

Product Name: AX1800 High Gain Wireless USB Adapter	Report No: FCC022022-5392RF2
Product Model: Archer TX20UH	Security Classification: Open
Version: V1.1	Total Page:250

TIRT Testing Report



Prepared By:	Checked By:	Approved By:	A circular blue stamp with the text "TIRT Technology Service Co., Ltd" around the perimeter, "TIRT" in the center, and "Shenzhen" below it.
Stone Tang	Randy Lv	Daniel Chen	
Stone Tang	Randy Lv	Daniel chen	

FCC Radio Test Report

FCC ID: 2AXJ4TX20UH

This report concerns: Original Grant

Project No. : 022022-5392
Equipment : AX1800 High Gain Wireless USB Adapter
Brand Name : TP-Link
Test Model : Archer TX20UH
Series Model : N/A
Applicant : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Date of Test : 2022.07.01-2022.10.16
Issued Date : 2022.10.24
Report Version : V1.1
Test Sample : Engineering Sample No.: 20220713018157
Standard(s) : FCC CFR Title 47, Part 15, Subpart E
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

Add: 101,3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi
Street, Pingshan District, Shenzhen, China

TEL: +86-0755-27087573

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022022-5392RF2	V1.0	Original Report.	2022.10.19	Valid
FCC022022-5392RF2	V1.1	Revised comments of TCB.	2022.10.24	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a) 15.407(e)	Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	-----	PASS	NOTE (5)
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (4) For UNII-1 this device was functioned as a
 - ☐ Outdoor access point device
 - ☐ Indoor access point device
 - ☐ Fixed point-to-point access points device
 - ☒ Client device
- (5) The item is declared by the manufacturer.

1.1 TEST LOCATION

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101,3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
Telephone:	+86-0755-27087573

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))
The TIRT measurement uncertainty as below table:

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	±142.12 KHz
RF power conducted	±0.74 dB
RF power radiated	±3.25dB
Spurious emissions, conducted	±1.78dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (1GHz ~ 18GHz)	±4.9dB
Conduction Emissions(150kHz~30MHz)	±3.1 dB
Humidity	±4.6%
Temperature	±0.7°C
Time	±1.25%

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24.4°C	56%	5V DC	Stone Tang
Radiated Emissions-9kHz to 30MHz	24.6°C	55%	5V DC	Stone Tang
Radiated Emissions-30MHz to 1000MHz	24.6°C	55%	5V DC	Stone Tang
Radiated Emissions-Above 1000 MHz	24.6°C	55%	5V DC	Stone Tang
Bandwidth	24.2°C	54%	5V DC	Stone Tang
Maximum Output Power	24.2°C	54%	5V DC	Stone Tang
Power Spectral Density	24.2°C	54%	5V DC	Stone Tang
Frequency Stability	Normal & Extreme	55%	Normal & Extreme	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 High Gain Wireless USB Adapter
Brand Name	TP-Link
Test Model	Archer TX20UH
Series Model	N/A
Model Difference(s)	N/A
Software Version	V1.0
Hardware Version	V1.0
Power Source	Supplied from PC USB port.
Power Rating	DC 5V
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps IEEE 802.11ax: up to 1201 Mbps
Maximum Output Power UNII-1 CDD	IEEE 802.11ac(VHT40): 14.77 dBm (0.0300 W)
Maximum Output Power UNII-2A CDD	IEEE 802.11ac(VHT20): 14.72 dBm (0.0296 W)
Maximum Output Power UNII-2C CDD	IEEE 802.11ac(VHT40): 15.46 dBm (0.0352 W)
Maximum Output Power UNII-3 CDD	IEEE 802.11ac(VHT20): 15.60 dBm (0.0363 W)

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tp-link	P/N	PCB	N/A	2
2	Tp-link	P/N	PCB	N/A	2

Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=2.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 2 + 10\log(2/1)\text{dBi} = 5.01$.
- 2) The antenna gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For CDD:

Operating Mode	TX Mode	2TX
IEEE 802.11a		V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT80)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ax(HE80)		V (Ant. 1 + Ant. 2)

2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 5	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 6	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 7	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 8	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 9	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 10	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 11	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 12	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 14	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 15	TX A Mode Channel 100/116/140/144 (UNII-2C)
Mode 16	TX AC(VHT20) Mode Channel 100/116/140/144 (UNII-2C)
Mode 17	TX AC(VHT40) Mode Channel 102/110/134/142 (UNII-2C)
Mode 18	TX AC(VHT80) Mode Channel 106/122/138 (UNII-2C)
Mode 19	TX AX(HE20) Mode Channel 100/116/140/144 (UNII-2C)
Mode 20	TX AX(HE40) Mode Channel 102/110/134/142 (UNII-2C)
Mode 21	TX AX(HE80) Mode Channel 106/122/138 (UNII-2C)
Mode 22	TX A Mode Channel 149/157/165 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)
Mode 29	TX AC(VHT20) Mode Channel 149 (UNII-3)

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 29	TX AC(VHT20) Mode Channel 149 (UNII-3)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 29	TX AC(VHT20) Mode Channel 149 (UNII-3)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40 (UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40 (UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 5	TX AX(HE20) Mode Channel 36/40 (UNII-1)
Mode 6	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 7	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 8	TX A Mode Channel 60/64 (UNII-2A)
Mode 9	TX AC(VHT20) Mode Channel 60/64 (UNII-2A)
Mode 10	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 11	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 12	TX AX(HE20) Mode Channel 60/64 (UNII-2A)
Mode 13	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 14	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 15	TX A Mode Channel 100/140 (UNII-2C)
Mode 16	TX AC(VHT20) Mode Channel 100/140 (UNII-2C)
Mode 17	TX AC(VHT40) Mode Channel 102/134 (UNII-2C)
Mode 18	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 19	TX AX(HE20) Mode Channel 100/140 (UNII-2C)
Mode 20	TX AX(HE40) Mode Channel 102/134 (UNII-2C)
Mode 21	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 22	TX A Mode Channel 149/165 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 5	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 6	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 7	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 8	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 9	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 10	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 11	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 12	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 14	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 15	TX A Mode Channel 100/116/140/144 (UNII-2C)
Mode 16	TX AC(VHT20) Mode Channel 100/116/140/144 (UNII-2C)
Mode 17	TX AC(VHT40) Mode Channel 102/110/134/142 (UNII-2C)
Mode 18	TX AC(VHT80) Mode Channel 106/122/138 (UNII-2C)
Mode 19	TX AX(HE20) Mode Channel 100/116/140/144 (UNII-2C)
Mode 20	TX AX(HE40) Mode Channel 102/110/134/142 (UNII-2C)
Mode 21	TX AX(HE80) Mode Channel 106/122/138 (UNII-2C)
Mode 22	TX A Mode Channel 149/157/165 (UNII-3)
Mode 23	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 24	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 25	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 26	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 27	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 28	TX AX(HE80) Mode Channel 155 (UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT20) Mode Channel 149 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (4) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- (5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.
- (6) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.
- (7) For above1G, the worst results were found when the antenna(Ant 0+1) opened at 90° and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

CDD

UNII-1			
Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	12.5/12	12.5/12	12.5/12
IEEE 802.11ac(VHT20)	12.5/13.5	12.5/13.5	12.5/13.5
IEEE 802.11ax(HE20)	13/12.5	13/12.5	13/12.5
Frequency (MHz)	5190	5230	
IEEE 802.11ac(VHT40)	13.5/14.5	14.5/14.5	
IEEE 802.11ax(HE40)	13/13	13/13	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	13/13		
IEEE 802.11ax(HE80)	13/13		

UNII-2A

Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	12/11.5	12/11.5	12/11.5
IEEE 802.11ac(VHT20)	12.5/13	12.5/13	12.5/13
IEEE 802.11ax(HE20)	13/12	13/12	13/12
Frequency (MHz)	5270	5310	
IEEE 802.11ac(VHT40)	14/14	14/14	
IEEE 802.11ax(HE40)	13/12.25	13/12.25	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	13/13		
IEEE 802.11ax(HE80)	13/12.5		

UNII-2C				
Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1			
Frequency (MHz)	5500	5580	5700	5720
IEEE 802.11a	12/11.5	12/11.5	12/11.5	12.25
IEEE 802.11ac(VHT20)	12/13	12.5/13	12.5/13	12
IEEE 802.11ax(HE20)	13/12	13/12	13/12	12.5
Frequency (MHz)	5510	5550	5670	5710
IEEE 802.11ac(VHT40)	14.5/14	14.5/14	14.5/14	12.25
IEEE 802.11ax(HE40)	13/12.25	13/12.25	13/12.5	12.5
Frequency (MHz)	5530	5690		
IEEE 802.11ac(VHT80)	13/13	13		
IEEE 802.11ax(HE80)	13/12.5	12.5		

UNII-3			
Test Software Version	RTL8852A_USB_MP_Package_ALPHA_v1.1.26-1		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	12/12	12.5/12	12.5/12.5
IEEE 802.11ac(VHT20)	12.5/13.5	12.5/13.75	13./14
IEEE 802.11ax(HE20)	13/12.5	13/12.5	13/13
Frequency (MHz)	5755	5795	
IEEE 802.11ac(VHT40)	14.5/14.5	15/15	
IEEE 802.11ax(HE40)	13/13	13/13	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	13/13		
IEEE 802.11ax(HE80)	13/13		

2.4 DUTY CYCLE

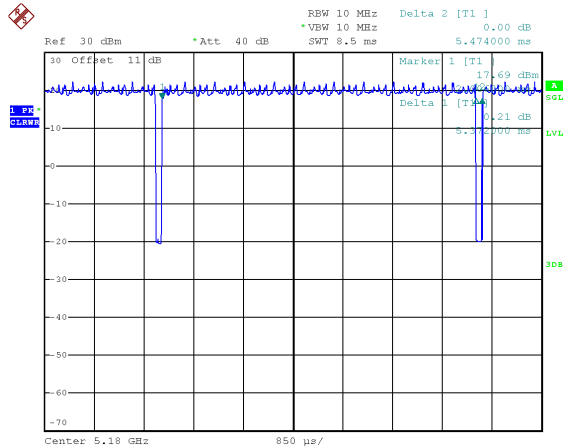
If duty cycle is $\geq 98\%$, duty factor is not required.

If duty cycle is $< 98\%$, duty factor shall be considered.

The output power = measured power + duty factor.

The power spectral density = measured power spectral density + duty factor.

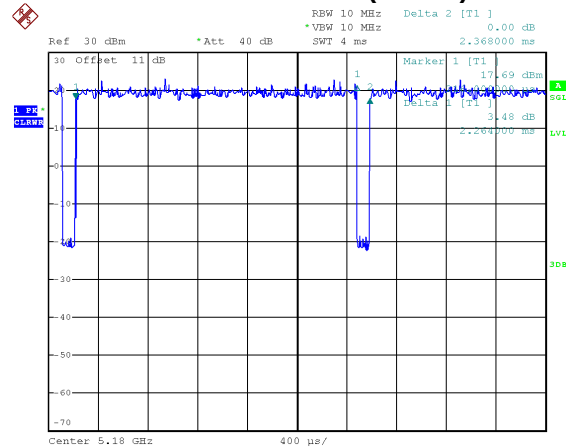
IEEE 802.11a



Date: 22.SEP.2022 10:30:48

Duty cycle = 5.372 ms / 5.474 ms = 98.14%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.00$

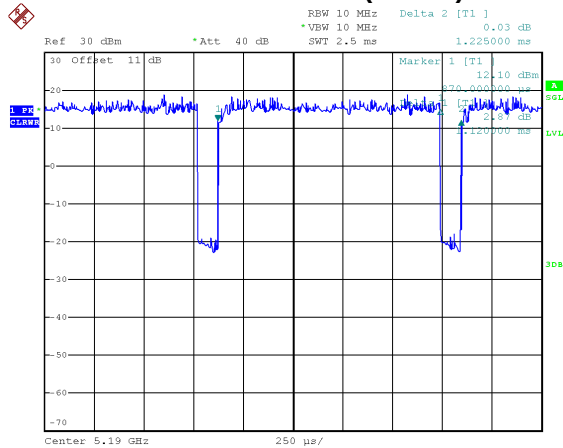
IEEE 802.11ac(VHT20)



Date: 22.SEP.2022 10:31:40

Duty cycle = 2.264 ms / 2.368 ms = 95.61%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.20$

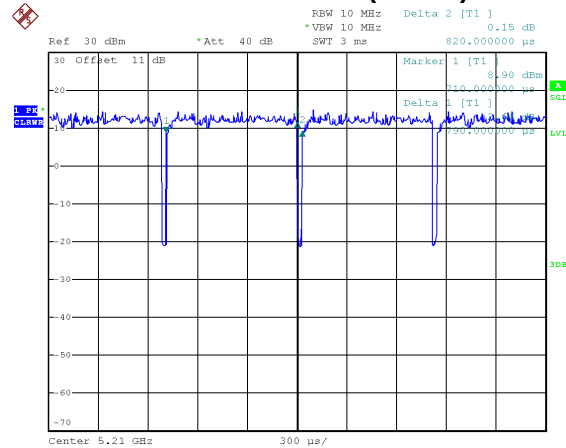
IEEE 802.11ac(VHT40)



Date: 22.SEP.2022 10:32:37

Duty cycle = 1.120 ms / 1.225 ms = 91.43%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.39$

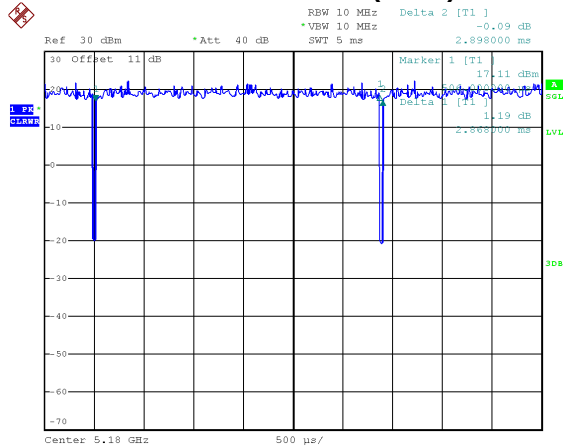
IEEE 802.11ac(VHT80)



Date: 22.SEP.2022 10:35:16

Duty cycle = 0.790 ms / 0.820 ms = 96.34%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.16$

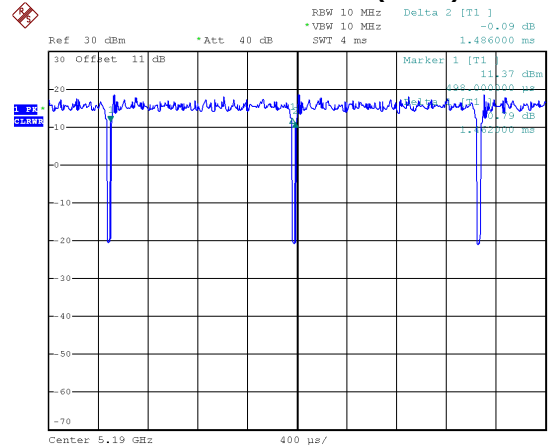
IEEE 802.11ax(HE20)



Date: 22.SEP.2022 10:41:32

Duty cycle = 2.868 ms / 2.898 ms = 98.96%
Duty Factor = 10 log(1 / Duty cycle) = 0.00

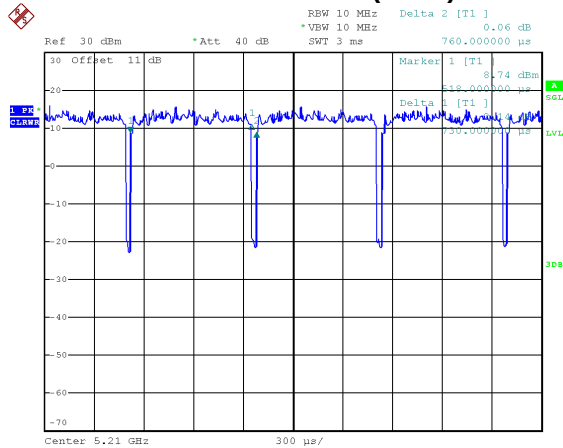
IEEE 802.11ax(HE40)



Date: 22.SEP.2022 10:43:06

Duty cycle = 1.462 ms / 1.486 ms = 98.38%
Duty Factor = 10 log(1 / Duty cycle) = 0.00

IEEE 802.11ax(HE80)



Date: 22.SEP.2022 10:37:06

Duty cycle = 0.730 ms / 0.760 ms = 96.05%
Duty Factor = 10 log(1 / Duty cycle) = 0.17

NOTE:

For IEEE 802.11a:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle $\geq 98\%$).

For IEEE 802.11ac(VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 442Hz (Duty cycle $< 98\%$).

For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 893Hz (Duty cycle $< 98\%$).

For IEEE 802.11ac(VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1266Hz (Duty cycle $< 98\%$).

For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle $\geq 98\%$).

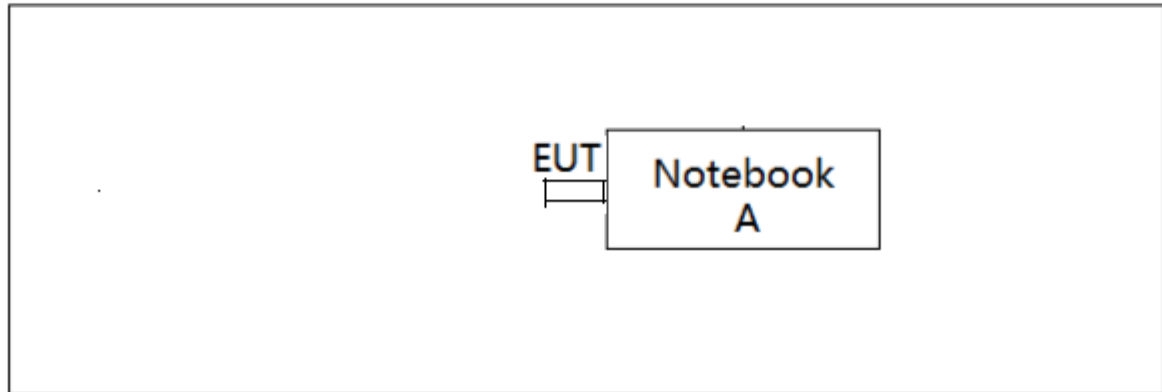
For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle $\geq 98\%$).

For IEEE 802.11ax(HE80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 13701Hz (Duty cycle $< 98\%$).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Support Equipment				
No.	Equipment	Brand Name	Model Name	Remarks
1	Control PC	Lenovo	L450	N/A
2	Record PC	Lenovo	510Pro-15ICK	N/A

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

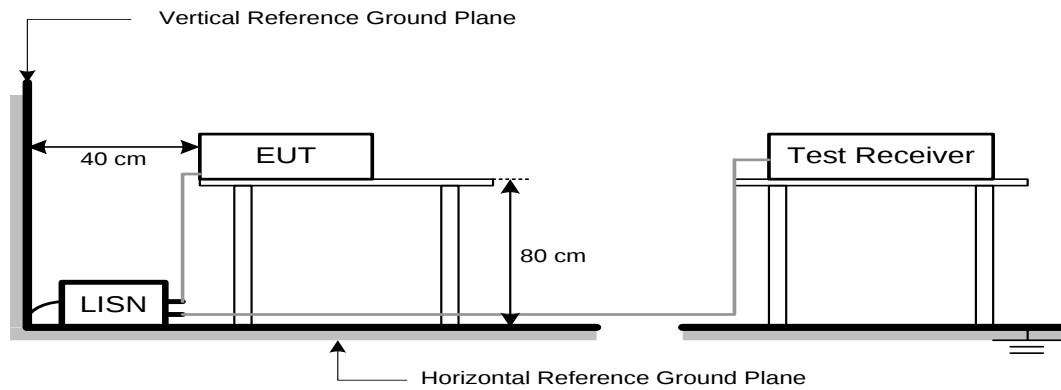
The following table is the setting of the receiver:

Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.2
5250-5350	-27	68.2
5470-5725	-27	68.2
5725-5850 NOTE (2)	-27	68.2
	10	105.2
	15.6	110.8
	27	122.2

NOTE:

- (1) The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

- (2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic or 40 GHz, whichever is lower
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

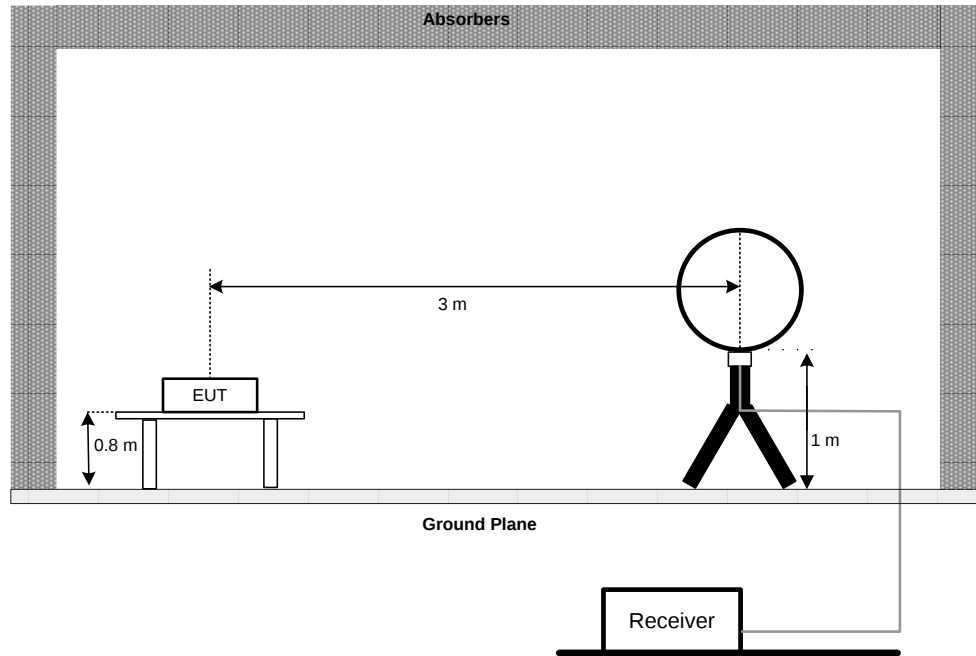
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~40 GHz for PK/AVG detector

4.3 DEVIATION FROM TEST STANDARD

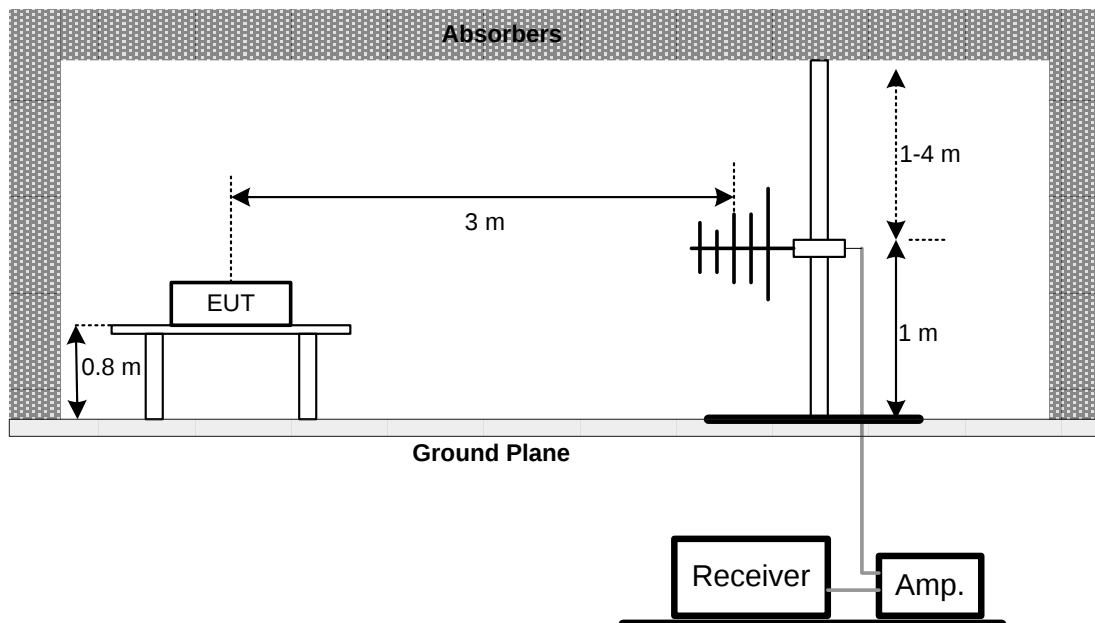
No deviation.

