

Product Name: AX5700 Tri-Band Gigabit Wi-Fi 6E Router	Report No: FCC022022-5924RF2
Product Model: RX27 Pro; TX27 Pro	Security Classification: Open
Version: V1.0	Total Page: 259

TIRT Testing Report



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FCC Radio Test Report

FCC ID: V7TRX27P

This report concerns: **Original Grant**

Project No. : 022022-5924
Equipment : AX5700 Tri-Band Gigabit Wi-Fi 6E Router
Brand Name : Tenda
Test Model : RX27 Pro
Series Model : TX27 Pro
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
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Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD.
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Date of Receipt : Aug. 12, 2022
Date of Test : Aug. 12, 2022~Sep. 30, 2022
Issued Date : Dec. 23, 2022
Report Version : V1.0
Test Sample : 20220814019908
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.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022022-5924RF2	V1.0	Original Report.	Dec. 23, 2022	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	APPENDIX H	PASS	-----
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

1.1 TEST FACILITY

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
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration Number:	825524
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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	±142.12kHz
RF power conducted	±0.74dB
RF power radiated	±3.25dB
Spurious emissions, conducted (9kHz~40GHz)	±1.78dB
Spurious emissions, radiated (9kHz~30MHz)	±2.8dB
Spurious emissions, radiated (30MHz~1GHz)	±4.6dB
Spurious emissions, radiated (1GHz ~ 18GHz)	±4.9dB
Spurious emissions, radiated (18GHz ~ 40GHz)	±5.54dB
Conduction Emissions(150kHz~30MHz)	±3.1dB
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	22°C	55%	AC 120V/60Hz	Stone Tang
Radiated Emissions-9kHz to 30MHz	22°C	55%	AC 120V/60Hz	Stone Tang
Radiated Emissions-30MHz to 1000MHz	22°C	54%	AC 120V/60Hz	Stone Tang
Radiated Emissions-Above 1000 MHz	23°C	53%	AC 120V/60Hz	Stone Tang
Bandwidth	23-24°C	52-60%	AC 120V/60Hz	Stone Tang
Maximum Output Power	23.4°C	63.5%	AC 120V/60Hz	Stone Tang
Power Spectral Density	23-24°C	52-60%	AC 120V/60Hz	Stone Tang
Frequency Stability	23-24°C	52-60%	AC 120V/60Hz	Stone Tang

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX5700 Tri-Band Gigabit Wi-Fi 6E Router
Brand Name	Tenda
Test Model	RX27 Pro
Series Model	TX27 Pro
Model Difference(s)	Only differ in model name.
Power Source	DC voltage supplied from AC adapter. Model: BN026-A24012U
Power Rating	I/P: 100-240V~ 50/60Hz 0.7A O/P: 12.0V  2.0A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 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 1733.4 Mbps IEEE 802.11ax: up to 2402 Mbps
Maximum Output Power _UNII-1 Non Beamforming	IEEE 802.11ax40: 25.35 dBm (0.3428 W)
Maximum Output Power _UNII-2A Non Beamforming	IEEE 802.11ac80: 20.90 dBm (0.1230 W)
Maximum Output Power _UNII-3 Non Beamforming	IEEE 802.11ax40: 28.85 dBm (0.7674 W)
Maximum Output Power _UNII-1 Beamforming	IEEE 802.11ax40: 25.15 dBm (0.3273 W)
Maximum Output Power _UNII-2A Beamforming	IEEE 802.11ac80: 20.61 dBm (0.1151 W)
Maximum Output Power _UNII-3 Beamforming	IEEE 802.11ax20: 26.97 dBm (0.4977 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-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				

IEEE 802.11ac(VHT160) IEEE 802.11ax(HE160)	
Channel	Frequency (MHz)
50	5250

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tenda	RX27V1.0	Dipole	N/A	6.02
2	Tenda	RX27V1.0	Dipole	N/A	6.02

