

FCC ID: GKR436415
Report No.: T210730W08-RP4

IC: 2533B-436415

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RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART E

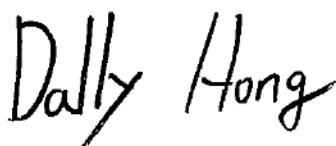
INDUSTRY CANADA RSS-247

Test Standard	FCC Part 15.407+ RSS-247 issue 2 and RSS-GEN issue 5
Product name	Tablet
Brand Name	ICON/iFit
Model No.	MP27-ARGON2-C
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report. The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Dally Hong
Sr. Engineer

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 7, 2022	Initial Issue	ALL	Doris Chu
01	January 12, 2022	See the following Note Rev. (01)	P.41-43, P.45	Doris Chu

Rev. (01)

1. Revised output power test result in section 4.3.4.

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	For FCC Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan For IC COMPAL ELECTRONICS INC. No. 581 & 581-1, Ruiguang Rd., Neihu District Taipei R.O.C. 114 Taiwan
Manufacturer	Compal Electronics Inc No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492 Taiwan
Equipment	Tablet
Model No.	MP27-ARGON2-C
Model Discrepancy	N/A
Trade Name	ICON/iFit
Received Date	July 30, 2021
Date of Test	December 6 ~ 21, 2021
Power Supply	Power from DC 12V.
HW Version	LA-M101P
SW Version	Android 9
EUT Serial #	PP54D301699

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

1.2 EUT CHANNEL INFORMATION

Frequency Range	<table><tr><td colspan="2">UNII-1</td></tr><tr><td>IEEE 802.11a</td><td>5180 ~ 5240 MHz</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5180 ~ 5240 MHz</td></tr><tr><td colspan="2">UNII-2a</td></tr><tr><td>IEEE 802.11a</td><td>5260 ~ 5320 MHz</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5260 ~ 5320 MHz</td></tr><tr><td colspan="2">UNII-2c</td></tr><tr><td>IEEE 802.11a</td><td>5500 ~ 5700 MHz</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5500 ~ 5700 MHz</td></tr><tr><td colspan="2">UNII-3</td></tr><tr><td>IEEE 802.11a</td><td>5745 ~ 5825 MHz</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5745 ~ 5825 MHz</td></tr></table>	UNII-1		IEEE 802.11a	5180 ~ 5240 MHz	IEEE 802.11n HT 20/ac VHT20 MHz	5180 ~ 5240 MHz	UNII-2a		IEEE 802.11a	5260 ~ 5320 MHz	IEEE 802.11n HT 20/ac VHT20 MHz	5260 ~ 5320 MHz	UNII-2c		IEEE 802.11a	5500 ~ 5700 MHz	IEEE 802.11n HT 20/ac VHT20 MHz	5500 ~ 5700 MHz	UNII-3		IEEE 802.11a	5745 ~ 5825 MHz	IEEE 802.11n HT 20/ac VHT20 MHz	5745 ~ 5825 MHz
UNII-1																									
IEEE 802.11a	5180 ~ 5240 MHz																								
IEEE 802.11n HT 20/ac VHT20 MHz	5180 ~ 5240 MHz																								
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IEEE 802.11a	5500 ~ 5700 MHz																								
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UNII-3																									
IEEE 802.11a	5745 ~ 5825 MHz																								
IEEE 802.11n HT 20/ac VHT20 MHz	5745 ~ 5825 MHz																								
Modulation Type	1. IEEE 802.11a mode: OFDM 2. IEEE 802.11n HT 20/ac VHT20 MHz mode: OFDM																								

Remark:

1. Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels.
2. For Canada the EUT Frequency Range 5600~5650MHz will be disabled.

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Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☒ PCB ☐ Dipole ☐ Coils
Antenna Gain	5150~5250: Gain: 0.17 dBi 5250~5350: Gain: 0.17 dBi 5470~5725: Gain: 0.91 dBi 5725~5850: Gain: 1.21 dBi
Antenna Connector	N/A

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-Gen 6.8.

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 6dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30 MHz ~1 GHz (Horizontally)	+/- 3.91
3M Semi Anechoic Chamber / 30 MHz ~1 GHz (Vertically)	+/- 4.57
3M Semi Anechoic Chamber / 1 GHz ~ 6 GHz	+/- 5.20
3M Semi Anechoic Chamber / 6 GHz ~ 18 GHz	+/- 5.18
3M Semi Anechoic Chamber / 18 GHz ~ 40 GHz	+/- 3.68
3M Semi Anechoic Chamber / 40 GHz ~ 60 GHz	+/- 4.64
3M Semi Anechoic Chamber / 60 GHz ~ 75 GHz	+/- 4.64
3M Semi Anechoic Chamber / 75 GHz ~ 110 GHz	+/- 4.65
3M Semi Anechoic Chamber / 110 GHz ~ 170 GHz	+/- 4.69
3M Semi Anechoic Chamber / 170 GHz ~ 220 GHz	+/- 5.31
3M Semi Anechoic Chamber / 220 GHz ~ 325 GHz	+/- 5.73

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	-	Not applicable, because EUT doesn't connect to AC Main Source direct.
Radiation	Ray Li, Tony Chao	-
RF Conducted	Lance Chen	-

Remark: The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Coaxial Cable	Woken	WC12	CC003	06/28/2021	06/27/2022
Coaxial Cable	Woken	WC12	CC001	06/28/2021	06/27/2022
Power Meter	Anritsu	ML2487A	6K00003260	05/24/2021	05/23/2022
Power Sensor	Anritsu	MA2490A	032910	05/24/2021	05/23/2022
EXA Signal Analyzer	KEYSIGHT	N9010B	MY55460167	09/07/2021	09/06/2022
Software	Radio Test Software Ver. 21				

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3M 966 Chamber Test Site (1GHz ~ 18GHz)					
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Bilog Antenna	Sunol Sciences	JB3	A030105	07/19/2021	07/18/2022
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/24/2021	02/23/2022
Coaxial Cable	EMCI	EMC105	190914+1111	09/17/2021	09/16/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
High Pass Filters	MICRO TRONICS	HPM13195	003	02/08/2021	02/07/2022
Horn Antenna	ETS LINDGREN	3117	00055165	07/29/2021	07/28/2022
Loop Ant	COM-POWER	AL-130	121051	04/07/2021	04/06/2022
Pre-Amplifier	EMEC	EM330	060609	02/24/2021	02/23/2022
Pre-Amplifier	HP	8449B	3008A00965	12/25/2020	12/24/2021
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

Remark: Each piece of equipment is scheduled for calibration once a year.

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3M 966 Chamber Test Site (Above 18GHz)					
Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal Due
Coaxial Cable	Woken	J-1099	201709090004	12/21/2021	12/20/2022
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/06/2021	01/05/2022
High Pass Filters	MICRO TRONICS	HPM13195	003	02/08/2021	02/07/2022
Horn Antenna	ETS LINDGREN	3116	00026370	11/30/2021	11/29/2022
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/05/2021	12/04/2022
Pre-Amplifier	MITEQ	AMF-6F-18004000-37-8P	985646	09/08/2021	09/07/2022
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	12/06/2021	12/05/2022
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	PD97260H	1000M-7260H
2	Adapter	WEIHAI	HAS060123-EA	N/A	N/A	N/A

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 789033 D02, KDB 905462 D02, RSS-247 Issue 2 and RSS-GEN Issue 5.

2. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-Gen (6.8)	1.3	Antenna Requirement	Pass
15.207	RSS-Gen (8.8)	4.1	AC Conducted Emission	N/A
15.403(i)	-	4.2	26dB Bandwidth	Pass
15.407(e)	RSS-247(6.2.4)	4.2	6dB Bandwidth	Pass
15.403(i)	RSS-Gen (6.7)	4.2	Occupied Bandwidth (99%)	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.2.1) RSS-247(6.2.3.1) RSS-247(6.2.4.1)	4.3	Output Power Measurement	Pass
15.407(a)	RSS-247(6.2.1.1) RSS-247(6.2.2.1) RSS-247(6.2.3.1) RSS-247(6.2.4.1)	4.4	Power Spectral Density	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.5	Radiation Band Edge	Pass
15.407(b)	RSS-247(6.2.1.2) RSS-247(6.2.2.2) RSS-247(6.2.3.2) RSS-247(6.2.4.2)	4.5	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE EUT CHANNEL NUMBER OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT 20 MHz/ac VHT20 mode: MCS8																							
Operating Frequency	<table><tr><th></th><th>Mode</th><th>Frequency Range (MHz)</th></tr><tr><td rowspan="2">U-NII-1</td><td>IEEE 802.11a</td><td>5180, 5220, 5240</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5180, 5220, 5240</td></tr><tr><td rowspan="2">U-NII-2a</td><td>IEEE 802.11a</td><td>5260, 5300, 5320</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5260, 5300, 5320</td></tr><tr><td rowspan="2">U-NII-2c</td><td>IEEE 802.11a</td><td>5500, 5580, 5700</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5500, 5580, 5700</td></tr><tr><td rowspan="2">U-NII-3</td><td>IEEE 802.11a</td><td>5745, 5785, 5825</td></tr><tr><td>IEEE 802.11n HT 20/ac VHT20 MHz</td><td>5745, 5785, 5825</td></tr></table>		Mode	Frequency Range (MHz)	U-NII-1	IEEE 802.11a	5180, 5220, 5240	IEEE 802.11n HT 20/ac VHT20 MHz	5180, 5220, 5240	U-NII-2a	IEEE 802.11a	5260, 5300, 5320	IEEE 802.11n HT 20/ac VHT20 MHz	5260, 5300, 5320	U-NII-2c	IEEE 802.11a	5500, 5580, 5700	IEEE 802.11n HT 20/ac VHT20 MHz	5500, 5580, 5700	U-NII-3	IEEE 802.11a	5745, 5785, 5825	IEEE 802.11n HT 20/ac VHT20 MHz	5745, 5785, 5825
	Mode	Frequency Range (MHz)																						
U-NII-1	IEEE 802.11a	5180, 5220, 5240																						
	IEEE 802.11n HT 20/ac VHT20 MHz	5180, 5220, 5240																						
U-NII-2a	IEEE 802.11a	5260, 5300, 5320																						
	IEEE 802.11n HT 20/ac VHT20 MHz	5260, 5300, 5320																						
U-NII-2c	IEEE 802.11a	5500, 5580, 5700																						
	IEEE 802.11n HT 20/ac VHT20 MHz	5500, 5580, 5700																						
U-NII-3	IEEE 802.11a	5745, 5785, 5825																						
	IEEE 802.11n HT 20/ac VHT20 MHz	5745, 5785, 5825																						