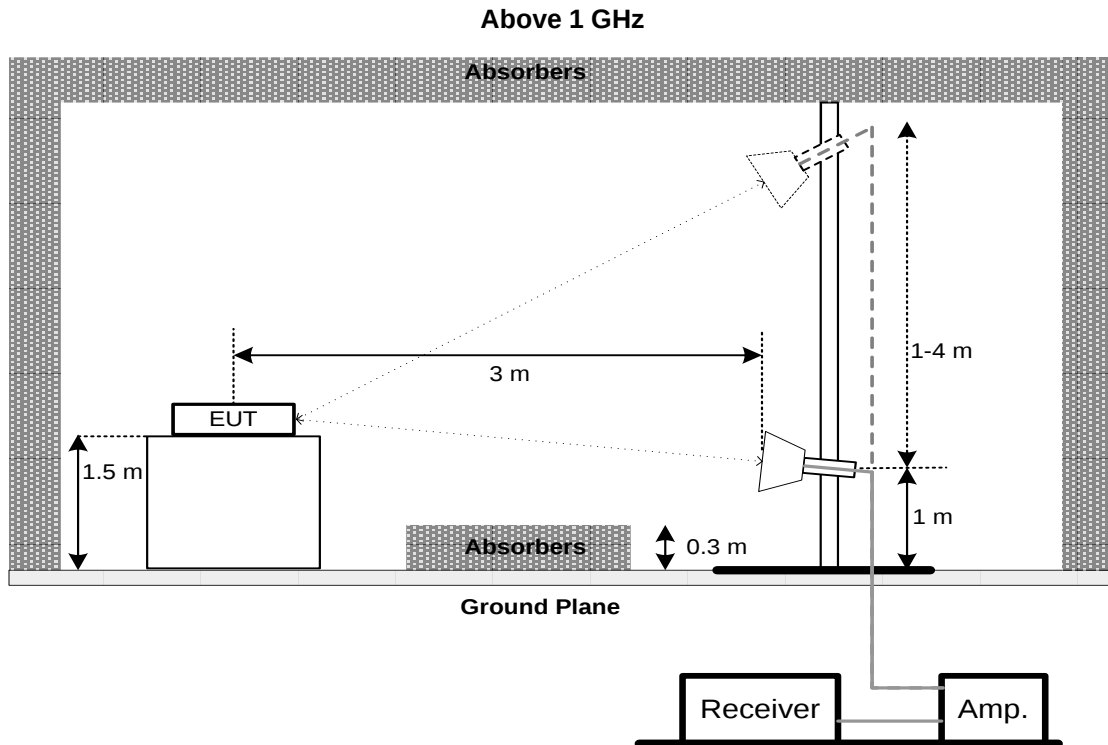
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH

5.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a) FCC 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. Spectrum Setting:
For UNII-1, UNII-2A, UNII-2C:

Spectrum Parameter	Setting
Span Frequency	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Occupied Bandwidth:

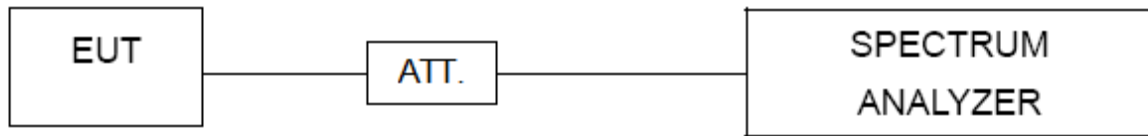
Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 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.
- b. 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 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.
- c. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

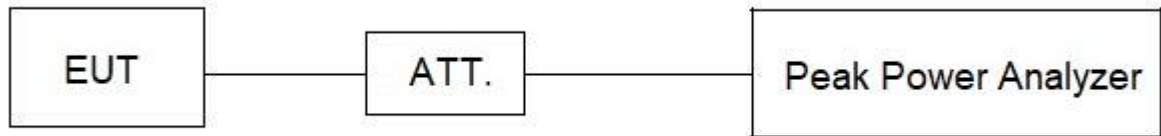
6.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

For UNII-1, UNII-2A, UNII-2C:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	1 MHz.
VBW	3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

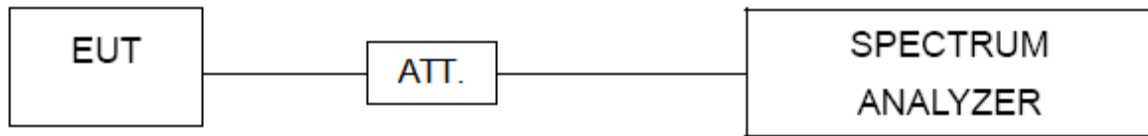
Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/100 \text{ kHz})$ to the measured result, i.e. 7 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 13 dB, and the final offset is $13 + 7 = 20 \text{ dB}$ when RBW=100kHz is used.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. MEASUREMENT INSTRUMENTS LIST

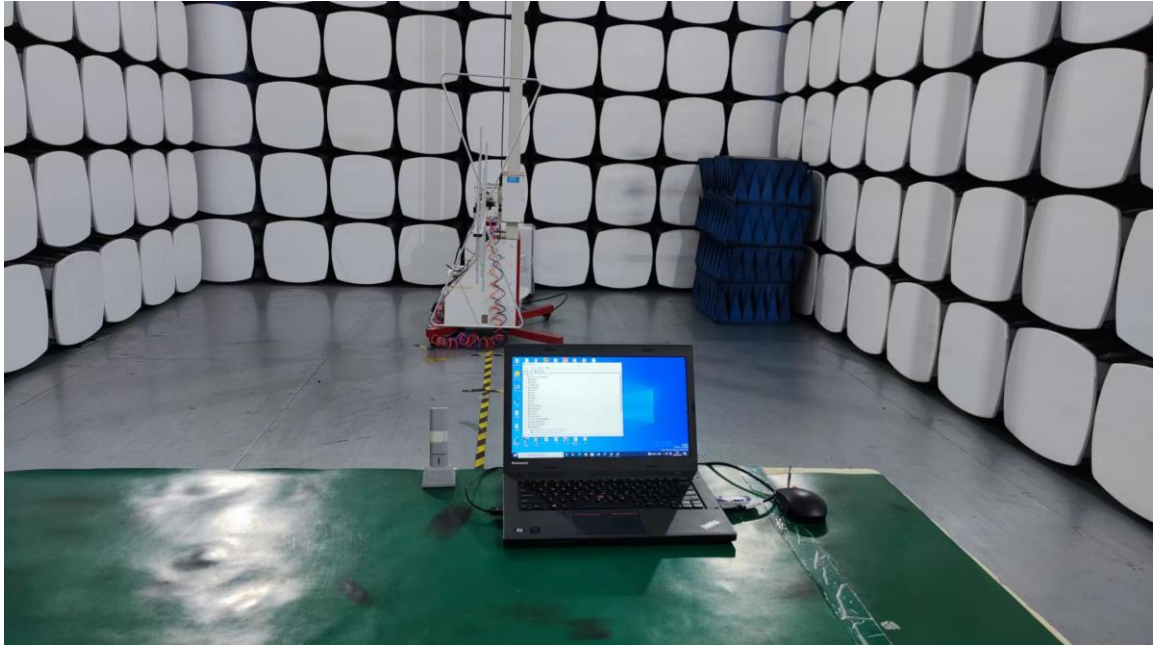
No.	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Receiver	Rohde&Schwarz	ESCI	1166.5950.03	2022/11/09
2	AMN	Rohde&Schwarz	ENV216	3560.6550.05	2022/11/09
3	AMN	Schwarzbeck	NSLK8127	#829	2022/11/09
4	ECSI RF IN RF Cable	Rohde&Schwarz	RP-X1	N/A	2022/11/09
5	ECSI RF IN RF Cable	Rohde&Schwarz	Sapre sm	N/A	2022/11/09
6	EMI Receiver	Rohde&Schwarz	ESR7	102013	2022/11/09
7	Spectrum analyzer	Rohde&Schwarz	FSV30	103741	2022/11/09
8	Spectrum analyzer	KEYSIGHT	N9010A-44	MY51440158	2022/11/09
9	Integral Antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/20
10	Integral Antenna	Schwarzbeck	BBHA 9120D	BBHA 9120D 1201	2022/11/20
11	Integral Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/20
12	Preamplifier	Schwarzbeck	BBV9745	#78	2022/11/09
13	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
14	Preamplifier	RF System/UK	TRLA-0101 80G50B	22062101	2023/07/20
15	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	N/A	2022/11/09
16	ECSI RF IN RF Cable	HAOXUN	Z-108	N/A	2022/11/09
17	RF Cable	ZDECL	ZT40-2.92J -2.92J-6M	18124358	2023/07/20
18	Spectrum Analyzer	Agilent	N9010A	MY51440158	2022/11/09
19	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
20	EMI Receiver	Rohde&Schwarz	ESU	100184	2023/07/20
21	Temp&Humidity Recorder	Anymetre	JR900	N/A	2022/11/03
22	Temp&Humidity Chamber	ETOMA	NTH1100-30A	16080628	2022/11/03
23	Filter	STI	STI15-984 5	N/A	N/A
24	Filter	STI	5.1G	N/A	N/A
25	Filter	STI	STI15-984 5	N/A	N/A
26	Testing Software	EZ-EMC	TW-03A2	N/A	N/A

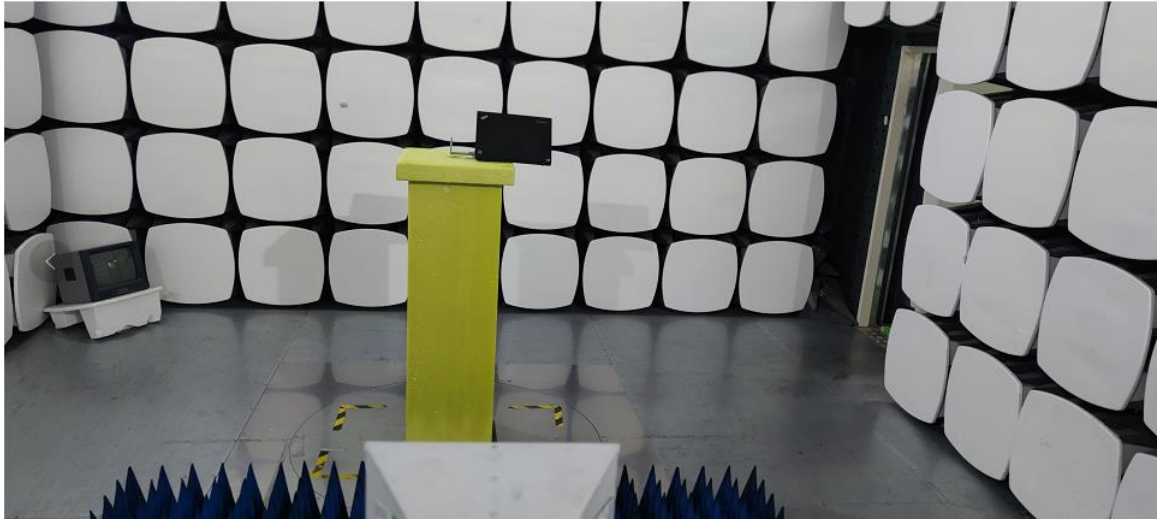
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"**" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.

9. EUT TEST PHOTOS**AC Power Line Conducted Emissions Test Photos**

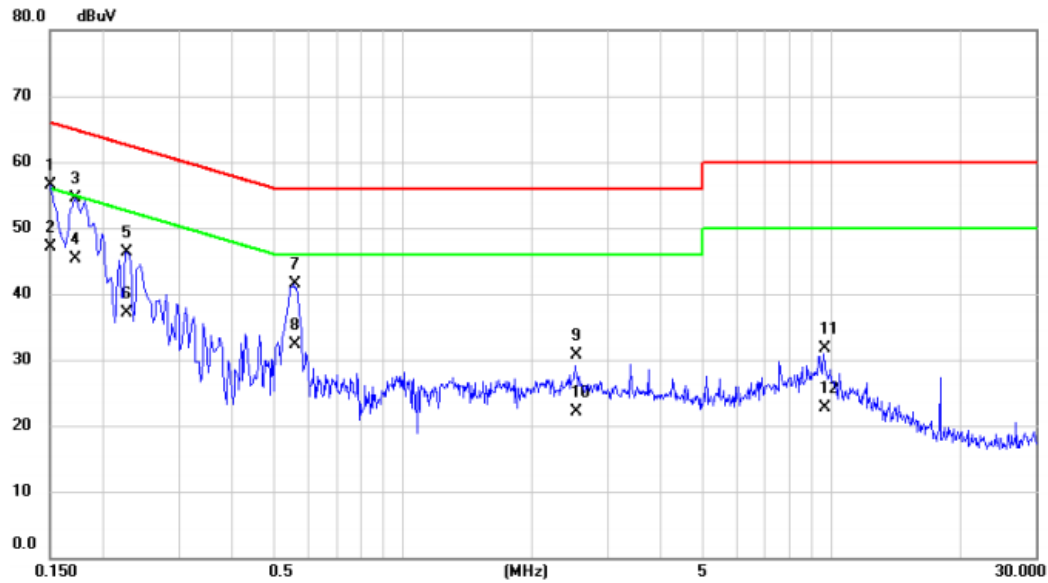
Radiated Emissions Test Photos**30 MHz to 1 GHz**

Radiated Emissions Test Photos**Above 1 GHz**

Conducted Test Photos

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT20) Mode Channel 149	Phase	Line
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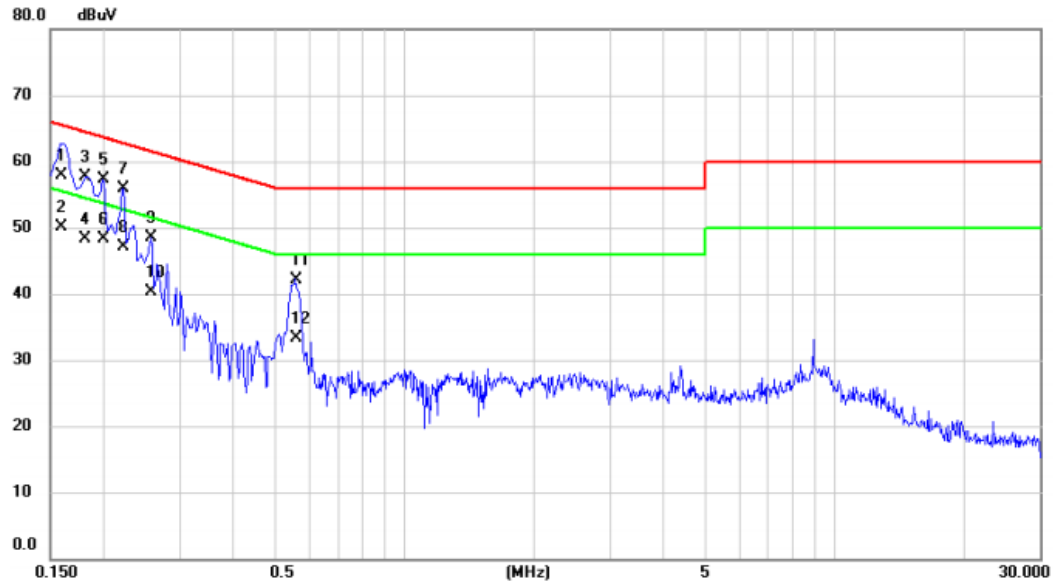


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1500	37.18	19.27	56.45	66.00	-9.55	QP	
2 *	0.1500	27.84	19.27	47.11	56.00	-8.89	AVG	
3	0.1725	35.15	19.31	54.46	64.84	-10.38	QP	
4	0.1725	25.95	19.31	45.26	54.84	-9.58	AVG	
5	0.2265	26.95	19.32	46.27	62.58	-16.31	QP	
6	0.2265	17.84	19.32	37.16	52.58	-15.42	AVG	
7	0.5595	22.07	19.36	41.43	56.00	-14.57	QP	
8	0.5595	12.92	19.36	32.28	46.00	-13.72	AVG	
9	2.5350	9.61	21.03	30.64	56.00	-25.36	QP	
10	2.5350	1.00	21.03	22.03	46.00	-23.97	AVG	
11	9.6315	10.91	20.76	31.67	60.00	-28.33	QP	
12	9.6315	1.91	20.76	22.67	50.00	-27.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

Test Mode	TX AC(VHT20) Mode Channel 149	Phase	Neutral
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1590	38.39	19.48	57.87	65.52	-7.65	QP	
2	0.1590	30.69	19.48	50.17	55.52	-5.35	AVG	
3	0.1815	38.16	19.48	57.64	64.42	-6.78	QP	
4	0.1815	28.73	19.48	48.21	54.42	-6.21	AVG	
5	0.1995	37.81	19.48	57.29	63.63	-6.34	QP	
6 *	0.1995	28.87	19.48	48.35	53.63	-5.28	AVG	
7	0.2220	36.37	19.48	55.85	62.74	-6.89	QP	
8	0.2220	27.72	19.48	47.20	52.74	-5.54	AVG	
9	0.2580	29.05	19.48	48.53	61.50	-12.97	QP	
10	0.2580	20.86	19.48	40.34	51.50	-11.16	AVG	
11	0.5595	22.62	19.58	42.20	56.00	-13.80	QP	
12	0.5595	13.73	19.58	33.31	46.00	-12.69	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.
- (3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

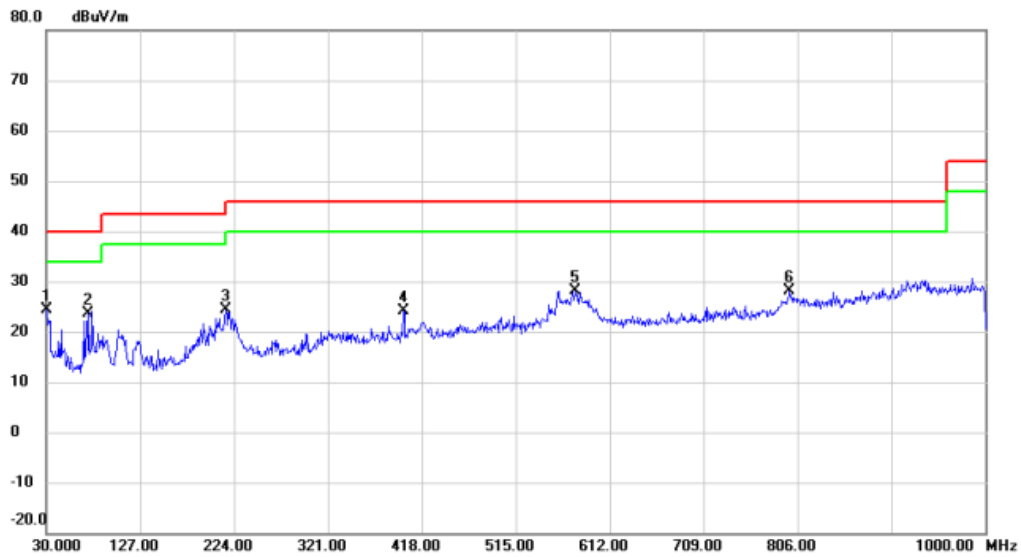
Radiated emission: 9KHz-30MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX AC(VHT20) Mode Channel 149	Polarization	Vertical
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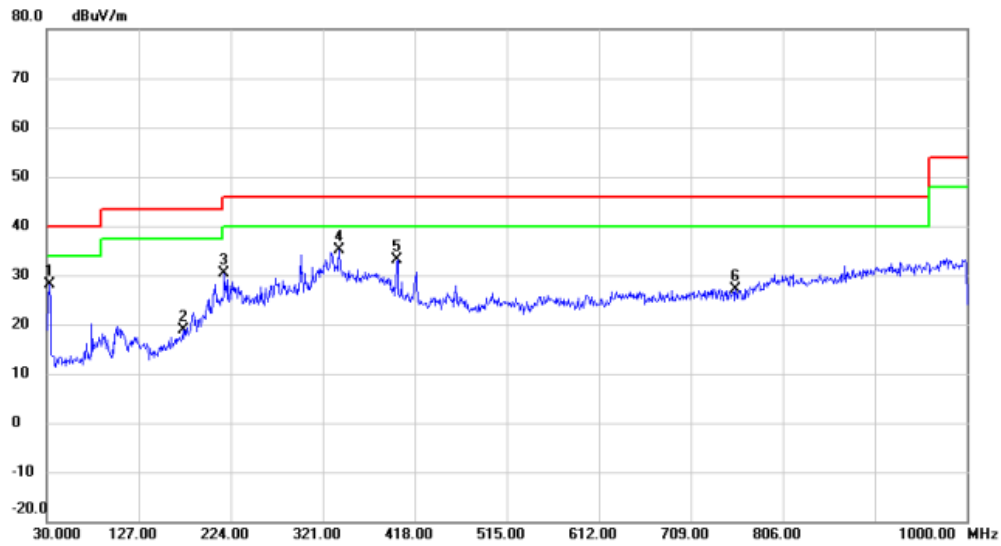


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	30.9700	10.14	14.25	24.39	40.00	-15.61	peak	
2		73.6500	9.04	14.71	23.75	40.00	-16.25	peak	
3		215.2700	8.45	15.83	24.28	43.50	-19.22	peak	
4		398.6000	4.99	19.22	24.21	46.00	-21.79	peak	
5		576.1100	6.09	22.05	28.14	46.00	-17.86	peak	
6		797.2700	1.40	26.70	28.10	46.00	-17.90	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX AC(VHT20) Mode Channel 149	Polarization	Horizontal
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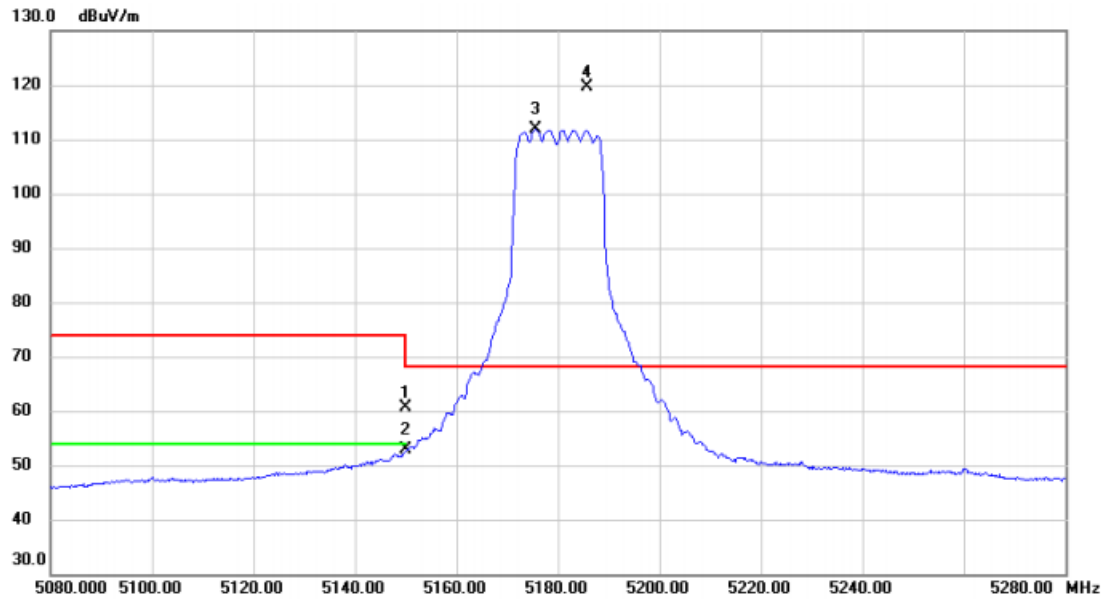
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	32.9100	16.91	11.32	28.23	40.00	-11.77	peak	
2	173.5600	4.78	14.06	18.84	43.50	-24.66	peak	
3	217.2100	14.56	15.85	30.41	46.00	-15.59	peak	
4 *	338.4600	16.61	18.55	35.16	46.00	-10.84	peak	
5	399.5700	13.80	19.23	33.03	46.00	-12.97	peak	
6	755.5600	1.93	25.11	27.04	46.00	-18.96	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical
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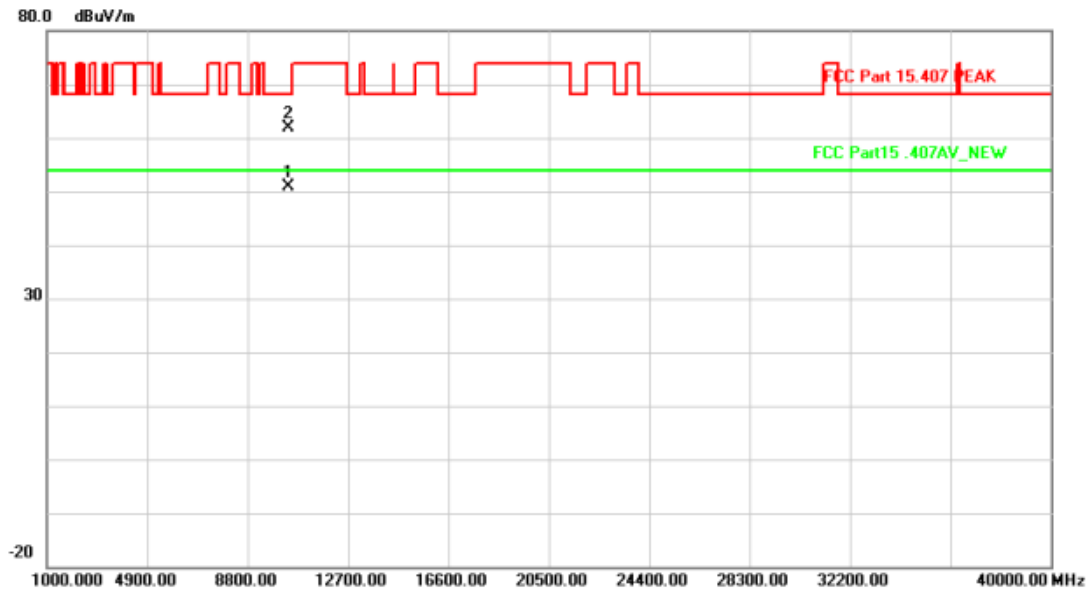
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	20.34	40.22	60.56	74.00	-13.44	peak	
2		5150.000	12.74	40.22	52.96	54.00	-1.04	AVG	
3	X	5175.600	71.52	40.27	111.79	68.20	43.59	AVG	No Limit
4	*	5185.600	79.31	40.29	119.60	68.20	51.40	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical
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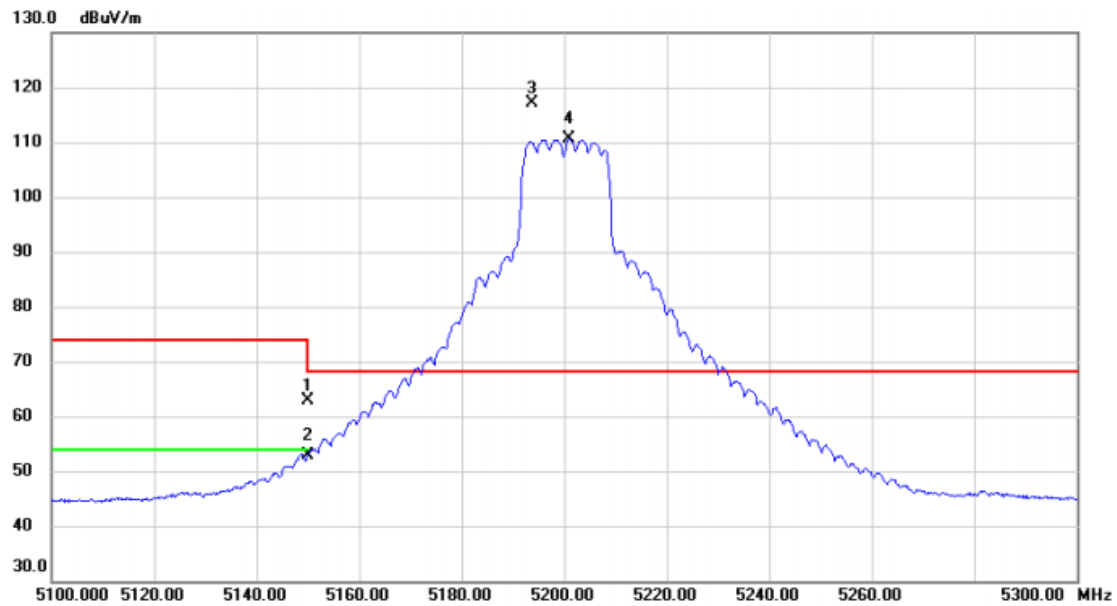