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=6.02. For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$. So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 6.02 + 10\log(2/1)\text{dBi} = 9.03$. Then, the UNII-1 power spectral density limit is $17 - (9.03 - 6) = 13.97$, the UNII-2A power spectral density limit is $11 - (9.03 - 6) = 7.97$, the UNII-3 power spectral density limit is $30 - (9.03 - 6) = 26.97$.
- 2) Beamforming Gain: 3 dB. Directional gain=6.02+3=9.02 dBi. Then, the UNII-1 and UNII-3 power limit is $30 - (9.02 - 6) = 26.98$, the UNII-2A power limit is $23.98 - (9.02 - 6) = 20.96$.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

Operating Mode	TX Mode	1TX	2TX
		IEEE 802.11a	V (Ant. 1)
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 802.11ac(VHT160)	-	-	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)
IEEE 802.11ax(HE160)	-	-	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 N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AC(VHT160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 32	TX A Mode Channel 149/157/165 (UNII-3)
Mode 33	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 34	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 35	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 36	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 37	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 38	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 39	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 40	TX AX(HE80) Mode Channel 155 (UNII-3)
Mode 41	TX AX(HE40) Mode Channel 159 (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 41	TX AX(HE40) Mode Channel 159 (UNII-3)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 41	TX AX(HE40) Mode Channel 159 (UNII-3)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AC(VHT160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 32	TX A Mode Channel 149/157/165 (UNII-3)
Mode 35	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 36	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 37	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 38	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 39	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 40	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 N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX AC(VHT160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 20	TX AX(HE160) Mode Channel 50 (UNII-1+UNII-2A)
Mode 32	TX A Mode Channel 149/157/165 (UNII-3)
Mode 33	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 34	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 35	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 36	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 37	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 38	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 39	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 40	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 AX(HE40) Mode Channel 159 (UNII-3) 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) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, IEEE 802.11ac(VHT160) mode, IEEE 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode, IEEE 802.11ax(HE80) mode and IEEE 802.11ax(HE160) mode, only the worst cases are documented for other test items.
- (5) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (6) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-1			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	85	95	95
IEEE 802.11n(HT20)	75	83	83
IEEE 802.11ac(VHT20)	77	84	84
IEEE 802.11ax(HE20)	77	84	84
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	70	91	
IEEE 802.11ac(VHT40)	70	92	
IEEE 802.11ax(HE40)	70	94	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	72		
IEEE 802.11ax(HE80)	72		

UNII-2A			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	68	68	68
IEEE 802.11n(HT20)	57	57	58
IEEE 802.11ac(VHT20)	58	58	58
IEEE 802.11ax(HE20)	57	58	58
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	67	67	
IEEE 802.11ac(VHT40)	70	70	
IEEE 802.11ax(HE40)	69	69	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	74		
IEEE 802.11ax(HE80)	72		

UNII-1+UNII-2A	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	5250
IEEE 802.11ac(VHT160)	60
IEEE 802.11ax(HE160)	58

UNII-3			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	105	105	105
IEEE 802.11n(HT20)	102	102	101
IEEE 802.11ac(VHT20)	103	103	102
IEEE 802.11ax(HE20)	103	103	102
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	105	105	
IEEE 802.11ac(VHT40)	106	106	
IEEE 802.11ax(HE40)	100	108	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	74		
IEEE 802.11ax(HE80)	72		

Beamforming

UNII-1			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5180	5200	5240
IEEE 802.11n(HT20)	73	80	80
IEEE 802.11ac(VHT20)	76	83	83
IEEE 802.11ax(HE20)	76	83	83
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	68	89	
IEEE 802.11ac(VHT40)	69	91	
IEEE 802.11ax(HE40)	69	93	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	71		
IEEE 802.11ax(HE80)	71		

UNII-2A			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5260	5300	5320
IEEE 802.11n(HT20)	54	53	55
IEEE 802.11ac(VHT20)	57	57	57
IEEE 802.11ax(HE20)	56	57	57
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	65	65	
IEEE 802.11ac(VHT40)	69	69	
IEEE 802.11ax(HE40)	68	68	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	73		
IEEE 802.11ax(HE80)	71		

UNII-1+UNII-2A	
Test Software Version	accessMTool_REL_3_2_1_3
Frequency (MHz)	5250
IEEE 802.11ac(VHT160)	59
IEEE 802.11ax(HE160)	57

