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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





FCC Applicant: HP Inc.

1501 Page Mill Road, Palo Alto, CA 94304, USA

Product Name: Notebook Computer

Brand Name: HP

Model No.: HSN-I54C

Model Difference: N/A

E2/2021/C0072 **Report Number:**

FCC ID: B94QCNFA765L43

Issue Date: January 24, 2022

December 27, 2021~January 19, 2022 Date of Test:

Date of EUT Received: December 13, 2021

Alm Hsiel

Approved By

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History											
Report Number	Revision	Description	Issue Date	Revised By	Remark						
E2/2021/C0072	00	Original.	January 24, 2022	Karen Huang							

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL INFORMATION

1.1 **Product Description**

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I54C
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0001760TS8
Power Supply:	11.4Vdc

1.2 **Modulation & Data Rate**

	1024QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
Modulation type:	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps
	802.11 ax_160MHz: 72.1 - 2402 Mbps

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SCS* Table 5.5 to 5.

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1.3 **Antenna Designation**

Antenna	Supplier	NB / TB	TX1 / TX2	Antenna	Freq.	Peak Antenna
Туре		Mode Part No.		(MHz)	Gain (dBi)	
					5925~6425	0.08
			TX2	6036B0319901	6425~6525	0.08
				(81EABL15.G65)	6525~6875	0.35
PIFA	WNC	NB			6875~7125	0.35
' '' '		''			5925~6425	-0.80
			TX1	6036B0319801	6425~6525	-1.18
			17(1	(81EABL15.G64)	6525~6875	0.18
					6875~7125	0.18
					5925~6425	0.94
			TX2	6036B0319901	6425~6525	1.12
			172	(81EABL15.G65)	6525~6875	1.12
PIFA	WNC	ТВ			6875~7125	0.83
PIFA	VVINC	ID	TV4		5925~6425	-0.83
				6036B0319801 (81EABL15.G64)	6425~6525	-1.13
			TX1		6525~6875	0.37
					6875~7125	0.37
			TX2		5925~6425	2.38
				6036B0319701 (00-2602752250)	6425~6525	-0.07
					6525~6875	-0.44
PIFA	HONG-BO	NB			6875~7125	0.69
FIFA	HONG-BO	IND			5925~6425	2.66
			TX1	6036B0319601	6425~6525	1.36
			1/1	(00-2602752150)	6525~6875	1.01
					6875~7125	0.70
					5925~6425	1.97
			TVO	6036B0319701	6425~6525	1.70
			TX2	(00-2602752250)	6525~6875	0.99
DIE 4	110110 50			,	6875~7125	0.99
PIFA	HONG-BO	TB			5925~6425	2.49
			TX1	6036B0319601	6425~6525	1.99
				(00-2602752150)	6525~6875	1.99
					6875~7125	0.36

Note:

- Measurements were demonstrated by using the antenna with the lowest gain as the worst case sce-
- Antenna information is provided by the applicant. 2.

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1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart E §15.407

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01

1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier		
		SAC 1				
		SAC 3				
		Conduction 1				
	No.134, Wu Kung Road, New Taipei	Conducted 1				
	Industrial Park, Wuku District, New	Conducted 2	TW0027			
	Taipei City, Taiwan.	Conducted 3		TW3702		
		Conducted 4				
		Conducted 5				
SGS Taiwan Ltd.		Conducted 6				
Central RF Lab.		Conduction C				
(TAF code 3702)		SAC C				
(1A1 code 3702)		SAC D				
		SAC G				
	No 2 Koji 1st Pd. Cujshan District	Conducted A				
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028			
	ladyuan City, Taiwan 555	Conducted C				
		Conducted D				
		Conducted E				
		Conducted F				
		Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 **Special Accessories**

There are no special accessories used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 **EUT Exercise**

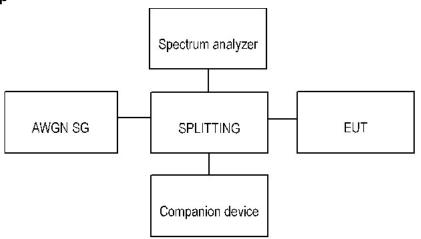
Normal test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.2 **Test Procedure**

2.2.1 **Conducted Test (RF)**

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test accordance with the test procedure in section 7.3

2.3 **CBP Setup**



Conducted Emission Test Site: B													
EQUIPMENT TYPE	MFR MODEL SERIAL NUMBER NUMBER			LAST CAL.	CAL DUE.								
Notebook	Longvo	NUMBER T14	P0003332	N/A	N/A								
Notebook	Lenovo	114		IN/A	IN/A								
		GT-	M3IAJF201730										
AP	ASUS	AXE11000	FCC ID : MSQ-	N/A	N/A								
		AXLIIOOO	RTAXJF00										

