VN	AC 120V		
	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	SD Card	N/A	N/A	Supply by UL Lab
3	Fixed Frequency Board	N/A	N/A	Supply by Customer

#### I/O PORT

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

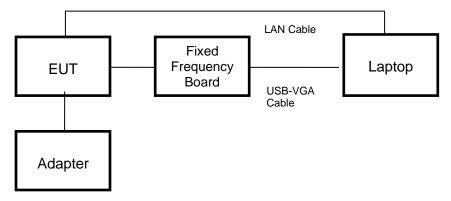
#### ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	Adapter	Power Adapter	ADS-12AM-12 12012EPCU	INPUT:100-240V,50/60Hz, 0.3A OUTPUT:12V 1A

#### **TEST SETUP**

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

### SETUP DIAGRAM FOR TESTS



Remark: The EUT has been built one SD card during the testing



## 5.10. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions (Instrument)								
Used	Equipment	Manufacturer	Mode	el No.	Seri	al No.	Upper Last Cal.	Last Cal.	Next Cal.
$\checkmark$	EMI Test Receiver	R&S	ES	R3	12	6700	2019-12-12	2020-12-05	2021-12-04
$\checkmark$	Two-Line V-Network	R&S	ENV	216	12	6701	2019-12-12	2020-12-05	2021-12-04
	Artificial Mains Networks	R&S	EN	<b>/</b> 81	12	6711	2019-12-12	2020-12-05	2021-12-04
				Soft	ware				
Used	Des	cription		Ма	anufac	turer	Name	Version	
$\checkmark$	Test Software for (	Conducted distur	bance		R&S		EMC32	Ver. 9.25	
-		Ra	diated	Emiss	ions (	Instrum	ent)		
Used	Equipment	Manufacturer	Mode	el No.	Seri	al No.	Upper Last Cal.	Last Cal.	Next Cal.
$\checkmark$	Spectrum Analyzer	Keysight	N90	10B	MY57	110128	2020-05-10	2021-05-09	2022-05-08
$\checkmark$	EMI test receiver	R&S	ESF	R26	126	57603	2019-12-12	2020-12-05	2021-12-04
$\checkmark$	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZB	1513	513	8-265	2018-06-15	2021-06-03	2022-06-02
$\checkmark$	Receiver Antenna (30MHz-1GHz)	SunAR RF Motion	JB	31	17	7821	N/A	2019-01-28	2022-01-27
$\checkmark$	Receiver Antenna (1GHz-18GHz)	R&S	HF907		12	6705	2018-01-29	2019-01-28	2022-01-27
$\checkmark$	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170		12	6706	2018-01-06	2019-01-05	2022-01-04
$\checkmark$	Pre-amplification (To 18GHz)	Compliance Direction System Inc.	PAP-10	G18-50	1414(	)-13467	2019-03-18	2020-12-05	2021-12-04
$\checkmark$	Pre-amplification (To 26.5GHz)	R&S	SCU	-26D	13	4668	2019-02-06	2020-09-27	2021-09-26
V	Band Reject Filter	Wainwright	WRC 2350-2 2483.5-2 408	2400- 2533.5-		1	2020-05-10	2021-05-09	2022-05-08
	Highpass Filter	Wainwright	WHK 2700-: 18000-	3000-		2	2020-05-10	2021-05-09	2022-05-08
				Soft	ware				
Used	Desci	ription	Μ	lanufac	turer		Name	Version	
$\checkmark$	☑ Test Software for Radiated disturbance Tonsc			Tonsce	end		JS32	V1.0	
			Ot	her ins	strum	ents			
Used	Equipment	Manufacturer	Model No.		Seri	al No.	Upper Last Cal.	Last Cal.	Next Cal.
$\checkmark$	Spectrum Analyzer	Keysight	N90	10B	MY57	110128	2020-05-10	2021-05-09	2022-05-08
$\checkmark$	Power Meter	Keysight	U202	1XA	MY57	110002	2020-05-10	2021-05-09	2022-05-08



# 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	8.3.1.3/8.3.2.3
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

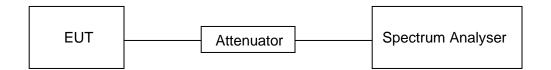
### <u>LIMITS</u>

None; for reporting purposes only

### PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

### TEST SETUP



### **RESULTS**

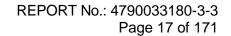
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (KHz)
11B	100	100	1	100	0	0.01
11G	100	100	1	100	0	0.01
11N HT20	100	100	1	100	0	0.01
11N HT40	100	100	1	100	0	0.01

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) Pre-testing Antenna 1 and Antenna2, and pre-testing SISO and MIMO modes, only the data of worse case is shown in this test repot.





		11B ON TIM	E AND DU	ITY CYCL	E MID CH	H (WORSE C/	ASE)	
Spectrum Analy Swept SA	ľ.	+					Frequency	v 5 <u>8</u>
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 40 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pe Trig: Free Rui	ower (RMS 1 2 3 4 5 6 W W W W W A A A A A A	Center Frequency 2.437000000 GHz	Settings
Da 1 Spectrum Scale/Div 10 dl	▼ B		Ref Level 23.00 d				Span 0.00000000 Hz Swept Span	
Log 13.0 3.00							Zero Span Full Span	
-7.00 -17.0 -27.0							Start Freq 2.437000000 GHz	
-37.0 -47.0 -57.0 -67.0							Stop Freq 2.437000000 GHz	
Center 2.43700 Res BW 8 MHz			#Video BW 8.0 M	IHz*	Swee	Span 0 Hz p 40.00 ms (8001 pts)	CF Step	
5 Marker Table	▼ Trace Scale	X	Y	Function	Function Width	Function Value	8.000000 MHz Auto Man	
2 3 4							Freq Offset 0 Hz	
5 6							X Axis Scale Log Lin	
<b>1</b> 50		<b>?</b> Jul 21, 2021 10:40:01 AM					Signal Track (Span Zoom)	
		11G ON TIM	E AND DU	ITY CYCL	E MID CH	H (WORSE C	ASE)	



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Spec Swep	trum Ana ot SA	lyzer 1	۲	+								<b>‡</b>	Frequency	۲ ۲
KEN RL	′SIGH <sup>-</sup> ↔	Input: Coupli Align: J	ng: DC			#Atten: 40 dB Preamp: Off	Gate: IF Gai		#Avg Type: F Trig: Free Ru	in N	123456 WWWWWW AAAAAA	Center Frequ 2.43700000		Settings
1 Spe	ectrum e/Div 10	dB	•			Ref Level 23.	00 dBm					Span 0.00000000		
<b>Log</b> 13.0						ter Lever 23.						Swept S Zero Spa		
3.00 -7.00 -17.0	1		in na in the second	a an an Allen a an Anna an Anna an Anna		an in an	and the part of the second		a na anna ann an ann an an an an an an a			Full Sp Start Freg	ban	
-17.0 -27.0 -37.0												2.43700000	) GHz	
-47.0 -57.0												Stop Freq 2.43700000	) GHz	
-67.0 Cent	er 2.4370	000000	GHz		#	Video BW 8	.0 MHz*				Span 0 Hz	AUTO T	UNE	
	BW 8 MF		v						Swee	ep 5.000 m	s (8001 pts)	CF Step 8.000000 MH	Ηz	
	Mode	Trace	Scale	<u> </u>	(	Y	Funct	ion Fu	nction Width	Functio	on Value	Auto Man		
2												Freq Offset 0 Hz		
4 5 6												X Axis Scale Log Lin		
	5	2			I, 2021 :47 AM							Signal Track (Span Zoom)		



		11N	HT20 ON		DUTY	CYCLE MI	D CH (WO	ORSE	CAS	Ξ)	
Spectrum Ana Swept SA	llyzer 1	•	+						₽	Frequency	· · · 😤
KEYSIGH	Input: Coupli Align:	ng: DC	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 40 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Lo Sig Track:	w	W W	3 4 5 6	Center F 2.43700	requency 0000 GHz	Settings
1 Spectrum Scale/Div 10 Log 13.0	dB	•		Ref Level 23.0						000 Hz pt Span Span	
3.00									Start Fre	ll Span q 0000 GHz	
-37.0 -47.0 -57.0 -67.0									Stop Fre		
Center 2.4370 Res BW 8 MH 5 Marker Table	lz	GHz		#Video BW 8.0	MHz*	Swe	Sj eep 100.3 ms (8	pan 0 Hz 8001 pts)	AUT CF Step 8.00000	O TUNE	
Mode 1	Trace	Scale	Х	Y	Function	Function Widt	n Function \	/alue	Auto Man		
2 3 4									Freq Offs 0 Hz X Axis So		
			Jul 20. 2021						Log Lin		
			9:03:47 PM					i 🖍	Signal Tr (Span Zoo		

1	1N HT40 ON <sup>-</sup>		DUTY CY	CLE MID	CH (WORSE	CASE)	
Spectrum Analyzer 1 Swept SA	• +					Frequency	· · · · · · · · · · · · · · · · · · ·
KEYSIGHT         Input: RF           R L         •••         Coupling: Div           Align: Auto         Align: Auto	C Input Z: 50 Ω C Corrections: Off Freq Ref: Int (S)	#Atten: 40 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS 1 2 3 4 5 6 W \WWWWW A A A A A A	Center Frequency 2.437000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB		Ref Level 23.00 c				Span 0.00000000 Hz	
Log 13.0						Swept Span Zero Span	
-7.00 -17.0						Full Span Start Freq	
-17.0 -27.0 -37.0						2.437000000 GHz	
-47.0						Stop Freq 2.437000000 GHz	
-67.0 Center 2.437000000 GHz		#Video BW 8.0 M	IHz*		Span 0 Hz		
Res BW 8 MHz 5 Marker Table				Sweep	o 100.3 ms (8001 pts)	8.000000 MHz	
Mode Trace Sca	ale X	Y	Function f	Function Width	Function ∀alue	Auto Man	
2 3 4						Freq Offset 0 Hz	
5 6						X Axis Scale Log Lin	
	<b>J</b> ul 20, 2021 9:04:18 PM					Signal Track (Span Zoom)	