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. For Canada the EUT Frequency Range 5600~5650MHz will be disabled.
3. The system support 802.11a/n HT20/ac VHT20, the VHT20 was reduced since the identical parameters with 802.11n HT20.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by 12Vdc
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☒ Placed in fixed position at Y-Plane (E1-Plane) ☐ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by 12Vdc
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

- 1. The worst mode was record in this test report.*
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report*

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3.3 EUT DUTY CYCLE

Temperature: 20.8°C

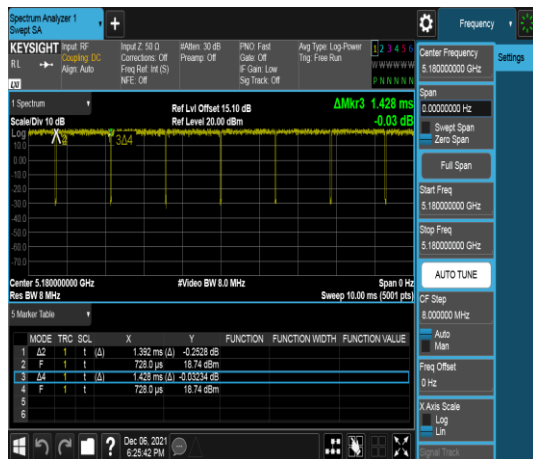
Humidity: 60% RH

Tested by: Lance Chen

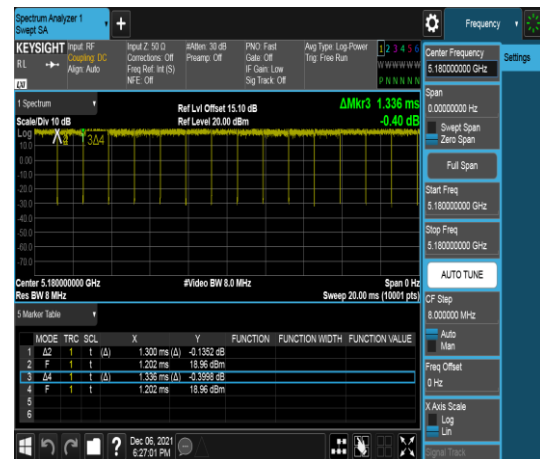
Test date: December 6, 2021

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) $=10 \cdot \log(1/\text{Duty Cycle})$	1/T (kHz)	VBW setting (kHz)
802.11a	97.48	0.11	0.72	1.00
802.11n HT20	97.31	0.12	0.77	1.00

802.11a



802.11n HT20



4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

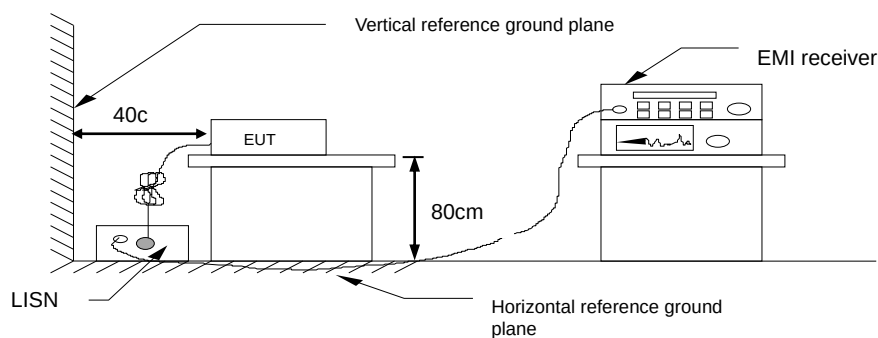
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-Peak and Average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Not applicable, because EUT doesn't connect to AC Main Source direct.

4.2 26dB BANDWIDTH, 6dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

26 dB Bandwidth : For reporting purposes only.

6 dB Bandwidth : Least 500kHz.

Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

26dB

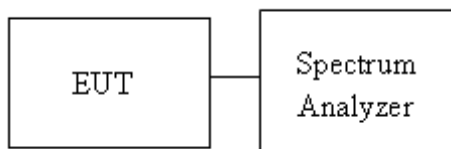
1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW: approximately 1% of the emission bandwidth.
3. Set the VBW>RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26dB down from the peak of the emission. Compare this with the RBW setting of the analyser. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6dB

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

99%

1. This measurement setting are specified in section D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set center frequency to the nominal EUT channel center frequency.
3. Set span = 1.5 times to 5.0 times the OBW.
4. Set RBW = 1 % to 5% of the OBW.
5. Set VBW $\geq 3 \times \text{RBW}$

4.2.3 Test Setup

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4.2.4 Test Result

Temperature: 20.8°C

Humidity:

60% RH

Tested by: Lance Chen

Test date:

December 6, 2021

UNII-1 5150-5250 MHz			
Test mode: IEEE 802.11a mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5180	16.689	26.59
Mid	5220	16.664	27.17
High	5240	16.696	28.96
Test mode: IEEE 802.11n HT20 mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5180	17.725	28.51
Mid	5220	17.844	29.69
High	5240	17.829	30.00

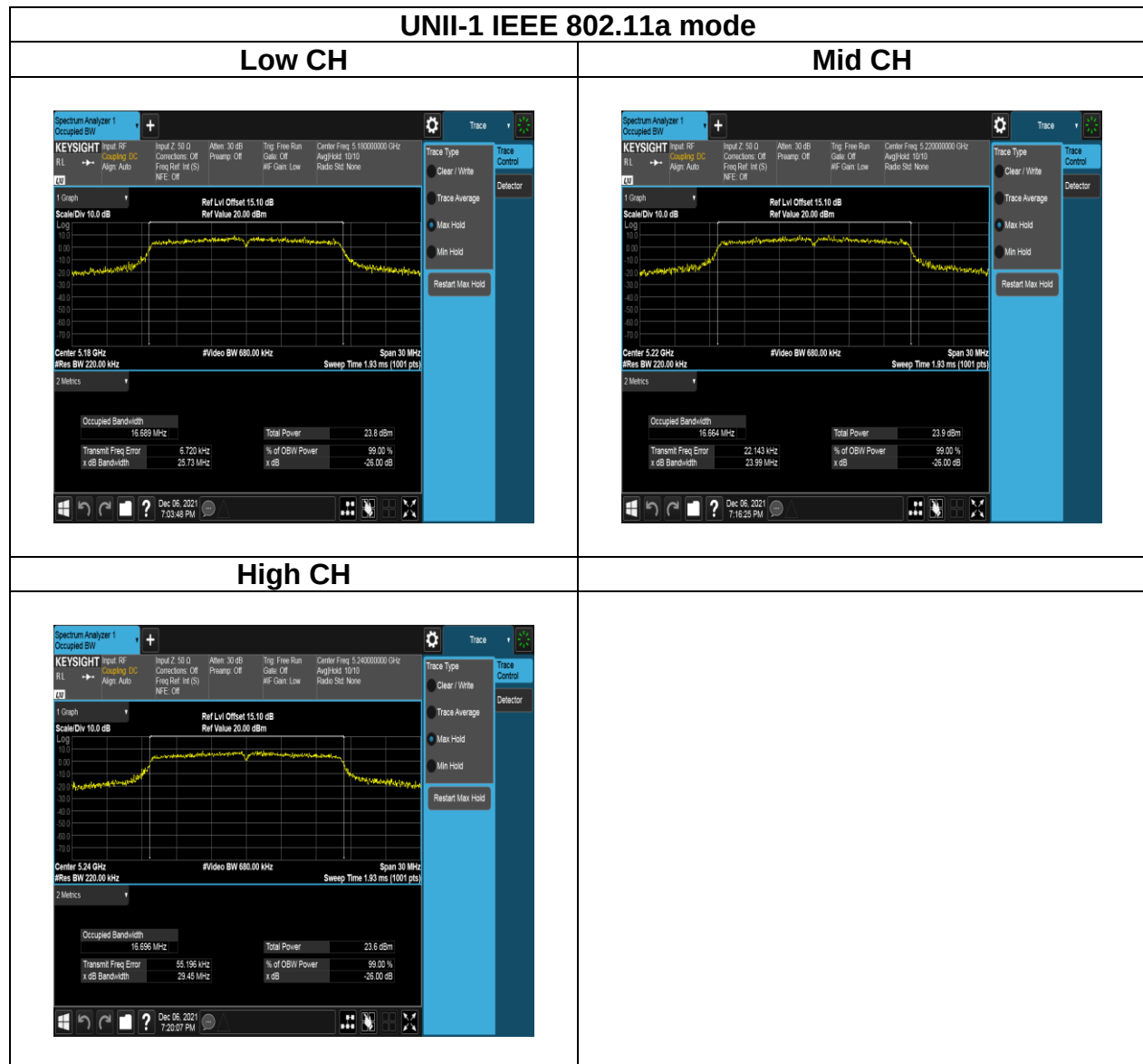
UNII-2a 5250-5350 MHz			
Test mode: IEEE 802.11a mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5260	17.010	29.66
Mid	5300	16.910	28.58
High	5320	16.914	28.33
Test mode: IEEE 802.11n HT20 mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5260	17.898	30.00
Mid	5300	17.970	29.59
High	5320	17.835	29.60

UNII-2c 5475-5725 MHz			
Test mode: IEEE 802.11a mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5500	16.908	29.23
Mid	5580	16.874	29.83
High	5700	16.848	29.41
Test mode: IEEE 802.11n HT20 mode			
Channel	Frequency (MHz)	OBW (99%) (MHz)	26dB BW (MHz)
Low	5500	17.859	28.93
Mid	5580	18.000	29.77
High	5700	17.856	29.42