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SGS_Tailors Index 18 to 18

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SUMMARY OF TEST RESULT

FCC Rules	Result	
§15.407(d)(6)	contention-based protocol	Compliant

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6155

6175

45

89

93

6395

6415

83

91

6365

6405

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DESCRIPTION OF TEST MODES

4.1 **Operating Frequencies**

	UNII-5 5925~6425 MHz												
	201	ЛHz			4	0MHz		8	0MHz				
СН	Freq. (MHz)	СН	Freq. (MHz)		CH Freq. (MHz)			СН	Freq. (MHz)				
1	5955	49	6195		3	5965		7	5985				
5	5975	53	6215		11	6005		23	6065				
9	5995	57	6235		19	6045		39	6145				
13	6015	61	6255		27	6085		55	6225				
17	6035	65	6275		35	6125		71	6305				
21	6055	69	6295		43	6165		87	6385				
25	6075	73	6315		51	6205							
29	6095	77	6335		59	6245							
33	6115	81	6355		67	6285							
37	6135	85	6375		75	6325							

UNII-6 6425~6525 MHz												
20MHz		40MHz			80MHz			160MHz				
Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)			
6435		99	6445		103	6465		111	6505			
6455		107	6485									
6475		115	6525									
6495				•								
6515												
	(MHz) 6435 6455 6475 9 6495	Freq. (MHz) 6435 6455 6475 6495	20MHz 4 Freq. (MHz) 6435 99 6435 107 6 6475 115	20MHz 40MHz Freq. (MHz) 6435 6435 1 6455 107 6485 115 6525	20MHz 40MHz Freq. (MHz) 6435 99 6445 6455 107 6485 6 6475 115 6525	20MHz 40MHz 8 Freq. (MHz) CH Freq. (MHz) 99 6445 6435 107 6485 107 6495	20MHz 40MHz 80MHz Freq. (MHz) 6435 99 6445 107 6485 115 6525 6495	20MHz 40MHz 80MHz Freq. (MHz) CH Freq. (MHz) 6435 99 6445 16455 107 6485 15 6495	CH Freq. (MHz) 6435 107 6485 115 6525 6495 115 6525 115 6495 115 6495 115 6525 115 6495 115 6525 115 649			

160MHz

CH

207

Freq.

(MHz)

6985

	UNII-7 6525~6875 MHz											
	201	ЛНz			4	0MHz		80MHz				
СН	Freq. (MHz)	СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)			
117	6535	153	6715		123	6565		119	6545			
121	6555	157	6735		131	6605		135	6625			
125	6575	161	6755		139	6645		151	6705			
129	6595	165	6775		147	6685		167	6785			
133	6615	169	6795		155	6725		183	6865			
137	6635	173	6815		163	6765						
141	6655	177	6835		171	6805						
145	6675	181	6855		179	6845						
149	6695	185	6875				_					

UNII-8 6875~7125 MHz											
20	20MHz			0MHz		8	0MHz				
СН	Freq. (MHz)		СН	Freq. (MHz)		СН	Freq. (MHz)				
189	6895		187	6885		199	6945				
193	6915		195	6925		215	7025				
197	6935		203	6965							
201	6955		211 7005								
205	6975		219	7045							
209	6995		227	7085							
213	7015										
217	7035										
221	7055										
225	7075										
229	7095										
1											

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SCS* Table 5.5 to 5.

160MHz Freq.

(MHz)

6025

6185

6345

160MHz

СН

143

175

Freq.

(MHz)

6665

6825

СН

15

47

79

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.

Modulation	Tı	ransmission Chain			Single Transmission Spatial	Multiple Transmission Spatial	
□ 802.11 a	□ Ch0	□ Ch1	☐ Ch2	□ Ch3	☐ 1TX	☐ 2TX	
□ 802.11 n	□ Ch0	□ Ch1	☐ Ch2	□ Ch3	☐ SISO	☐ MIMO	
☐ 802.11 ac	□ Ch0	□ Ch1	☐ Ch2	□ Ch3	☐ SISO	☐ MIMO	
⊠ 802.11 ax	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO	

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty			
Generated signal levels, conducted	+/-	1.12	dB	
Generated signal levels, radiated	+/-	2.98	dB	
Temperature	+/-	0.4	°C	
Humidity	+/-	3.5	%	
DC / AC Power Source	+/-	1	%	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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MEASUREMENT EQUIPMENT USED

Contention based protocol measurement 6.1

	-							
Conducted Emission Test Site: B								
EQUIPMENT TYPE	MFR	MODEL	SERIAL	LAST CAL.	CAL DUE.			
EQUIPMENT TYPE		NUMBER	NUMBER	LAST CAL.	CAL DUE.			
Signal Generator	KEYSIGHT	N5182B	MY59100873	06/22/2021	06/21/2022			
Freqency Extender	Keysight	N5182BX07	MY59360223	03/04/2021	03/03/2022			
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/31/2021	01/30/2022			
Culittor	DE Lambda	RFLT4W1G1	18090300130	04/28/2021	04/27/2022			
Splitter	RF-Lambda	8G	18090300130					
Culitton	Colintaria DE La colo da	RFLT2W1G1	18112200217	04/28/2021	04/27/2022			
Splitter	RF-Lambda	8G	18112200217		04/27/2022			