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10362.000	53.05	-2.12	50.93	54.00	-3.07	AVG	127	101
2		10362.200	64.04	-2.12	61.92	68.20	-6.28	peak	127	101

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
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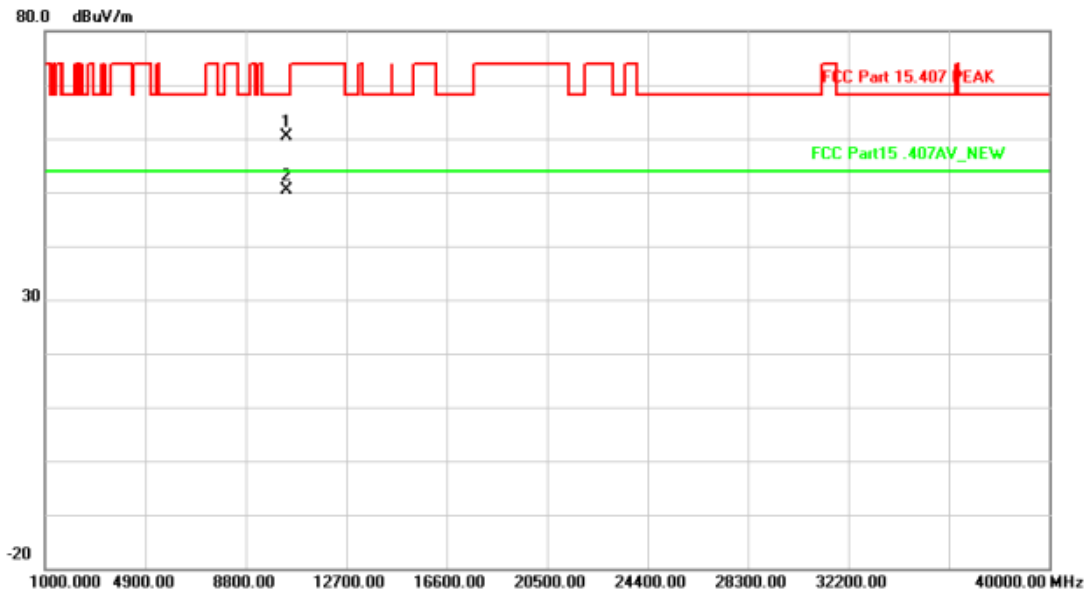


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	22.55	40.22	62.77	74.00	-11.23	peak	
2		5150.000	12.72	40.22	52.94	54.00	-1.06	AVG	
3	*	5193.600	76.83	40.31	117.14	68.20	48.94	peak	No Limit
4	X	5201.000	70.23	40.32	110.55	68.20	42.35	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
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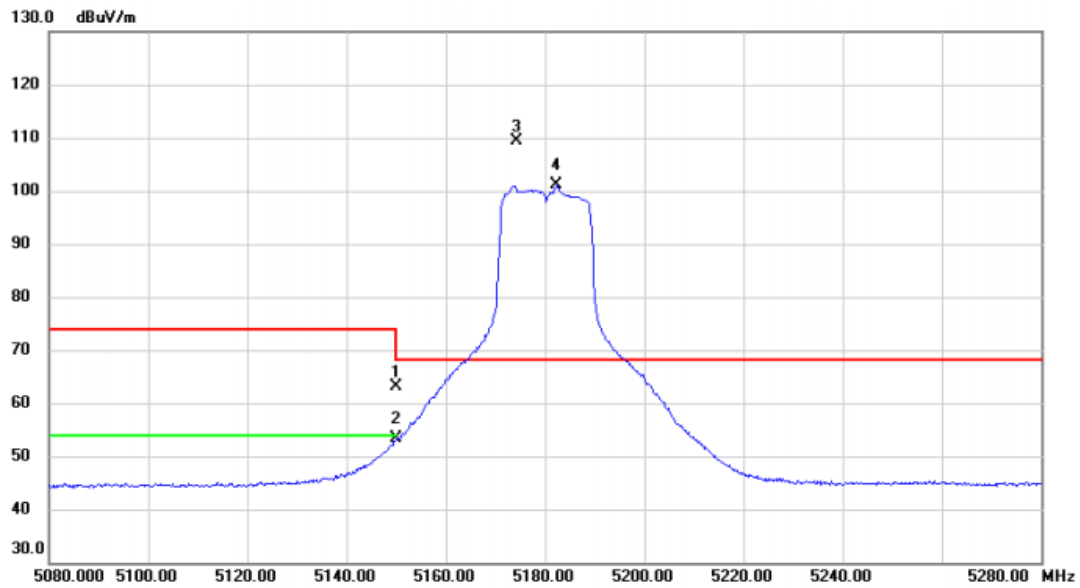


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10401.700	62.50	-2.05	60.45	68.20	-7.75	peak	127	101
2	*	10402.300	52.51	-2.05	50.46	54.00	-3.54	AVG	127	101

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical
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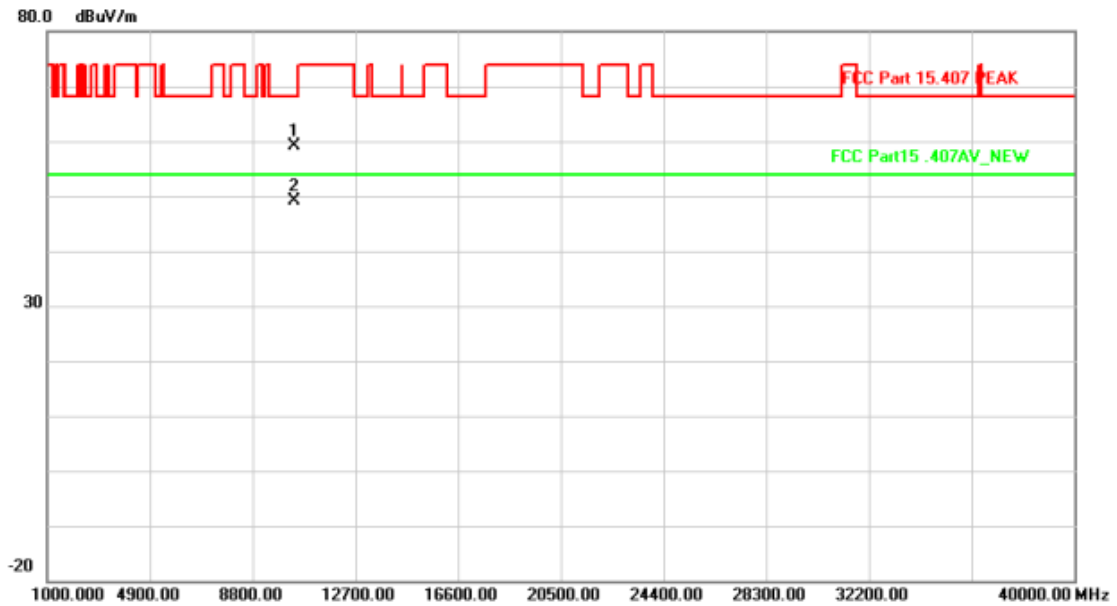


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	22.91	40.22	63.13	74.00	-10.87	peak	
2		5150.000	13.21	40.22	53.43	54.00	-0.57	AVG	
3	*	5174.200	69.12	40.26	109.38	68.20	41.18	peak	No Limit
4	X	5182.200	60.77	40.28	101.05	68.20	32.85	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical
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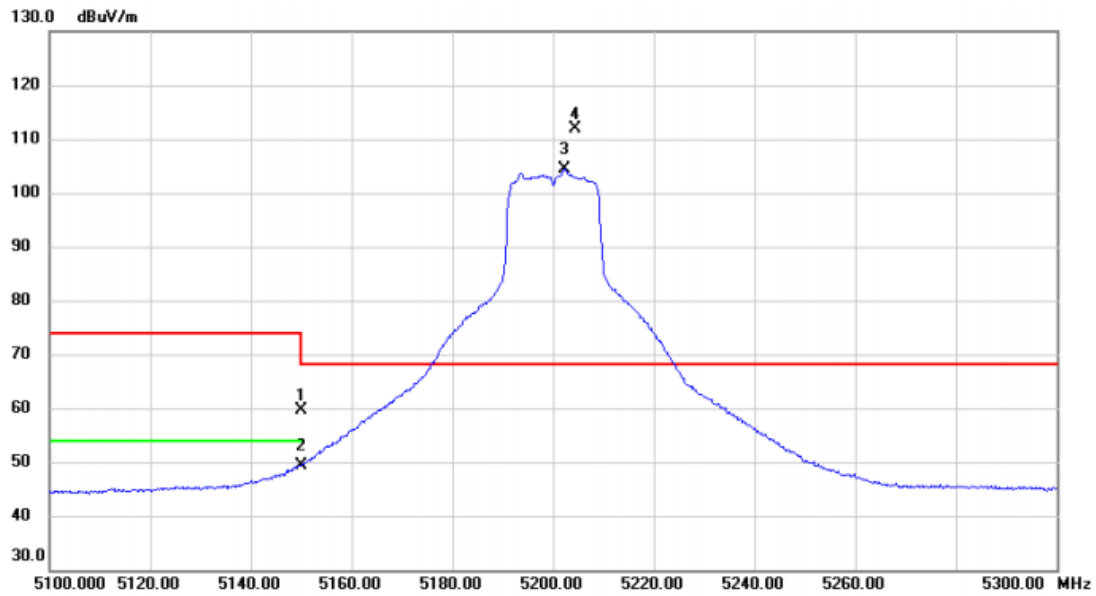


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		10361.060	61.15	-2.12	59.03	68.20	-9.17	peak	126	105
2 *		10361.200	51.13	-2.12	49.01	54.00	-4.99	AVG	126	105

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical
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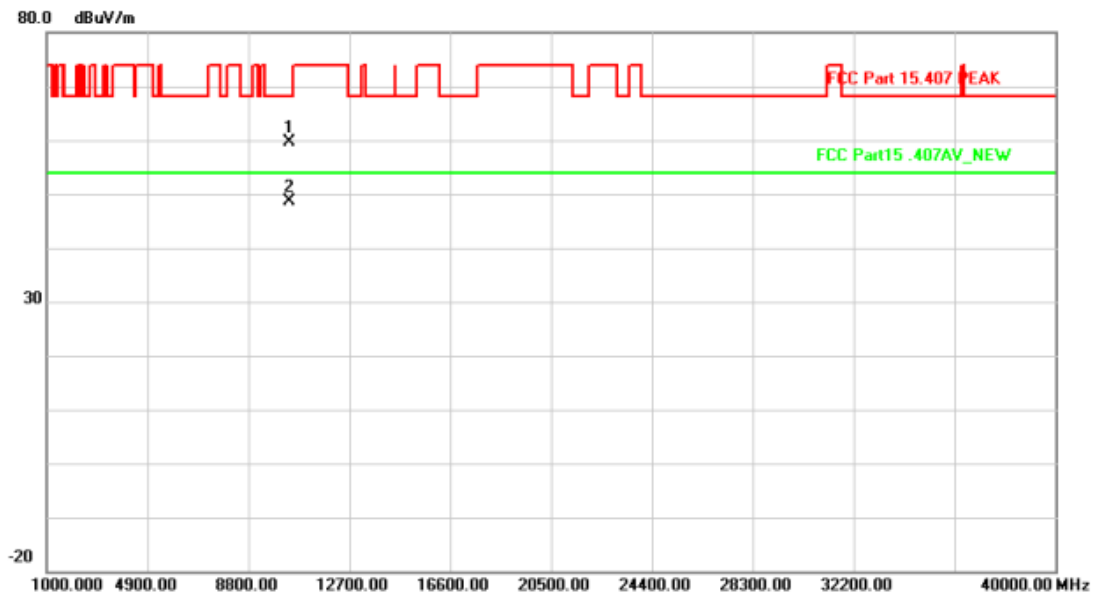


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	19.50	40.22	59.72	74.00	-14.28	peak	
2		5150.000	9.20	40.22	49.42	54.00	-4.58	AVG	
3	X	5202.200	64.13	40.32	104.45	68.20	36.25	AVG	No Limit
4	*	5204.400	71.52	40.32	111.84	68.20	43.64	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical
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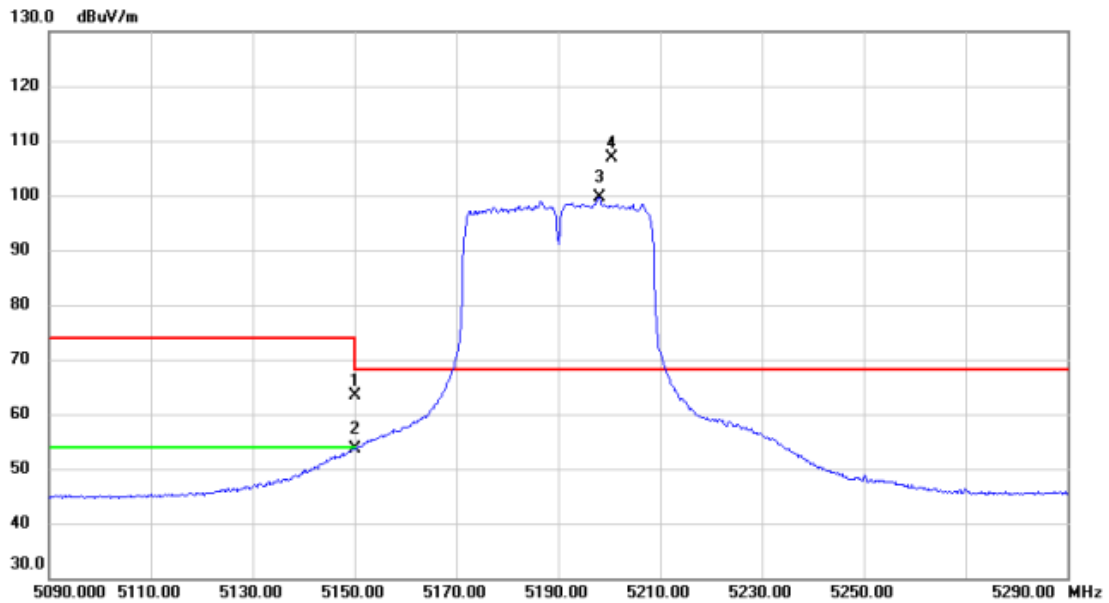


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10396.860	61.70	-2.06	59.64	68.20	-8.56	peak	126	105
2	*	10400.780	50.60	-2.05	48.55	54.00	-5.45	AVG	126	105

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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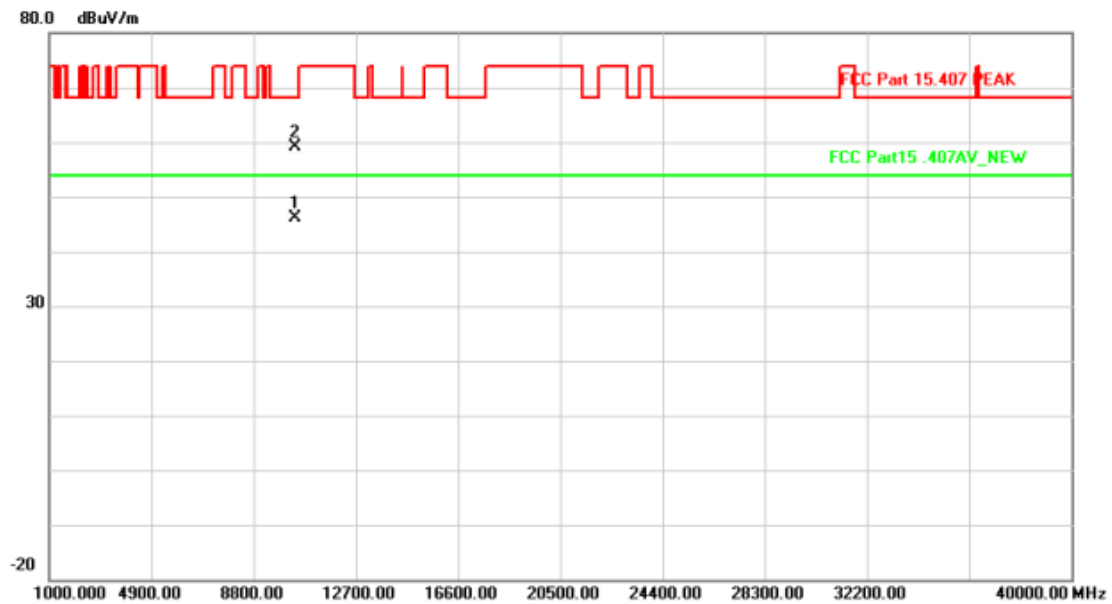


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	23.10	40.22	63.32	74.00	-10.68	peak	
2		5150.000	13.44	40.22	53.66	54.00	-0.34	AVG	
3	X	5198.000	59.31	40.31	99.62	68.20	31.42	AVG	No Limit
4	*	5200.600	66.65	40.31	106.96	68.20	38.76	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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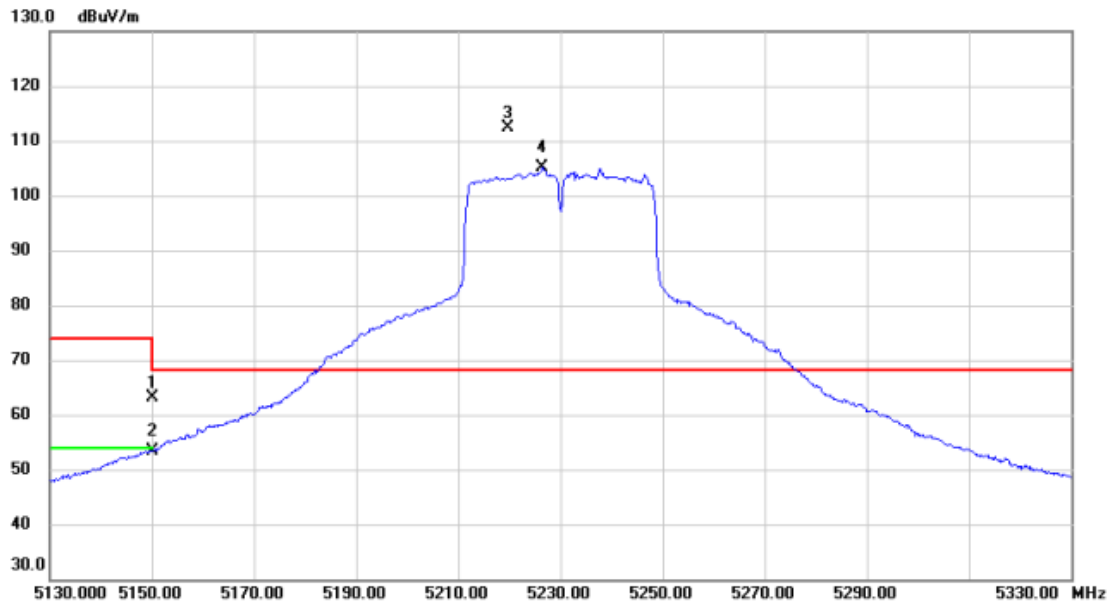


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10375.720	48.34	-2.09	46.25	54.00	-7.75	AVG	126	102
2		10376.820	61.12	-2.09	59.03	68.20	-9.17	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical
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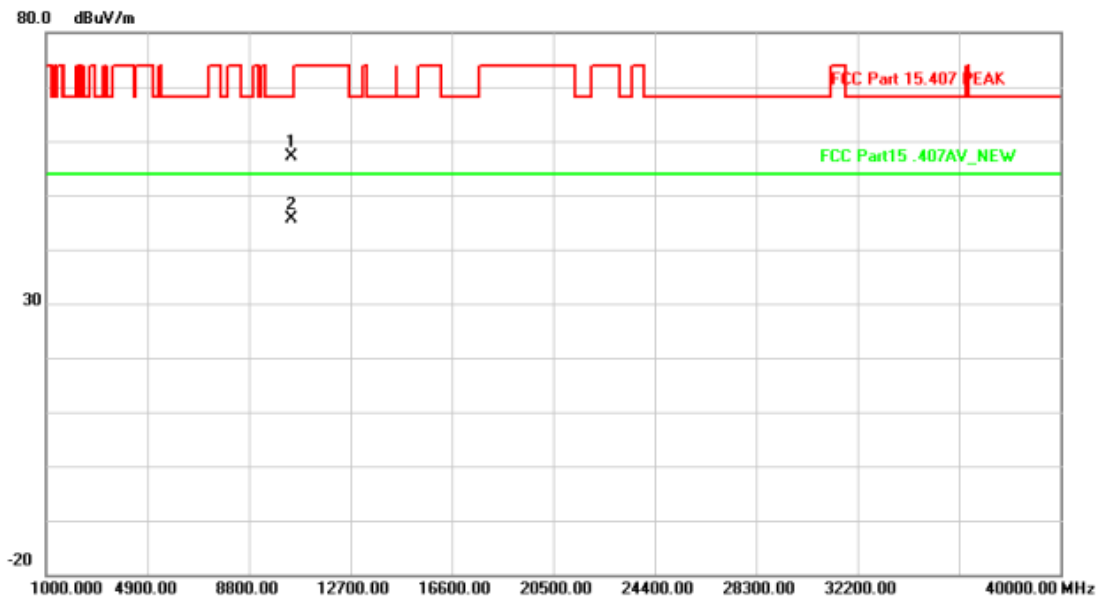


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	23.00	40.22	63.22	74.00	-10.78	peak	
2		5150.000	13.19	40.22	53.41	54.00	-0.59	AVG	
3	*	5219.800	72.11	40.35	112.46	68.20	44.26	peak	No Limit
4	X	5226.400	64.70	40.37	105.07	68.20	36.87	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical
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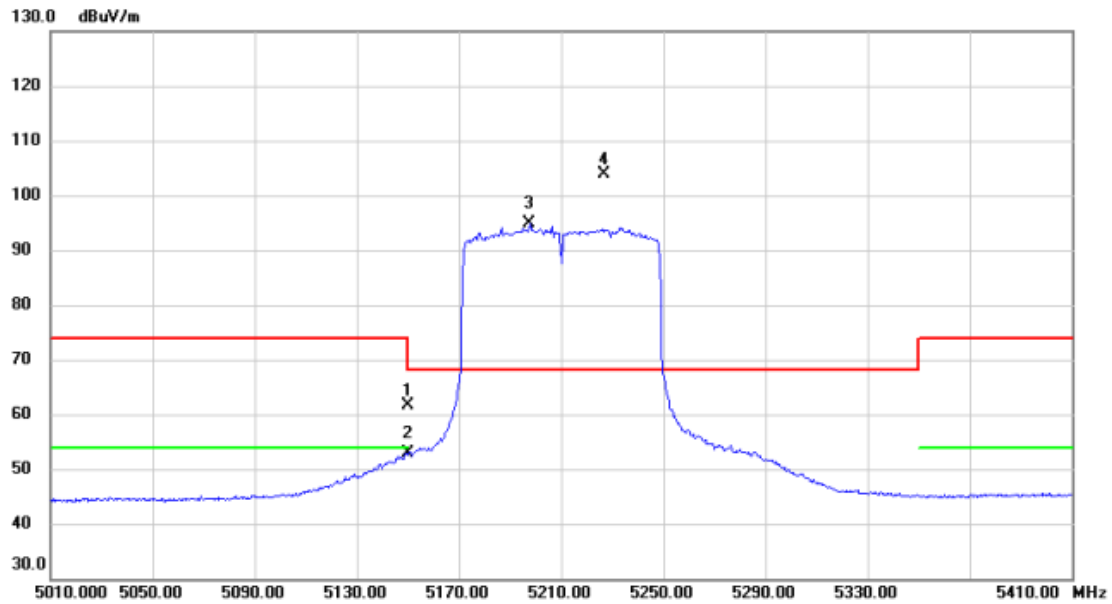