UNII-3 5725-5825MHz				
Test mode: IEEE 802.11a mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Low	5745	16.874	13.04	>500kHz
Mid	5785	17.017	15.09	
High	5825	17.031	15.75	
Test mode: IEEE 802.11n HT20 mode				
Channel	Frequency (MHz)	OBW(99%) (MHz)	6dB BW (MHz)	Limit
Low	5745	18.012	16.59	>500kHz
Mid	5785	18.034	17.60	
High	5825	17.865	14.86	

Report No.: T210730W08-RP4

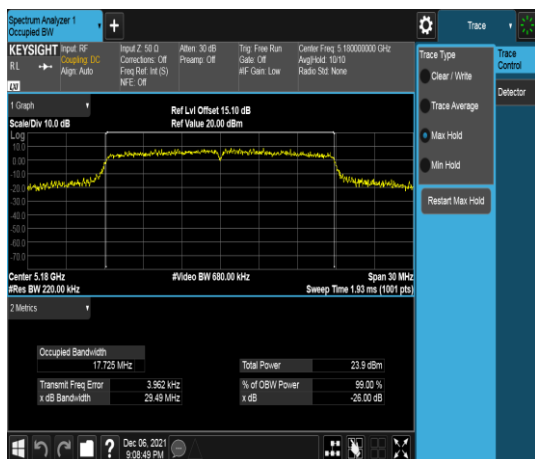
Test Data (99% OBW)



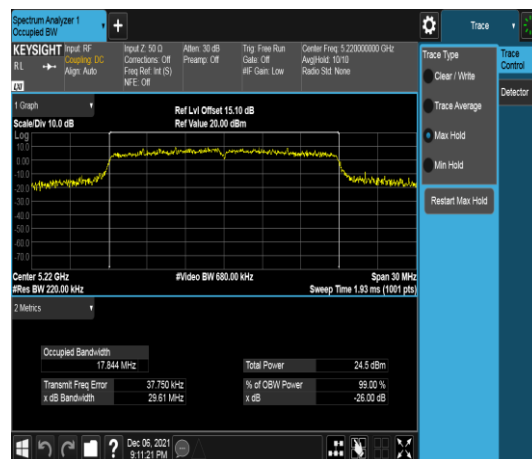
Report No.: T210730W08-RP4

UNII-1 IEEE 802.11n HT20 mode

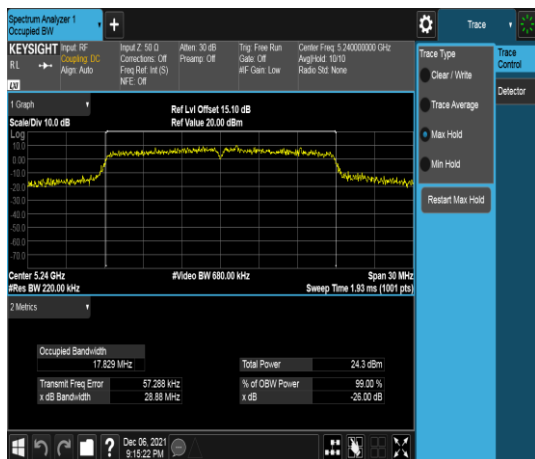
Low CH



Mid CH

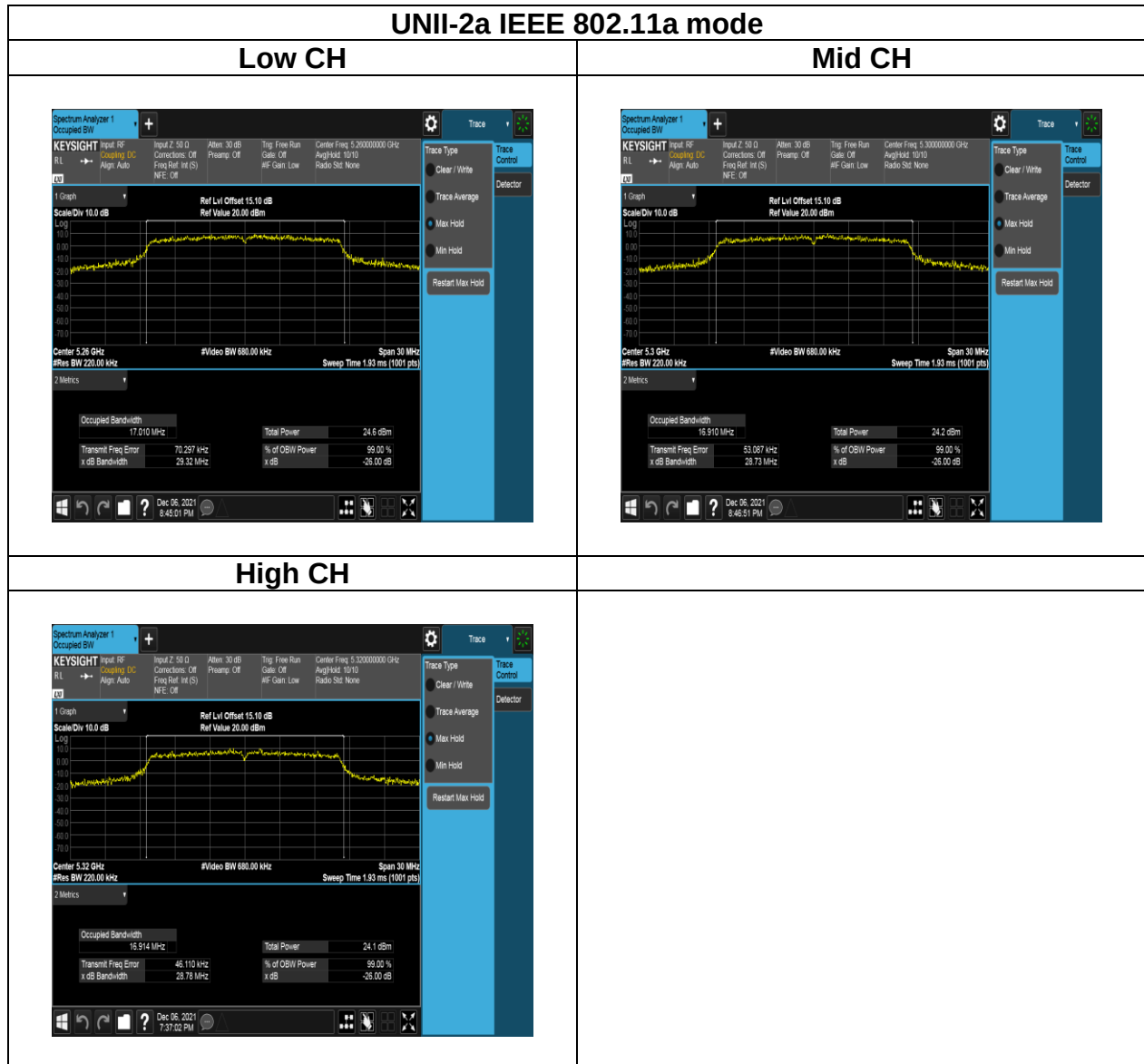


High CH



Report No.: T210730W08-RP4

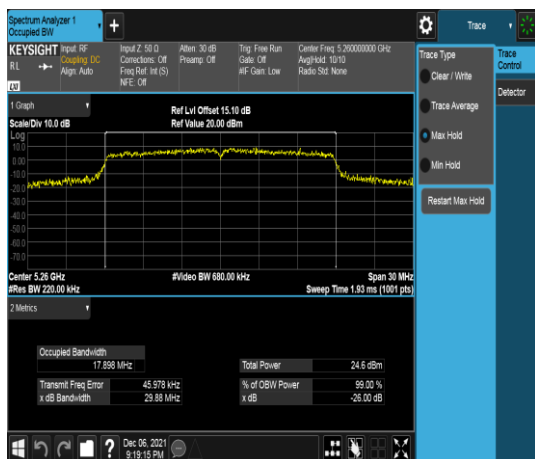
Test Data (99% OBW)