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CONTENTION BASED PROTOCOL

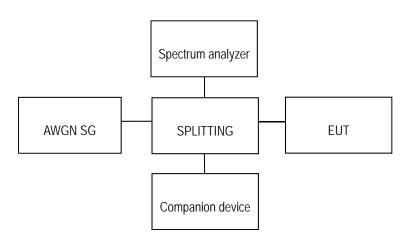
Standard Applicable 7.1

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

7.2 **Test Setup**



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7.3 **Measurement Procedure**

- Configure the EUT to transmit with a constant duty cycle. 1.
- Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer, Ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.
- 4. Using an AWGN signal source a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm 5. threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the **EUT**
- Monitor the signal analyzer to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting
- (Including all losses in the RF paths) Determine and record the AWGN signal power level 7. (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to Table 1 to determine number of times the detection threshold testing needs to be 8. repeated. If testing is required more than once, then go back to step 4, choose a different center frequency for the AWGN signal and repeat the process(as figure 1)

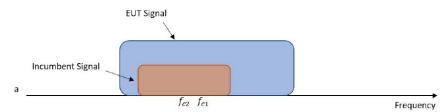
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Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission	
$BW_{EUT} \le BW_{Inc}$	Once	Tune incumbent and EUT	
$BW_{Inc} < BW_{EUT} \le 2BW_{Inc}$	Once	transmissions ($f_{c1} = f_{c2}$) Incumbent transmission is contained within BW_{EUT}	
$2BW_{Inc} < BW_{EUT} \le 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel	
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel	



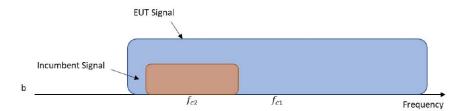


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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7.4 **Measurement Result**

7.4.1 **CBP Detection**

Contention Based Protocol									
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Detection Level of AWGN Interference (dBm)	Detection Trials	AWGN Detection Probability (%)	Limit Probability (%)	Result
U-NII-5	20	37	6135	6135	-62.83	9	90	90	PASS
			6185	6110	-62.83	10	100	90	PASS
	160	47		6185	-62.83	10	100	90	PASS
				6260	-62.83	10	100	90	PASS
U-NII-6	20	101	6455	6455	-63.18	10	100	90	PASS
		111	6505	6430	-63.18	10	100	90	PASS
	160			6505	-63.18	10	100	90	PASS
				6580	-63.18	10	100	90	PASS
U-NII-7	20	149	6695	6175	-62.44	10	100	90	PASS
		143	6665	6590	-62.44	10	100	90	PASS
	160			6665	-62.44	9	90	90	PASS
				6740	-62.44	10	100	90	PASS
U-NII-8	20	209	7015	7015	-61.82	9	90	90	PASS
		207	6985	6910	-61.82	10	100	90	PASS
	160			6985	-61.82	9	90	90	PASS
				7060	-61.82	10	100	90	PASS

Note: Detection Level of AWGN Interference:-62+min Gain

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CBP_Threshold_Level 7.4.2

Contention Based Protocol Threshold Level Verify							
Band	Bandwidth (MHz)	Channel	Frequency (MHz)	Interference Freq (MHz)	Detection Power Level (dBm)	Situation of EUT	
	20	37	6135	6135	-66.00	Start transmission	
I I NIII E	160	47	6185	6110	-67.00	Start transmission	
U-NII-5				6185	-68.00	Start transmission	
				6260	-69.00	Start transmission	
	20	101	6455	6455	-65.00	Start transmission	
U-NII-6	160	111	6505	6430	-65.00	Start transmission	
U-INII-0				6505	-68.00	Start transmission	
				6580	-69.00	Start transmission	
	20	149	6695	6695	-64.00	Start transmission	
U-NII-7	160	143	6665	6590	-66.00	Start transmission	
U-INII-7				6665	-68.00	Start transmission	
				6740	-68.00	Start transmission	
U-NII-8	20	213	7015	6455	-64.00	Start transmission	
		207	6985	6910	-67.00	Start transmission	
	160			6985	-66.00	Start transmission	
				7060	-63.00	Start transmission	

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Det Lel_802.11ax_20MHz_6135MHzMHz_-62dBm ø Full Scan n RW 8 0 MHs