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## 7.2. 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				

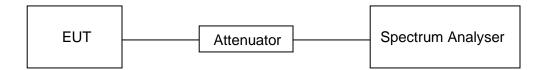
### TEST PROCEDURE

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
RBW	For 6dB Bandwidth :100K
VBW	For 6dB Bandwidth : ≥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





### **RESULTS**

Test Mode	Test Antenna	Test Channel	6dB bandwidth (MHz)	Result
		LCH	10.07	Pass
11B SISO	Antenna 1	MCH	10.07	Pass
		HCH	10.07	Pass
		LCH	16.53	Pass
11G SISO	Antenna 1	MCH	16.53	Pass
		HCH	16.55	Pass
		LCH	17.68	Pass
	Antenna 1	MCH	17.67	Pass
11N20MIMO		HCH	17.67	Pass
	Antenna 2	LCH	17.71	Pass
		MCH	17.68	Pass
		HCH	17.73	Pass
		LCH	36.37	Pass
	Antenna 1	MCH	36.36	Pass
1111000000		НСН	36.36	Pass
11N40MIMO		LCH	36.39	Pass
	Antenna 2	MCH	36.37	Pass
		HCH	36.39	Pass

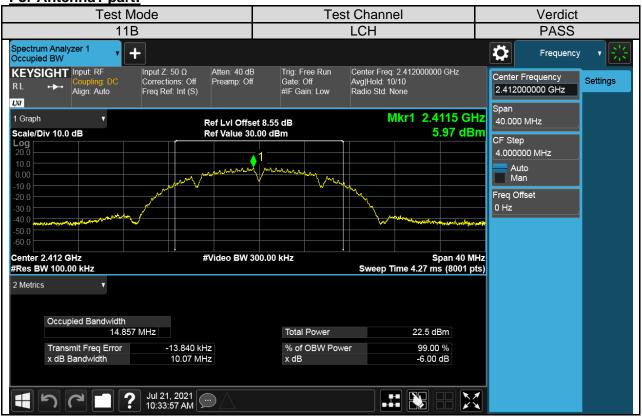
Remark:

1) For this product, it has two antennas, antenna1 and antenna2, but only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. But for the modes of 11B &11G,only the antenna 1 is working.

2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.



#### Test Graphs For Antenna1 part:

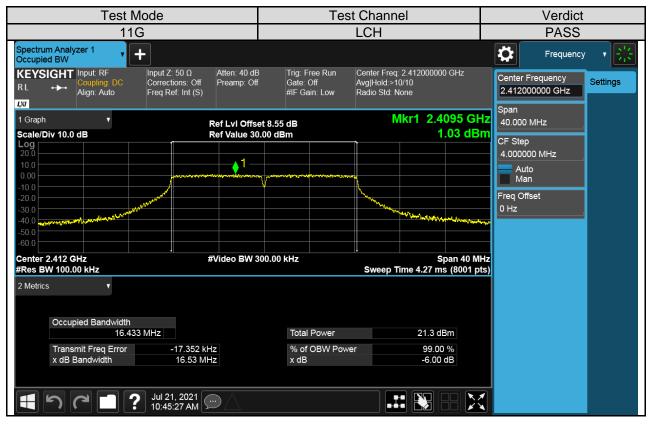




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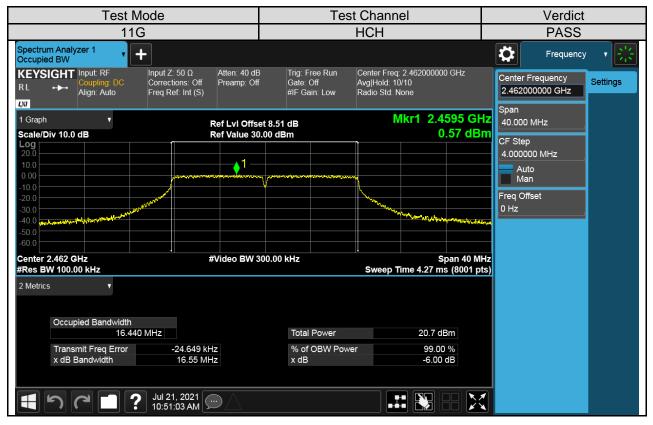






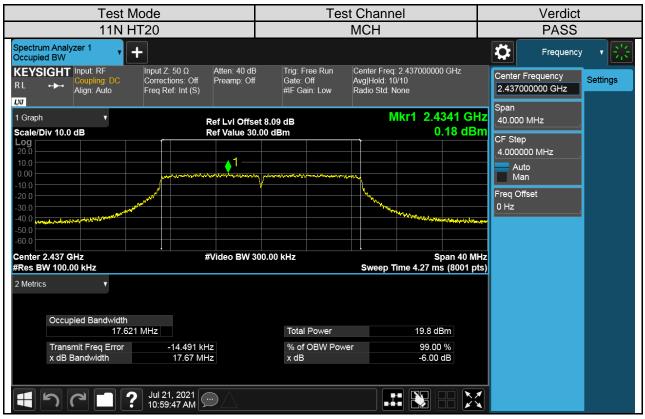








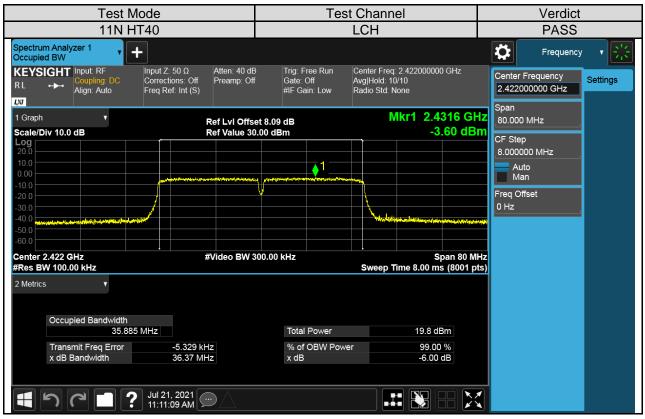




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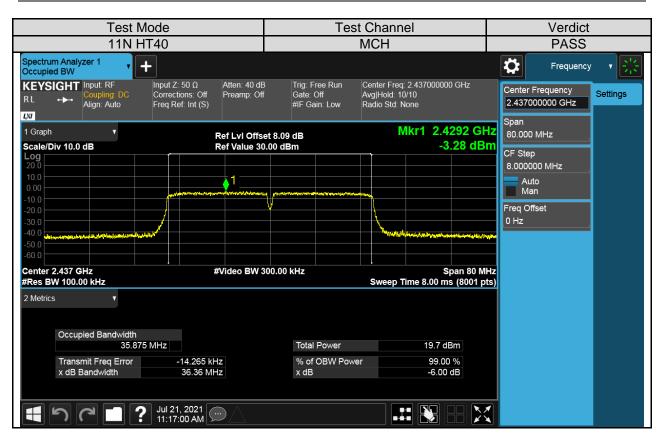


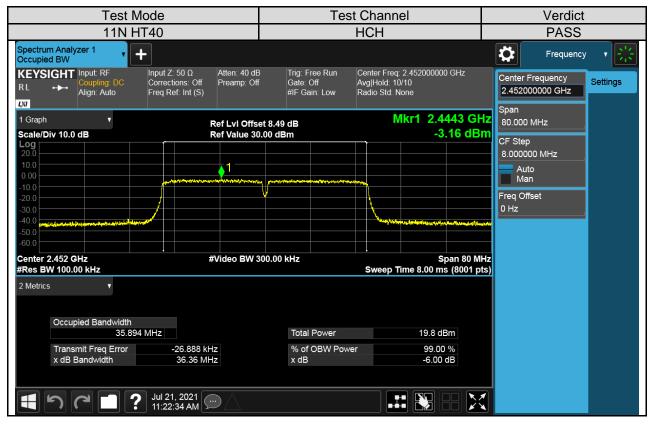




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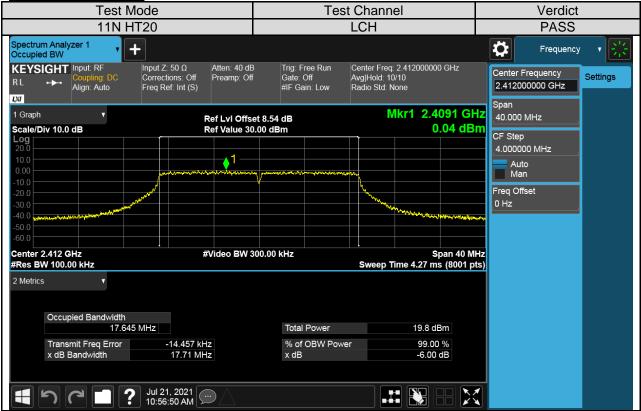