UNII-3			
Test Software Version	accessMTool_REL_3_2_1_3		
Frequency (MHz)	5745	5785	5825
IEEE 802.11n(HT20)	100	99	97
IEEE 802.11ac(VHT20)	100	102	101
IEEE 802.11ax(HE20)	99	100	101
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	99	100	
IEEE 802.11ac(VHT40)	100	100	
IEEE 802.11ax(HE40)	99	100	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	73		
IEEE 802.11ax(HE80)	71		

2.4 DUTY CYCLE

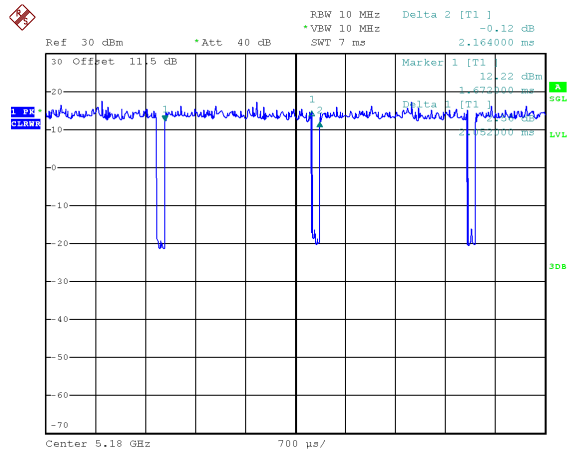
If duty cycle is $\geq 98\%$, duty factor is not required.

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.

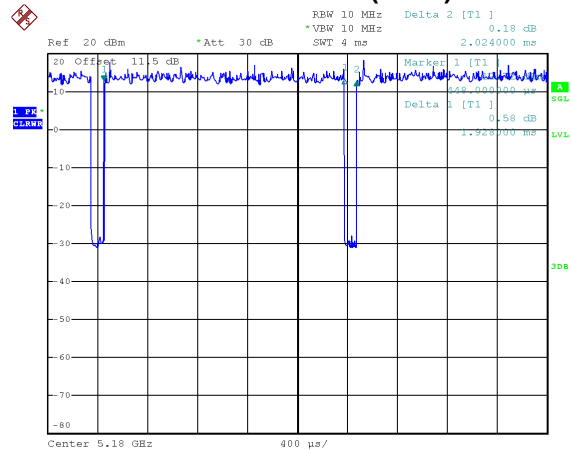
IEEE 802.11a



Date: 30.AUG.2022 13:55:04

Duty cycle = $2.052 \text{ ms} / 2.164 \text{ ms} = 94.82\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.23$

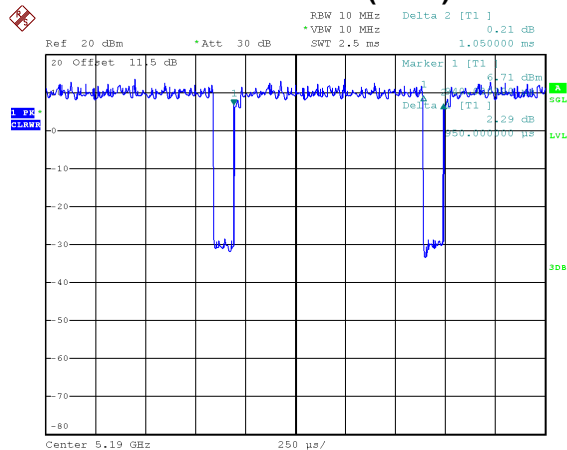
IEEE 802.11n(HT20)



Date: 14.SEP.2022 16:25:05

Duty cycle = $1.928 \text{ ms} / 2.024 \text{ ms} = 95.26\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.21$

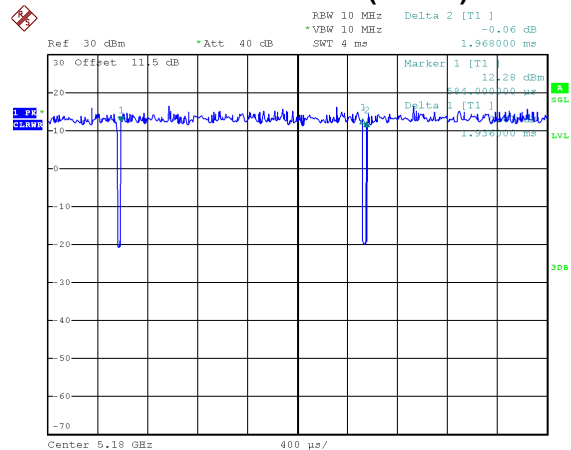
IEEE 802.11n(HT40)