Det Lel_802.11ax_20MHz_6135MHzMHz_-63dBm

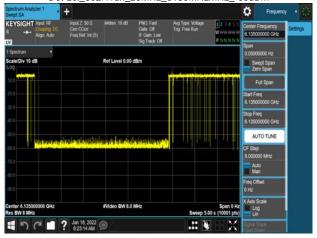
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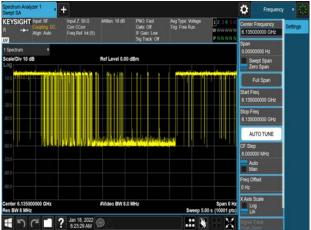
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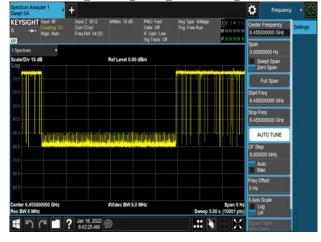
Det Lel_802.11ax_20MHz_6135MHzMHz_-65dBm



Det Lel_802.11ax_20MHz_6135MHzMHz_-66dBm



Det Lel_802.11ax_20MHz_6455MHzMHz_-62dBm



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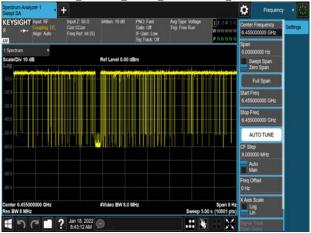
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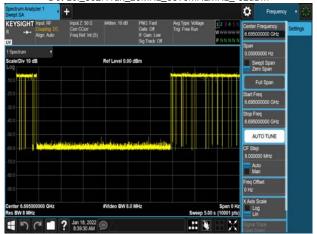
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Det Lel_802.11ax_20MHz_6455MHzMHz_-65dBm



Det Lel_802.11ax_20MHz_6695MHzMHz_-62dBm



Det Lel_802.11ax_20MHz_6695MHzMHz_-63dBm



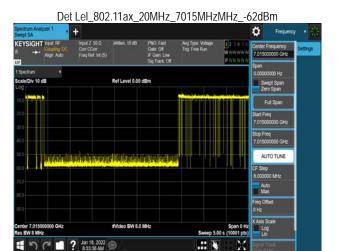
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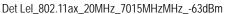


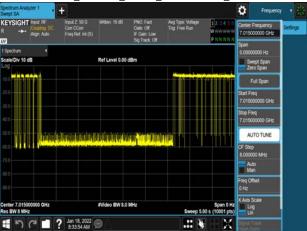
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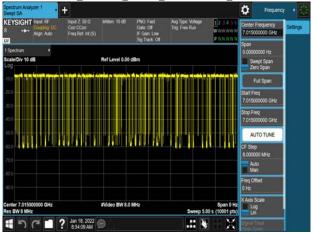
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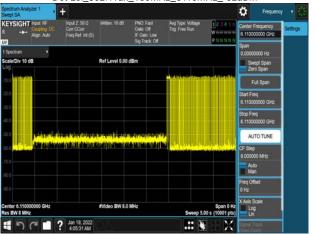




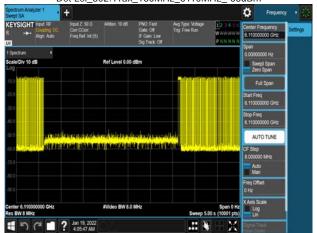
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Det Lel_802.11ax_160MHz_6110MHz_-62dBm



Det Lel_802.11ax_160MHz_6110MHz_-63dBm



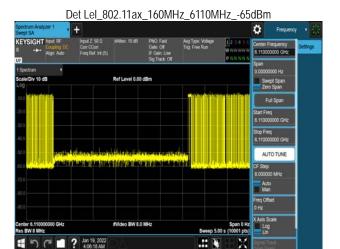
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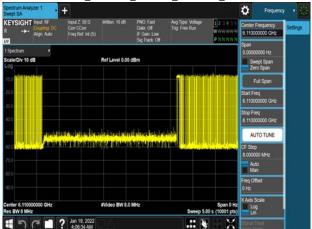
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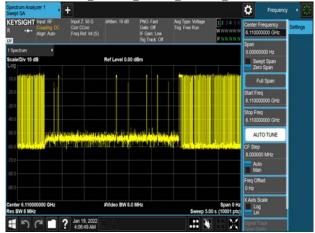
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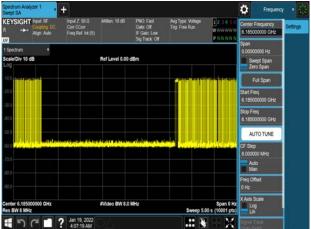
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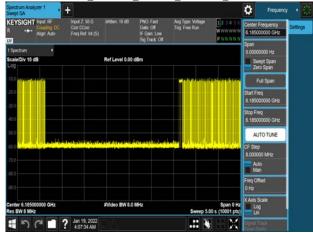
Det Lel_802.11ax_160MHz_6185MHz_-62dBm