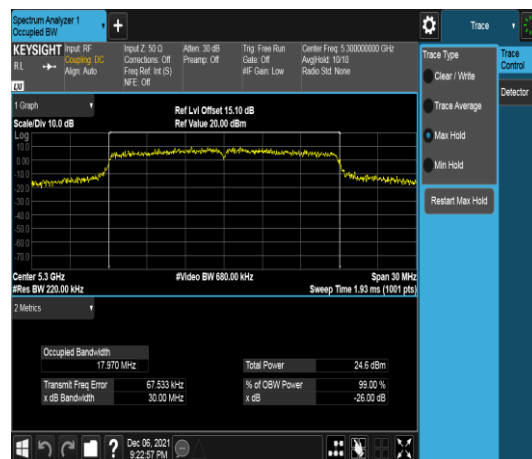
Report No.: T210730W08-RP4

UNII-2a IEEE 802.11n HT20 mode

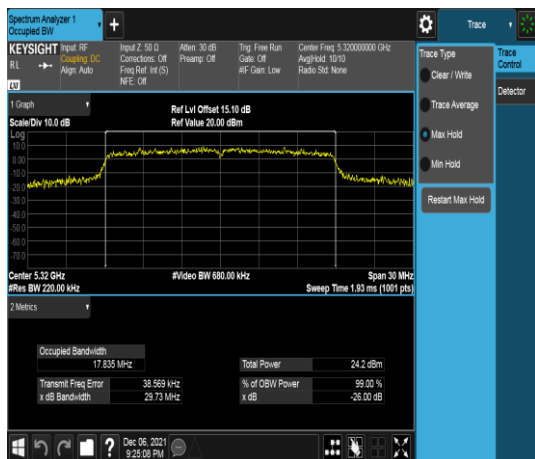
Low CH



Mid CH

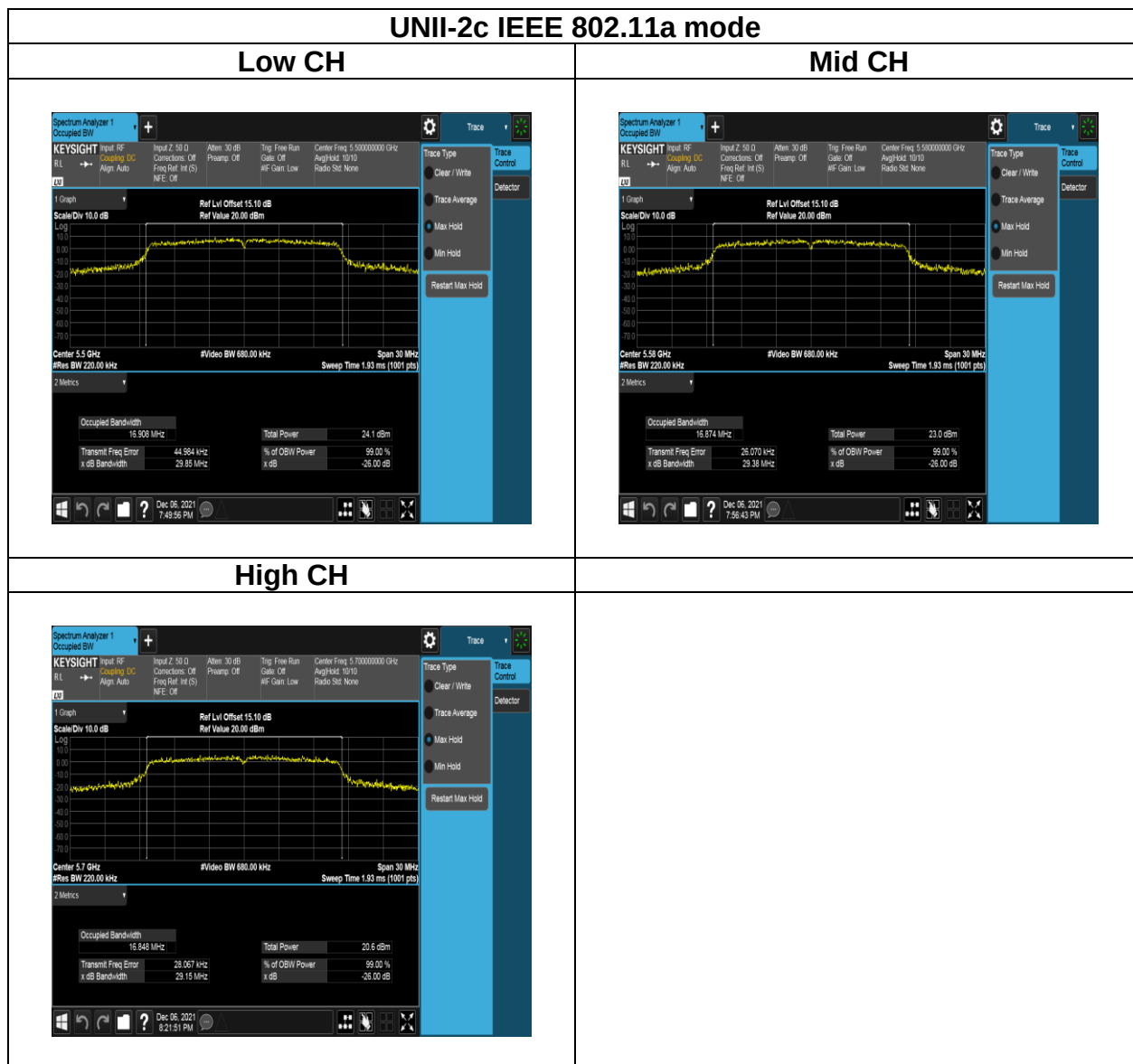


High CH



Report No.: T210730W08-RP4

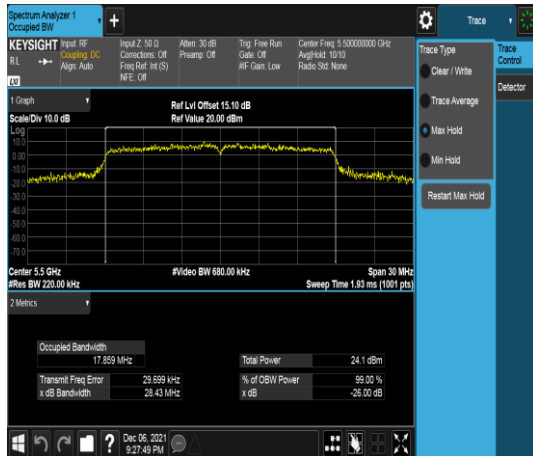
Test Data (99% OBW)



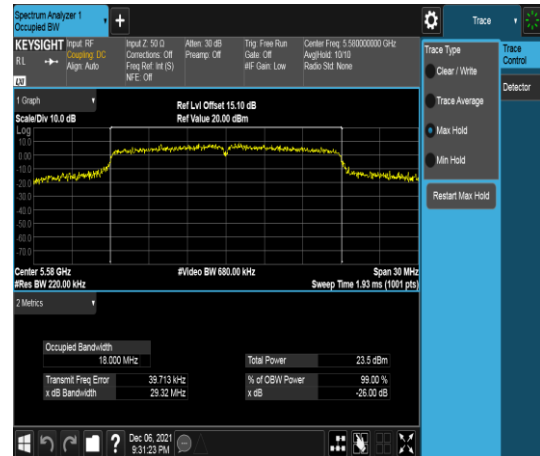
Report No.: T210730W08-RP4

UNII-2c IEEE 802.11n HT20 mode

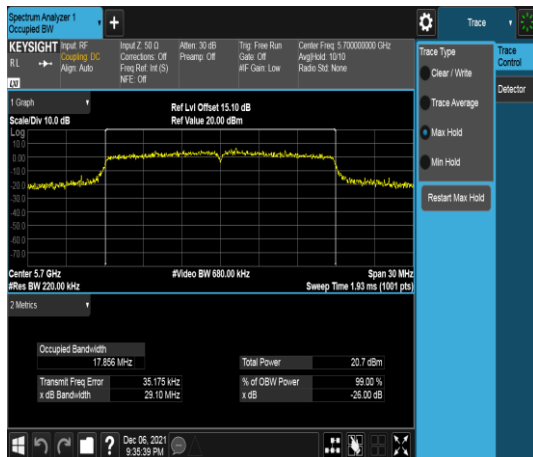
Low CH



Mid CH

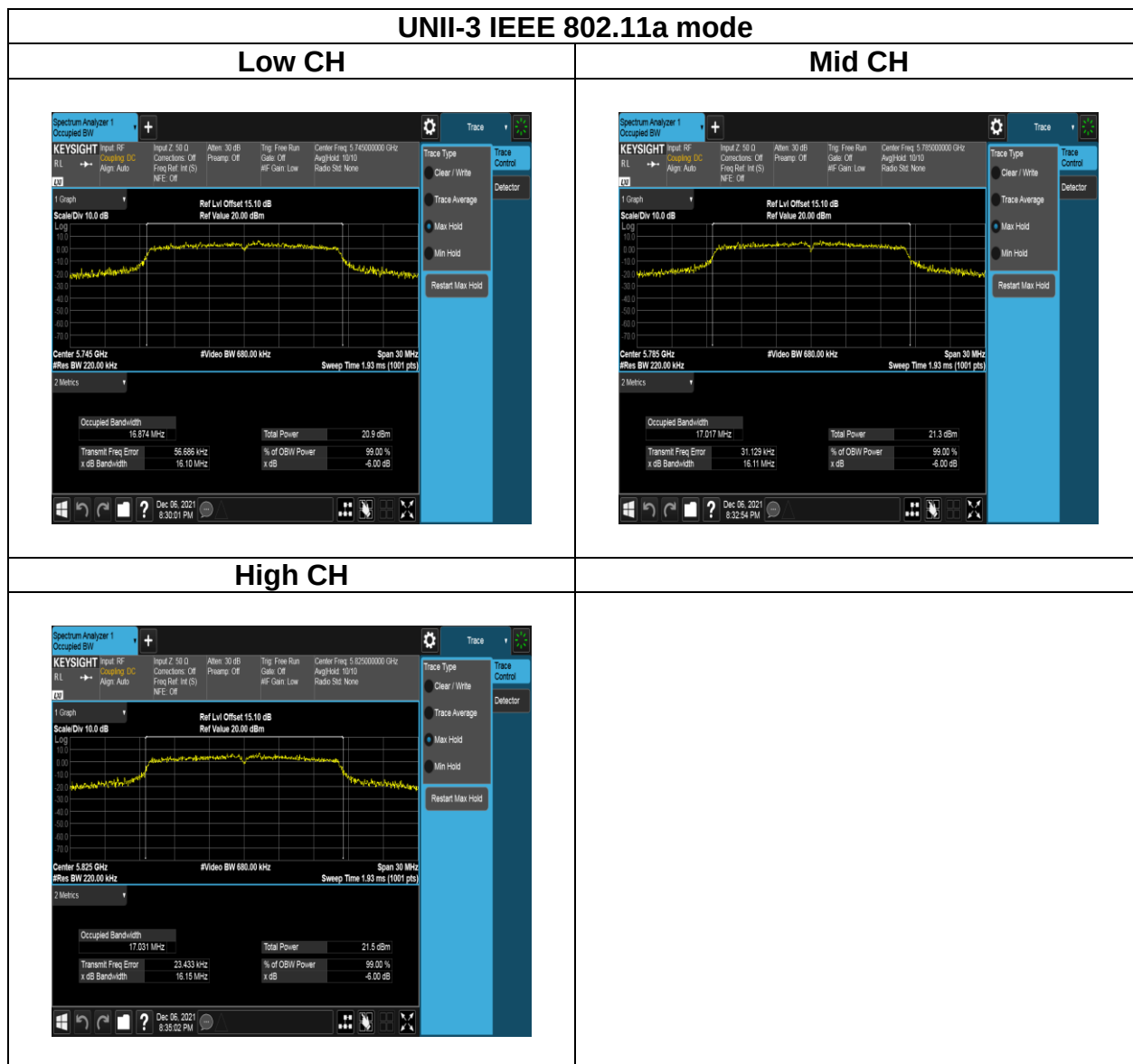


High CH



Report No.: T210730W08-RP4

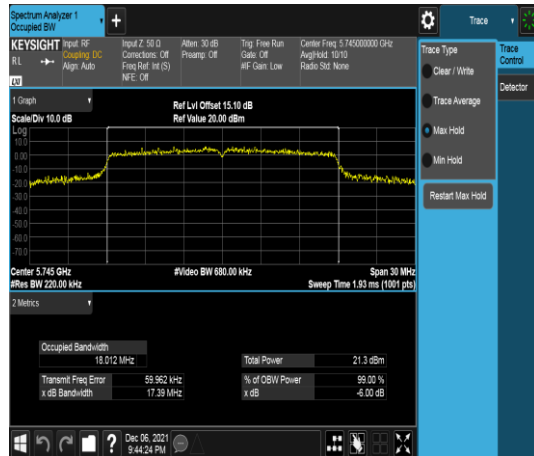
Test Data (99% OBW)