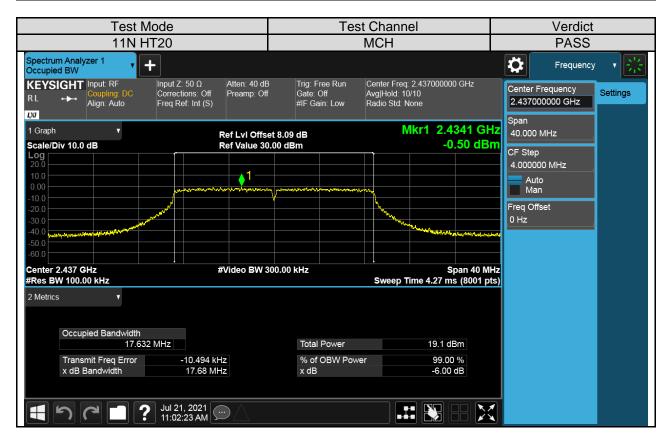






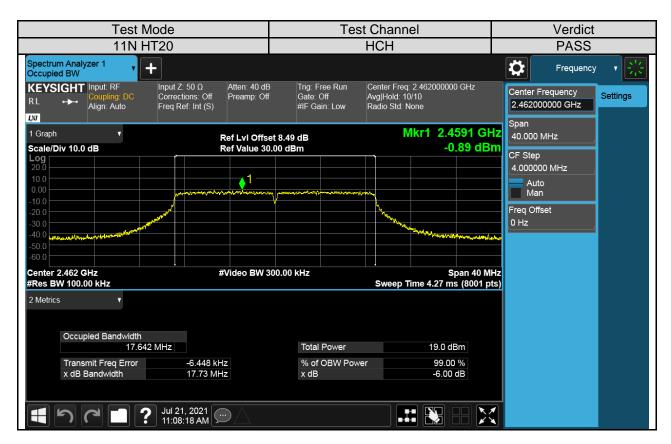
#### For Antenna 2 part:

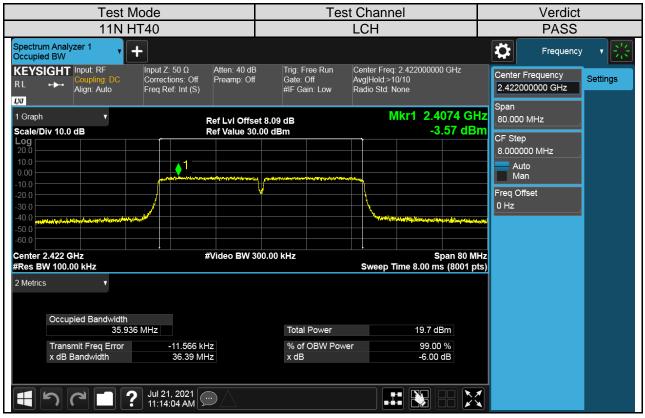




UL-CCIC COMPANY LIMITED

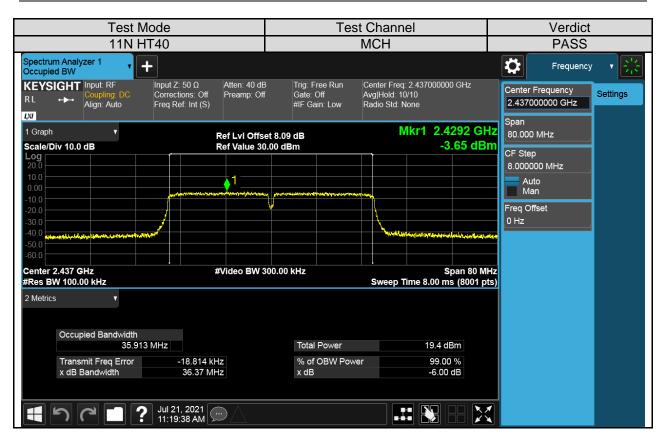


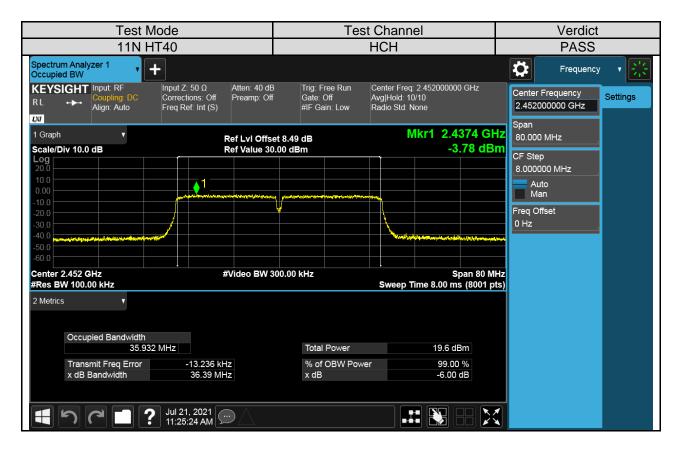




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## 7.3. CONDUCTED POWER

#### **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				
If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.							

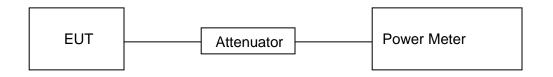
#### TEST PROCEDURE

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. AVG Detector use for AVG result.

## TEST SETUP



#### **RESULTS**

Test Mode	Test Antenna	Test Channel	Maximum Average Conducted Output Power (dBm)	Result
		LCH	15.64	Pass
11B	Antenna 1	MCH	15.30	Pass
		HCH	15.56	Pass
		LCH	15.24	Pass
11G	Antenna 1	MCH	14.88	Pass
		HCH	14.70	Pass
		LCH	14.37	Pass
	Antenna 1	MCH	13.86	Pass
		HCH	13.71	Pass
		LCH	13.83	Pass
11N20MIMO	Antenna 2	MCH	13.15	Pass
		HCH	13.09	Pass
	Antenna 1+2	LCH	17.12	Pass
		MCH	16.53	Pass
		HCH	16.42	Pass
		LCH	13.70	Pass
	Antenna 1	MCH	13.65	Pass
		HCH	13.76	Pass
		LCH	13.73	Pass
11N40MIMO	Antenna 2	MCH	13.36	Pass
		HCH	13.54	Pass
		LCH	16.73	Pass
	Antenna 1+2	MCH	16.52	Pass
		HCH	16.66	Pass

Remark:

1) For all the test results has been adjusted the duty cycle factor.

2) For Correction Factor is refer to the result in section 7.1

- 3) For this product, it has two antennas, antenna1 and antenna2, but only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. But for the modes of 11B &11G,only the antenna 1 is working.
- 4) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.



## 7.4. POWER SPECTRAL DENSITY

#### <u>LIMITS</u>

FCC Part15 (15.247) Subpart C							
Section Test Item Limit Frequency Range (MHz)							
FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5				
If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.							

#### TEST PROCEDURE

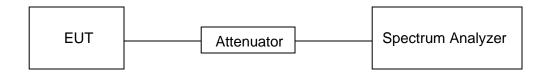
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

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





## **RESULTS**

Test Mode	Test Antenna	Test Channel	Maximum Peak power spectral density(dBm/30kHz)	Result
		LCH	0.75	Pass
11B	Antenna 1	MCH	0.39	Pass
		НСН	0.68	Pass
		LCH	-1.78	Pass
11G	Antenna 1	MCH	-2.21	Pass
		НСН	-2.45	Pass
		LCH	-2.42	Pass
	Antenna 1	MCH	-2.98	Pass
		НСН	-3.06	Pass
		LCH	-3.15	Pass
11N20MIMO	Antenna 2	MCH	-3.61	Pass
		НСН	-3.70	Pass
		LCH	0.24	Pass
	Antenna 1+2	MCH	-0.27	Pass
		HCH	-0.36	Pass
		LCH	-6.04	Pass
	Antenna 1	MCH	-6.37	Pass
		HCH	-6.24	Pass
		LCH	-6.46	Pass
11N40MIMO	Antenna 2	MCH	-6.73	Pass
		HCH	-6.28	Pass
		LCH	-3.23	Pass
	Antenna 1+2	MCH	-3.54	Pass
		HCH	-3.25	Pass



# For Antenna 1 Part:





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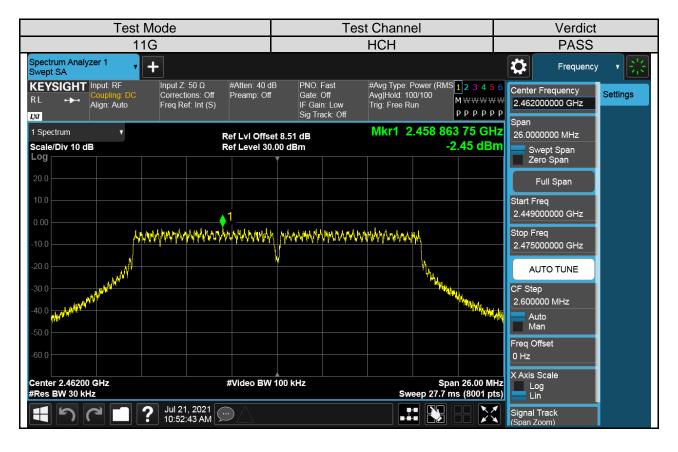