Det Lel_802.11ax_160MHz_6185MHz_-63dBm



Det Lel_802.11ax_160MHz_6185MHz_-64dBm



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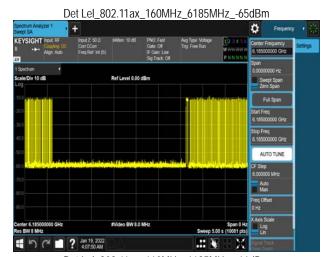
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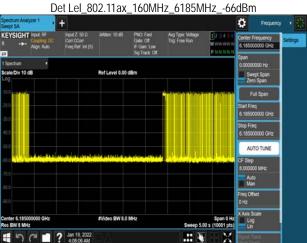
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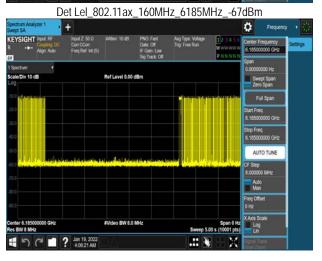
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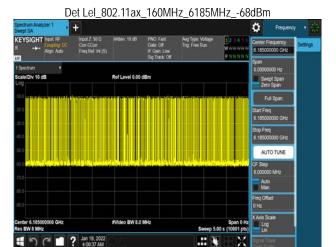


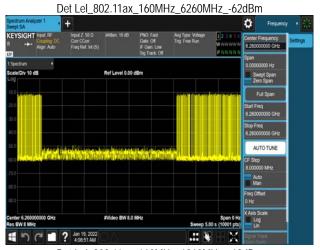
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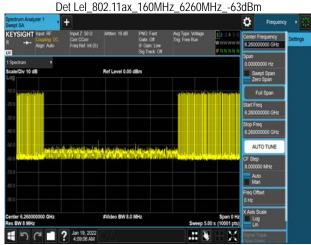












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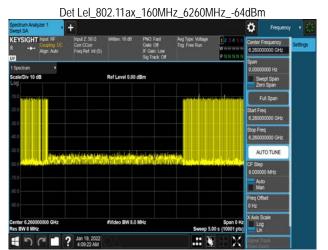
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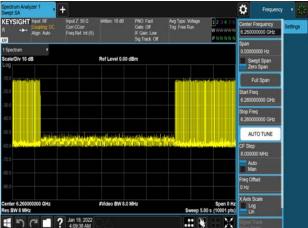
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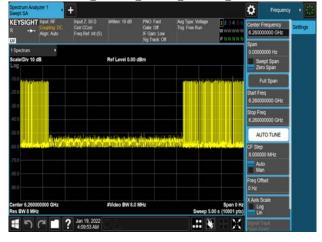
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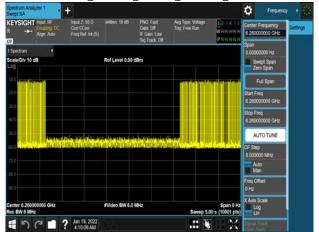




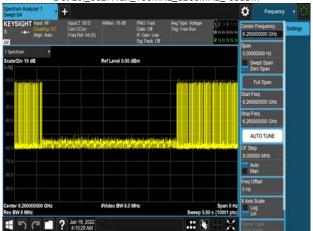
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Det Lel_802.11ax_160MHz_6260MHz_-67dBm



Det Lel_802.11ax_160MHz_6260MHz_-68dBm



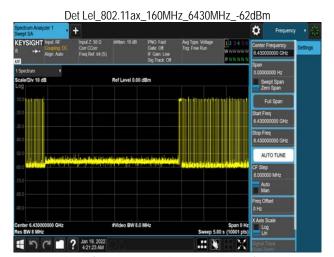
Det Lel_802.11ax_160MHz_6260MHz_-69dBm

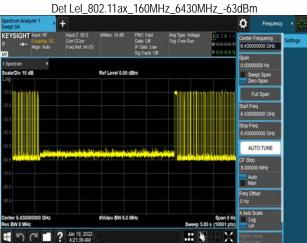


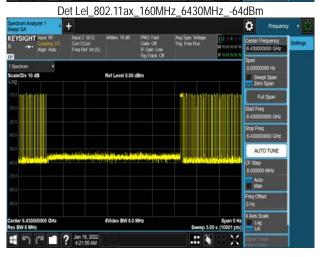
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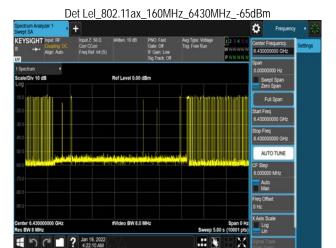