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10456.360	59.18	-1.96	57.22	68.20	-10.98	peak	126	102
2 *		10460.340	47.62	-1.96	45.66	54.00	-8.34	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical
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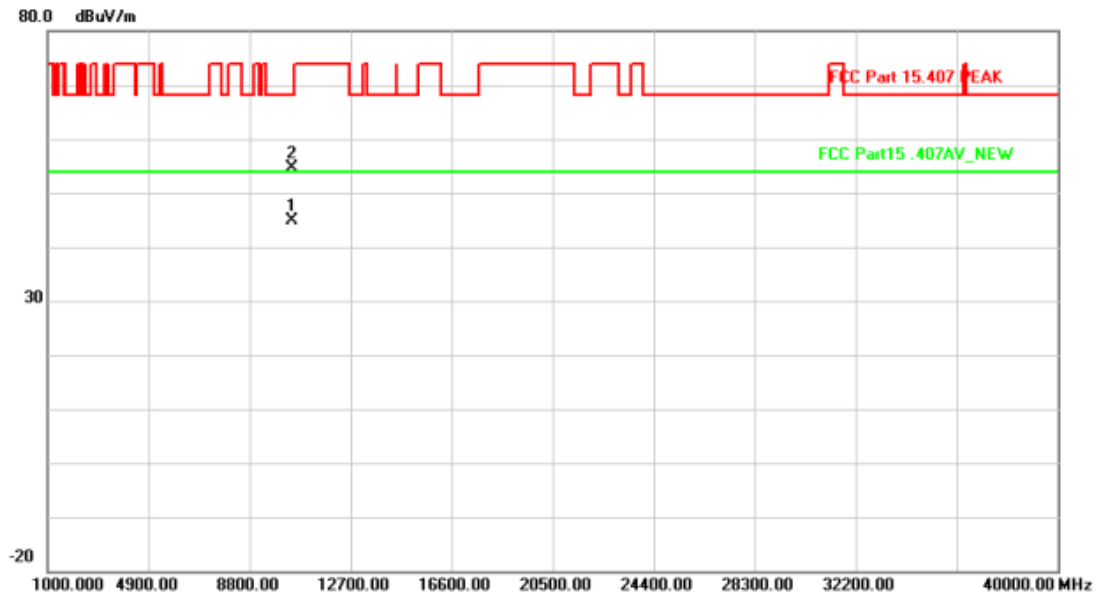
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	21.44	40.22	61.66	74.00	-12.34	peak	
2		5150.000	12.76	40.22	52.98	54.00	-1.02	AVG	
3	X	5197.600	54.56	40.31	94.87	68.20	26.67	AVG	No Limit
4	*	5226.800	63.62	40.37	103.99	68.20	35.79	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical
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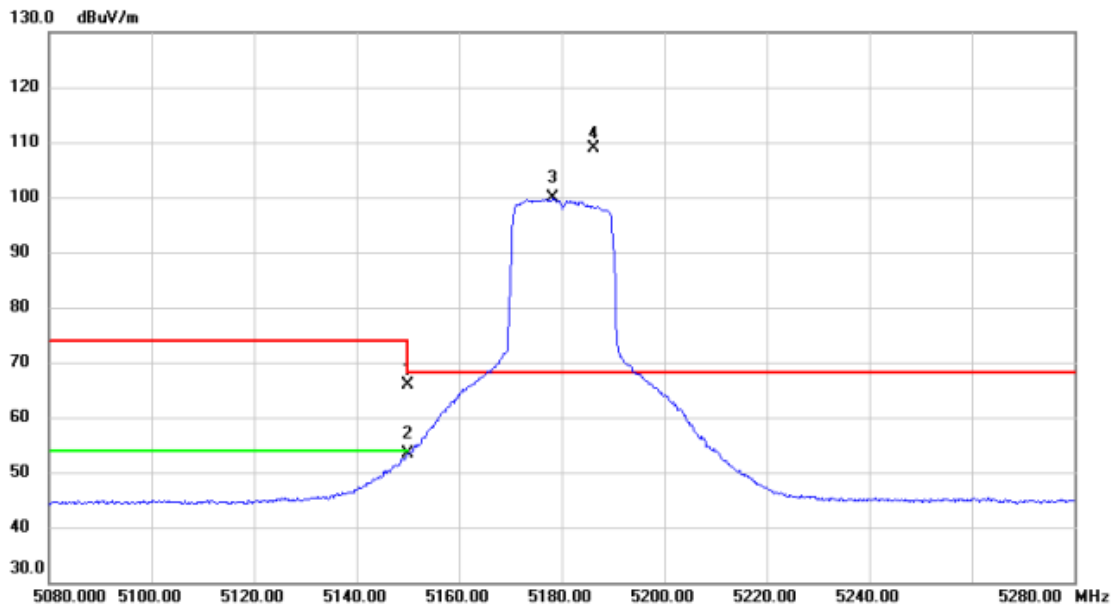


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10420.040	46.80	-2.02	44.78	54.00	-9.22	AVG	126	102
2		10424.080	56.58	-2.02	54.56	68.20	-13.64	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Vertical
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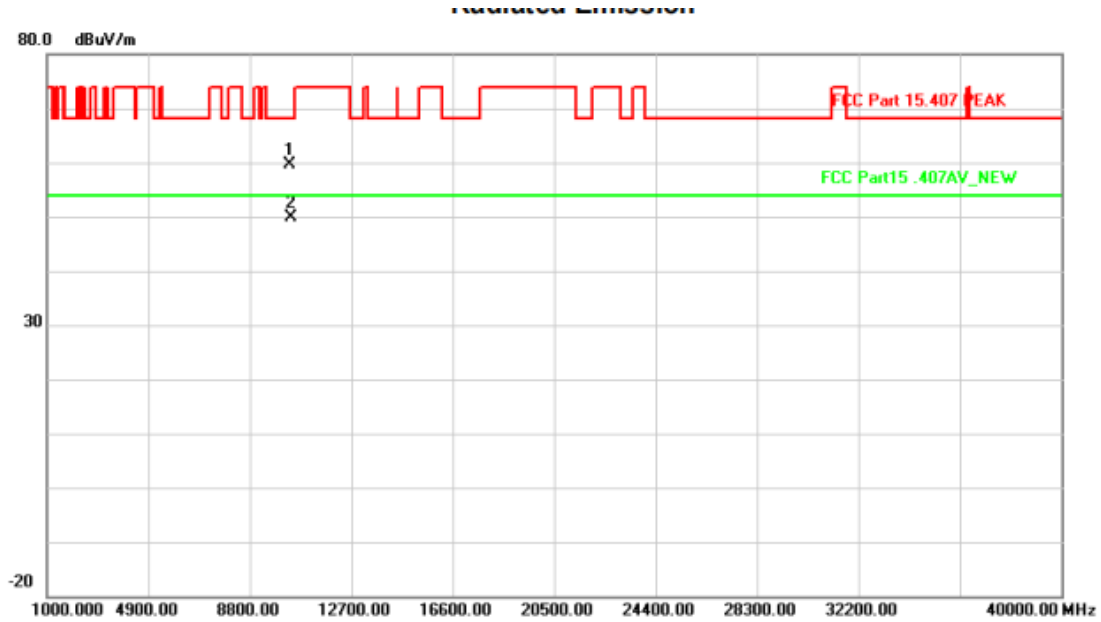
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	25.76	40.22	65.98	74.00	-8.02	peak	
2		5150.000	13.08	40.22	53.30	54.00	-0.70	AVG	
3	X	5178.200	59.58	40.28	99.86	68.20	31.66	AVG	No Limit
4	*	5186.200	68.67	40.29	108.96	68.20	40.76	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Vertical
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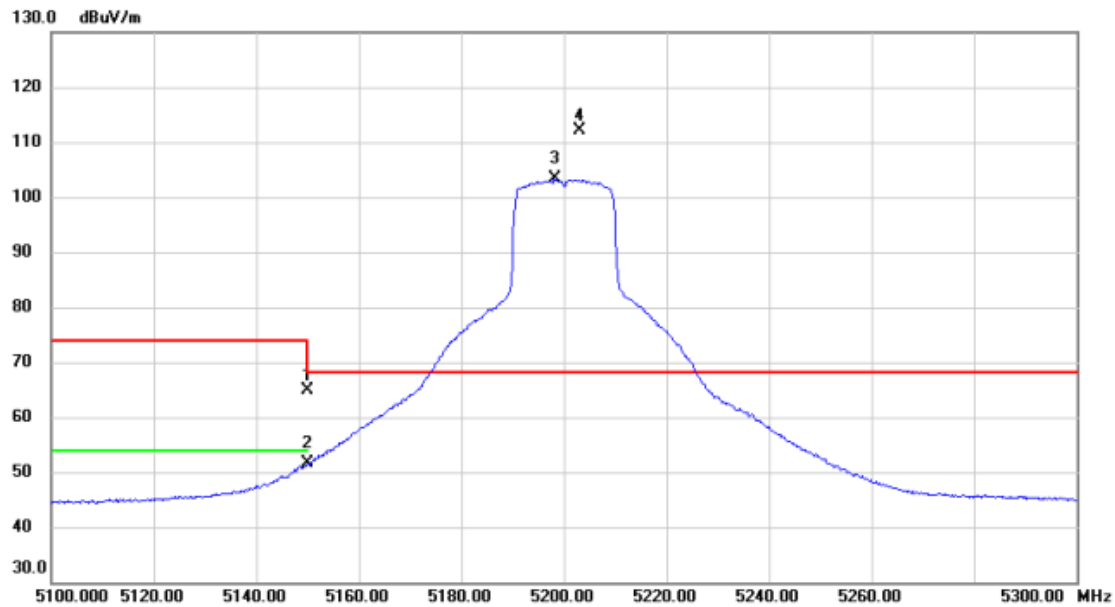


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10358.960	61.67	-2.12	59.55	68.20	-8.65	peak	126	102
2	*	10361.140	51.92	-2.12	49.80	54.00	-4.20	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Vertical
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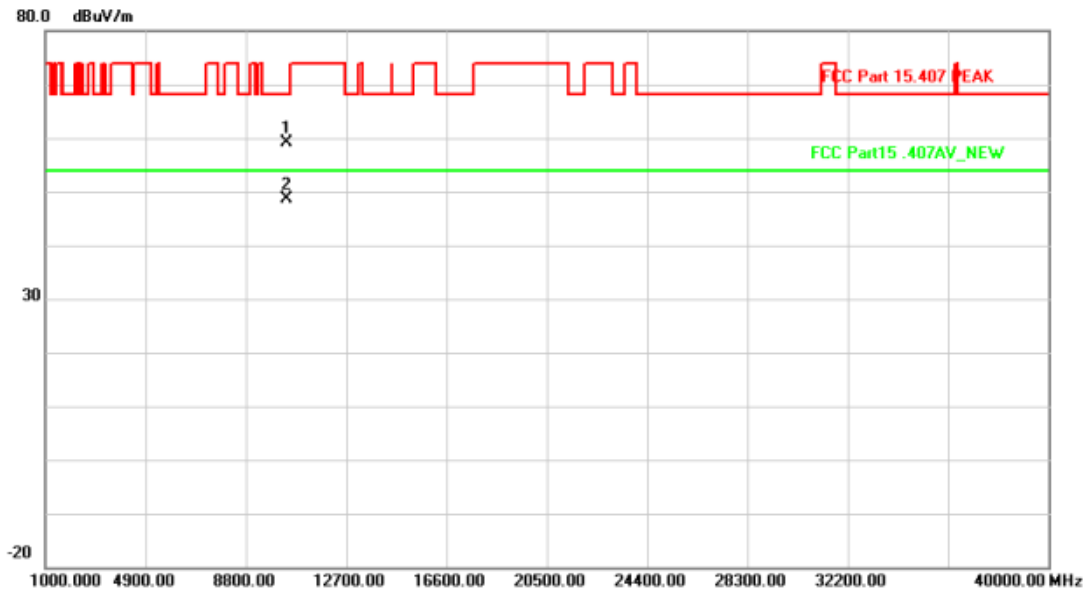
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	24.64	40.22	64.86	74.00	-9.14	peak	
2		5150.000	11.39	40.22	51.61	54.00	-2.39	AVG	
3	X	5198.400	63.05	40.31	103.36	68.20	35.16	AVG	No Limit
4	*	5203.000	71.78	40.32	112.10	68.20	43.90	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Vertical
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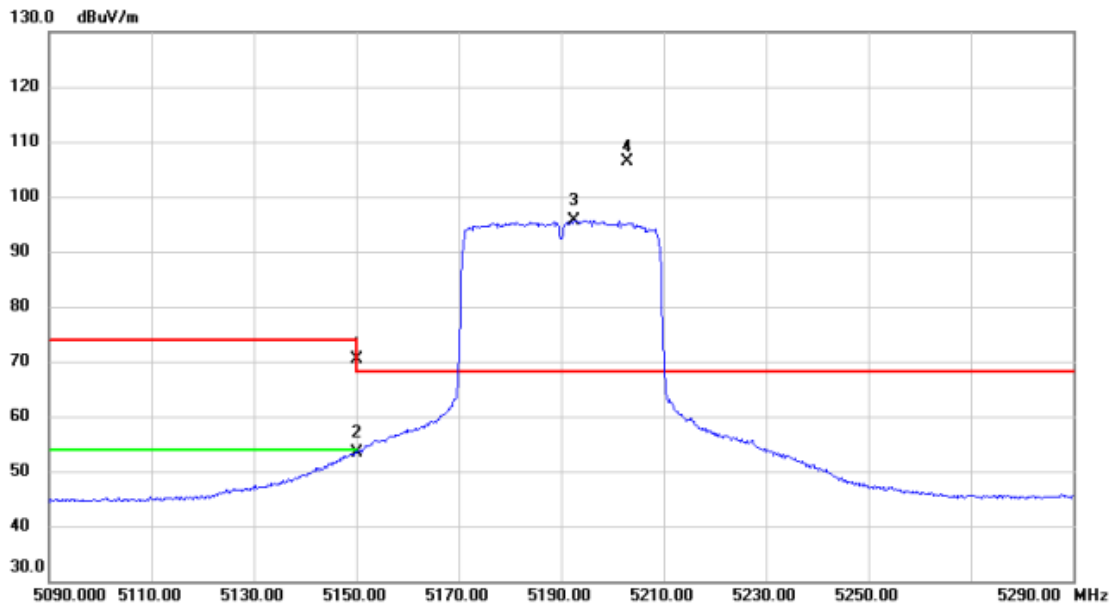


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10396.020	61.22	-2.06	59.16	68.20	-9.04	peak	126	102
2	*	10401.220	50.72	-2.05	48.67	54.00	-5.33	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Vertical
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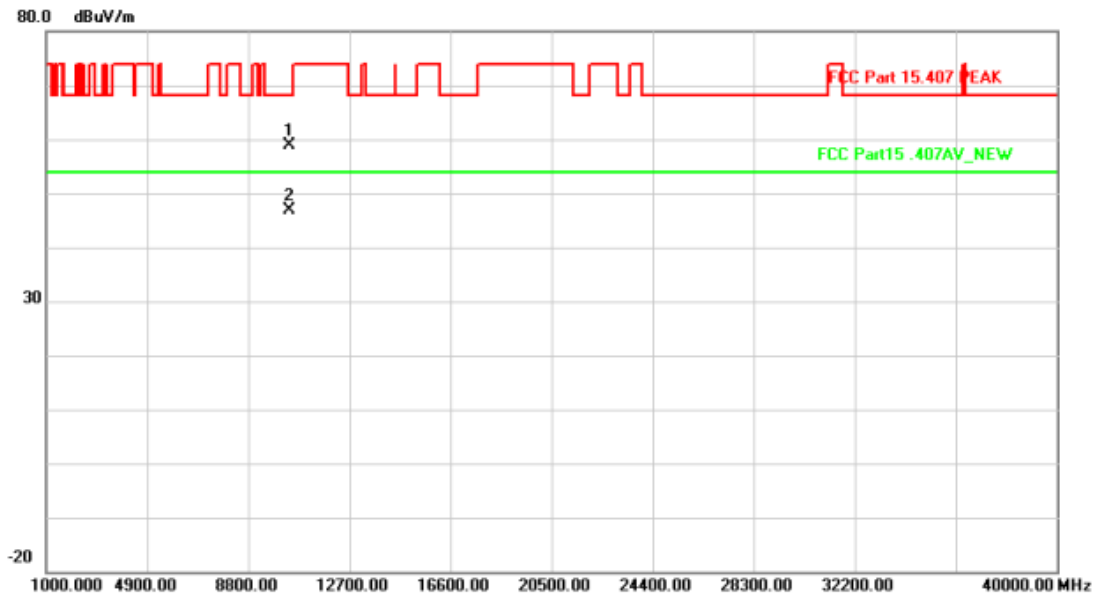


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	30.14	40.22	70.36	74.00	-3.64	peak	
2		5150.000	13.17	40.22	53.39	54.00	-0.61	AVG	
3	X	5192.600	55.41	40.30	95.71	68.20	27.51	AVG	No Limit
4	*	5202.800	65.99	40.32	106.31	68.20	38.11	peak	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Vertical
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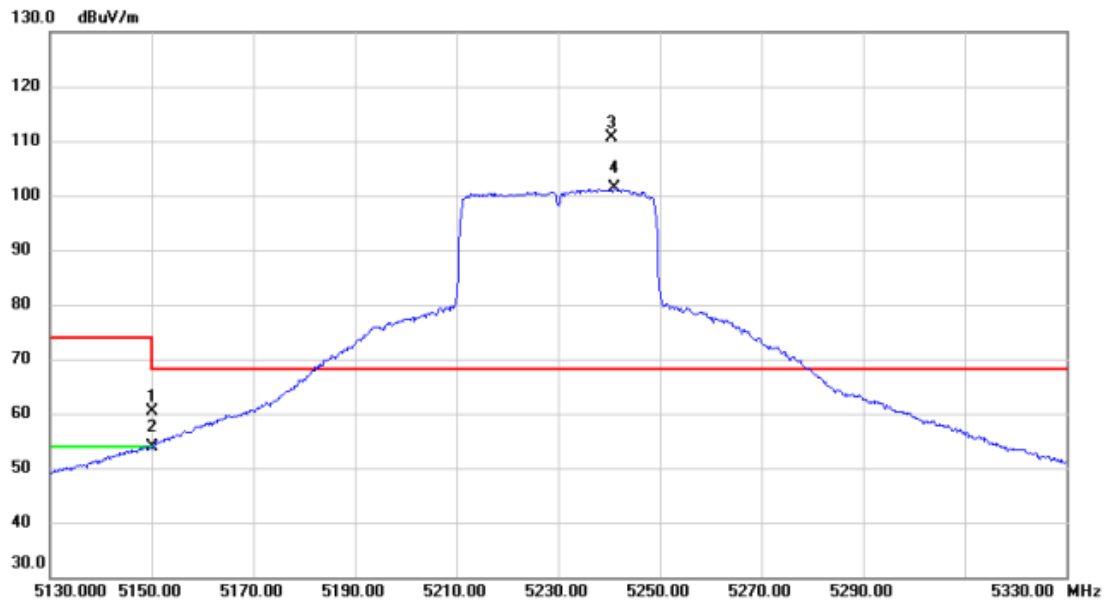
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10376.800	61.02	-2.09	58.93	68.20	-9.27	peak	126	102
2 *		10381.940	48.86	-2.07	46.79	54.00	-7.21	AVG	126	102

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Vertical
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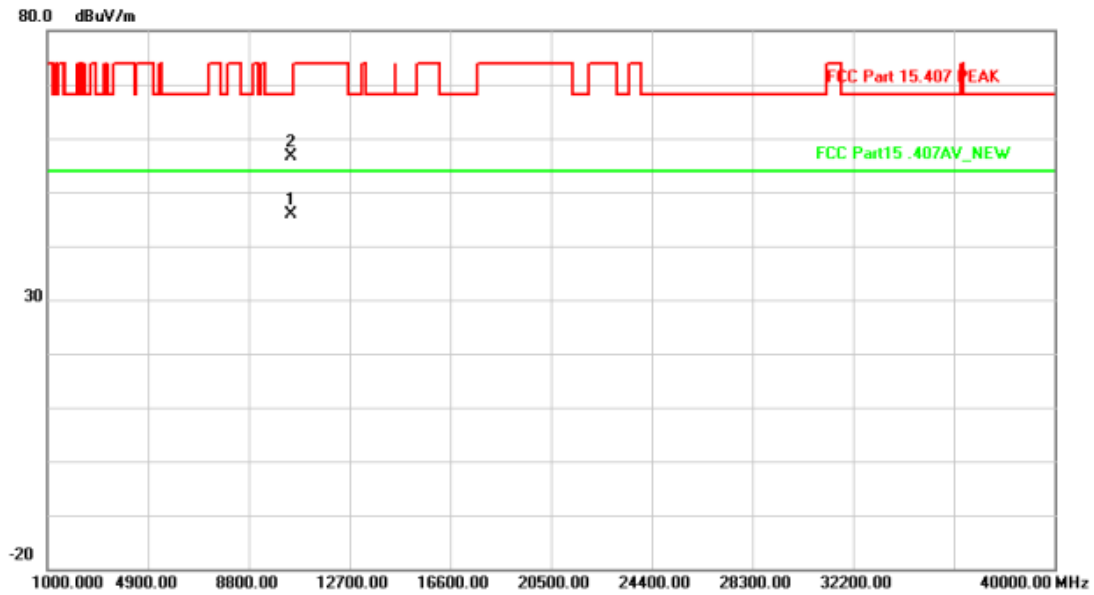


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	20.16	40.22	60.38	74.00	-13.62	peak	
2		5150.000	13.58	40.22	53.80	54.00	-0.20	AVG	
3	*	5240.600	70.32	40.39	110.71	68.20	42.51	peak	No Limit
4	X	5241.200	60.93	40.39	101.32	68.20	33.12	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Vertical
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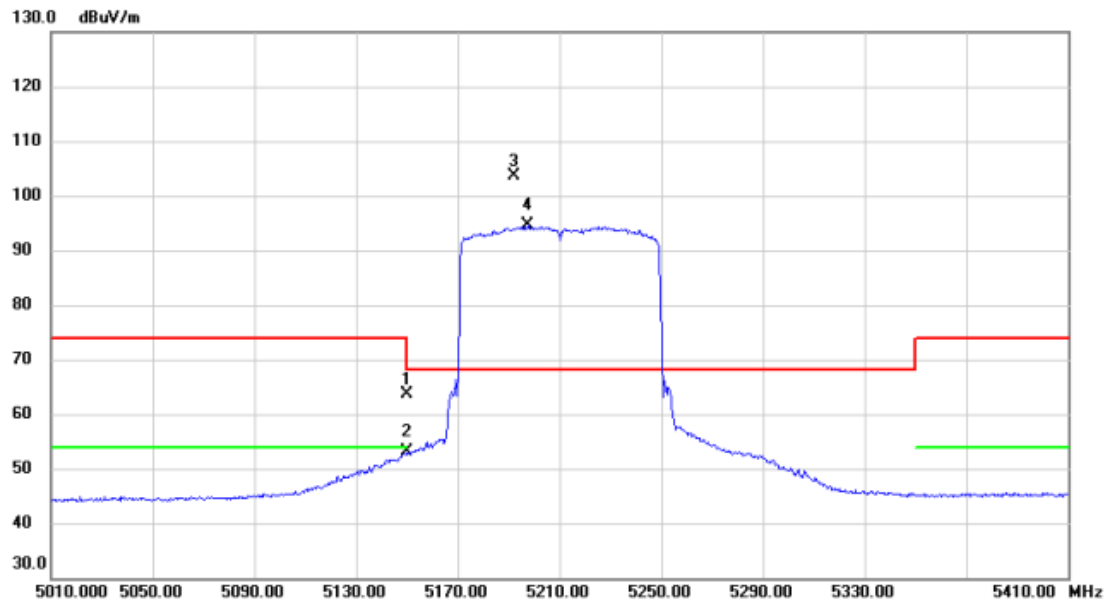