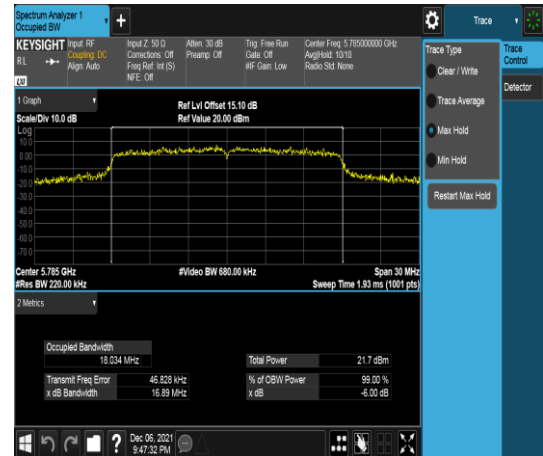
Report No.: T210730W08-RP4

UNII-3 IEEE 802.11n HT20 mode

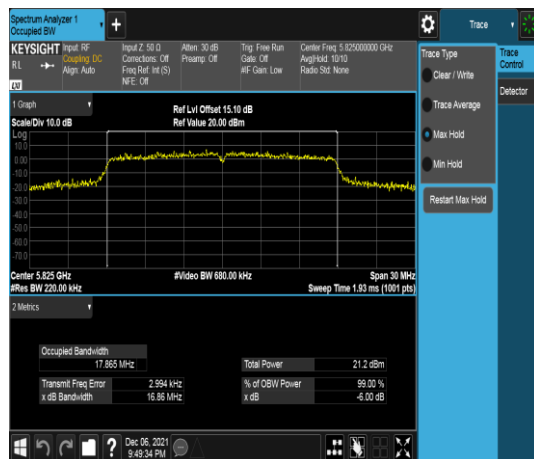
Low CH



Mid CH

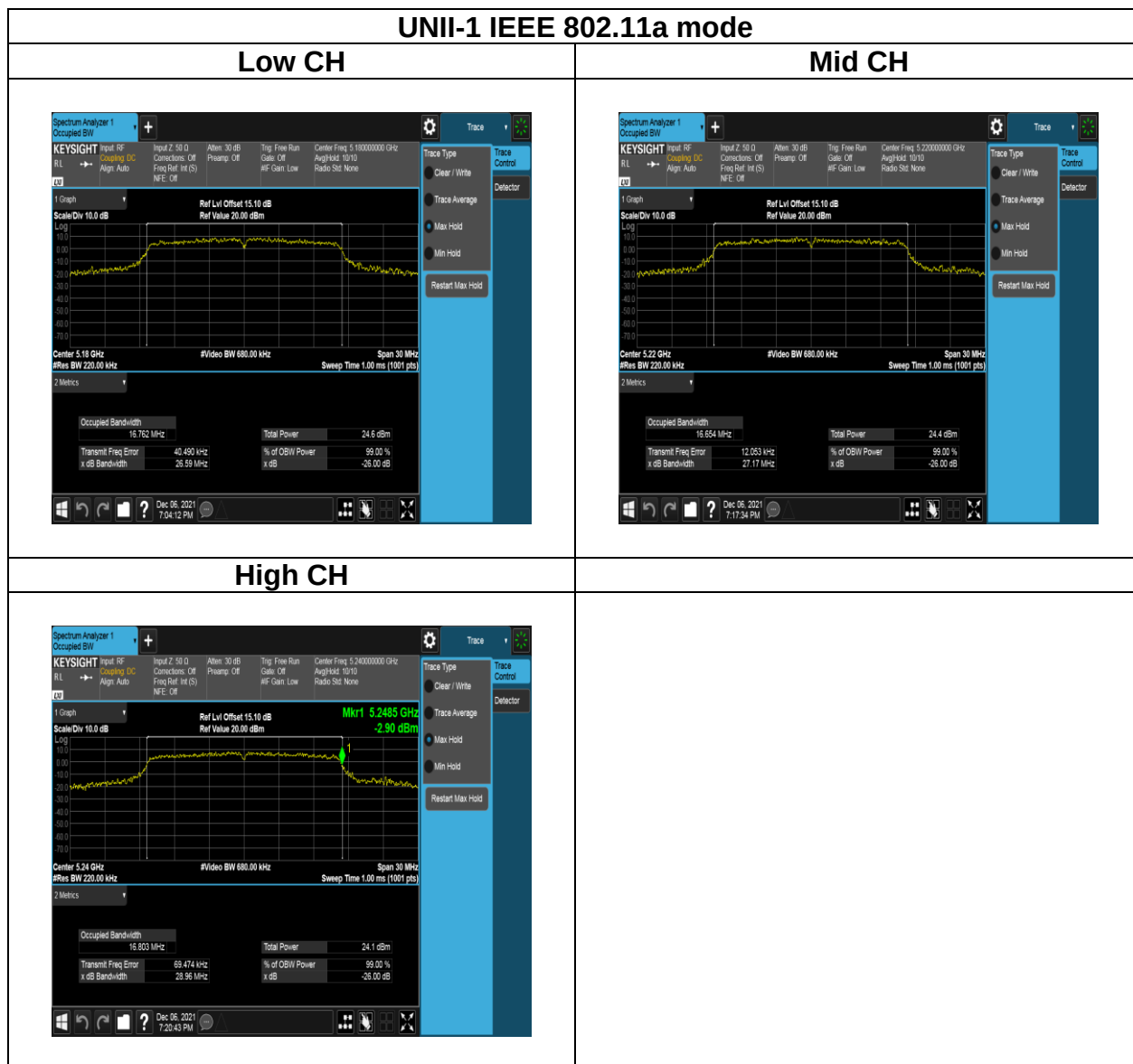


High CH



Report No.: T210730W08-RP4

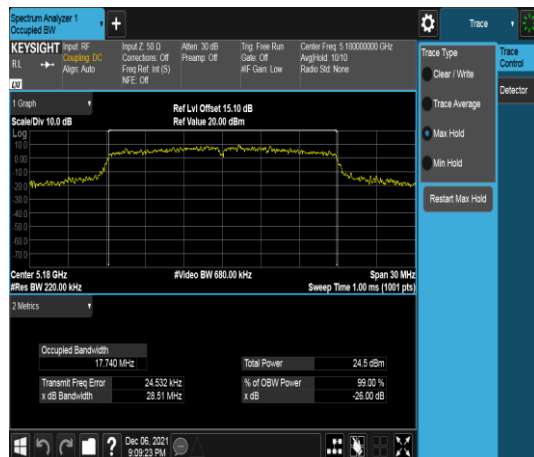
Test Data (26dB BANDWIDTH)