Date: 14.SEP.2022 16:25:35

Duty cycle = $0.950 \text{ ms} / 1.050 \text{ ms} = 90.48\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.43$

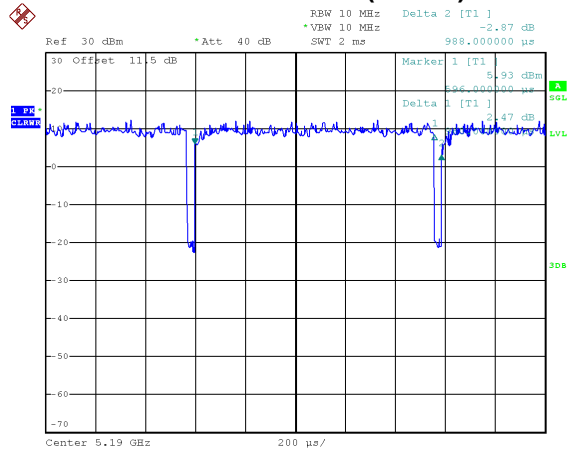
IEEE 802.11ac(VHT20)



Date: 30.AUG.2022 13:57:09

Duty cycle = $1.936 \text{ ms} / 1.968 \text{ ms} = 98.37\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.00$

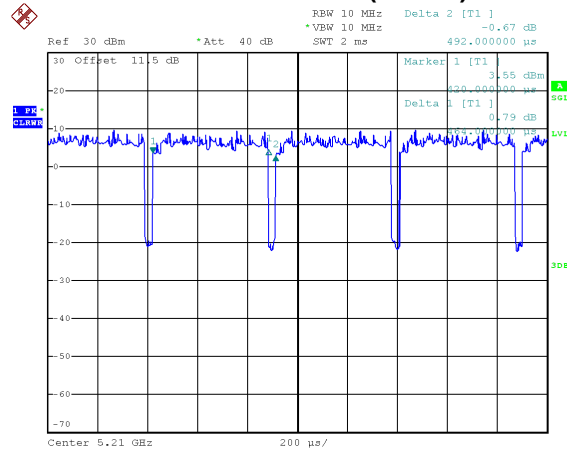
IEEE 802.11ac(VHT40)



Date: 30.AUG.2022 14:08:14

Duty cycle = 0.960 ms / 0.988 ms = 97.17%
 Duty Factor = 10 log(1 / Duty cycle) = 0.12

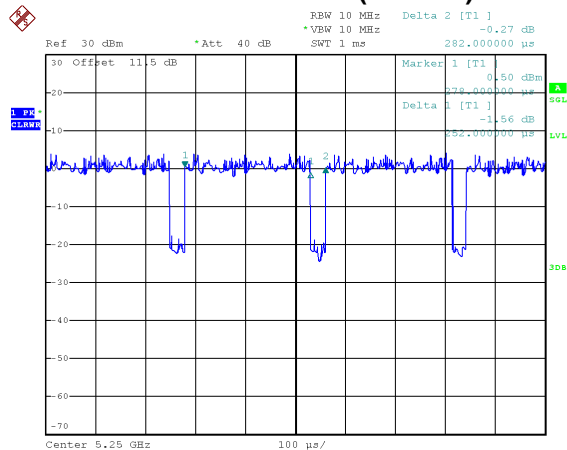
IEEE 802.11ac(VHT80)



Date: 30.AUG.2022 14:10:47

Duty cycle = 0.464 ms / 0.492 ms = 94.31%
 Duty Factor = 10 log(1 / Duty cycle) = 0.25