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10459.720	47.92	-1.96	45.96	54.00	-8.04	AVG	126	102
2		10462.260	58.63	-1.96	56.67	68.20	-11.53	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Vertical
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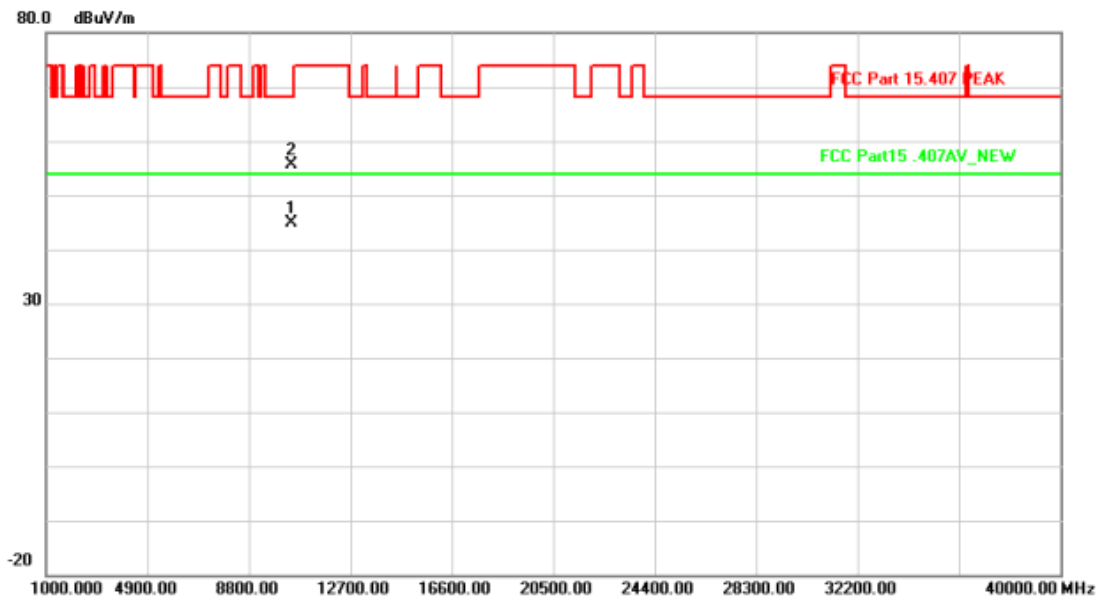


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	23.39	40.22	63.61	74.00	-10.39	peak	
2		5150.000	12.83	40.22	53.05	54.00	-0.95	AVG	
3	*	5192.000	63.30	40.30	103.60	68.20	35.40	peak	No Limit
4	X	5197.600	54.28	40.31	94.59	68.20	26.39	AVG	No Limit

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Vertical
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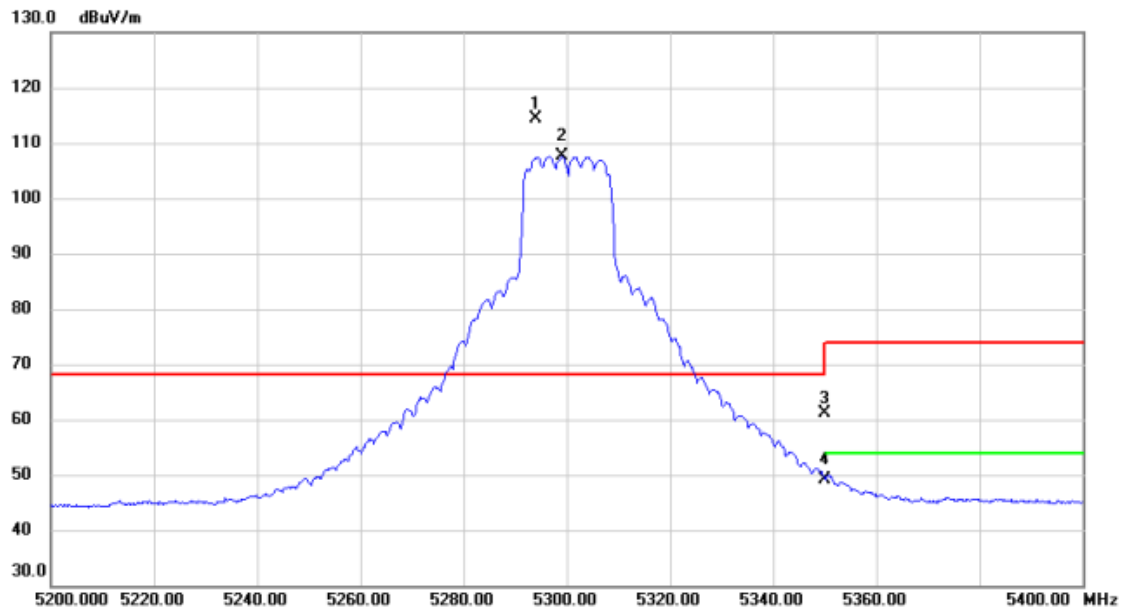


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10415.720	46.87	-2.03	44.84	54.00	-9.16	AVG	126	102
2		10422.340	57.68	-2.02	55.66	68.20	-12.54	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Vertical
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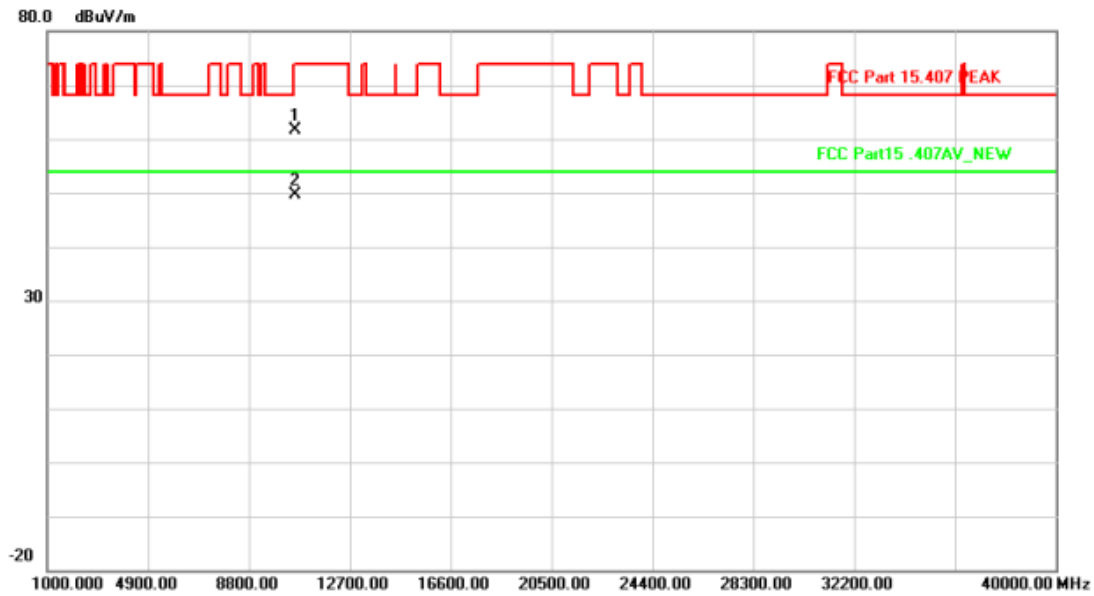


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	5294.000	73.87	40.49	114.36	68.20	46.16	peak	No Limit
2 X	5299.000	67.01	40.50	107.51	68.20	39.31	AVG	No Limit
3	5350.000	20.59	40.59	61.18	74.00	-12.82	peak	
4	5350.000	8.66	40.59	49.25	54.00	-4.75	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Vertical
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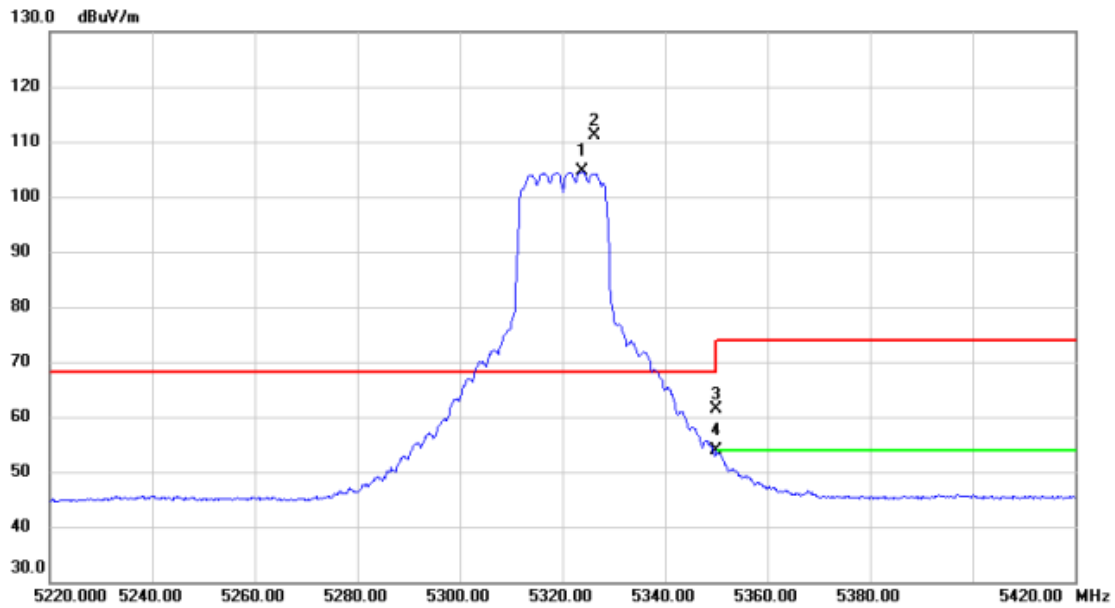


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10602.000	63.38	-1.68	61.70	74.00	-12.30	peak	127	102
2 *		10602.300	51.36	-1.68	49.68	54.00	-4.32	AVG	127	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Vertical
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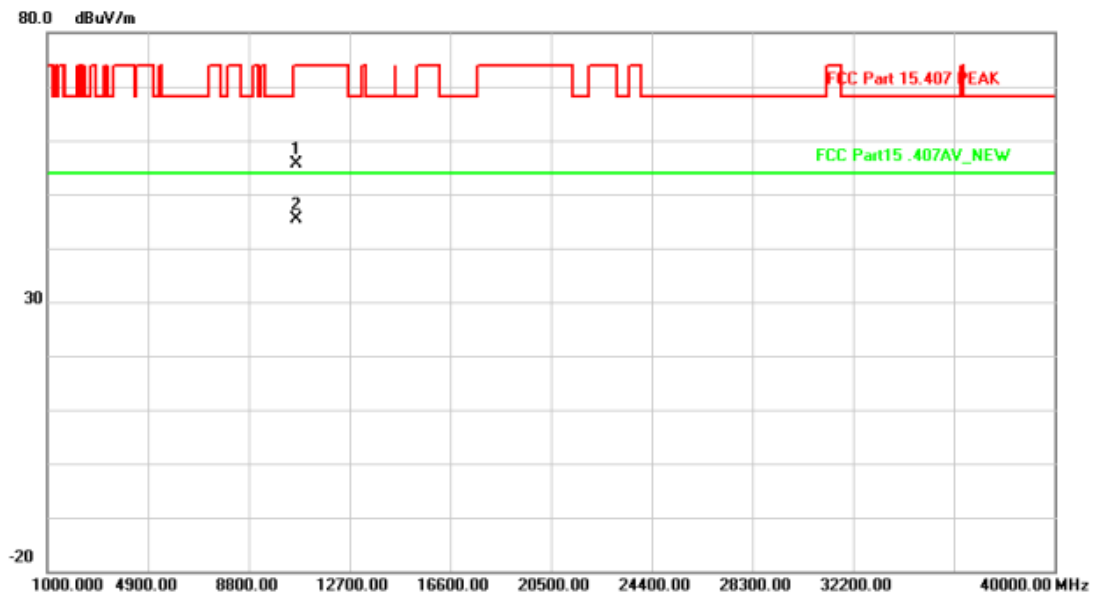


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5323.800	64.01	40.54	104.55	68.20	36.35	AVG	No Limit
2	*	5326.200	70.64	40.55	111.19	68.20	42.99	peak	No Limit
3		5350.000	20.77	40.59	61.36	74.00	-12.64	peak	
4		5350.000	13.21	40.59	53.80	54.00	-0.20	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Vertical
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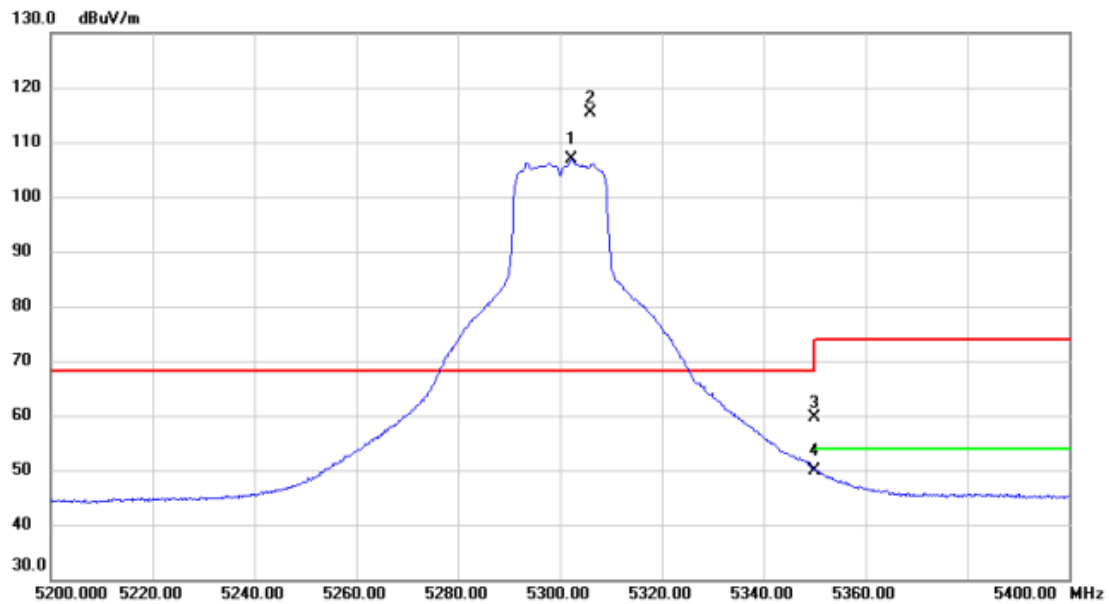


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		10637.140	57.19	-1.60	55.59	74.00	-18.41	peak	126	105
2	*	10640.780	47.02	-1.59	45.43	54.00	-8.57	AVG	126	105

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Vertical
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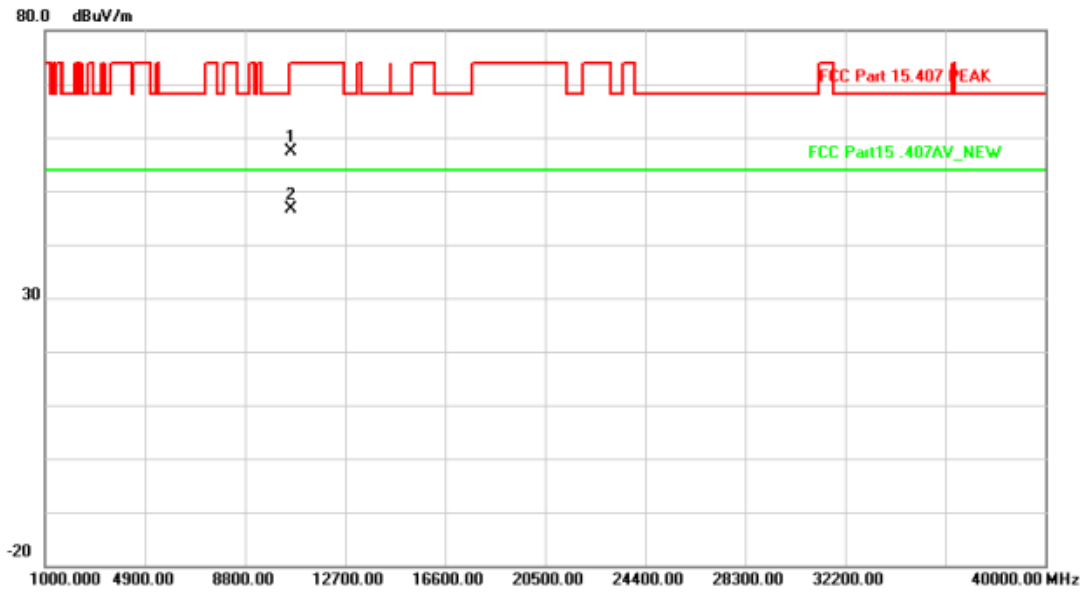


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5302.200	66.34	40.50	106.84	68.20	38.64	AVG	No Limit
2	*	5306.000	74.87	40.51	115.38	68.20	47.18	peak	No Limit
3		5350.000	19.11	40.59	59.70	74.00	-14.30	peak	
4		5350.000	9.37	40.59	49.96	54.00	-4.04	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Vertical
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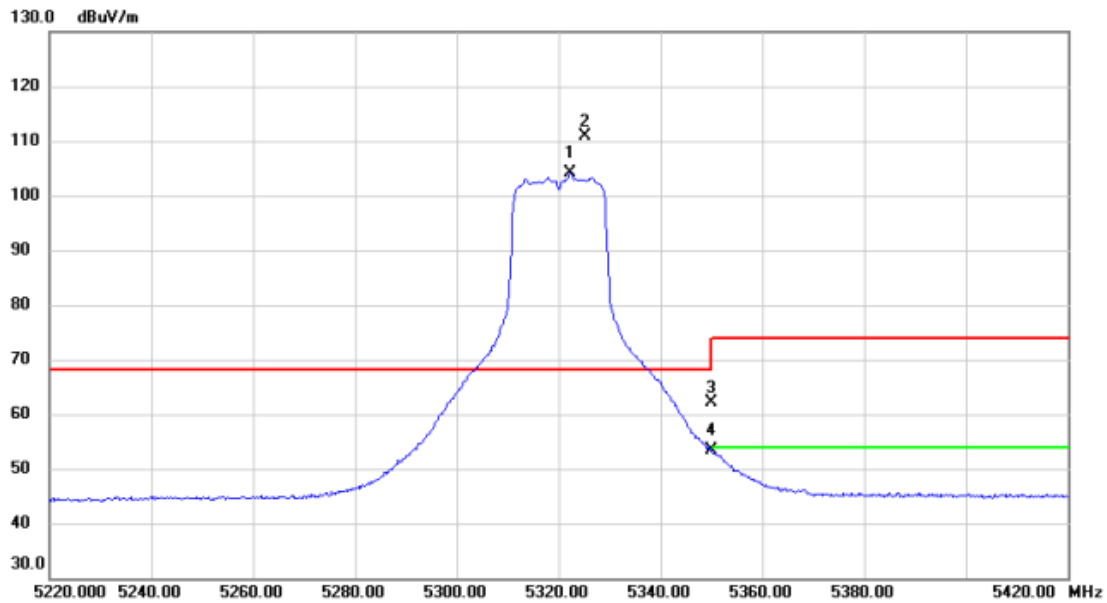


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10595.840	59.03	-1.70	57.33	68.20	-10.87	peak	126	105
2 *		10601.120	48.24	-1.69	46.55	54.00	-7.45	AVG	126	105

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Vertical
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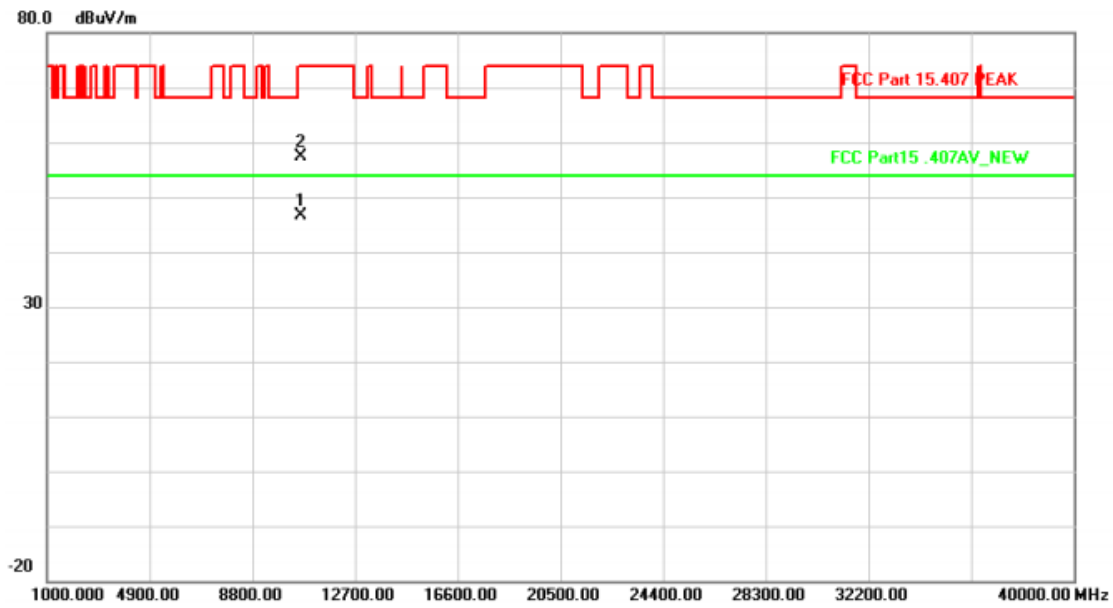


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5322.200	63.59	40.54	104.13	68.20	35.93	AVG	No Limit
2	*	5325.200	70.34	40.55	110.89	68.20	42.69	peak	No Limit
3		5350.000	21.43	40.59	62.02	74.00	-11.98	peak	
4		5350.000	12.73	40.59	53.32	54.00	-0.68	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Vertical
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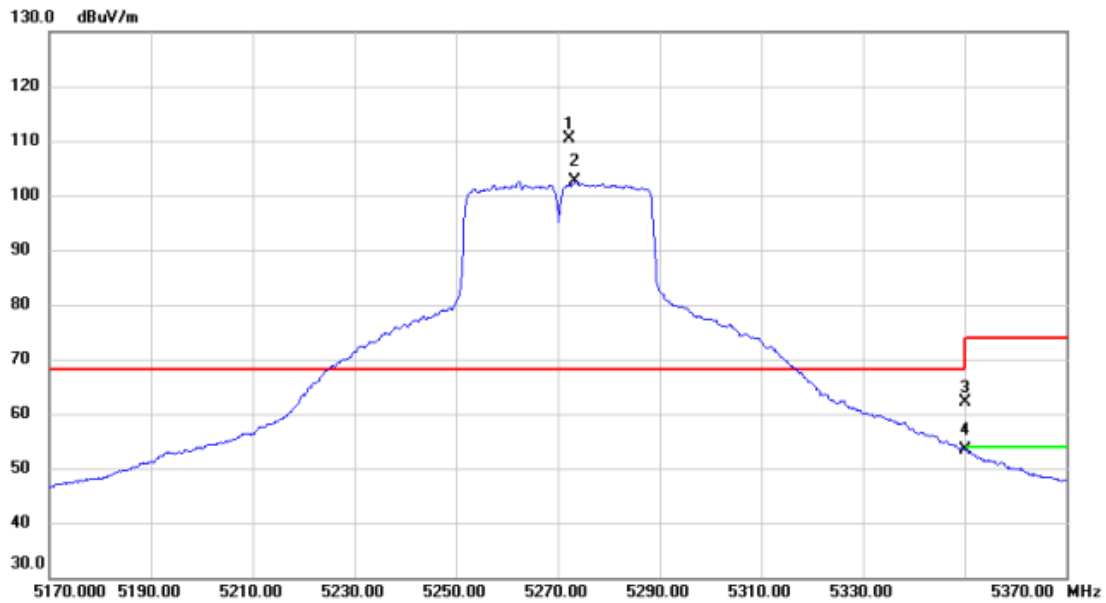
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	10641.280	48.31	-1.59	46.72	54.00	-7.28	AVG	126	102	
2		10641.420	59.03	-1.59	57.44	74.00	-16.56	peak	126	102	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Vertical
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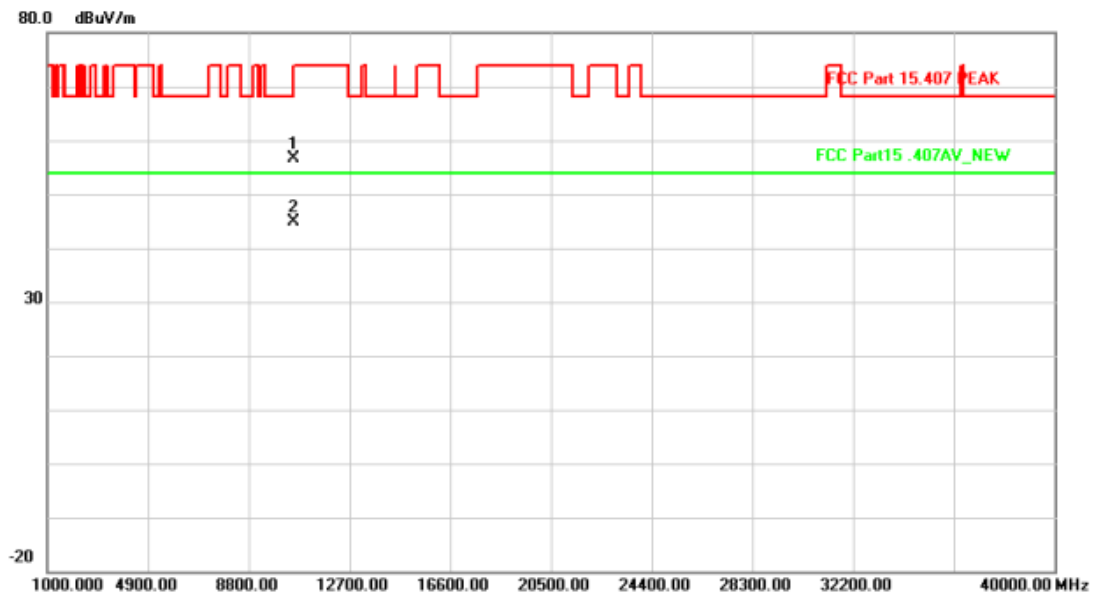