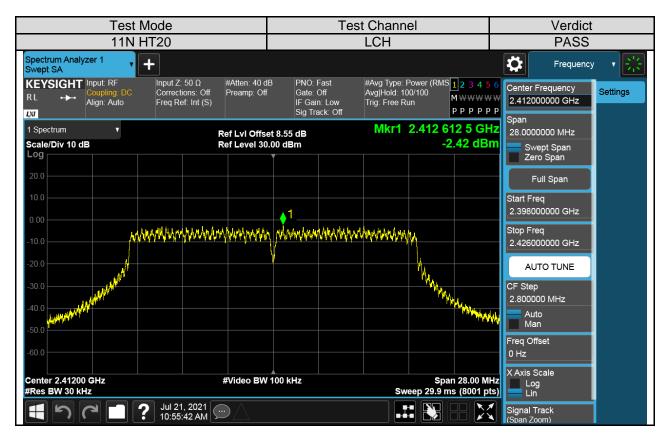


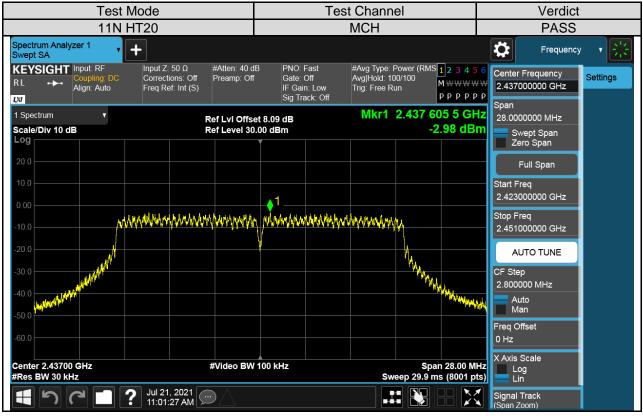




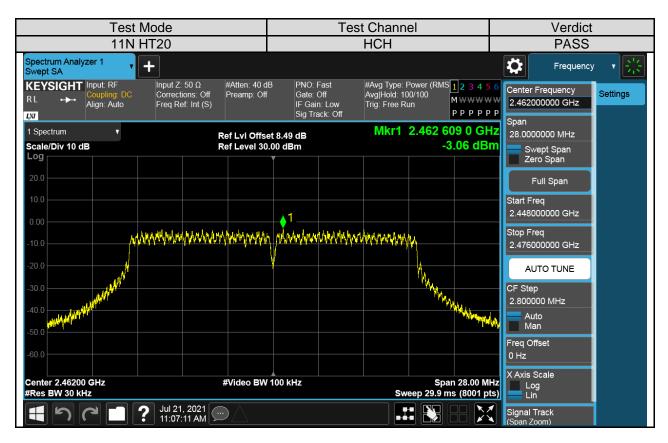








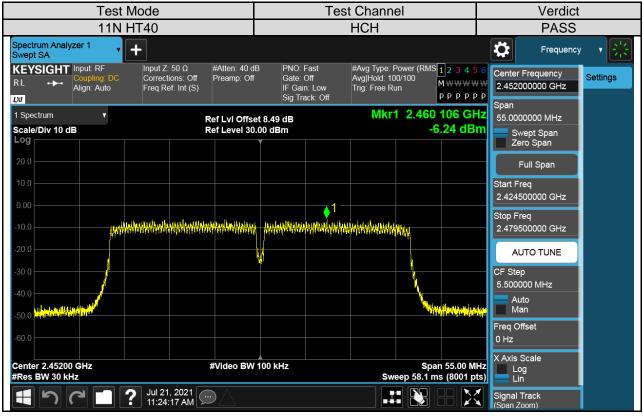




Test M	Node	Tes	t Channel	Verdict
11N F	HT40		LCH	PASS
Swept SA	+			Frequency V
KEYSIGHT       Input: RF         R L       ↔         Align: Auto	Input Z: 50 Ω #Atten: 40 d Corrections: Off Freq Ref: Int (S)		#Avg Type: Power (RMS 1 2 3 4 5 Avg Hold: 100/100 Trig: Free Run P P P P P	2.422000000 GHz
1 Spectrum v Scale/Div 10 dB Log	Ref Lvi Offs Ref Level 30		Mkr1 2.430 106 GH -6.04 dB	
20.0				Full Span Start Freq 2.394500000 GHz
	itenneliseliseliseliselitenetteelitenise	1 Antonikitan wanataniya	umpunitumment	Stop Freq 2.449500000 GHz
-20.0		<b>V</b>		CF Step 5.500000 MHz
-40.0 -50.0			Male (Monthing Internation)	
-60.0				Freq Offset 0 Hz
Center 2.42200 GHz #Res BW 30 kHz	#Video BW	100 kHz	Span 55.00 M Sweep 58.1 ms (8001 p	
	Jul 21, 2021			Signal Track (Span Zoom)

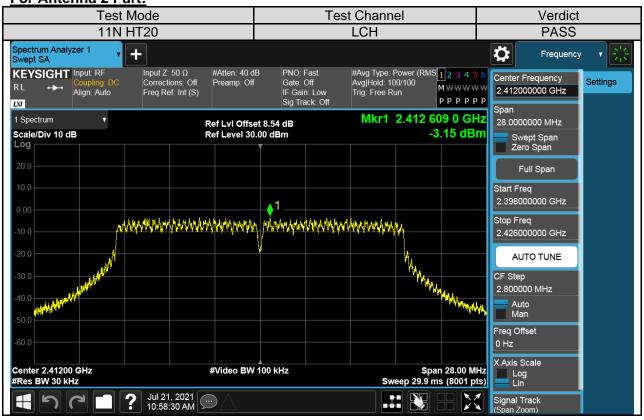


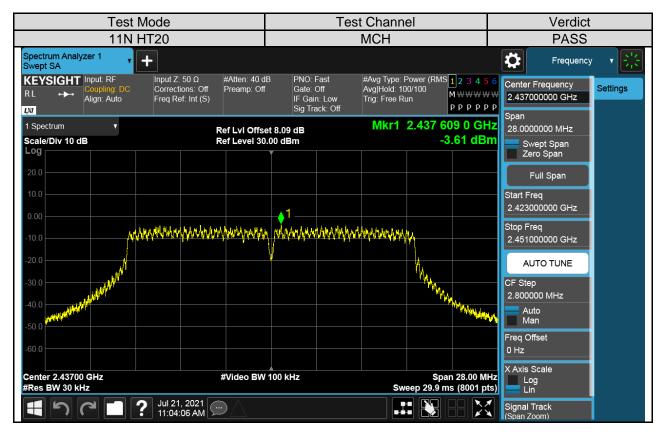






# For Antenna 2 Part:

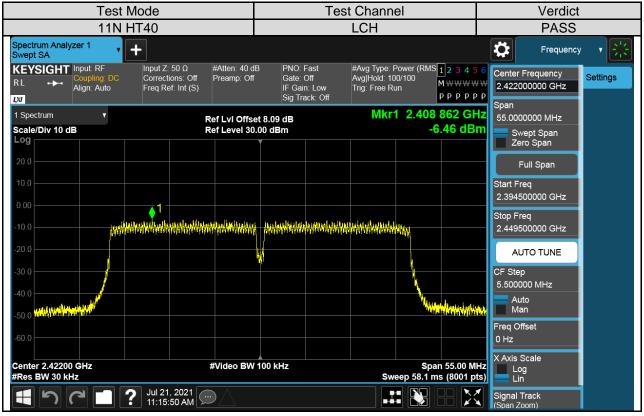




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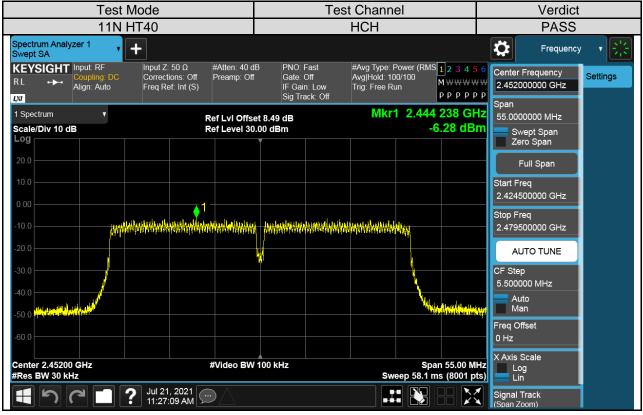














# 7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

#### <u>LIMITS</u>

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

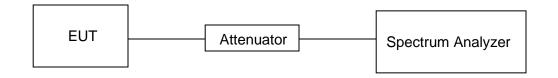
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.
settings:	·

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	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Antenna 1	LCH	5.818	-41.73	-24.18	PASS
ПВ	Antenna i	HCH	5.737	-42.03	-24.26	PASS
11G	Antonno 1	LCH	0.978	-41.20	-29.02	PASS
ПĞ	Antenna 1	HCH	0.583	-41.05	-29.42	PASS
	Antenna 1	LCH	0.483	-41.23	-29.52	PASS
		HCH	-0.681	-40.82	-30.68	PASS
11N20MIMO	Antenna 2	LCH	-0.323	-41.48	-30.32	PASS
		HCH	-0.693	-41.03	-30.69	PASS
	Antonno 1	LCH	-3.606	-41.66	-33.61	PASS
445140541540	Antenna 1	HCH	-3.459	-39.83	-33.46	PASS
11N40MIMO	Antonno O	LCH	-3.323	-41.10	-33.32	PASS
	Antenna 2	HCH	-3.629	-38.82	-33.63	PASS

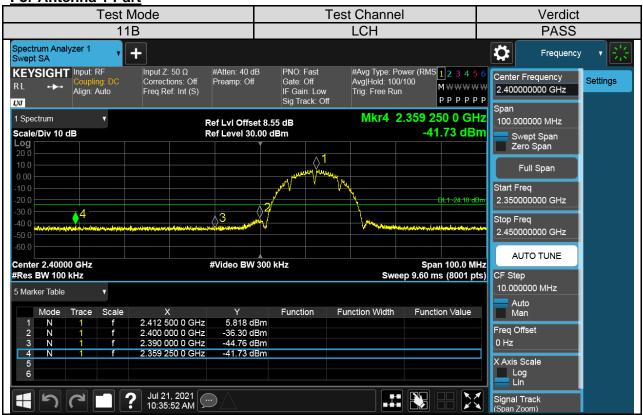
Remark:

1) For this product, it has two antennas, antenna1 and antenna2, but only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. But for the modes of 11B &11G,only the antenna 1 is working.