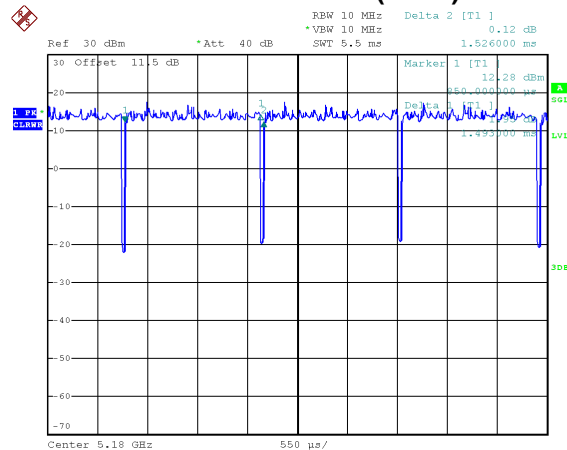
IEEE 802.11ac(VHT160)



Date: 30.AUG.2022 14:12:49

Duty cycle = 0.252 ms / 0.282 ms = 89.36%
 Duty Factor = 10 log(1 / Duty cycle) = 0.49

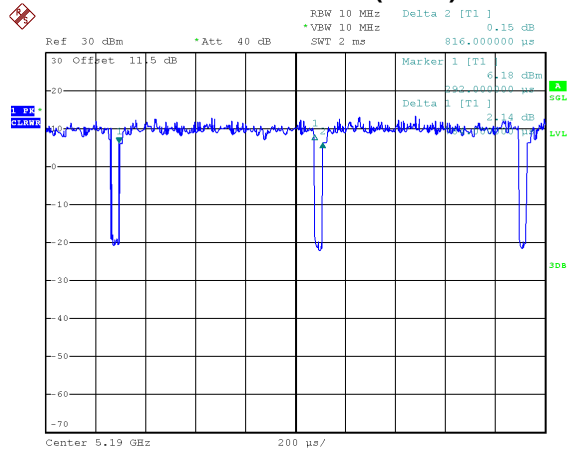
IEEE 802.11ax(HE20)



Date: 30.AUG.2022 14:04:53

Duty cycle = 1.493 ms / 1.526 ms = 97.84%
 Duty Factor = 10 log(1 / Duty cycle) = 0.09

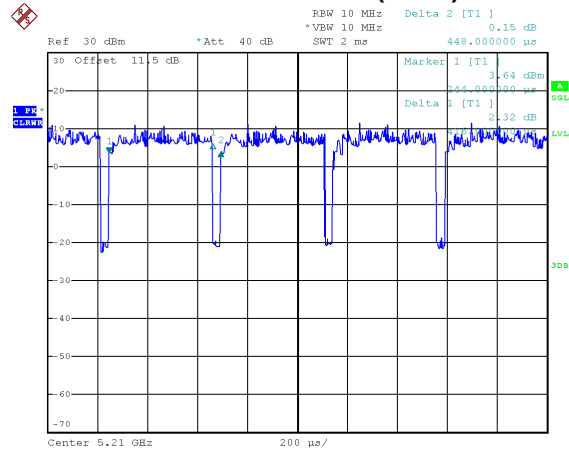
IEEE 802.11ax(HE40)



Date: 30.AUG.2022 14:09:24

Duty cycle = 0.784 ms / 0.816 ms = 96.08%
 Duty Factor = 10 log(1 / Duty cycle) = 0.17

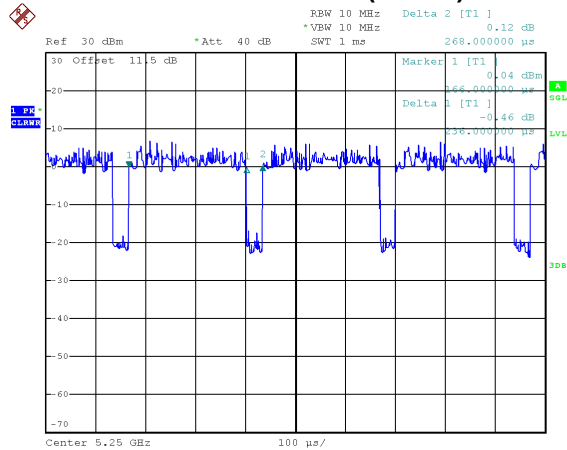
IEEE 802.11ax(HE80)



Date: 30.AUG.2022 14:11:42

Duty cycle = 0.416 ms / 0.448 ms = 92.86%
 Duty Factor = 10 log(1 / Duty cycle) = 0.32

IEEE 802.11ax(HE160)



Date: 30.AUG.2022 14:13:57

Duty cycle = 0.236 ms / 0.268 ms = 88.06%
 Duty Factor = 10 log(1 / Duty cycle) = 0.55

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 487 Hz (Duty cycle < 98%).