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5272.400	69.82	40.45	110.27	68.20	42.07	peak	No Limit
2	X	5273.400	62.24	40.45	102.69	68.20	34.49	AVG	No Limit
3		5350.000	21.54	40.59	62.13	74.00	-11.87	peak	
4		5350.000	12.69	40.59	53.28	54.00	-0.72	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Vertical
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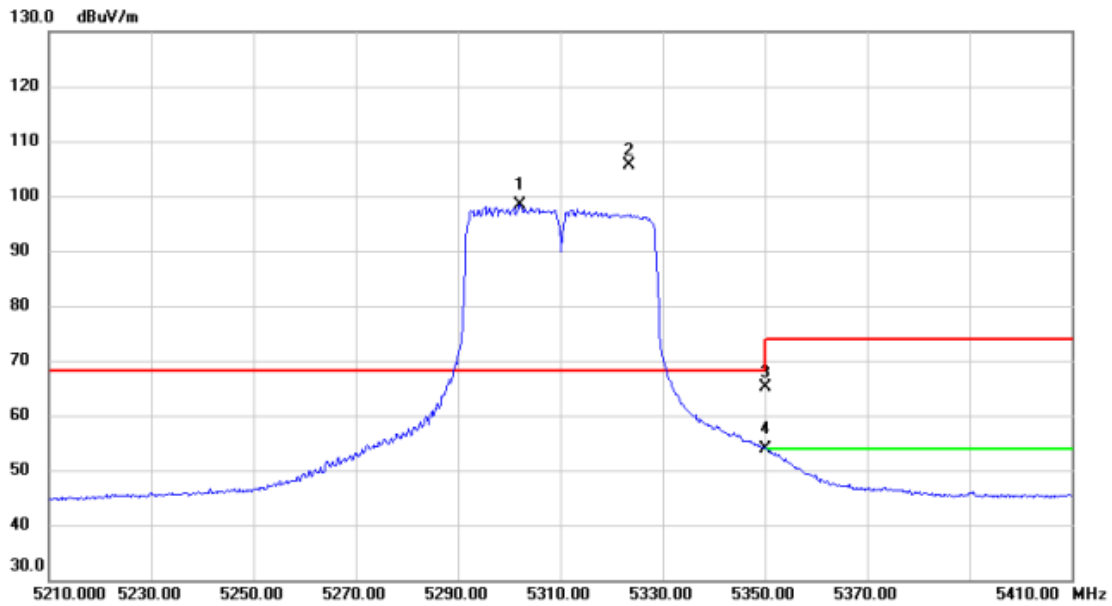


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		10536.760	58.56	-1.82	56.74	68.20	-11.46	peak	126	102
2	*	10542.820	46.78	-1.81	44.97	54.00	-9.03	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Vertical
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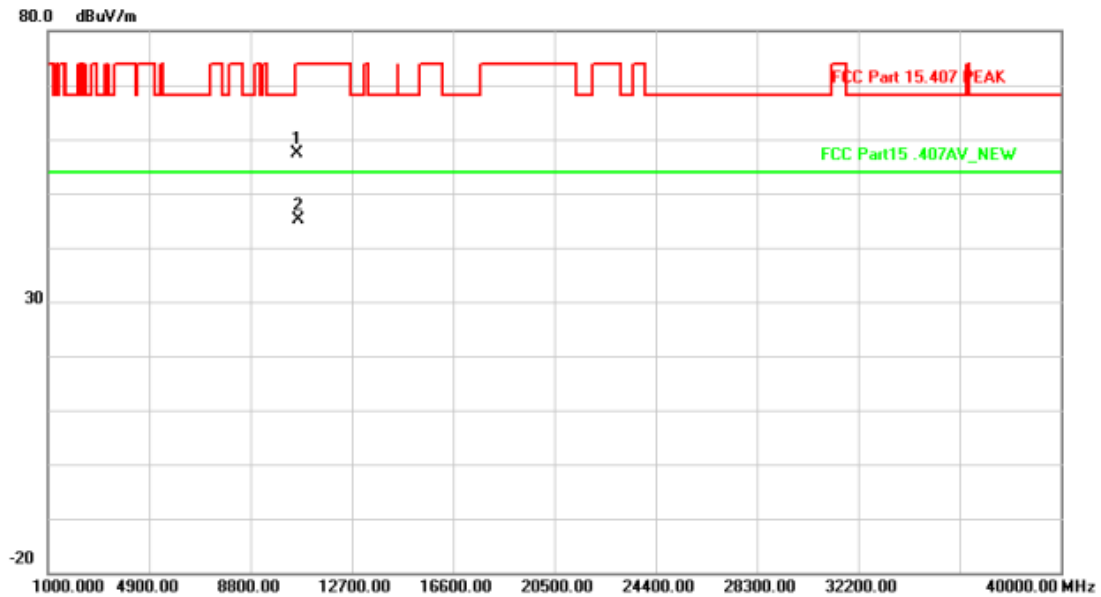
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5302.000	57.94	40.50	98.44	68.20	30.24	AVG	No Limit
2	*	5323.400	65.19	40.54	105.73	68.20	37.53	peak	No Limit
3		5350.000	24.42	40.59	65.01	74.00	-8.99	peak	
4		5350.000	13.18	40.59	53.77	54.00	-0.23	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Vertical
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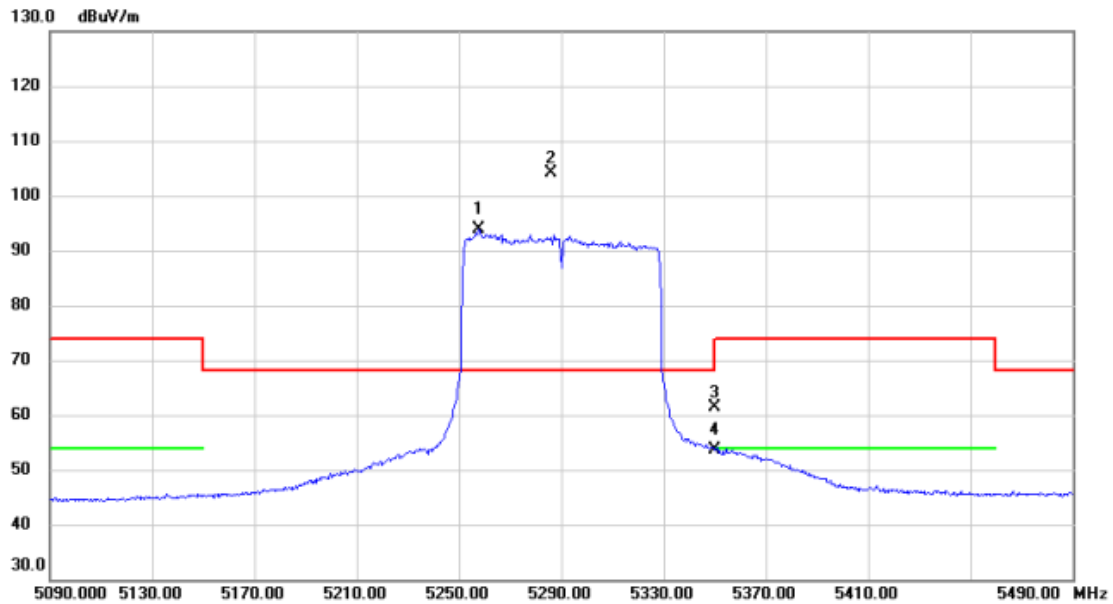


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10618.780	59.11	-1.64	57.47	74.00	-16.53	peak	126	102
2 *		10620.760	46.82	-1.64	45.18	54.00	-8.82	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Vertical
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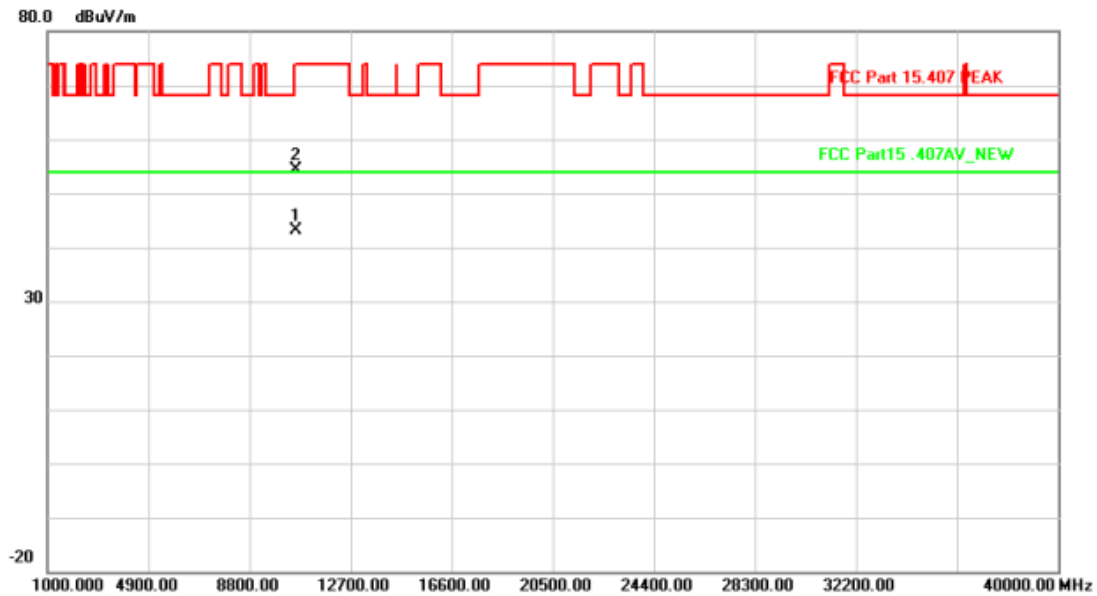


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5257.600	53.39	40.42	93.81	68.20	25.61	AVG	No Limit
2	*	5286.000	63.71	40.47	104.18	68.20	35.98	peak	No Limit
3		5350.000	20.89	40.59	61.48	74.00	-12.52	peak	
4		5350.000	13.01	40.59	53.60	54.00	-0.40	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Vertical
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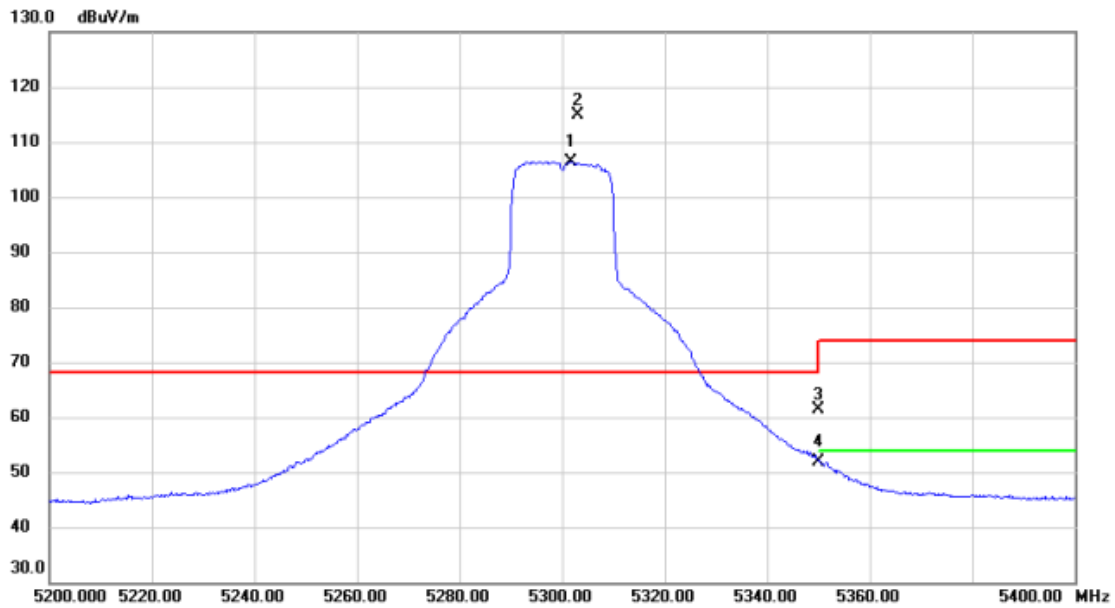


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10580.120	44.98	-1.73	43.25	54.00	-10.75	AVG	126	102
2		10581.920	55.99	-1.73	54.26	68.20	-13.94	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Vertical
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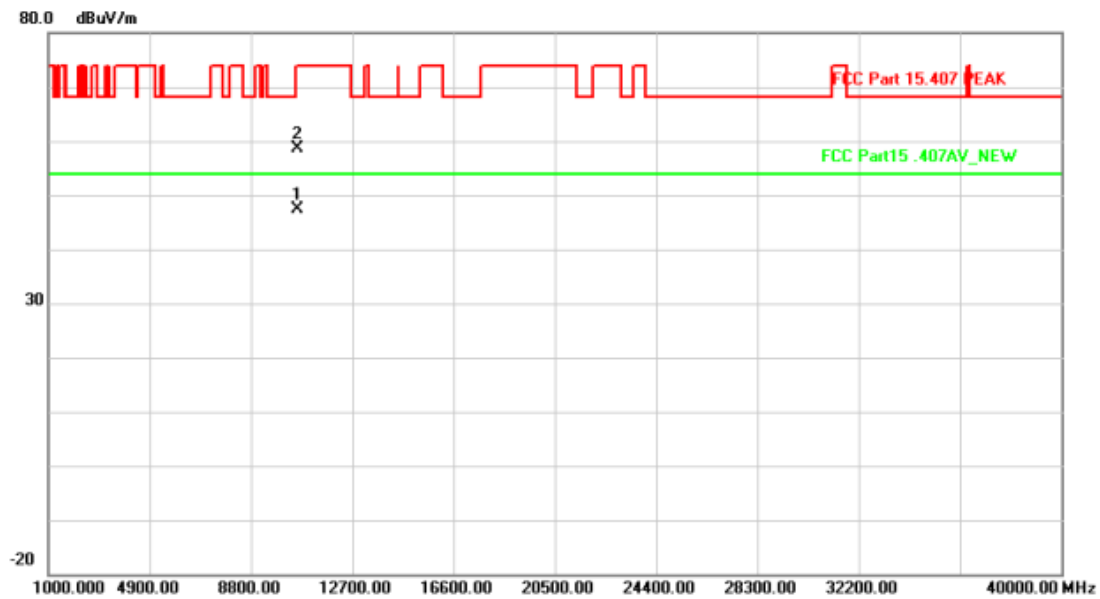
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5301.600	65.94	40.50	106.44	68.20	38.24	AVG	No Limit
2	*	5303.000	74.38	40.50	114.88	68.20	46.68	peak	No Limit
3		5350.000	20.70	40.59	61.29	74.00	-12.71	peak	
4		5350.000	11.29	40.59	51.88	54.00	-2.12	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Vertical
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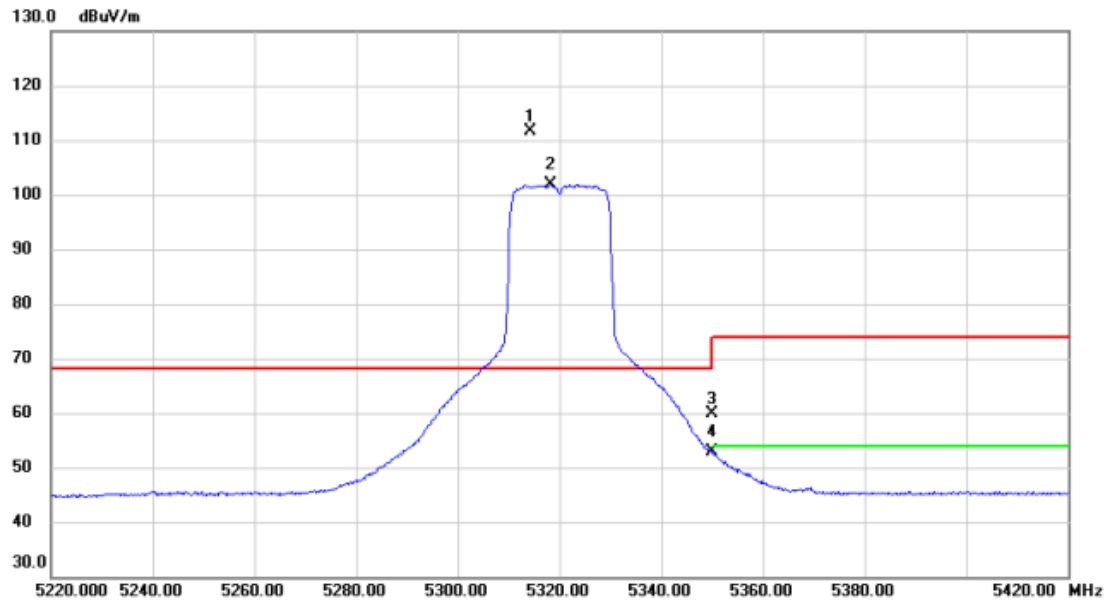
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10601.180	48.98	-1.69	47.29	54.00	-6.71	AVG	126	102
2		10601.360	60.44	-1.69	58.75	74.00	-15.25	peak	126	102

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Vertical
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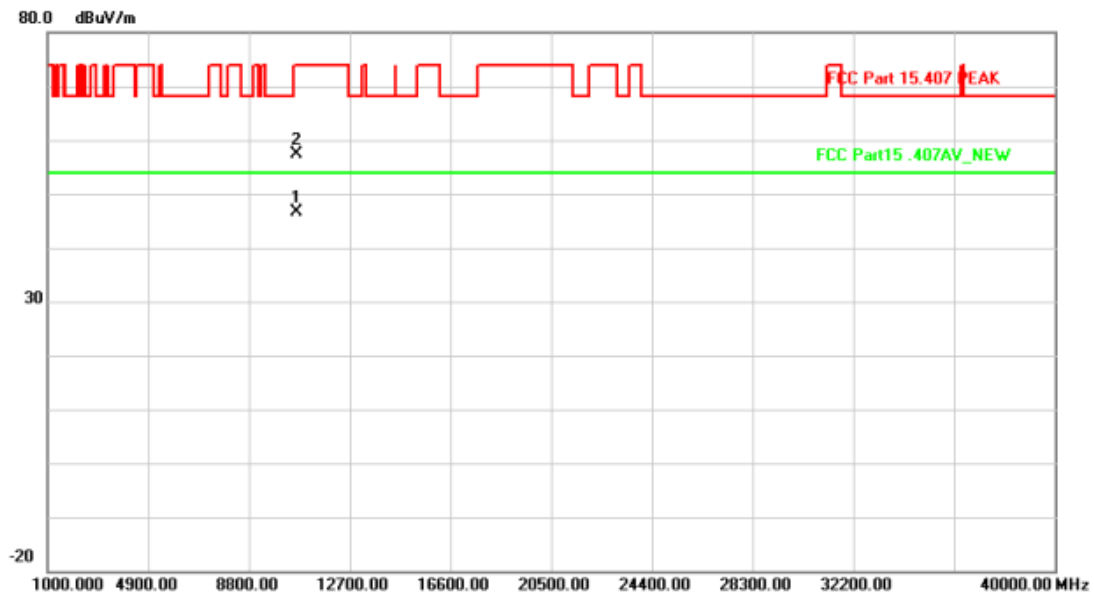
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5314.200	71.12	40.53	111.65	68.20	43.45	peak	No Limit
2	X	5318.200	61.42	40.53	101.95	68.20	33.75	AVG	No Limit
3		5350.000	19.27	40.59	59.86	74.00	-14.14	peak	
4		5350.000	12.37	40.59	52.96	54.00	-1.04	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Vertical
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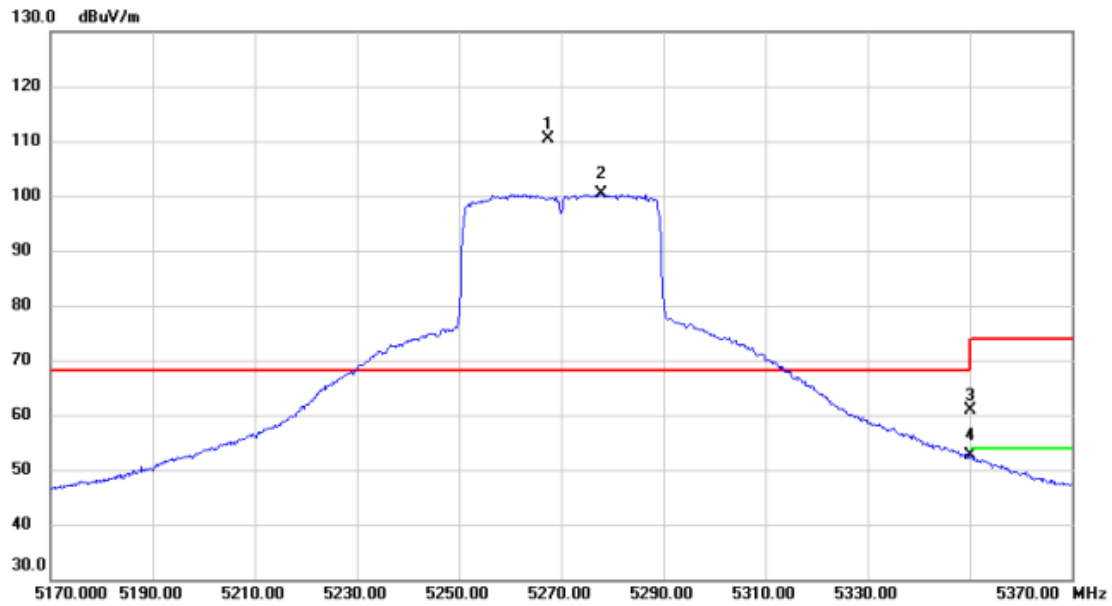


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	10641.280	48.31	-1.59	46.72	54.00	-7.28	AVG	126	102
2		10641.420	59.03	-1.59	57.44	74.00	-16.56	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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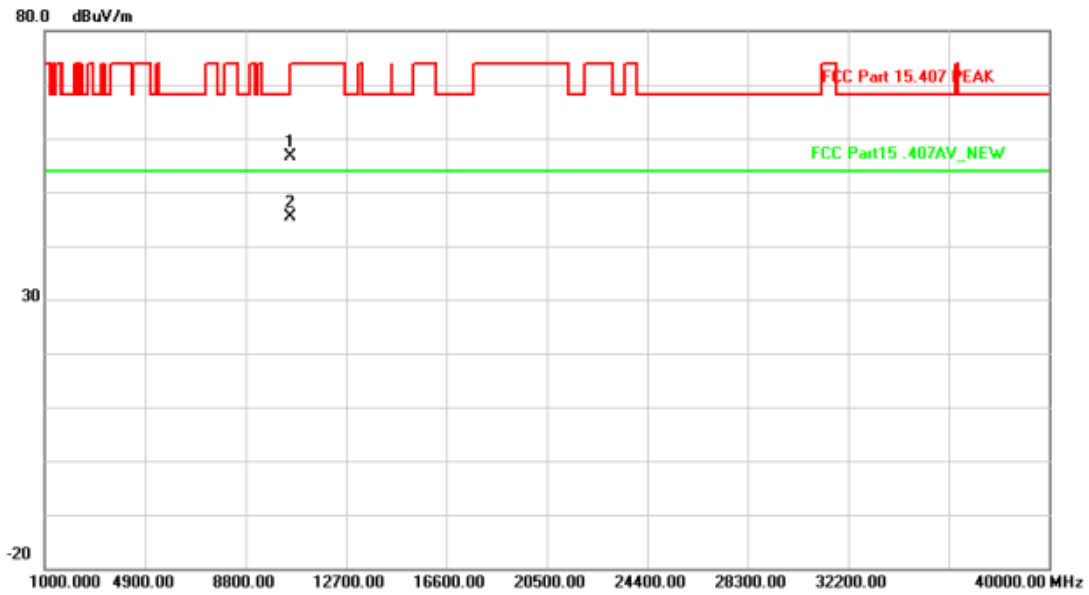