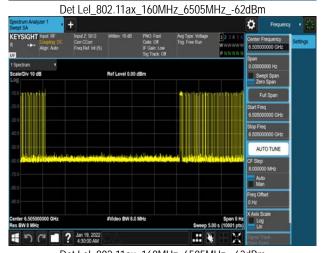
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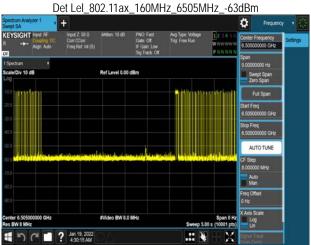












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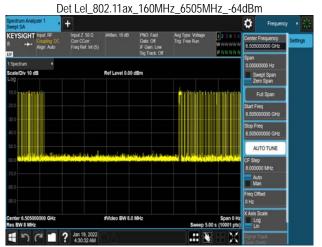
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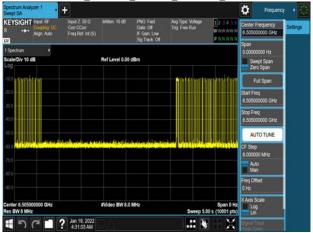
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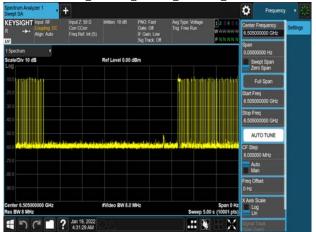




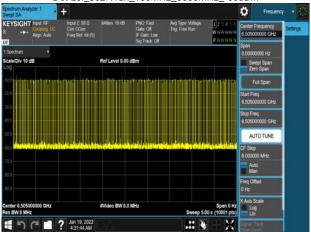
Det Lel_802.11ax_160MHz_6505MHz_-66dBm



Det Lel_802.11ax_160MHz_6505MHz_-67dBm



Det Lel_802.11ax_160MHz_6505MHz_-68dBm



Det Lel_802.11ax_160MHz_6580MHz_-62dBm



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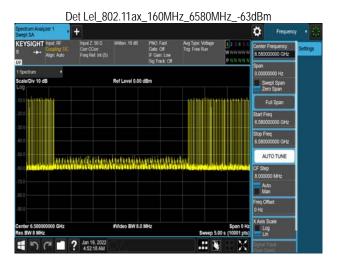
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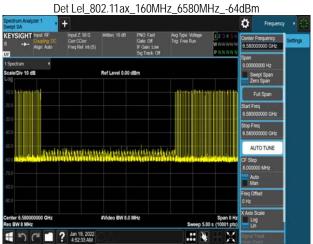
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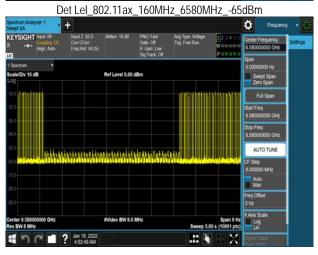
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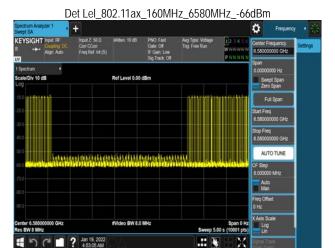


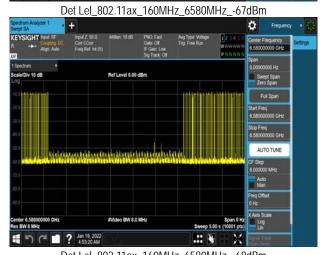
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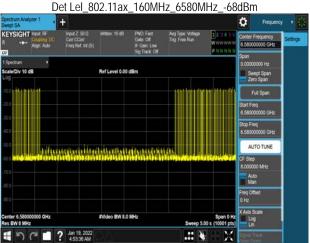








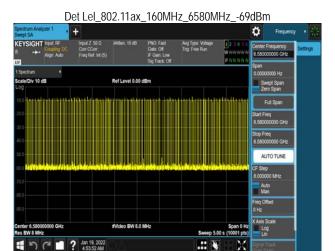




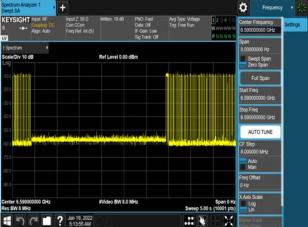
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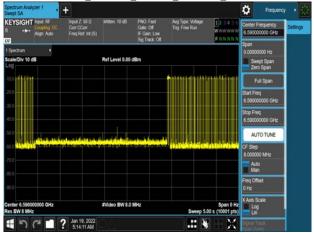
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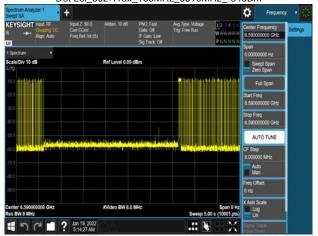