For IEEE 802.11n(HT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 519 Hz (Duty cycle < 98%).

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1053 Hz (Duty cycle < 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 1 kHz (Duty cycle \geq 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 1042 Hz (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 2155 Hz (Duty cycle < 98%).

For IEEE 802.11ac(VHT160):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3968 Hz (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 670 Hz (Duty cycle < 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 1276 Hz (Duty cycle < 98%).

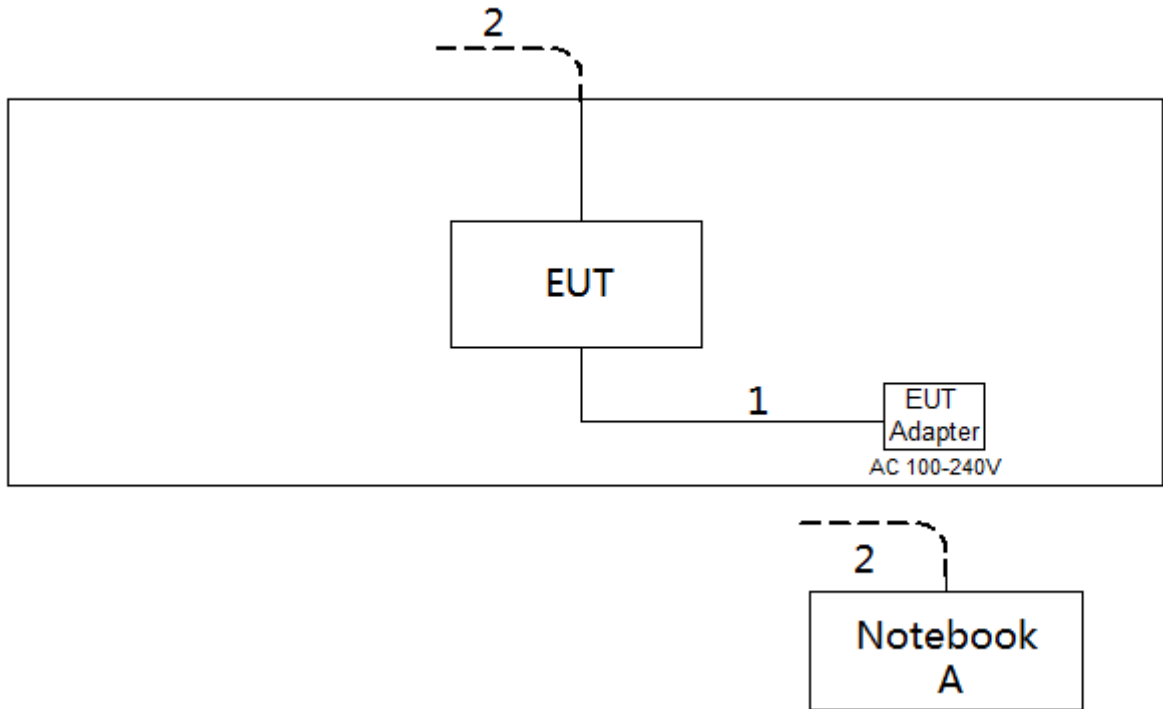
For IEEE 802.11ax(HE80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2404 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE160):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4237 Hz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

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.