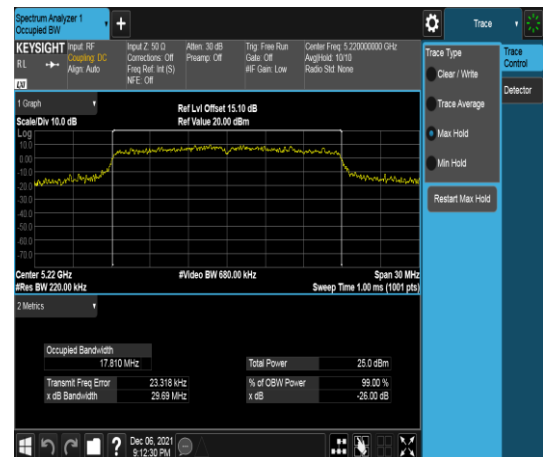
Report No.: T210730W08-RP4

UNII-1 IEEE 802.11n HT20 mode

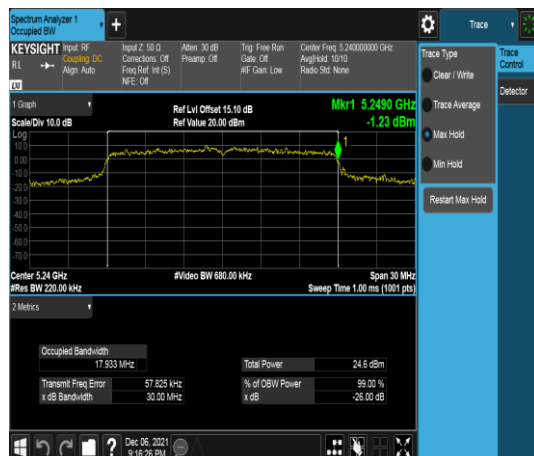
Low CH



Mid CH

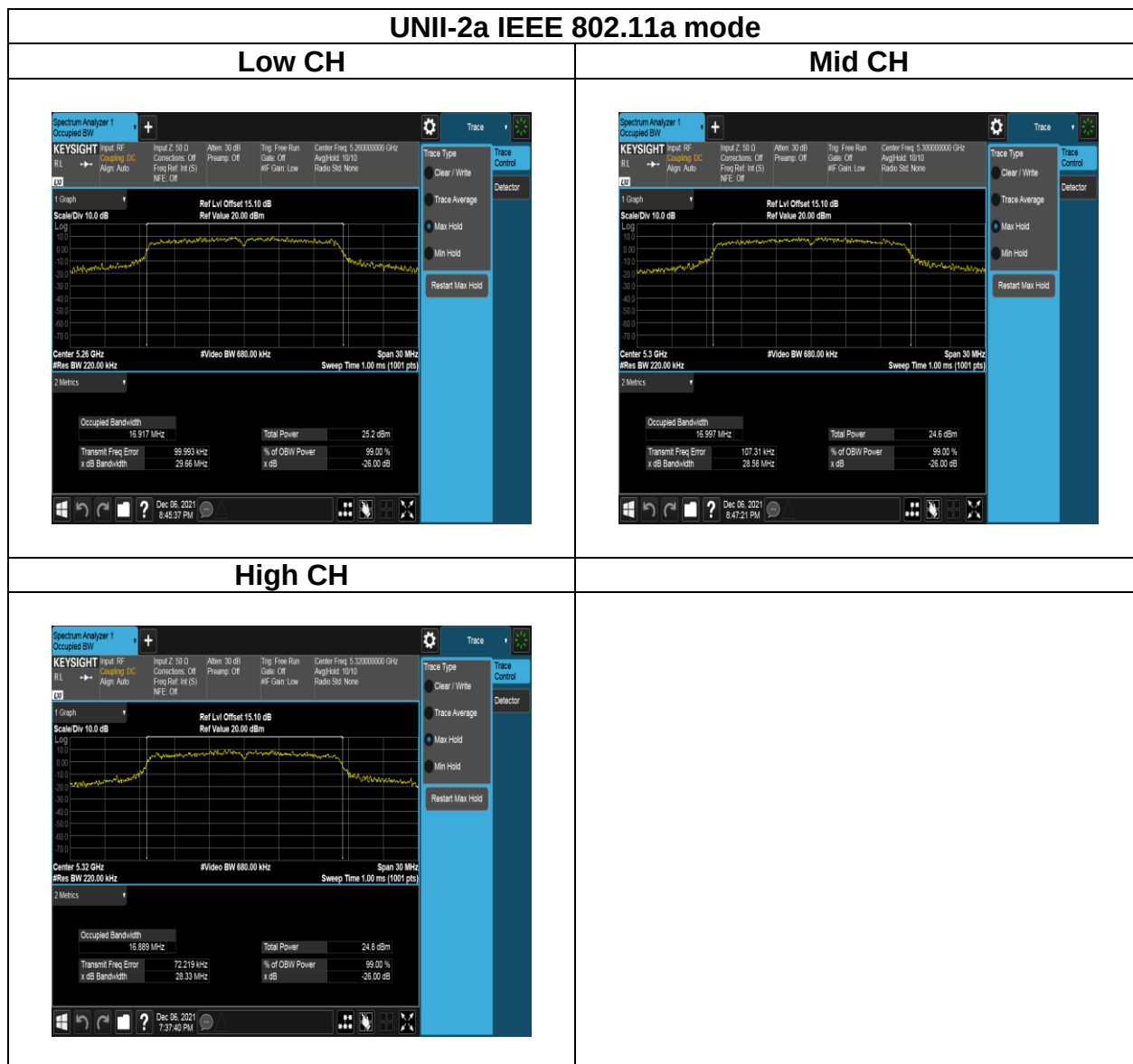


High CH



Report No.: T210730W08-RP4

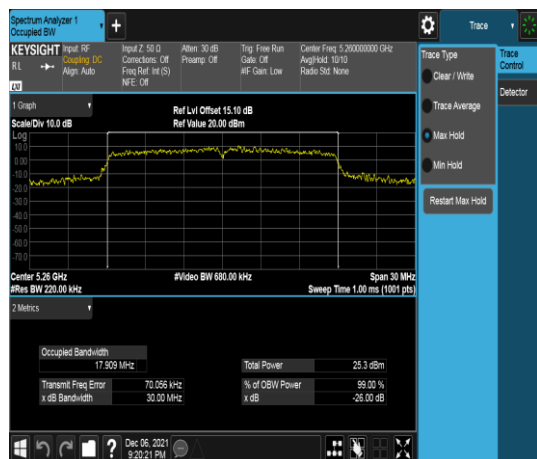
Test Data (26dB BANDWIDTH)



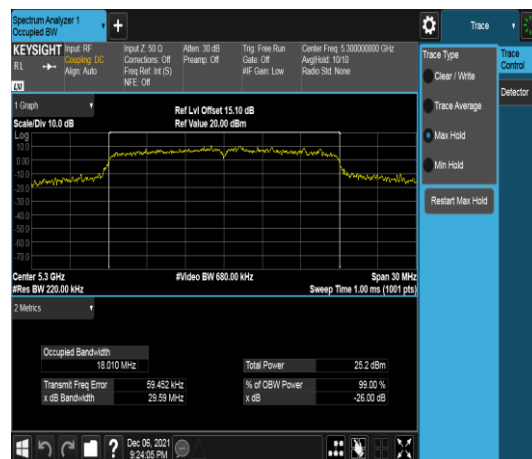
Report No.: T210730W08-RP4

UNII-2a IEEE 802.11n HT20 mode

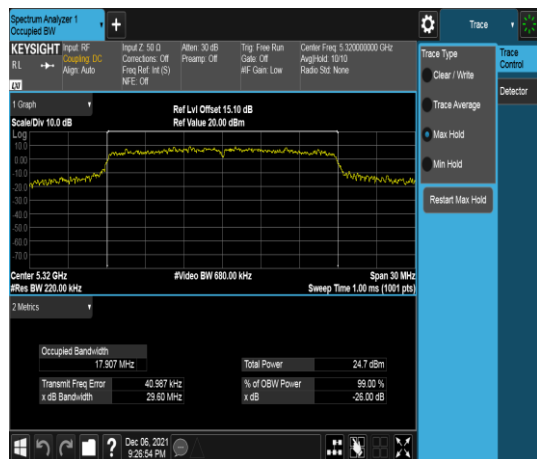
Low CH



Mid CH

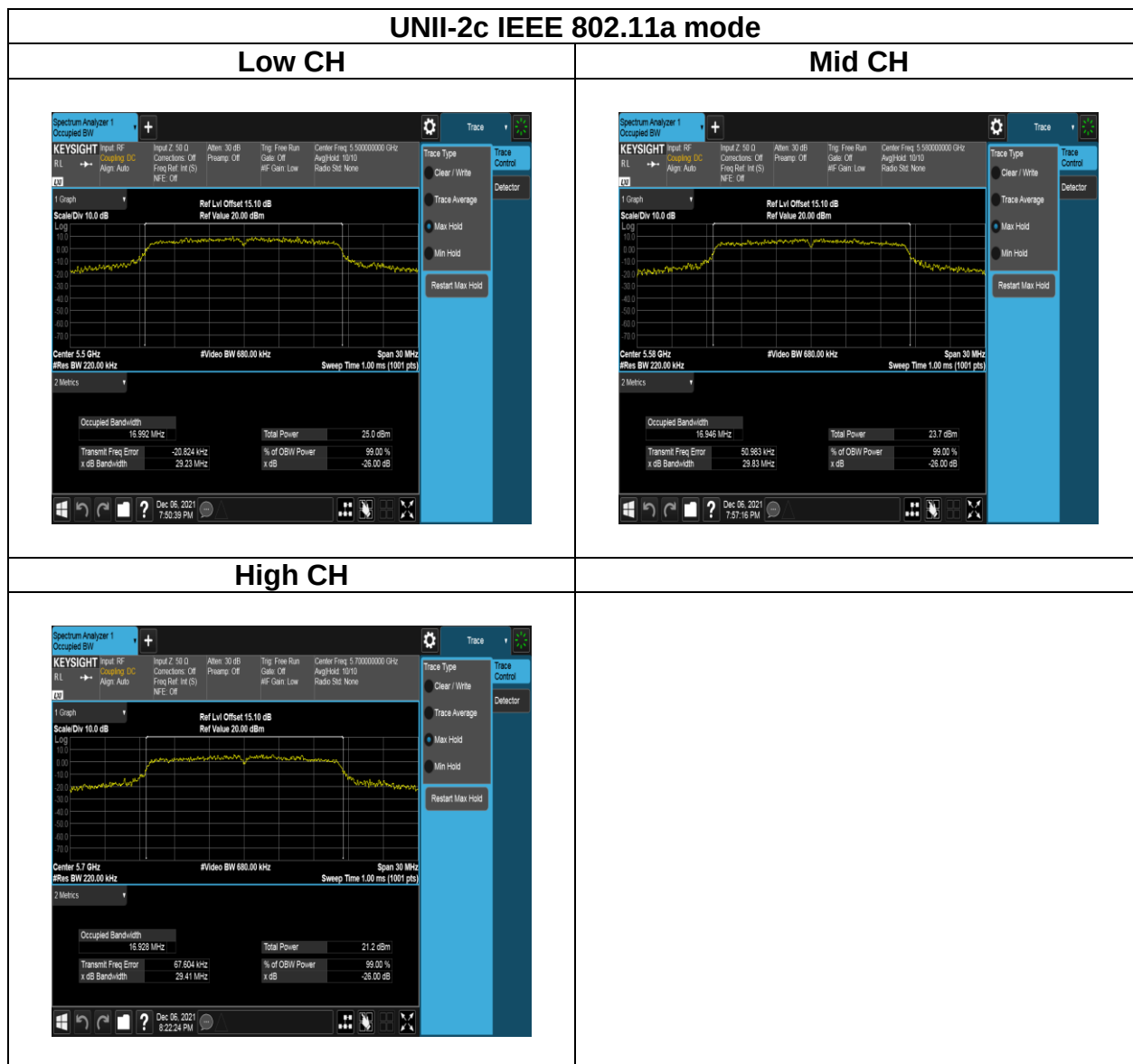


High CH



Report No.: T210730W08-RP4

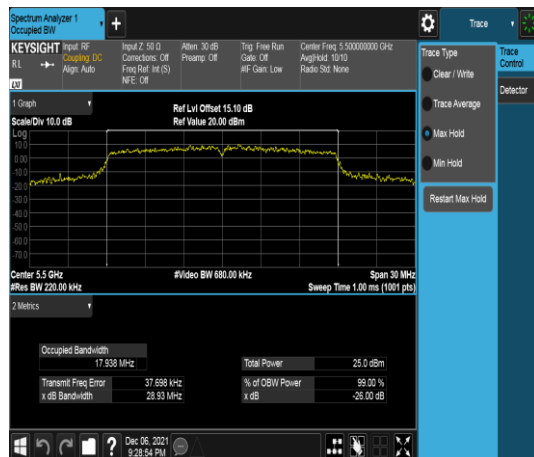
Test Data (26dB BANDWIDTH)