2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.



# For Antenna 1 Part



Test Mode	Test	t Channel	Verdict
11B		HCH	PASS
Spectrum Analyzer 1 Swept SA			Frequency v 🔆
	#Atten: 40 dB PNO: Fast Preamp: Off Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Avg Hold: 100/100 Trig: Free Run P P P P P	2.483500000 GHz
	ef LvI Offset 8.51 dB ef Level 30.00 dBm	Mkr4 2.485 912 5 GH -42.03 dB	
10.0 0.00 -10.0 -20.0		0L1-24.26 dl	Full Span Start Freq 2.433500000 GHz
-30.0 -40.0 -50.0 -60.0		na terina na probana da polo tata na karing na adika tata da karing karing karing karing karing karing karing k	Stop Freq 2.533500000 GHz
	≠Video BW 300 kHz	Span 100.0 M Sweep 9.60 ms (8001 p	
5 Marker Table			10.000000 MHz
Mode         Trace         Scale         X           1         N         1         f         2.461 500 0 GHz           2         N         1         f         2.483 500 0 GHz           3         N         1         f         2.500 000 0 GHz           4         N         1         f         2.485 912 5 GHz           5         6         6         6         6	Y Function Functio Function Function Function Function Function Function Function Fu	nction Width Function Value	Man Freq Offset 0 Hz X Axis Scale Log Lin
			Signal Track (Span Zoom)

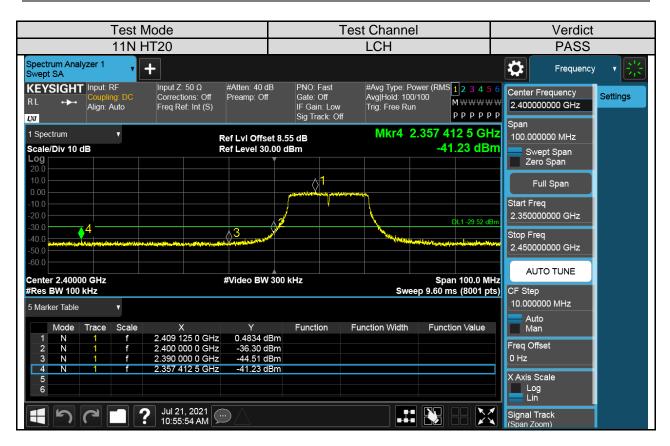
**UL-CCIC COMPANY LIMITED** 

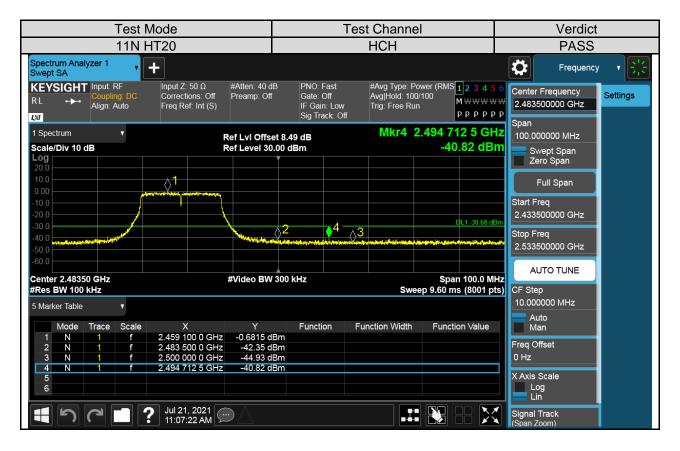






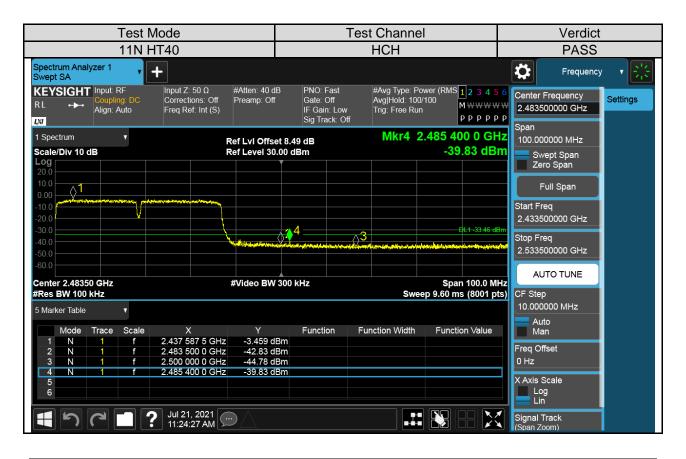






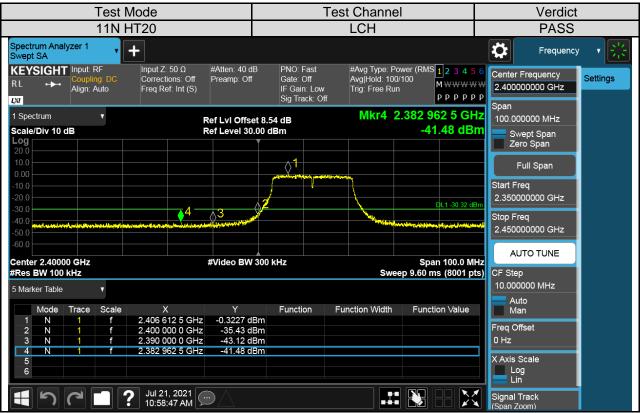


Test Mode	Test C	hannel	Verdict
11N HT40	L	СН	PASS
Spectrum Analyzer 1			Frequency V 🔆
	eanip. On Gale. On Ave	/g Type: Power (RMS 1 2 3 4 5 )[Hold: 100/100 ): Free Run ₽ ₽ ₽ ₽ ₽	2.40000000 GHz
	LvI Offset 8.09 dB Level 30.00 dBm	Mkr4 2.381 937 5 GH -41.66 dB	
10.0 0.00 -10.0 -20.0			Full Span Start Freq 2.350000000 GHz
-30.0 -40.0 -50.0		DL1-33.61 d	
	ideo BW 300 kHz	Span 100.0 M	
#Res BW 100 kHz 5 Marker Table v		Sweep 9.60 ms (8001 p	ts) CF Step 10.000000 MHz
Mode         Trace         Scale         X           1         N         1         f         2.431 600 0 GHz	Y Function Function	on Width Function Value	Man
2 N 1 f 2.400 000 0 GHz 3 N 1 f 2.390 000 0 GHz	-42.35 dBm -44.52 dBm -41.66 dBm		Freq Offset 0 Hz
4 N 1 f 2.381 937 5 GHz 5 6			X Axis Scale Log Lin
Jul 21, 2021			Signal Track (Span Zoom)





#### For Antenna 2 Part:





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		Test Oheren	-	\ ( a nali a t	
Test Mode		Test Chann	Verdict		
11N HT40		LCH		PASS	
Spectrum Analyzer 1				Frequency	<b>、</b> 宗
KEYSIGHT       Input: RF       Input: Z: 50 Ω         RL       →       Coupling: DC       Corrections: Off         Align: Auto       Freq Ref: Int (S)	Preamp: Off G	NO: Fast #Avg Type: ate: Off Avg Hold: 1 Gain: Low Trig: Free R g Track: Off		W 2.40000000 GHz	ttings
1 Spectrum  Scale/Div 10 dB Log 20.0	Ref LvI Offset 8.09 dl Ref Level 30.00 dBm	B Mkr4	2.389 200 0 GH -41.10 dB	Z 100.000000 MHz	
10.0		1		Full Span	
-10.0 -20.0 -30.0			DL1 33.32 dE	Start Freq 2.350000000 GHz	
-40.0 -50.0	4		A CONTRACTOR OF A CONTRACTOR O	Stop Freq 2.45000000 GHz	
-60.0 Center 2.40000 GHz	#Video BW 300 kHz		Span 100.0 Mi	AUTO TUNE	
#Res BW 100 kHz 5 Marker Table		Sw	veep 9.60 ms (8001 pt	s) CF Step 10.000000 MHz	
Mode Trace Scale X		Inction Function Width	n Function Value	Auto Man	
1 N 1 f 2.414 262 5 GHz				Freq Offset	
2 N 1 f 2.400 000 0 GHz 3 N 1 f 2.390 000 0 GHz				0 Hz	
4 N 1 f 2.389 200 0 GHz					
5 6				X Axis Scale Log Lin	
Jul 21, 2021 11:16:01 AM				Signal Track (Span Zoom)	



### Part II :Conducted Emission

Test Result Tab	le
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Test Mode	Test Antenna	Channel	Pref(dBm)	Puw(dBm)	Verdict
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11B SISO		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11G SISO		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N MIMO20		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs <limit< td=""><td>PASS</td></limit<>		PASS
	Antenna 2	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
	Antenna 1	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
11N MIMO40		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		LCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
	Antenna 2	MCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS
		HCH	See the test graphs	<limit< td=""><td>PASS</td></limit<>	PASS

Remark:

1) For this product, it has two antennas, antenna1 and antenna2, but only the 802.11N HT20 and 802.11N HT40 modes can support both the SISO and MIMO technical. But for the modes of 11B &11G,only the antenna 1 is working.