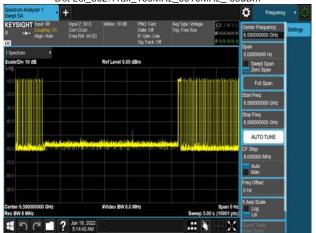
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Det Lel_802.11ax_160MHz_6590MHz_-64dBm



Det Lel_802.11ax_160MHz_6590MHz_-65dBm



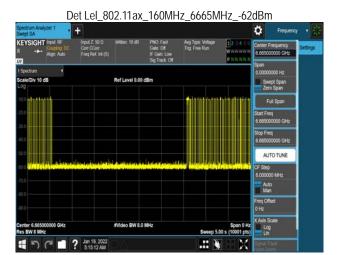
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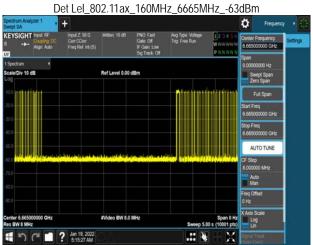


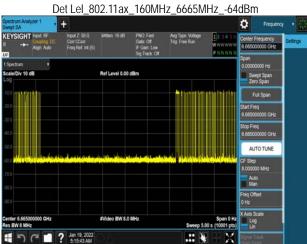
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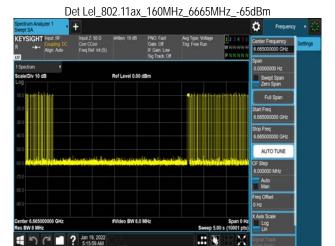


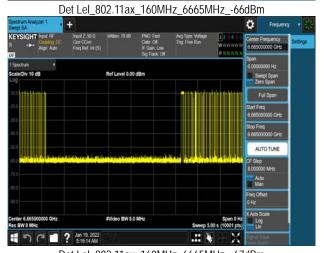
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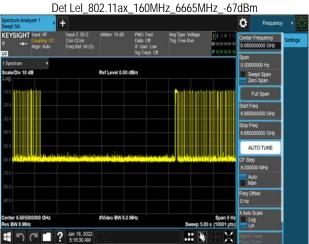








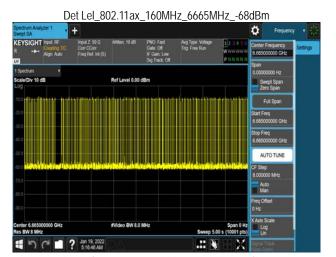


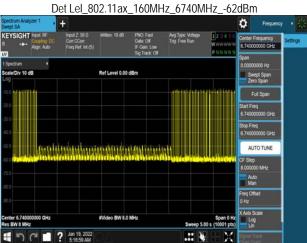


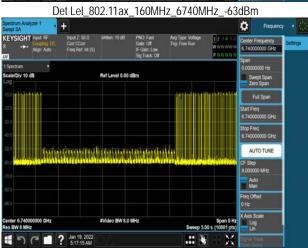
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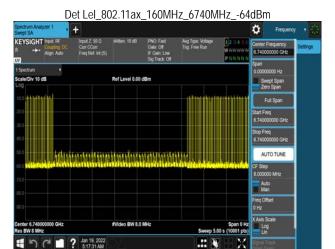


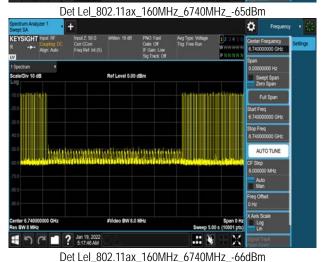
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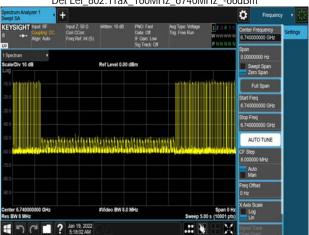








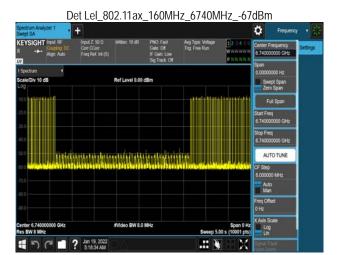


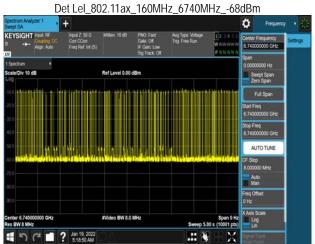


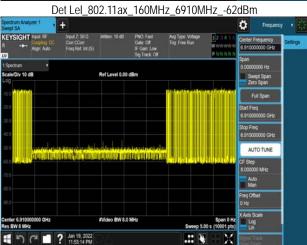
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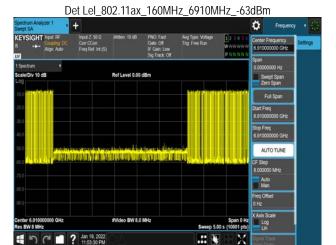