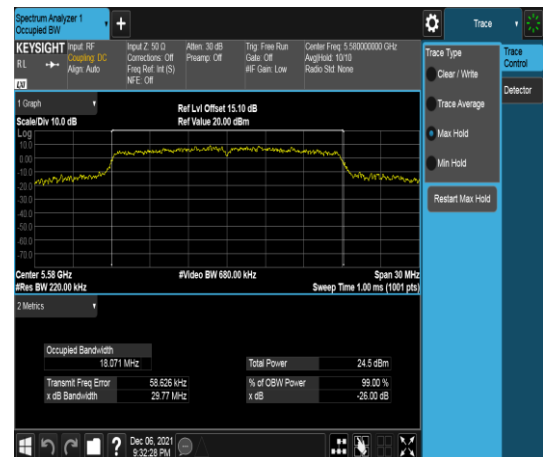
Report No.: T210730W08-RP4

UNII-2c IEEE 802.11n HT20 mode

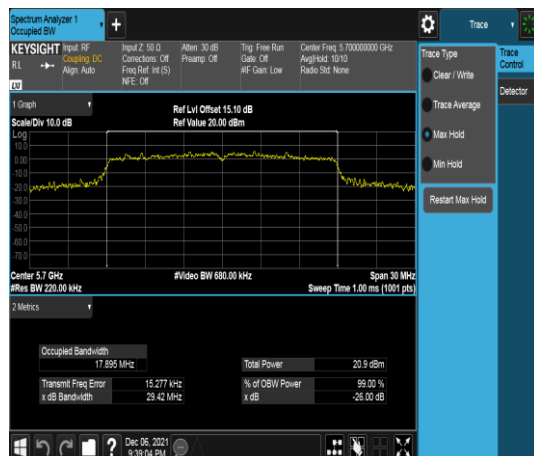
Low CH



Mid CH

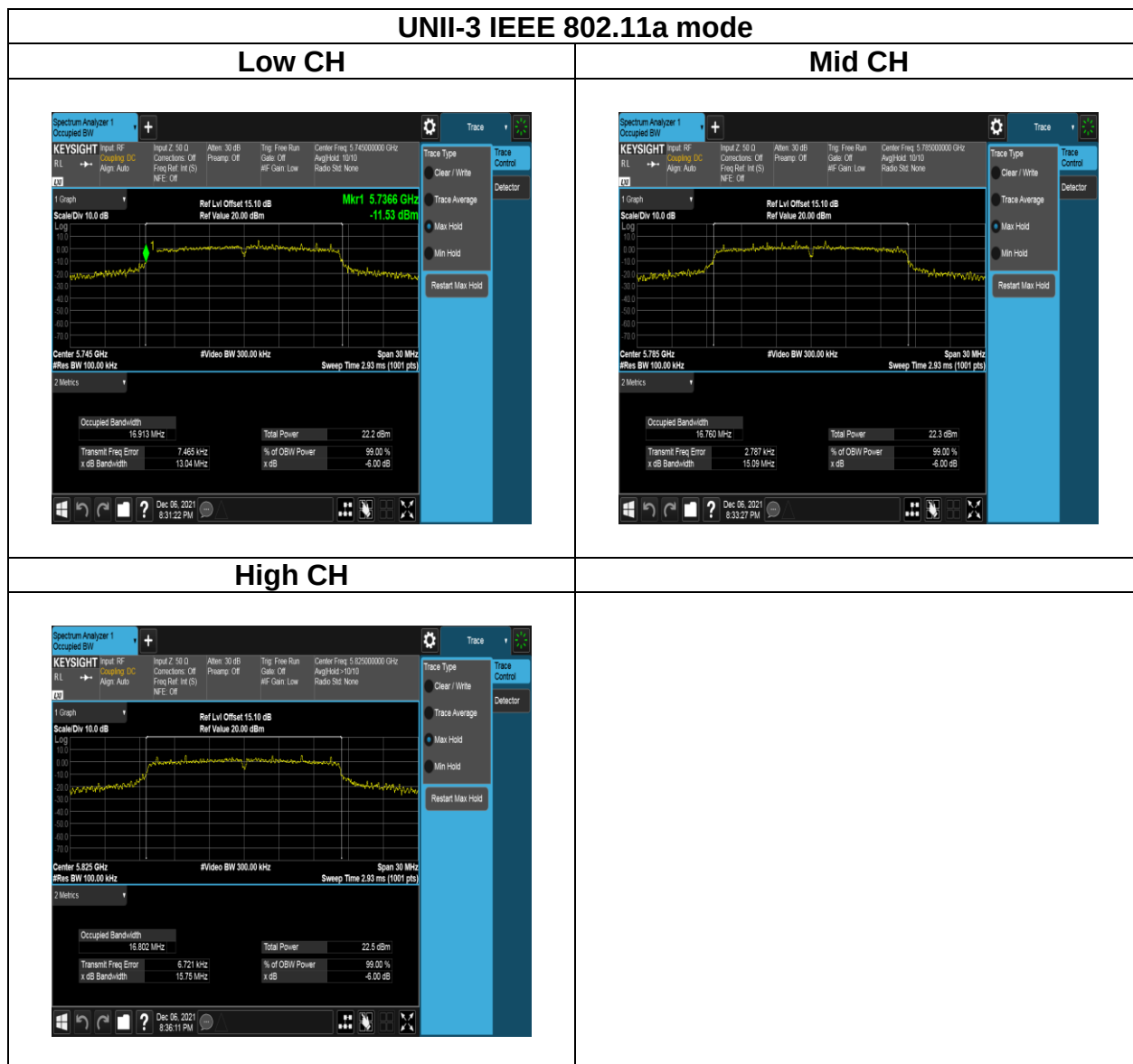


High CH



Report No.: T210730W08-RP4

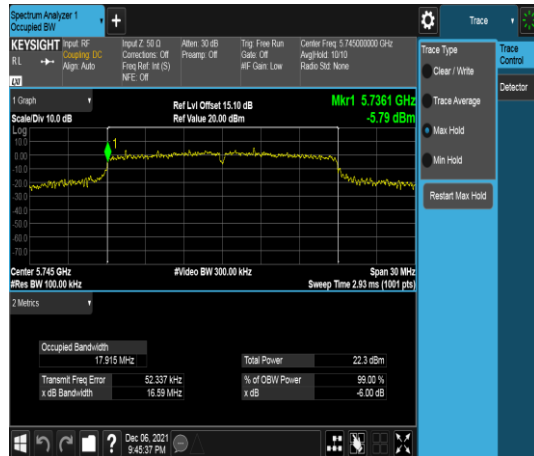
Test Data (6dB BANDWIDTH)



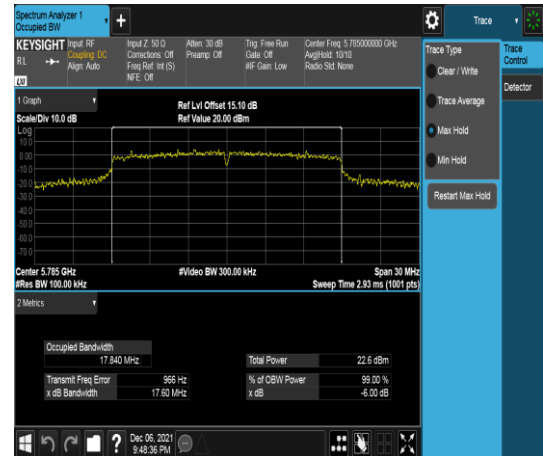
Report No.: T210730W08-RP4

UNII-3 IEEE 802.11n HT20 mode

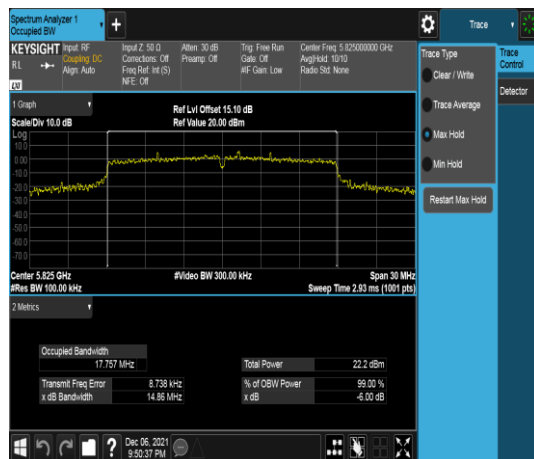
Low CH



Mid CH



High CH



4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3), and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

FCC:

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm), provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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 6 dBi.

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IC:

UNII-1 :

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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 6 dBi.

UNII-1 Limit	☒ Antenna not exceed 6 dBi : 24dBm ☒ 200mW or $10 + 10 \log_{10} B$ for IC ☐ Antenna with DG greater than 6 dBi : [Limit = $24 - (DG - 6)$]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = $24 - (DG - 6)$]
UNII-3 Limit	☐ Antenna not exceed 6 dBi : 30dBm ☒ Antenna with DG greater than 6 dBi : [Limit = $30 - (DG - 6)$]

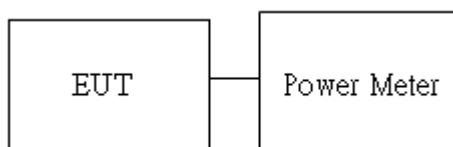
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz and 40MHz, E.2.b for BW 80MHz.