2) Through pre-testing all the test modes of 11N 20 and 11N40, including SISO and MIMO, but only the data if worse case is included in this test report.



## For Antenna 1 Part:

Test Mode	Channel	Verdict
11B	LCH	PASS





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LCH SPL	JRIOUS I	EMISSION_	30MHz~10	)GHz					
Spectrum Analy Swept SA	/zer 1 🔻	+						Frequency	
KEYSIGHT RL ↔	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 9/100 Trig: Free Run	ver (RMS <mark>123456</mark> ) M WWWWW P P P P P P P		r Frequency 000000 GHz	Settings
1 Spectrum Scale/Div 10 d Log 8.55 -1.45 -1.45 -21.5 -31.5 -41.5 -51.5 -61.5 -61.5	T Contraction of the second se	↓1 ↓ ↓2	Ref LvI Offset 8.5 Ref Level 18.55 c		Mkr	2 2.252 1 GHz -47.23 dBm DL1-24.26 dBm	9.970 Start F 30.00 Stop F	0000 MHz	
-71.5 Start 30 MHz #Res BW 100 I	<hz< td=""><td></td><td>#Video BW 300</td><td>kHz</td><td>Sweep</td><td>Stop 10.000 GHz 954 ms (30000 pts)</td><td>CF Ste</td><td>UTO TUNE ep 00000 MHz</td><td></td></hz<>		#Video BW 300	kHz	Sweep	Stop 10.000 GHz 954 ms (30000 pts)	CF Ste	UTO TUNE ep 00000 MHz	
	Trace Scale 1 f 1 f	X 2.409 9 GHz 2.252 1 GHz 2.252 1 GHz 10:36:19 AM		Function	Function Width	Function Value	A M Freq C 0 Hz X Axis	uto lan Offset Scale og in Track	

LCH SPURI	OUS EN	ISSION_1	0GHz~260	GHz				
Spectrum Analyzer 1 Swept SA							Frequency	<ul><li>▼ <sup>2</sup>/<sub>2</sub></li></ul>
	oling: DC	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pow Avg Hold: 2/100 Trig: Free Run	ver (RMS 1 2 3 4 5 6 ) M WWWWW P P P P P P	Center Frequency 18.000000000 GHz Span	Settings
1 Spectrum	•	F	ef Lvi Offset 8.55	ō dB	Mkr1	25.681 6 GHz	16.0000000 GHz	
Scale/Div 10 dB		F	lef Level 18.55 dE	3m		-55.69 dBm	Swept Span Zero Span	
-1.45							Full Span	
-21.5						DL1 -24.26 dBm	Start Freq 10.000000000 GHz	
-41.5 -51.5 -61.5				Laundon data di tambu manata, kurak	n na halan tarih kurda kara kara kara		Stop Freq 26.000000000 GHz	
-71.5 Start 10.000 GHz	neline defet till kan jähd på men er på men skalle förde		#Video BW 300 k	HZ		Stop 26.000 GHz	AUTO TUNE	
#Res BW 100 kHz					Swee	p 1.53 s (30000 pts)	CF Step 1.60000000 GHz	
5 Marker Table Mode Trace	• Scale	X	Y	Function FL	Inction Width	Function Value	Auto Man	
1 N 1 2	f	25.681 6 GHz	-55.69 dBm				Freq Offset	
3							0 Hz	
4 5 6							X Axis Scale Log Lin	
500	2	Jul 21, 2021 10:36:28 AM					Signal Track (Span Zoom)	



Test Mode	Channel	Verdict
11B	MCH	PASS





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MCH SPURIOUS EMISSION	I_30MHz~10GHz		
Spectrum Analyzer 1			Frequency v 🔆
KEYSIGHT         Input: RF         Input: Z: 50 Ω           RL         ++         Coupling: DC         Corrections: Off           Align: Auto         Freq Ref: Int (S		#Avg Type: Power (RMS <u>1</u> 23456 Avg Hold: 11/100 Trig: Free Run РРРРР	Center Frequency 5.015000000 GHz Span
1 Spectrum v Scale/Div 10 dB Log 8.12	Ref LvI Offset 8.12 dB Ref Level 18.12 dBm	Mkr2 2.277 0 GHz -46.01 dBm	9.97000000 GHz Swept Span Zero Span
-1.88 -11.9 -21.9 -31.9 -31.9 -41.9 -41.9 -22		DL1-24.58 dBm	Full Span Start Freq .30.000000 MHz
-51.9 -61.9 -71.9			Stop Freq 10.000000000 GHz
Start 30 MHz #Res BW 100 kHz 5 Marker Table	#Video BW 300 kHz	Stop 10.000 GHz Sweep 954 ms (30000 pts)	CF Step ,997.000000 MHz
Mode         Trace         Scale         X           1         N         1         f         2.438.5 Gr           2         N         1         f         2.277.0 Gr           3         -         -         -         -           4         -         -         -         -           5         -         -         -         -           6         -         -         -         -	Hz 4.951 dBm Hz -46.01 dBm	Function Width Function Value	Man Freq Offset 0 Hz X Axis Scale Log Lin
<b>H C I ?</b> Jul 21, 2021 10:41:47 AM			Signal Track (Span Zoom)

MCH SPURIOUS EMISSION	_10GHz~26GHz		
Spectrum Analyzer 1			Frequency V
KEYSIGHT     Input: RF     Input: Z: 50 Ω       R L     Coupling: DC     Corrections: Off       Align: Auto     Freq Ref: Int (S)	#Atten: 20 dB PNO: Fast Preamp: Off Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Avg Hold: 2/100 Trig: Free Run P P P P P P	Center Frequency 18.00000000 GHz Span
1 Spectrum 🔹	Ref LvI Offset 8.12 dB	Mkr1 25.554 1 GHz	16.0000000 GHz
Scale/Div 10 dB	Ref Level 18.12 dBm	-55.61 dBm	Swept Span Zero Span
-1.88			Full Span
-21.9		DL1-24.58.dBm	Start Freq 10.000000000 GHz
-51.9 -61.9 products and the later that the second s			Stop Freq 26.00000000 GHz
-71.9	#Video BW 300 kHz	Stop 26.000 GHz	AUTO TUNE
#Res BW 100 kHz		Sweep 1.53 s (30000 pts)	CF Step 1.600000000 GHz
5 Marker Table   Mode Trace Scale X	Y Function	Function Width Function Value	Auto Man
1 N 1 f 25.554 1 GF 2	z -55.61 dBm		Freq Offset
3 4			0 Hz
5 6			X Axis Scale Log Lin
Jul 21, 2021 10:41:56 AM	$\square$		Signal Track (Span Zoom)



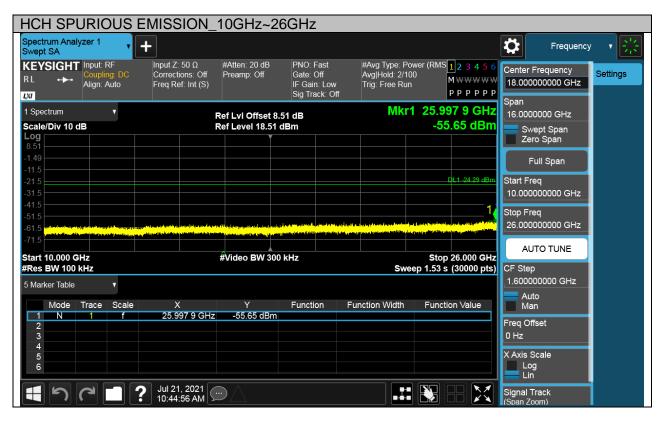
Test Mode	Channel	Verdict
11B	HCH	PASS





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HCH SPURIOU	S EMISSION_	30MHz~10GH	Z			
Spectrum Analyzer 1 Swept SA	• +				Frequenc	y y 👯
RL +++ Coupling: D Align: Auto	C Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S)				Center Frequency 5.015000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB		Ref Lvi Offset 8.51 dB Ref Level 18.51 dBm	N	/kr2 2.301 9 GHz -45.15 dBm	Span 9.97000000 GHz Swept Span Zero Span	
8.51 -1.49 -11.5 -21.5				DL1-24.29.dBm	Full Span Start Freq	
-31.5 -41.5 -51.5 -61.5	2				30.000000 MHz Stop Freq 10.000000000 GHz	
-71.5 Start 30 MHz #Res BW 100 kHz		#Video BW 300 kHz	Sw	Stop 10.000 GHz veep 954 ms (30000 pts)	AUTO TUNE CF Step	
5 Marker Table 🛛 🔻					997.000000 MHz	1
Mode         Trace         Sc           1         N         1         1           2         N         1         1           3         4         5         5           6         -         -         -	2.461 4 GHz				Adio Man Freq Offset 0 Hz X Axis Scale Log Lin	
	Jul 21, 2021 10:44:47 AM				Signal Track (Span Zoom)	