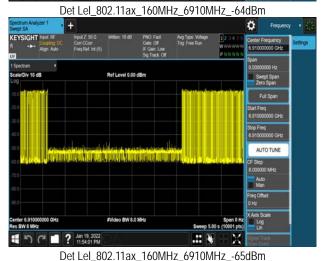
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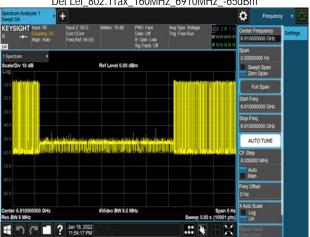










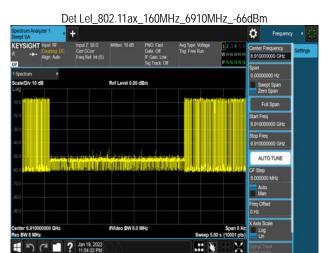


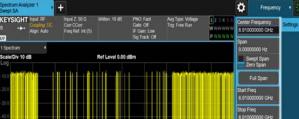
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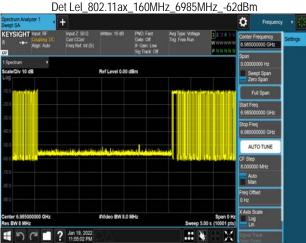
Det Lel_802.11ax_160MHz_6985MHz_-63dBm



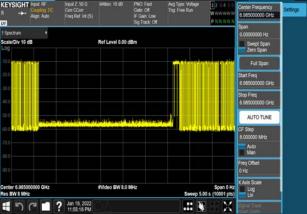


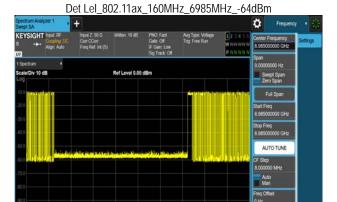
Det Lel_802.11ax_160MHz_6910MHz_-67dBm

AUTO TUNE #Video BW 8.0 MH; Span 0 H Sweep 5.00 s (10001 pts # 5 C 7 Jan 19, 2022 ... V









Span 0 H Sweep 5.00 s (10001 pts

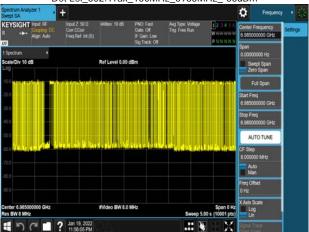


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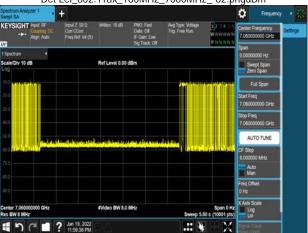


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Det Lel_802.11ax_160MHz_6985MHz_-66dBm



Det Lel_802.11ax_160MHz_7060MHz_-62.pngdBm



Det Lel_802.11ax_160MHz_7060MHz_-63.pngdBm



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t (886-2) 2299-3279

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7.4.3 Incumbent_signal

802.11ax_20MHz_6135MHz_AWGN:6135MHz



802.11ax_20MHz_6455MHz_ AWGN:6455MHz



802.11ax 20MHz 6695MHz AWGN:6695MHz



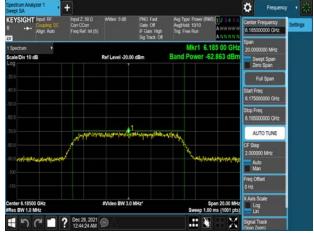
802.11ax_20MHz_7015MHz_AWGN:7015MHz



802.11ax_160MHz_6185MHz_AWGN:6110MHz



802.11ax 160MHz 6185MHz AWGN:6185MHz



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Report No.: E2/2021/C0072

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802.11ax_160MHz_6185MHz_AWGN:6260MHz ø



... 3



802.11ax_160MHz_6505MHz_AWGN:6505MHz



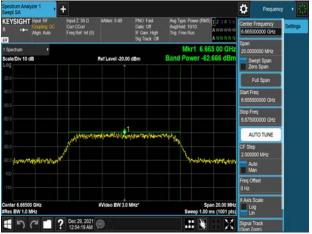
802.11ax 160MHz 6505MHz AWGN:6580MHz



802.11ax_160MHz_6665MHz_AWGN:6590MHz



802.11ax_160MHz_6665MHz_AWGN:6665MHz



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802.11ax_160MHz_6665MHz_AWGN:6740MHz



802.11ax_160MHz_6985MHz_AWGN:6910MHz



802.11ax_160MHz_6985MHz_AWGN:6985MHz



802.11ax_160MHz_6985MHz_AWGN:7060Mhz



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