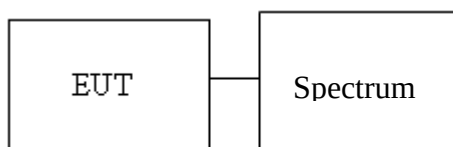
1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz



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4.3.4 Test Result

Temperature: 20.8°C

Humidity: 60% RH

Tested by: Lance Chen

Test date: December 6, 2021

FCC AVG Power :**802.11a_Ch0**

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19	18.50	70.808	23.98	PASS
44	5220	6	19.5	18.89	77.461	23.98	PASS
48	5240	6	19.5	19.20	83.193	23.98	PASS
52	5260	6	20	19.59	91.009	23.98	PASS
60	5300	6	20	19.45	88.122	23.98	PASS
64	5320	6	19.5	19.14	82.051	23.98	PASS
100	5500	6	18	17.36	54.461	23.98	PASS
116	5580	6	19	18.45	69.998	23.98	PASS
140	5700	6	17	16.36	43.260	23.98	PASS
149	5745	6	17.5	16.37	43.360	30	PASS
157	5785	6	18	16.76	47.433	30	PASS
165	5825	6	18	16.72	46.999	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	19.5	19.48	88.683	23.98	PASS
44	5220	MCS0	19.5	19.36	86.267	23.98	PASS
48	5240	MCS0	20	19.30	85.083	23.98	PASS
52	5260	MCS0	20	19.54	89.917	23.98	PASS
60	5300	MCS0	20	19.53	89.710	23.98	PASS
64	5320	MCS0	20	19.85	96.570	23.98	PASS
100	5500	MCS0	18	17.35	54.305	23.98	PASS
116	5580	MCS0	19.5	19.09	81.067	23.98	PASS
140	5700	MCS0	17	16.27	42.349	23.98	PASS
149	5745	MCS0	16	15.40	34.661	30	PASS
157	5785	MCS0	18	16.66	46.328	30	PASS
165	5825	MCS0	18	16.72	46.972	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	19.5	19.00	79.429	23.98	PASS
44	5220	MCS0	19.5	19.10	81.279	23.98	PASS
48	5240	MCS0	20	19.24	83.941	23.98	PASS
52	5260	MCS0	20	19.51	89.326	23.98	PASS
60	5300	MCS0	20	19.24	83.941	23.98	PASS
64	5320	MCS0	20	18.84	76.556	23.98	PASS
100	5500	MCS0	18	17.17	52.117	23.98	PASS
116	5580	MCS0	19.5	18.66	73.447	23.98	PASS
140	5700	MCS0	17	15.66	36.811	23.98	PASS
149	5745	MCS0	16	14.13	25.881	30	PASS
157	5785	MCS0	18	16.38	43.449	30	PASS
165	5825	MCS0	18	16.10	40.736	30	PASS

Report No.: T210730W08-RP4

IC AVG Power:**802.11a_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	18.50	70.808	23.22	PASS
44	5220	18.89	77.461	23.22	PASS
48	5240	19.20	83.193	23.23	PASS
52	5260	19.59	91.009	23.31	PASS
60	5300	19.45	88.122	23.28	PASS
64	5320	19.14	82.051	23.28	PASS
100	5500	17.36	54.461	23.28	PASS
116	5580	18.45	69.998	23.27	PASS
140	5700	16.36	43.260	23.27	PASS
149	5745	16.37	43.360	30	PASS
157	5785	16.76	47.433	30	PASS
165	5825	16.72	46.999	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.48	88.683	23.49	PASS
44	5220	19.36	86.267	23.51	PASS
48	5240	19.30	85.083	23.51	PASS
52	5260	19.54	89.917	23.53	PASS
60	5300	19.53	89.710	23.55	PASS
64	5320	19.85	96.570	23.51	PASS
100	5500	17.35	54.305	23.52	PASS
116	5580	19.09	81.067	23.55	PASS
140	5700	16.27	42.349	23.52	PASS
149	5745	15.40	34.661	30	PASS
157	5785	16.66	46.328	30	PASS
165	5825	16.72	46.972	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.00	79.429	23.49	PASS
44	5220	19.10	81.279	23.51	PASS
48	5240	19.24	83.941	23.51	PASS
52	5260	19.51	89.326	23.53	PASS
60	5300	19.24	83.941	23.55	PASS
64	5320	18.84	76.556	23.51	PASS
100	5500	17.17	52.117	23.52	PASS
116	5580	18.66	73.447	23.55	PASS
140	5700	15.66	36.811	23.52	PASS
149	5745	14.13	25.881	30	PASS
157	5785	16.38	43.449	30	PASS
165	5825	16.10	40.736	30	PASS

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IC EIRP Power:**802.11a_Ch0**

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	18.50	0.17	18.67	73.621	22.22	PASS
44	5220	18.89	0.17	19.06	80.538	22.22	PASS
48	5240	19.20	0.17	19.37	86.497	22.23	PASS
52	5260	19.59	0.17	19.76	94.624	29.31	PASS
60	5300	19.45	0.17	19.62	91.622	29.28	PASS
64	5320	19.14	0.17	19.31	85.310	29.28	PASS
100	5500	17.36	0.91	18.27	67.143	29.28	PASS
116	5580	18.45	0.91	19.36	86.298	29.27	PASS
140	5700	16.36	0.91	17.27	53.333	29.27	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.48	0.17	19.65	92.257	22.49	PASS
44	5220	19.36	0.17	19.53	89.743	22.51	PASS
48	5240	19.30	0.17	19.47	88.512	22.51	PASS
52	5260	19.54	0.17	19.71	93.541	29.53	PASS
60	5300	19.53	0.17	19.70	93.325	29.55	PASS
64	5320	19.85	0.17	20.02	100.462	29.51	PASS
100	5500	17.35	0.91	18.26	66.988	29.52	PASS
116	5580	19.09	0.91	20.00	100.000	29.55	PASS
140	5700	16.27	0.91	17.18	52.240	29.52	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.00	0.17	19.17	82.604	22.49	PASS
44	5220	19.10	0.17	19.27	84.528	22.51	PASS
48	5240	19.24	0.17	19.41	87.297	22.51	PASS
52	5260	19.51	0.17	19.68	92.897	29.53	PASS
60	5300	19.24	0.17	19.41	87.297	29.55	PASS
64	5320	18.84	0.17	19.01	79.616	29.51	PASS
100	5500	17.17	0.91	18.08	64.269	29.52	PASS
116	5580	18.66	0.91	19.57	90.573	29.55	PASS
140	5700	15.66	0.91	16.57	45.394	29.52	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

According to RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

UNII-1:

FCC: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

IC: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

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 6 dBi.

UNII-2a and 2c:

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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 6 dBi.

UNII-1 Limit	☒ Antenna not exceed 6 dBi : 11 dBm/MHz ☒ Antenna not exceed 6 dBi : 10 dBm/MHz for IC ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2a Limit	☒ Antenna not exceed 6 dBi : 11 dBm/MHz ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2c Limit	☒ Antenna not exceed 6 dBi : 11 dBm/MHz ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-3 Limit	☐ Antenna not exceed 6 dBi : 30 dBm/500kHz ☒ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

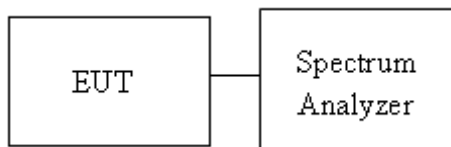
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4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1, UNII-2a and UNII-2c, SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 300kHz, VBW = 1MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 20.8°C**Humidity:** 60% RH**Tested by:** Lance Chen**Test date:** December 6, 2021

UNII-1 5150-5250 MHz					
POWER DENSITY 802.11a MODE					
Frequency (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	FCC Limit	Margin (dB)
5180	9.067	0.11	9.18	11.00 dBm/MHz	-1.82
5220	8.829	0.11	8.94	11.00 dBm/MHz	-2.06
5240	9.233	0.11	9.34	11.00 dBm/MHz	-1.66

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	FCC Limit	Margin (dB)
5180	9.080	0.12	9.20	11.00 dBm/MHz	-1.80
5220	9.469	0.12	9.59	11.00 dBm/MHz	-1.41
5240	9.108	0.12	9.23	11.00 dBm/MHz	-1.77

UNII-1 5150-5250 MHz					
EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	IC Limit (dBm/MHz)	Margin (dB)
5180	9.18	0.17	9.35	10	-0.65
5220	8.94	0.17	9.11	10	-0.89
5240	9.34	0.17	9.51	10	-0.49

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm/MHz)	Ant. Gain (dBi)	EIRP PSD (dBm/MHz)	IC Limit (dBm/MHz)	Margin (dB)
5180	9.20	0.17	9.37	10	-0.63
5220	9.59	0.17	9.76	10	-0.24
5240	9.23	0.17	9.40	10	-0.60

UNII-2a 5250-5350 MHz					
POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5260	9.483	0.11	9.59	11.00 dBm/MHz	-1.41
5300	8.987	0.11	9.10	11.00 dBm/MHz	-1.90
5320	9.233	0.11	9.34	11.00 dBm/MHz	-1.66

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5260	9.016	0.12	9.14	11.00 dBm/MHz	-1.86
5300	9.159	0.12	9.28	11.00 dBm/MHz	-1.72
5320	8.834	0.12	8.95	11.00 dBm/MHz	-2.05

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UNII-2c 5470-5725 MHz					
POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5500	9.276	0.11	9.39	11.00 dBm/MHz	-1.61
5580	8.295	0.11	8.41	11.00 dBm/MHz	-2.60
5700	5.784	0.11	5.89	11.00 dBm/MHz	-5.11

POWER DENSITY 802.11n HT20 MODE					
Frequency (MHz)	PPSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5500	9.164	0.12	9.28	11.00 dBm/MHz	-1.72
5580	8.367	0.12	8.49	11.00 dBm/MHz	-2.51
5700	5.642	0.12	5.76	11.00 dBm/MHz	-5.24

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UNII-3 5725-5825 MHz						
POWER DENSITY 802.11a MODE						
Frequency (MHz)	PPSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	2.031	0.11	2.22	4.36	30.00 dBm/500kHz	-25.64
5785	1.823	0.11	2.22	4.15	30.00 dBm/500kHz	-25.85
5825	2.178	0.11	2.22	4.51	30.00 dBm/500kHz	-25.49

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	1.394	0.12	2.22	3.73	30.00 dBm/500kHz	-26.27
5785	1.503	0.12	2.22	3.84	30.00 dBm/500kHz	-26.16
5825	1.376	0.12	2.22	3.72	30.00 dBm/500kHz	-26.28

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Test Data

UNII-1 IEEE 802.11a mode

Low CH



Mid CH



High CH



UNII-1 IEEE 802.11n HT20 mode

Low CH



Mid CH



High CH



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Test Data

UNII-2a IEEE 802.11a mode

Low CH



Mid CH



High CH