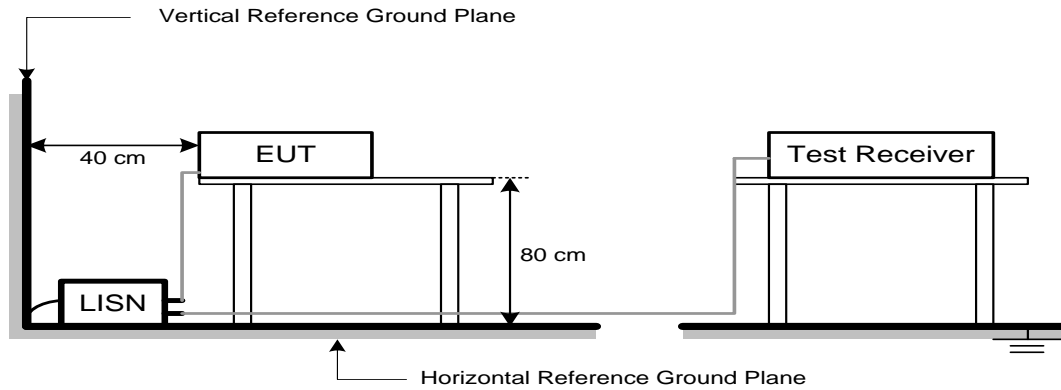
The following table is the setting of the receiver:

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
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

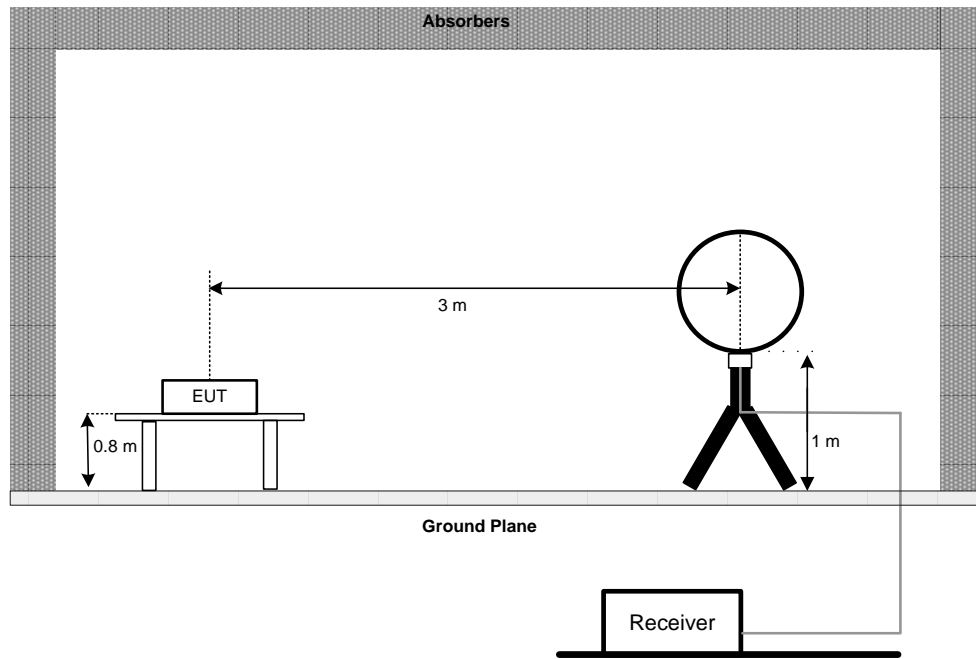
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