Test Mode	Channel	Verdict
11G	LCH	PASS





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LCH SPURIOU	S EMISSION_30	MHz~10GHz				
Spectrum Analyzer 1 Swept SA	• +			Ϋ́,	Frequency	<ul><li>▼ <sup>*</sup></li></ul>
KEYSIGHT     Input: RF       R L     Coupling: D       Align: Auto	C Corrections: Off P	Atten: 20 dB PNO: Fast reamp: Off Gate: Off IF Gain: Lo Sig Track:	Avg Hold: 9/100 MW4		nter Frequency 015000000 GHz	Settings
1 Spectrum		LvI Offset 8.55 dB Level 18.55 dBm	Mkr2 2.252 1 -48.21	GHz dBm 9.06 dBm 30 Sta 30	97000000 GHz Swept Span Zero Span Full Span art Freq 0.000000 MHz pp Freq	
-61.5 -71.5 Start 30 MHz #Res BW 100 kHz		/ideo BW 300 kHz	Stop 10.0 Sweep 954 ms (300	00 GHz 000 pts) CF	0.000000000 GHz AUTO TUNE Step 07.000000 MHz	
5 Marker Table         v           Mode         Trace         Sc           1         N         1           2         N         1           3         4         4           5         5         5           6         4         4	ale X f 2.406 9 GHz f 2.252 1 GHz	Y Function 0.4367 dBm -48.21 dBm	Function Width Function Ve	alue Fre	Auto Man eq Offset	
<b>1</b> 77	Jul 21, 2021	$\triangle$			nal Track van Zoom)	

LCH SPURIC	OUS EMISSION	_10GHz~26GHz				
Spectrum Analyzer 1 Swept SA	• +				Frequency	<ul><li>▼ <sup>*</sup></li></ul>
KEYSIGHT     Input:       RL     →→     Coupl       Align:     □	ling: DC Corrections: Of	) . IF Gai	Fast #Avg Type: Por Off Avg Hold: 2/10 n: Low Trig: Free Run ack: Off		Center Frequency 18.00000000 GHz Span	Settings
1 Spectrum Scale/Div 10 dB	v	Ref LvI Offset 8.55 dB Ref Level 18.55 dBm	Mkr1	25.780 3 GHz -55.02 dBm	16.0000000 GHz	
8.55 -1.45					Zero Span Full Span	
-11.5 -21.5 -31.5				DL1 -29.06 dBm	Start Freq 10.000000000 GHz	
-41.5 -51.5 -61.5		antiste producer program tit i som er fut av se fittil sek ad med Med by a for program program tit av program og støre produkter (frå sek tit k	n she chine ha witten ta ga bayat kila da sa di bila d Na she chine ha sa di		Stop Freq 26.000000000 GHz	
-71.5 Start 10.000 GHz #Res BW 100 kHz		#Video BW 300 kHz	Sura	Stop 26.000 GHz ep 1.53 s (30000 pts)		
5 Marker Table	v		3000	ep 1.55 \$ (50000 pts)	1.600000000 GHz	
Mode         Trace           1         N         1           2         3         4           4         5         5	Scale X f 25.780 3 G	Y Functi Hz -55.02 dBm	ion Function Width	Function Value	Auto Man Freq Offset 0 Hz X Axis Scale	
ا ک ا	Jul 21, 2021 10:47:54 AM				Log Lin Signal Track (Span Zoom)	



Test Mode	Channel	Verdict
11G	MCH	PASS





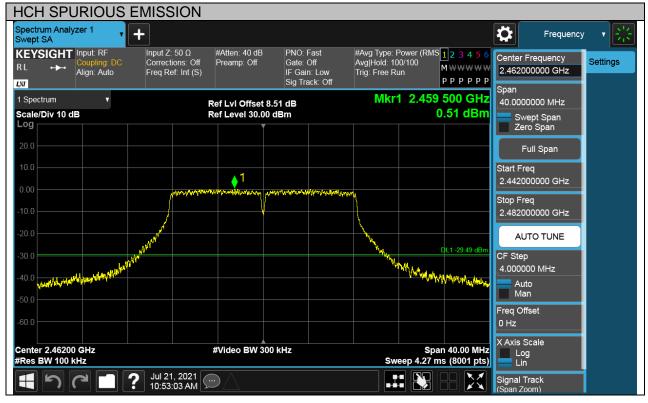
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MCH SPU	RIOUS	EMISSION_	_30MHz~10	0GHz					
Spectrum Analyze Swept SA	er 1 🔻	+						Frequency	· 米
	nput: RF Coupling: DC Jign: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 8/100 Trig: Free Run	wer (RMS 1 2 3 4 5 6 0 M W W W W P P P P P P		requency 0000 GHz	Settings
1 Spectrum Scale/Div 10 dB	•		Ref LvI Offset 8.1 Ref Level 18.12 d		Mkı	2 2.277 0 GHz -47.65 dBm	Swe	000 GHz pt Span Span	
8.12 -1.88 -11.9 -21.9		1				DL1 -29.28 dBm	Start Fre	· .	
-31.9 -41.9 -51.9 -61.9	anger (jajan er er brechtigt						30.0000 Stop Frei 10.0000		
-71.9			#Video BW 300	kHz		Stop 10.000 GHz 954 ms (30000 pts)		O TUNE	
#Res BW 100 kH 5 Marker Table	1 <u>2</u> T				Sweep	5 954 ms (30000 pts)		000 MHz	
Mode Tr 1 N 2 N 3 4 5 5 6	race Scale 1 f 1 f	X 2.438 5 GHz 2.277 0 GHz		Function Fi	unction Width	Function Value	Auto Man Freq Offs 0 Hz X Axis So Log Lin	set	
10		<b>?</b> Jul 21, 2021 10:50:30 AM					Signal Tr (Span Zoc		

MCH SPURIOUS EMISSION_	10GHz~26GHz	
Spectrum Analyzer 1		Frequency 🔻 🔀
KEYSIGHT     Input: RF     Input Z: 50 Ω       RL     →     Coupling: DC     Corrections: Off       Align: Auto     Freq Ref: Int (S)	#Atten: 20 dB PNO: Fast #Avg Typ Preamp: Off Gate: Off Avg Hold IF Gain: Low Trig: Free Sig Track: Off	ее Run М W W W W 18.00000000 GHz
Scale/Div 10 dB	Ref Lvi Offset 8.12 dB Ref Level 18.12 dBm	Mkr1         25.800         O GHz         Span           -56.18         dBm         Swept Span
Log 8.12 -1.88 -11.9		Zero Span Full Span
-11.9 -21.9 -31.9 -41.9		0L1-29.28 dBm Start Freq 10.000000000 GHz
-51.9 -71.9		Stop Freq 26.00000000 GHz
- / 1.9 Start 10.000 GHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 26.000 GHz Sweep 1.53 s (30000 pts) CF Step
5 Marker Table v		1.60000000 GHz
Mode         Trace         Scale         X           1         N         1         f         25.800 0 GHz           2         3         3         3         4           5         5         5         6         6		Freq Offset 0 Hz X Axis Scale Log Lin
<b>I S C I S</b> Jul 21, 2021 10:50:40 AM		Signal Track (Span Zoom)



Test Mode	Channel	Verdict
11G	HCH	PASS





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HCH SPL	JRIOUS	S EMISSION	_30MHz~1	0GHz					
Spectrum Analy Swept SA	/zer 1	· +					₽	Frequency	
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Avg Hold: 9/10 Trig: Free Run			r Frequency 0000000 GHz	Settings
1 Spectrum Scale/Div 10 d Log 8.51	B	<b>1</b>	Ref LvI Offset 8. Ref Level 18.51 o		Mk	r2 2.301 9 GHz -46.18 dBm	9.970	000000 GHz wept Span ero Span	
-1.49		↓ <u> </u>						Full Span	
-21.5 -31.5 -41.5		<b>2</b>				DL1 -29.49 dBm	L	00000 MHz	
-51.5 -61.5 -71.5	TT & C. &					stan manufi a negara en findiren peterta (1976-1976) en en- ntiga de la capacitación de la capa	Stop F 10.00	req 00000000 GHz	
Start 30 MHz #Res BW 100	kHz		#Video BW 300	kHz	Sweet	Stop 10.000 GHz p 954 ms (30000 pts)	CF St		
5 Marker Table	T						.997.0	000000 MHz .uto	
Mode 1 N 2 N	Trace Sca 1 f 1 f	e X 2.456 1 GH 2.301 9 GH		Function	Function Width	Function Value	Freq (	1an Offset	
3 4 5 6								.og	
		Jul 21, 2021 10:53:20 AM					L Signal (Span )	.in I <b>Track</b> Zoom)	

HCH SPURIC	OUS EMISSION_	10GHz~26GHz				
Spectrum Analyzer 1 Swept SA	• +				Frequency	- * 崇
RL +++ Align: A	ng: DC Corrections: Off	#Atten: 20 dB PNO: Fa: Preamp: Off Gate: Off IF Gain: I Sig Track	Avg Hold: 2/100 ₋ow Trig: Free Run	MWWWWW	Center Frequency 18.00000000 GHz	Settings
1 Spectrum Scale/Div 10 dB	T	Ref LvI Offset 8.51 dB Ref Level 18.51 dBm		.490 6 GHz 55.51 dBm	Span 16.0000000 GHz Swept Span	
Log 8.51 -1.49					Zero Span Full Span	
-11.5 -21.5 -31.5				DL1 -29.49 dBm	Start Freq 10.00000000 GHz	
-41.5 -51.5 -61.5		n per el la face en la constante en en en en en en el la constante de la constante de la constante de la const En el la seguina de constante de la constante d	the dash oppræssing kan gelangsverske port af ken for <sup>1</sup> Marine for som at the boots In The dash oppræssing kan gelangsverske port af som for her her for port at som som at the boots		Stop Freq 26.00000000 GHz	
-71.5 Start 10.000 GHz #Res BW 100 kHz		#Video BW 300 kHz		top 26.000 GHz 3 s (30000 pts)	AUTO TUNE CF Step	
5 Marker Table	•			o ( ( ( ) ) ) ) )	1.600000000 GHz	
Mode         Trace           1         N         1           2         -         -           3         -         -           4         -         -           5         -         -	Scale X f 24.490 6 GHz	Y Function 2 -55.51 dBm	Function Width Fun		Auto Man Freq Offset 0 Hz X Axis Scale	
。 まって	Jul 21, 2021 10:53:30 AM				Log Lin Signal Track (Span Zoom)	