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5267.400	69.88	40.44	110.32	68.20	42.12	peak	No Limit
2	X	5277.800	59.80	40.46	100.26	68.20	32.06	AVG	No Limit
3		5350.000	20.41	40.59	61.00	74.00	-13.00	peak	
4		5350.000	12.08	40.59	52.67	54.00	-1.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Vertical
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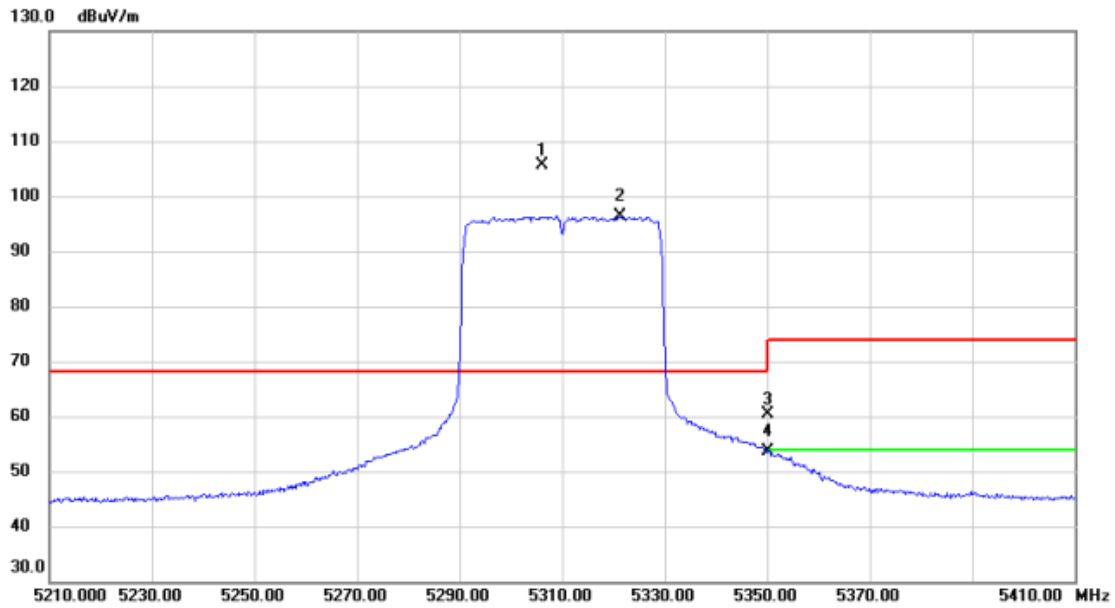


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10536.520	58.46	-1.82	56.64	68.20	-11.56	peak	126	102
2	*	10542.200	47.16	-1.81	45.35	54.00	-8.65	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Vertical
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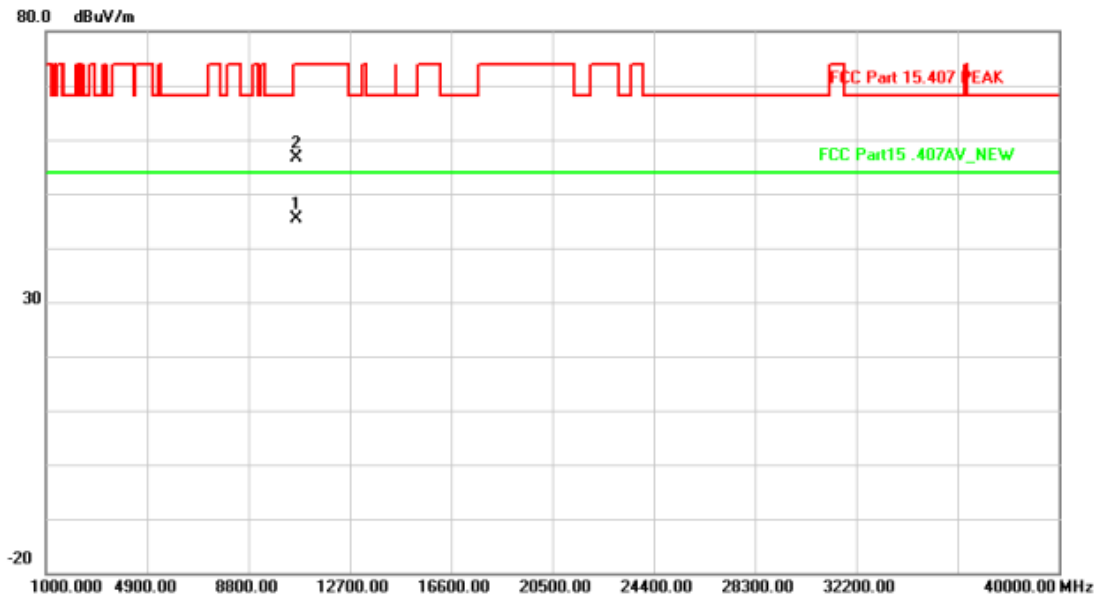
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5306.000	65.15	40.51	105.66	68.20	37.46	peak	No Limit
2	X	5321.400	55.86	40.54	96.40	68.20	28.20	AVG	No Limit
3		5350.000	19.89	40.59	60.48	74.00	-13.52	peak	
4		5350.000	13.04	40.59	53.63	54.00	-0.37	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Vertical
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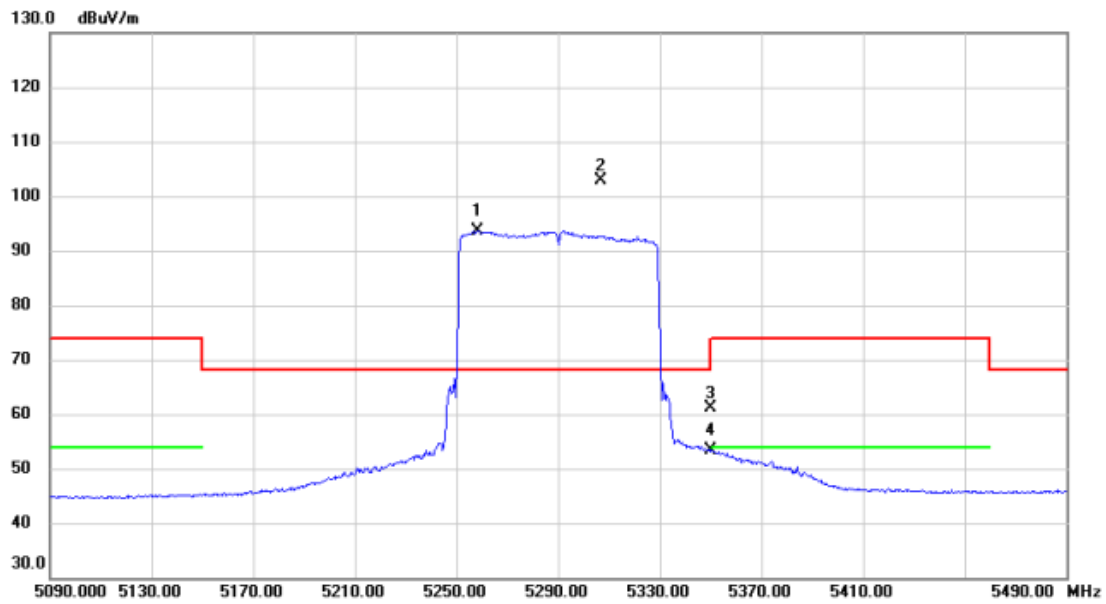


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1	*	10620.940	47.07	-1.64	45.43	54.00	-8.57	AVG	126	102
2		10627.560	58.32	-1.63	56.69	74.00	-17.31	peak	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Vertical
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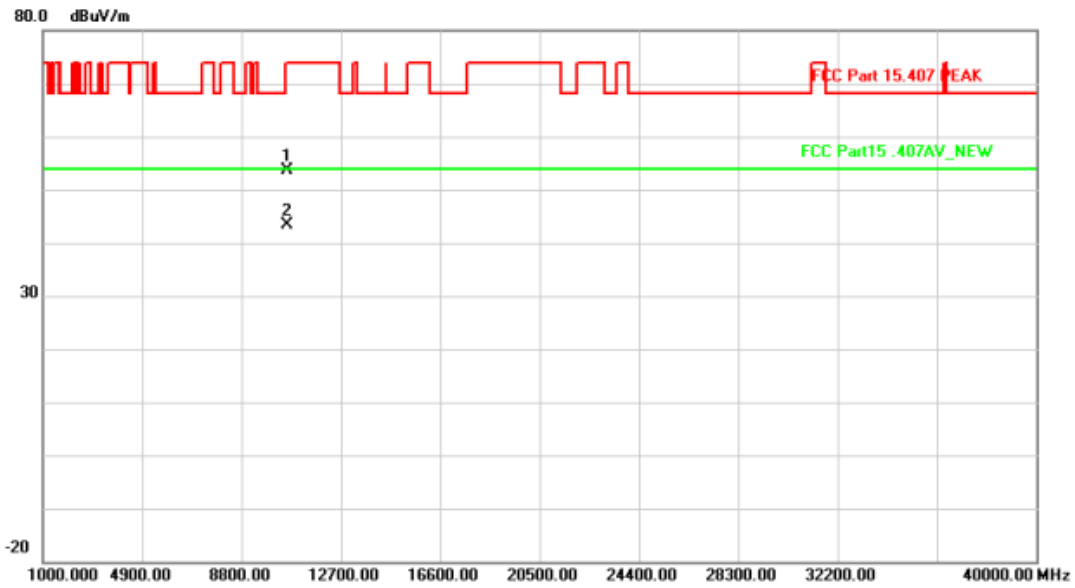
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5258.400	53.25	40.43	93.68	68.20	25.48	AVG	No Limit
2	*	5306.800	62.38	40.51	102.89	68.20	34.69	peak	No Limit
3		5350.000	20.66	40.59	61.25	74.00	-12.75	peak	
4		5350.000	12.68	40.59	53.27	54.00	-0.73	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Vertical
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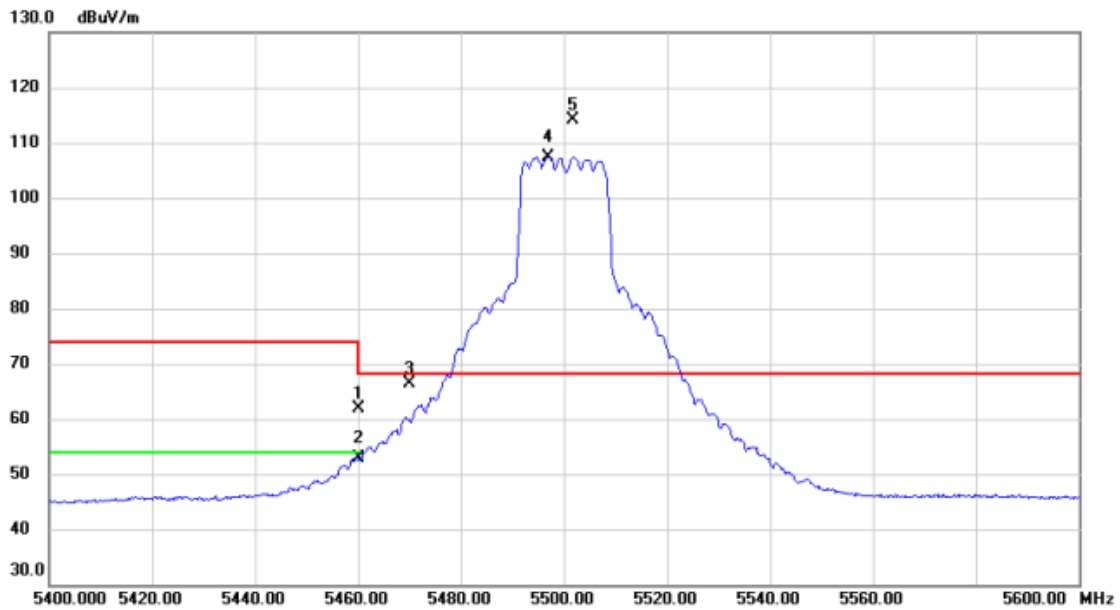


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		10577.200	55.25	-1.73	53.52	68.20	-14.68	peak	126	102
2	*	10577.240	45.22	-1.73	43.49	54.00	-10.51	AVG	126	102

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Vertical
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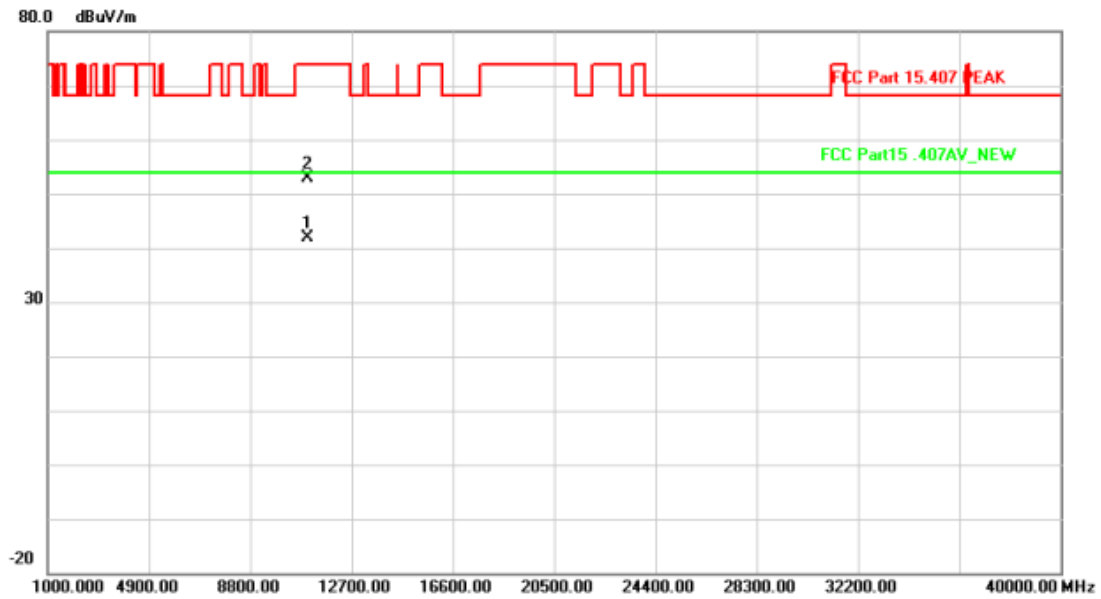
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5460.000	21.00	40.80	61.80	74.00	-12.20	peak	
2	5460.000	12.13	40.80	52.93	54.00	-1.07	AVG	
3	5470.000	25.60	40.82	66.42	68.20	-1.78	peak	
4 X	5496.800	66.53	40.87	107.40	68.20	39.20	AVG	No Limit
5 *	5501.600	73.16	40.88	114.04	68.20	45.84	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Vertical
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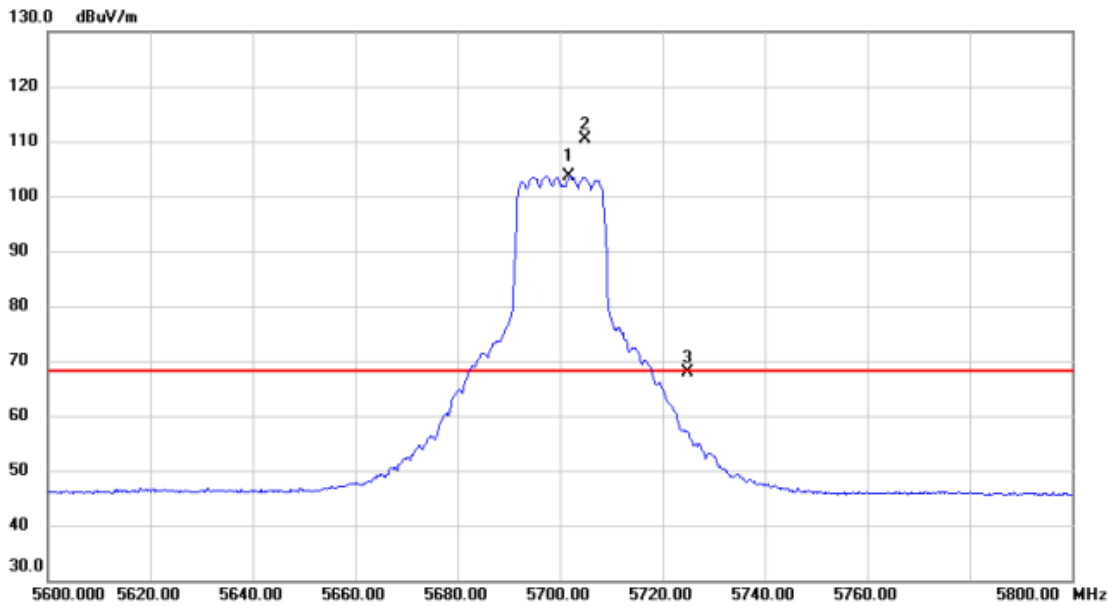


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11002.370	42.75	-0.83	41.92	54.00	-12.08	AVG	116	165
2		11002.410	53.83	-0.83	53.00	74.00	-21.00	peak	116	165

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Vertical
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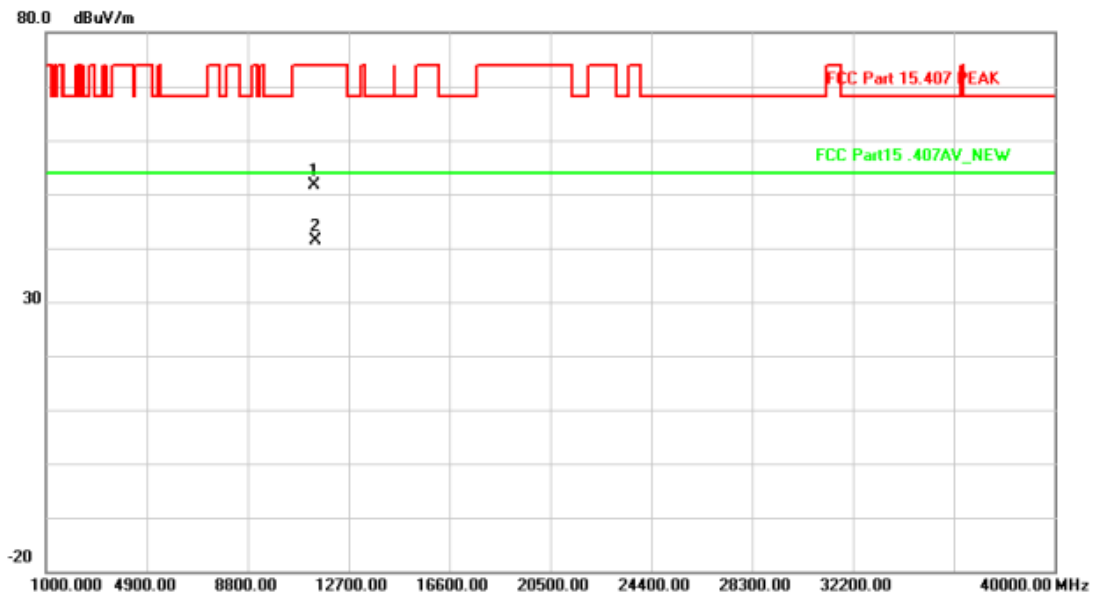


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5701.800	62.24	41.37	103.61	68.20	35.41	AVG	No Limit
2	*	5704.800	69.10	41.39	110.49	68.20	42.29	peak	No Limit
3		5725.000	26.39	41.43	67.82	68.20	-0.38	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Vertical
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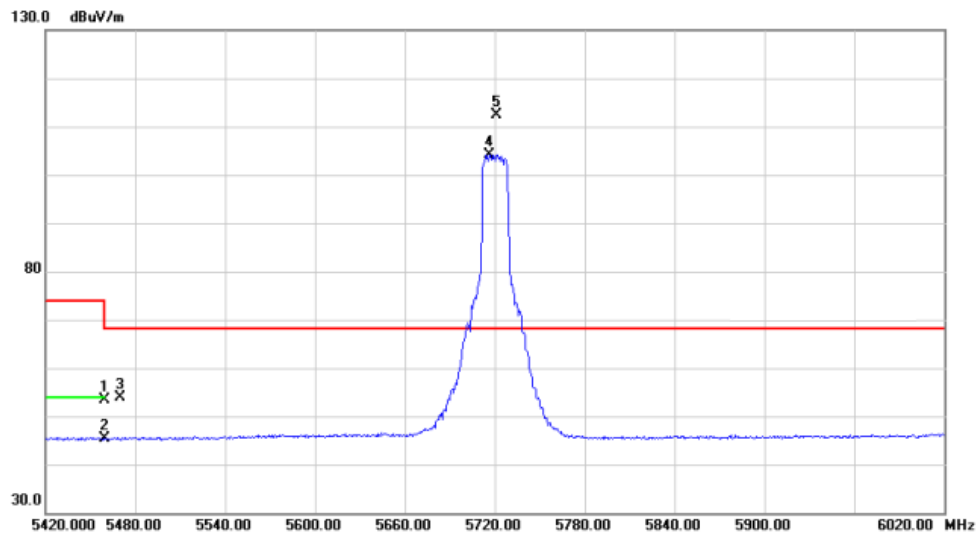


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		11399.800	52.29	-0.78	51.51	74.00	-22.49	peak	116	165
2	*	11400.420	42.06	-0.78	41.28	54.00	-12.72	AVG	116	165

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5720 MHz	Polarization	Vertical
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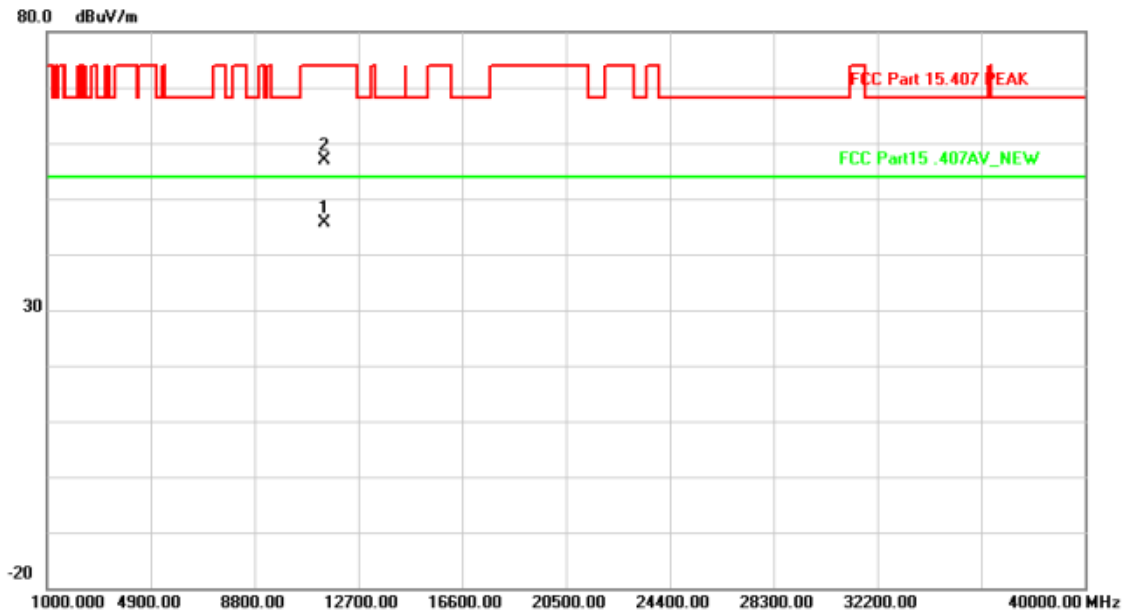
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		5460.000	12.52	40.80	53.32	74.00	-20.68	peak	162	247
2		5460.000	4.50	40.80	45.30	54.00	-8.70	AVG		
3		5470.000	13.11	40.82	53.93	68.20	-14.27	peak	162	247
4	X	5716.400	62.73	41.41	104.14	68.20	35.94	AVG		No Limit
5	*	5721.200	70.84	41.43	112.27	68.20	44.07	peak	162	247

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX A Mode 5720 MHz	Polarization	Vertical
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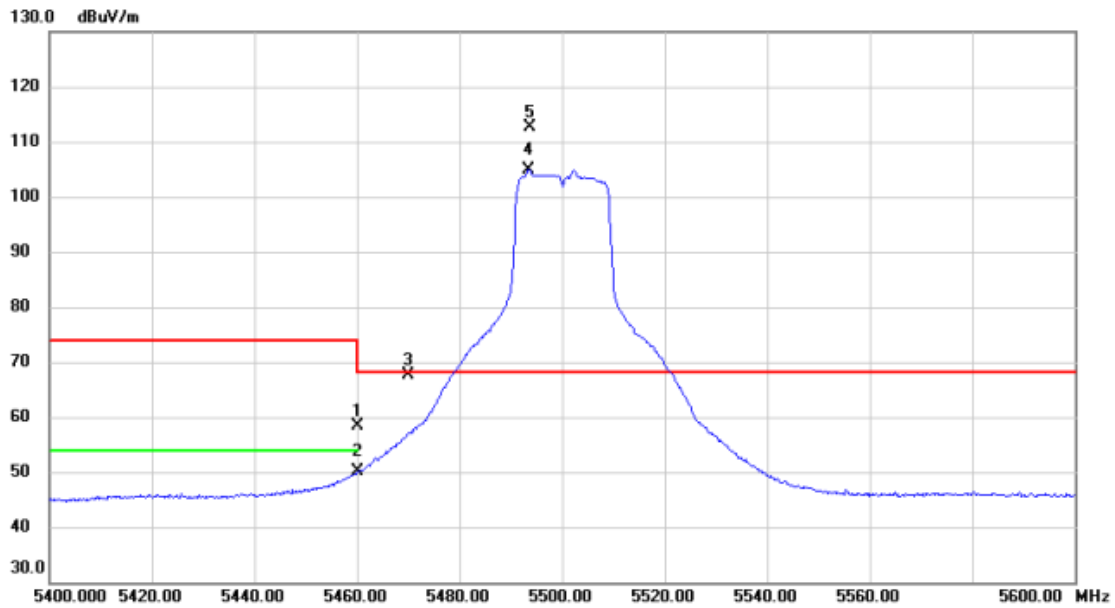


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	11442.900	46.35	-0.78	45.57	54.00	-8.43	AVG	155	223
2		11443.040	57.55	-0.78	56.77	74.00	-17.23	peak	155	223

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5500 MHz	Polarization	Vertical
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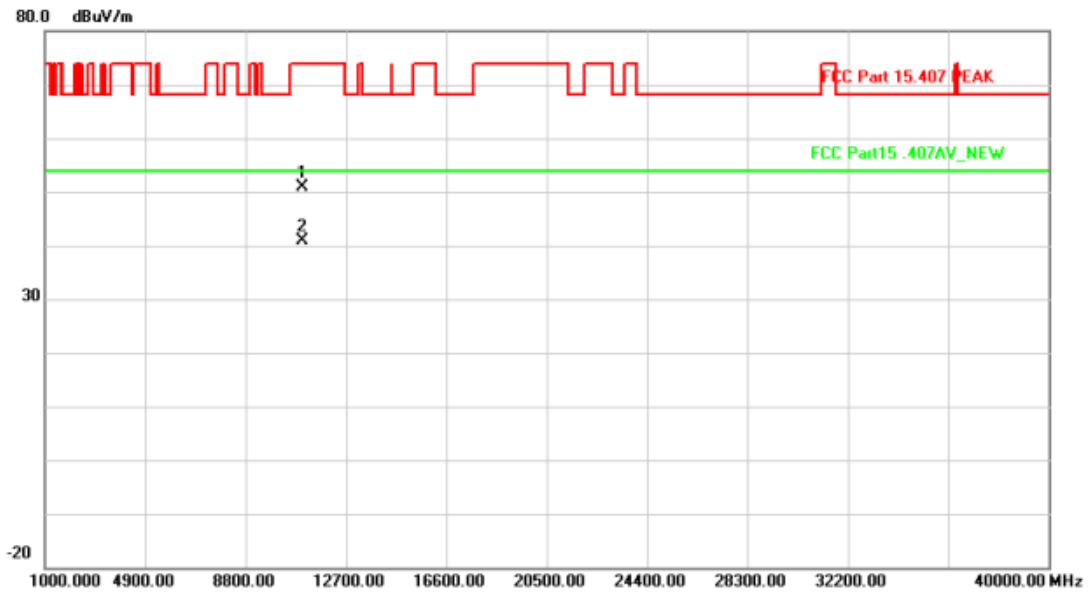
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5460.000	17.59	40.80	58.39	74.00	-15.61	peak	
2		5460.000	9.28	40.80	50.08	54.00	-3.92	AVG	
3		5470.000	26.87	40.82	67.69	68.20	-0.51	peak	
4	X	5493.400	64.11	40.87	104.98	68.20	36.78	AVG	No Limit
5	*	5493.800	71.67	40.87	112.54	68.20	44.34	peak	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5500 MHz	Polarization	Vertical
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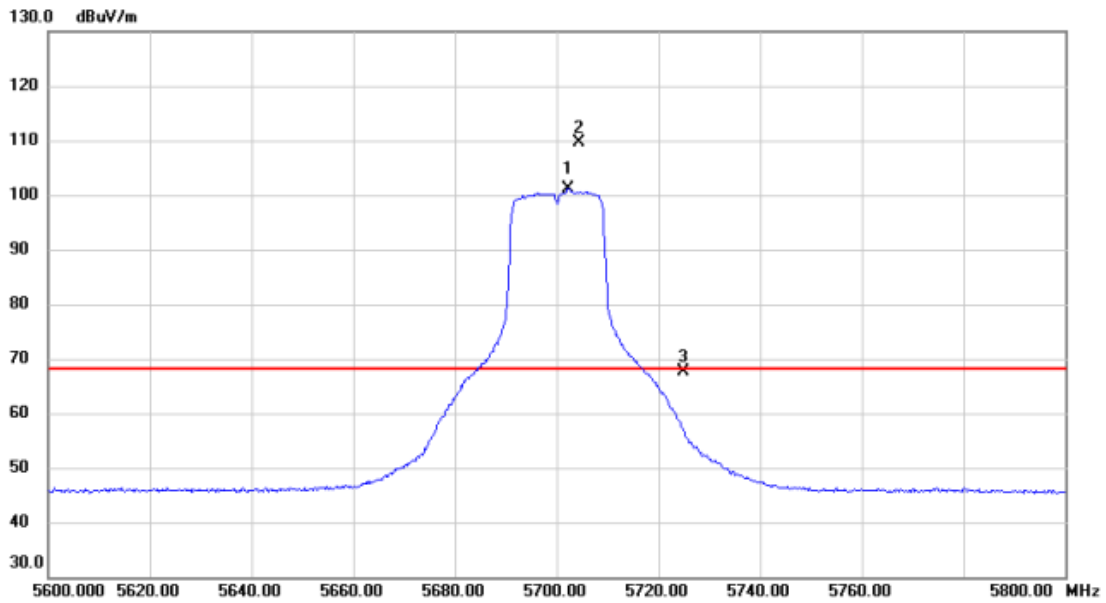


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		11001.320	51.68	-0.83	50.85	74.00	-23.15	peak	165	
2	*	11001.490	41.82	-0.83	40.99	54.00	-13.01	AVG	165	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5700 MHz	Polarization	Vertical
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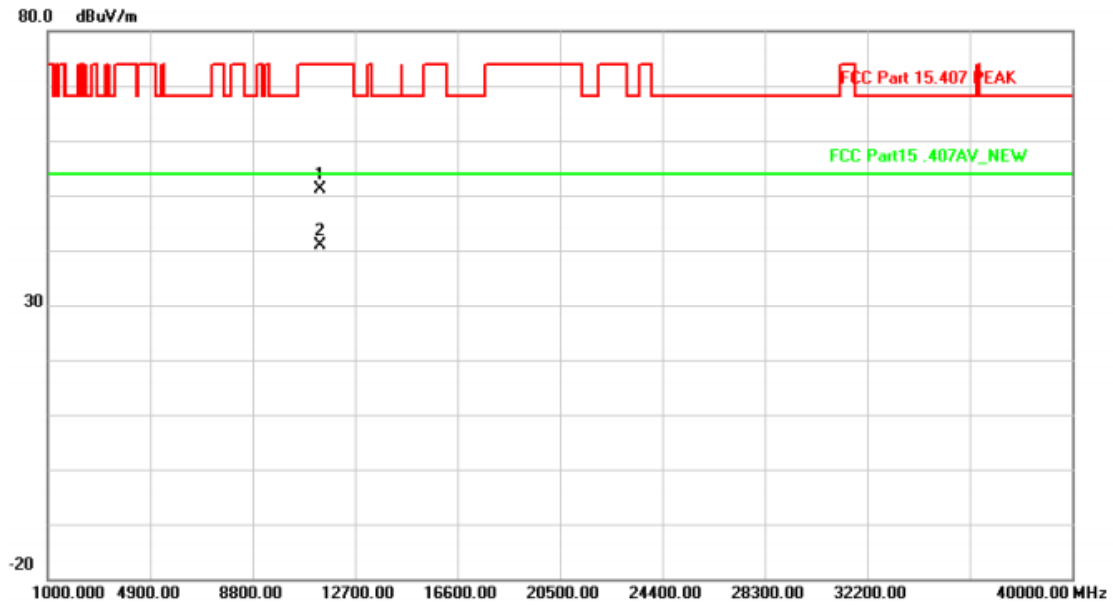


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5702.400	59.69	41.37	101.06	68.20	32.86	AVG	No Limit
2	*	5704.400	68.27	41.38	109.65	68.20	41.45	peak	No Limit
3		5725.000	26.25	41.43	67.68	68.20	-0.52	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5700 MHz	Polarization	Vertical
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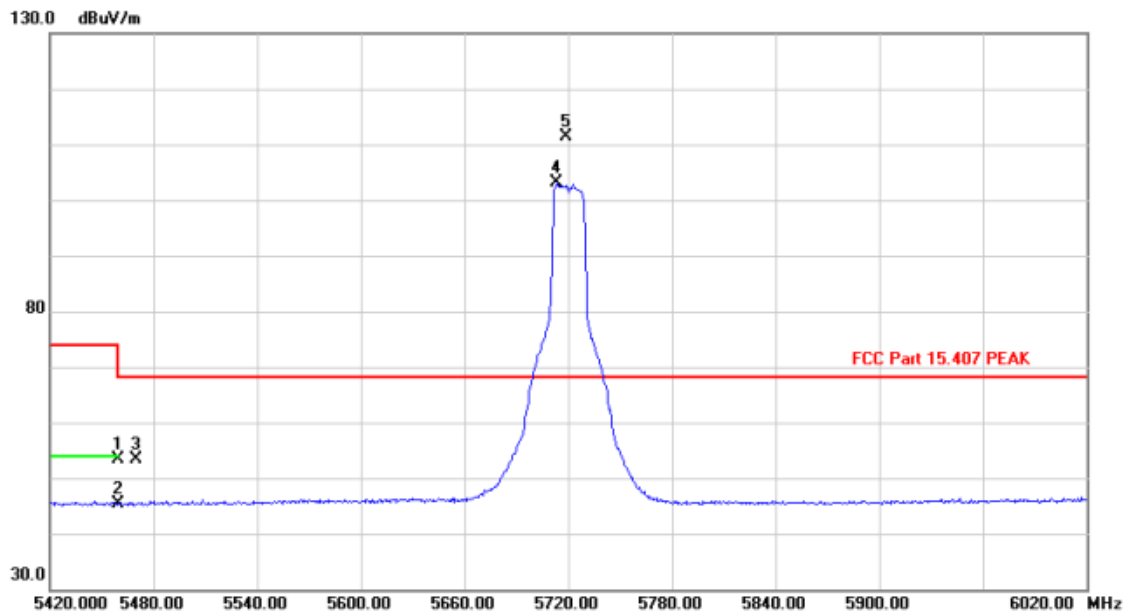


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		11396.250	51.97	-0.78	51.19	74.00	-22.81	peak	160	161
2 *		11398.620	41.63	-0.78	40.85	54.00	-13.15	AVG	160	161

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5720 MHz	Polarization	Vertical
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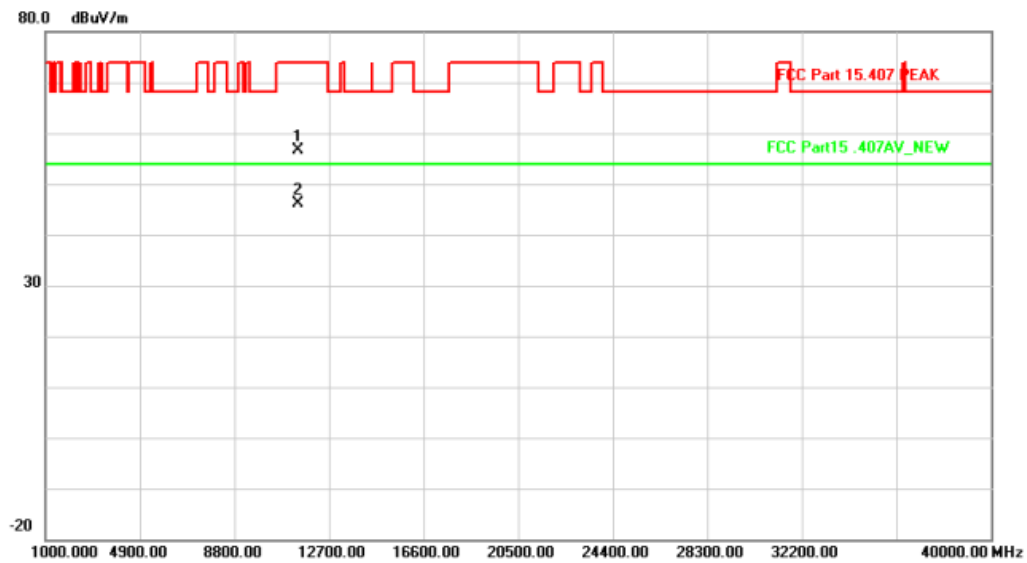


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		5460.000	12.69	40.80	53.49	74.00	-20.51	peak	162	246
2		5460.000	4.55	40.80	45.35	54.00	-8.65	AVG		
3		5470.000	12.66	40.82	53.48	68.20	-14.72	peak	162	246
4	X	5713.400	61.84	41.41	103.25	68.20	35.05	AVG		No Limit
5	*	5718.800	69.90	41.41	111.31	68.20	43.11	peak	162	246

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT20) Mode 5720 MHz	Polarization	Vertical
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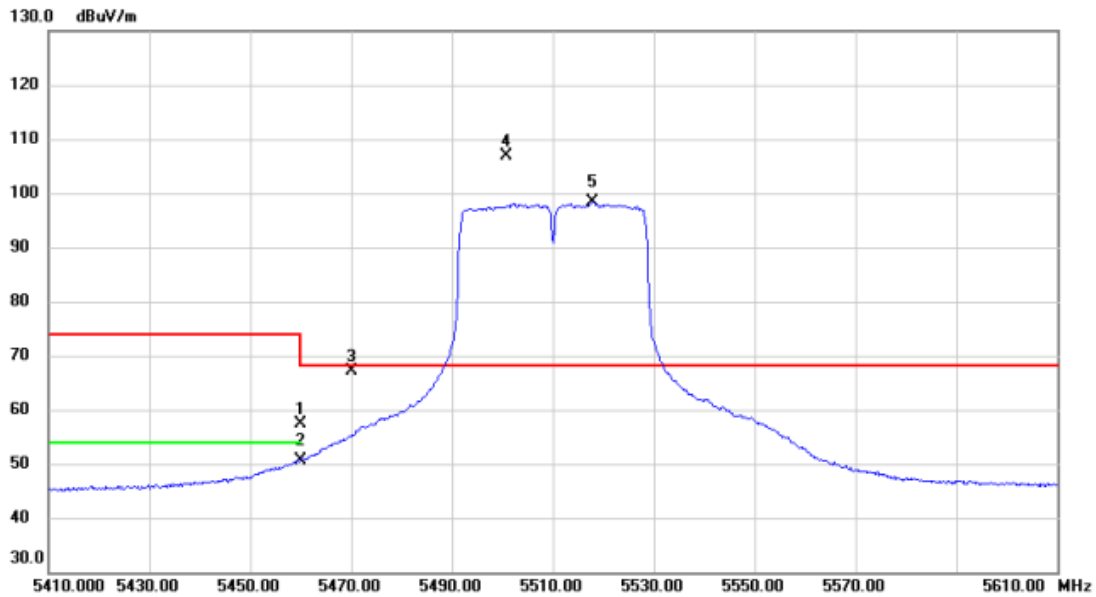


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		11430.460	57.43	-0.77	56.66	74.00	-17.34	peak	155	223
2	*	11437.020	46.86	-0.77	46.09	54.00	-7.91	AVG	155	223

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT40) Mode 5510 MHz	Polarization	Vertical
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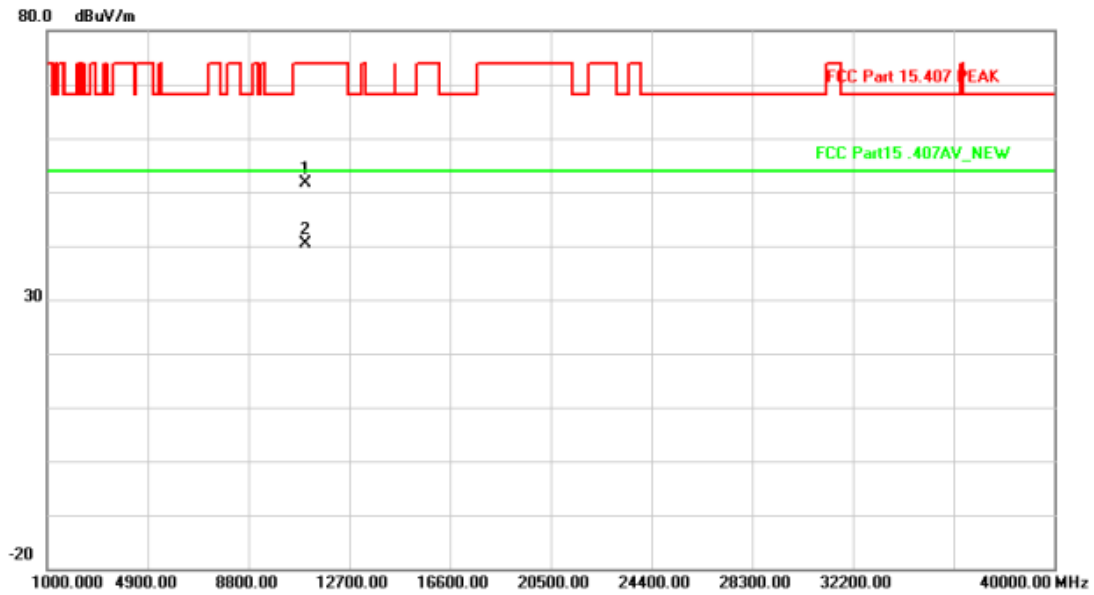
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5460.000	16.49	40.80	57.29	74.00	-16.71	peak	
2		5460.000	9.78	40.80	50.58	54.00	-3.42	AVG	
3		5470.000	26.26	40.82	67.08	68.20	-1.12	peak	
4	*	5500.800	65.98	40.88	106.86	68.20	38.66	peak	No Limit
5	X	5517.800	57.40	40.92	98.32	68.20	30.12	AVG	No Limit

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT40) Mode 5510 MHz	Polarization	Vertical
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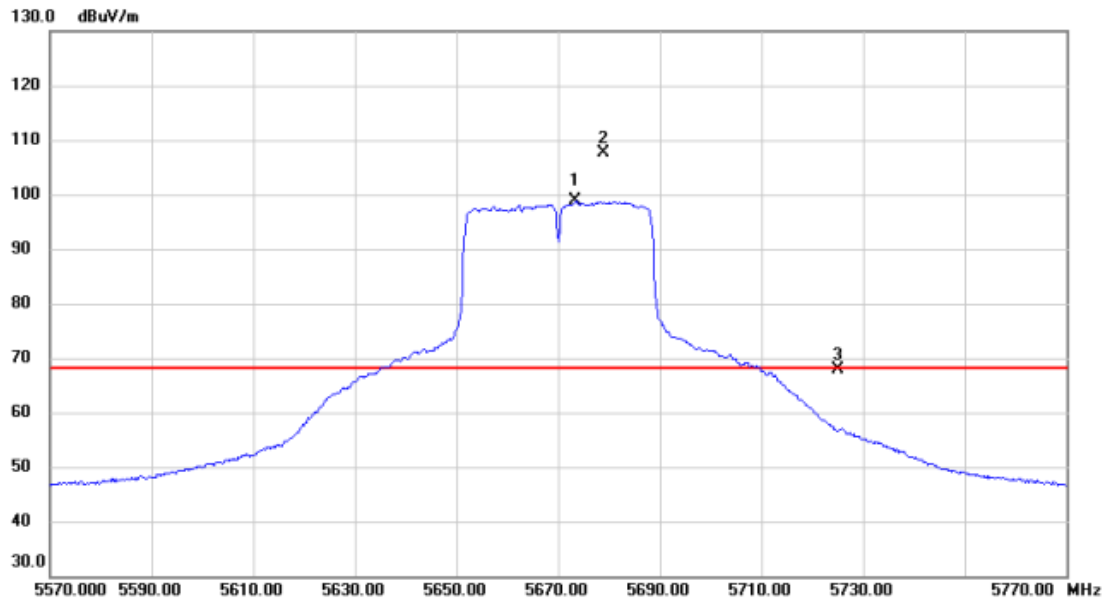


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		11016.620	52.37	-0.83	51.54	74.00	-22.46	peak	116	165
2	*	11022.720	41.19	-0.82	40.37	54.00	-13.63	AVG	116	165

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT40) Mode 5670 MHz	Polarization	Vertical
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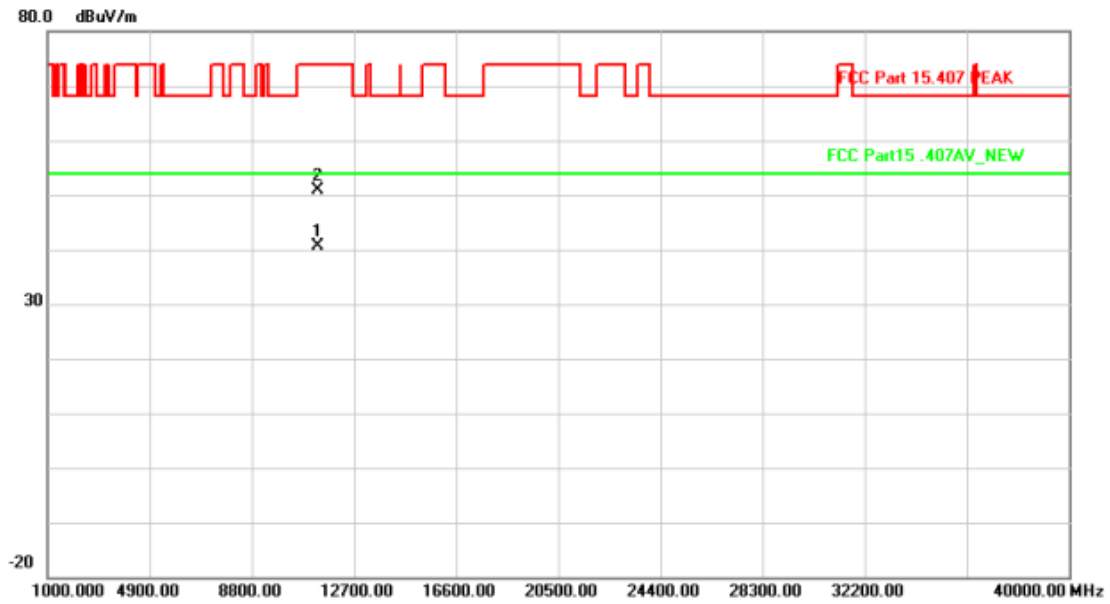


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5673.400	57.54	41.31	98.85	68.20	30.65	AVG	No Limit
2	*	5679.000	66.43	41.31	107.74	68.20	39.54	peak	No Limit
3		5725.000	26.51	41.43	67.94	68.20	-0.26	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT40) Mode 5670 MHz	Polarization	Vertical
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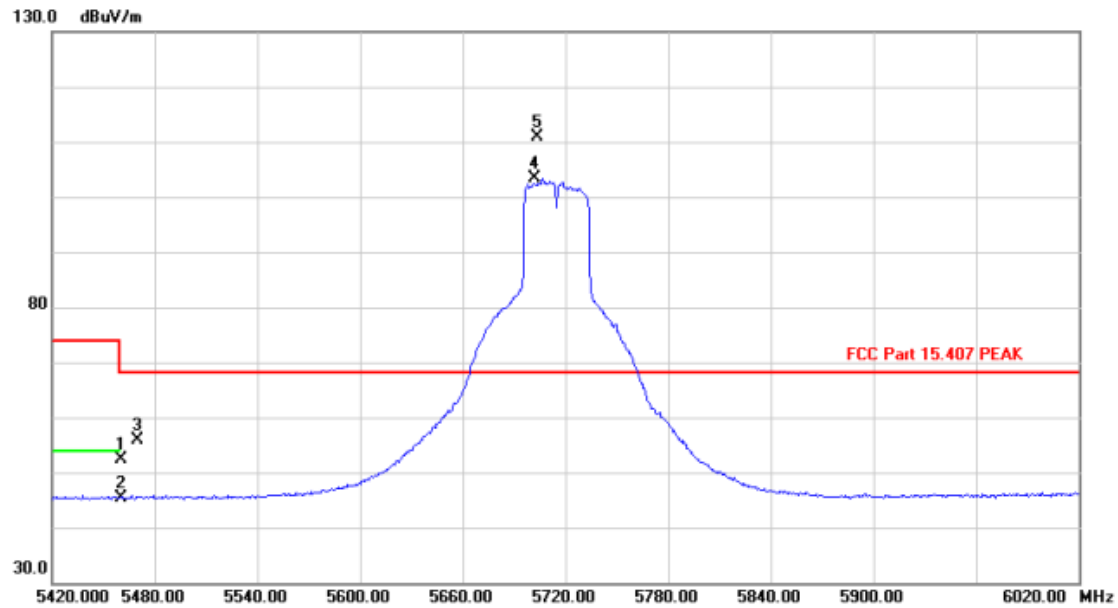


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	11336.460	41.47	-0.79	40.68	54.00	-13.32	AVG	116	165
2		11342.430	51.79	-0.79	51.00	74.00	-23.00	peak	116	165

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	UNII-2C_TX AC(VHT40) Mode 5710 MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		5460.000	11.49	40.80	52.29	74.00	-21.71	peak	162	246
2		5460.000	4.64	40.80	45.44	54.00	-8.56	AVG		
3		5470.000	15.07	40.82	55.89	68.20	-12.31	peak	162	246
4	X	5702.200	62.05	41.37	103.42	68.20	35.22	AVG		No Limit
5	*	5704.000	69.59	41.37	110.96	68.20	42.76	peak	162	246

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.