Test Mode	Channel	Verdict
11N HT20	LCH	PASS





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Spectrum Analyzer 1 Swept SA	Frequency	<ul><li>▼</li></ul>
RL → Align: Auto Freq Ref: Int (S) IF Gain: Low Trig: Free Run PP PP P	enter Frequency 5.015000000 GHz	Settings
1 Spectrum         Ref Lvi Offset 8.55 dB         Mkr2 2.252 1 GHz         9           Scale/Div 10 dB         Ref Level 18.55 dBm         -48.49 dBm         -48.49 dBm           Log         1         -         -         -48.49 dBm         -           1.45         -	pan 9.97000000 GHz Swept Span Zero Span Full Span tart Freq 80.000000 MHz top Freq	
-01.5 -71.5 Start 30 MHz #Video BW 300 kHz Stop 10.000 GHz #Res BW 100 kHz Sweep 954 ms (30000 pts)	AUTO TUNE	
Market Table     V       Mode     Trace       Scale     X       Y     Function       Function       Vidt       Function       Vidt       Find       Scale       X       Y       Function       Find       X       Y       Find       Scale       X       Y       Find       Scale       Y       Y       Find       Scale       Y       Y       Find       Y <t< td=""><td>Auto Man req Offset ) Hz Axis Scale Log Lin</td><td></td></t<>	Auto Man req Offset ) Hz Axis Scale Log Lin	

LCH SPURI	OUS E	MISSION_1	0GHz~26	GHz				
Spectrum Analyzer Swept SA	· •	+					Frequen	⊳y <b>v <u></u>}¦≲</b>
	t: RF pling: DC n: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Pov Avg Hold: 2/10( Trig: Free Run		18.00000000 GHz	Settings
1 Spectrum Scale/Div 10 dB	•		tef Lvi Offset 8.5 tef Level 18.55 di		Mkr1	25.579 2 GHz -56.13 dBm	16.0000000 GHz	
						-50.15 0.511	Swept Span Zero Span	
-1.45							Full Span	
-21.5						DL1 -29.64 dBm	Start Freq 10.000000000 GHz	
-41.5 -51.5 -61.5			A dan te destruction of the State of the State				Stop Freq 26.000000000 GHz	
-71.5			#Video BW 300 I			Stop 26.000 GHz	AUTO TUNE	
#Res BW 100 kHz					Swee	ep 1.53 s (30000 pts)	CF Step	
5 Marker Table	▼						1.60000000 GHz	
Mode Trace	e Scale f	X 25.579 2 GHz	Y -56.13 dBm	Function	Function Width	Function Value	Man	
2 3		20.010 2 0112					Freq Offset 0 Hz	
4 5 6							X Axis Scale Log Lin	1
<b>1</b> <b>1</b>		Jul 21, 2021					Signal Track (Span Zoom)	



Test Mode	Channel	Verdict
11N HT20	MCH	PASS





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MCH SP	URIOL	JS E	MISSIO	N_30	MHz~'	10GH:	Z						
Spectrum Analy Swept SA	yzer 1		F									Frequency	- * 崇
KEYSIGHT RL ++-	Input: RF Coupling: I Align: Auto		Input Z: 50 Ω Corrections: 0 Freq Ref: Int	Off Pre	tten: 20 dB eamp: Off			#Avg Type: I Avg Hold: 10 Trig: Free Ri	//100	S <mark>1</mark> 23456 M <del>WWW</del> WW PPPPPP		r Frequency 5000000 GHz	Settings
1 Spectrum Scale/Div 10 c 8.09 -1.91 -11.9 -21.9 -31.9 -41.9 -51.9 -51.9 -51.9	¥  B     		2		_vi Offset 8 _evel 18.09					277 0 GHz 18.20 dBm	9.970 Start F 30.00	00000 MHz	
-71.9 Start 30 MHz #Res BW 100	kHz v			#Vie	deo BW 30	0 kHz		Swe		op 10.000 GHz is (30000 pts)	CF St	AUTO TUNE ep 000000 MHz	
		cale f f	X 2.431 5 2.277 0		Y 0.2394 dBm -48.20 dBm		on	Function Width	Fund	ction Value	Freq ( 0 Hz X Axis	uto /an Offset s Scale .og .in	
<b>1</b> 5	<b>C</b>	]?	Jul 21, 202 11:01:55 Al									Track	

MCH SPURIOUS I	EMISSION_10GH	Hz~26GHz		
Swept SA	+			Frequency V
KEYSIGHT       Input: RF         R L       Coupling: DC         Align: Auto       Align: Auto	Input Z: 50 Ω #Atten: Corrections: Off Freq Ref: Int (S)		#Avg Type: Power (RMS 1 2 3 4 5 Avg Hold: 2/100 Trig: Free Run P P P P P	18.00000000 GHz
1 Spectrum v Scale/Div 10 dB Log		Dffset 8.09 dB el 18.09 dBm	Mkr1 25.669 9 GH -55.07 dBr	16.0000000 GHz     Swept Span
8.09 -1.91 -11.9				Zero Span Full Span
-21.9 -31.9 -41.9			DL1 -29.99 dB	Start Freq 10.00000000 GHz
-51.9 -61.9 -71.9	n de fan yn dê straat yn an orden fer fwaran of fer an orden yn ei gener o gener o gener o gener o gener o gene De fan yn de fan gede fan gede fan gede fan gede	ny a konzet z za zaj konzet kilozet kilozet kilozet za kilozet za kilozet za kilozet za kilozet za kilozet za k Rodz je je na za za kilozet za kilo	an di sana di mangan kana kana kana kana kana kana kana	Stop Freq 26.000000000 GHz
Start 10.000 GHz #Res BW 100 kHz	#Video	BW 300 kHz	Stop 26.000 GF Sweep 1.53 s (30000 pt:	
5 Marker Table 🔹 🔻				1.60000000 GHz
Mode Trace Scale	X Y 25.669 9 GHz -55.0	Function Fu	Inction Width Function Value	Man Freq Offset
2 3 4				0 Hz
5				X Axis Scale Log Lin
<b>1</b> 2 2 1 2	Jul 21, 2021 11:02:04 AM			Signal Track (Span Zoom)



Test Mode	Channel	Verdict
11N HT20	НСН	PASS





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HCH SPURI	OUS EMISSI	ON_30MHz~10	0GHz				
Spectrum Analyzer 1 Swept SA	• +					Freq	uency v
KEYSIGHT     Input:       R L     →→     Coupl       Align:     ↓	ing: DC Correction	s: Off Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Powe Avg Hold: 9/100 Trig: Free Run	r (RMS <mark>1</mark> 23456 М₩₩₩₩₩ РРРРРР	Center Frequenc 5.015000000 GH Span	
1 Spectrum Scale/Div 10 dB Log 8.49 -1.51 -11.5 -21.5 -31.5 -41.5		Ref LvI Offset 8. Ref Level 18.49 c		Mkr2	2.301 9 GHz -46.60 dBm DL1-29.99 dBm	9.97000000 GH; Swept Span Zero Span Full Span Start Freq 30.000000 MHz Stop Freq	
-51.5 -61.5 -71.5 Start 30 MHz #Res BW 100 kHz		#Video BW 300	kHz	Sweep S	Stop 10.000 GHz 954 ms (30000 pts)	AUTO TUNE	
5 Marker Table Mode Trace	Scale X	Y 1 GHz -0.9012 dBm	Function Fu	nction Width	Function Value	997.000000 MH: Auto Man	z
2 N 1 3 4 5 6	f 2.301	9 GHz -46.60 dBm				Freq Offset 0 Hz X Axis Scale Log Lin	
<b>1</b> C	Jul 21, 2 11:07:48					Signal Track (Span Zoom)	

HCH SPURIOUS EMISSION	_10GHz~26GHz		
Spectrum Analyzer 1			Frequency V
KEYSIGHT         Input: RF         Input: Z: 50 Ω           R L         ++         Coupling: DC         Corrections: Off           Align: Auto         Freq Ref: Int (S)         Freq Ref: Int (S)		#Avg Type: Power (RMS 1 2 3 4 5 6 Avg Hold: 2/100 Trig: Free Run Р Р Р Р Р Р	Center Frequency 18.00000000 GHz Span
1 Spectrum ▼ Scale/Div 10 dB	Ref Lvi Offset 8.49 dB Ref Level 18.49 dBm	Mkr1 25.741 9 GHz -55.40 dBm	16.0000000 GHz
Log 8.49 -1.51			Zero Span
-11.5		DL1 -29.99 dBm	Start Freq
-31.5 -41.5 -51.5		•	10.000000000 GHz Stop Freq
-61.5 enterthing the strategy of the strategy			26.00000000 GHz
Start 10.000 GHz #Res BW 100 kHz	#Video BW 300 kHz	Stop 26.000 GHz Sweep 1.53 s (30000 pts)	
5 Marker Table   Mode Trace Scale X	Y Function	Function Width Function Value	1.600000000 GHz
1 N 1 f 25.741 9 GF 2 3			Freq Offset 0 Hz
5 5 6			X Axis Scale
Jul 21, 2021 11:07:58 AM	$\square$		Lin Signal Track (Span Zoom)



Test Mode	Channel	Verdict
11N HT40	LCH	PASS