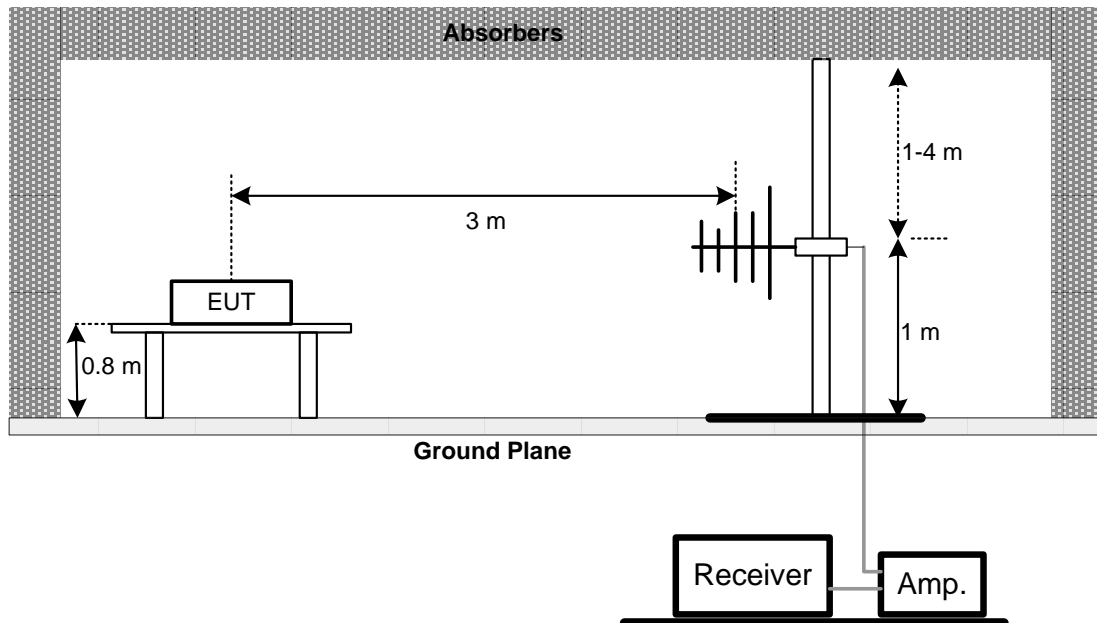
No deviation.

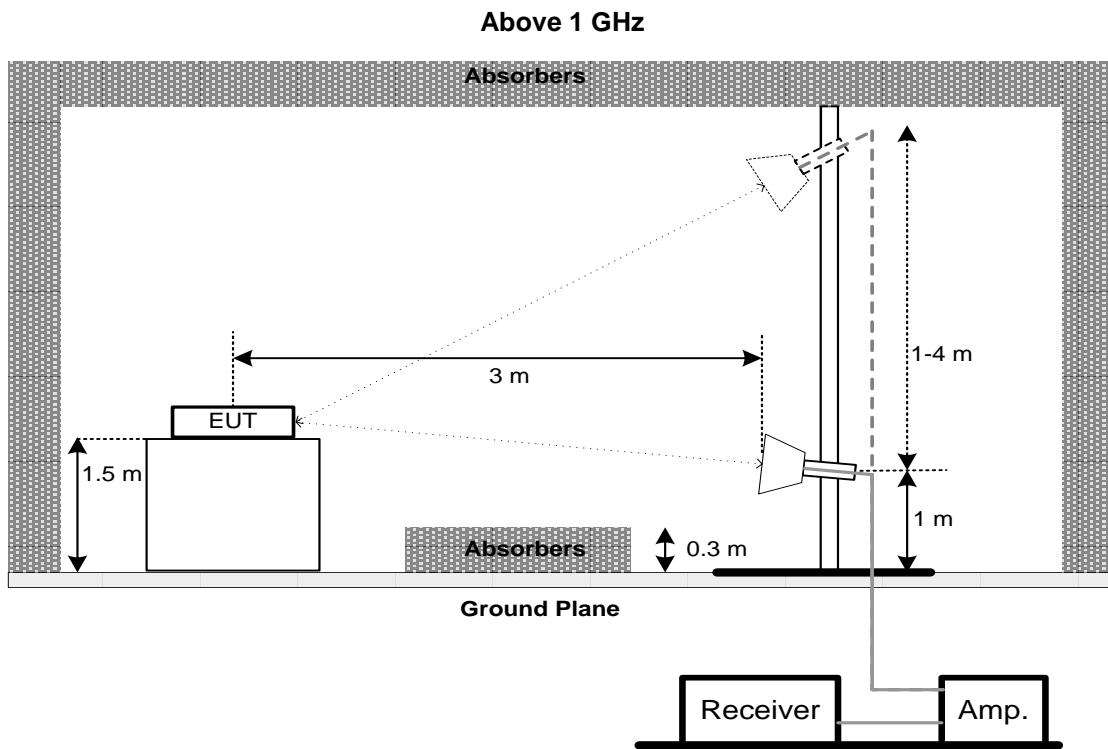
4.4 TEST SETUP

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)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
FCC 15.407(e)	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:

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
		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 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.

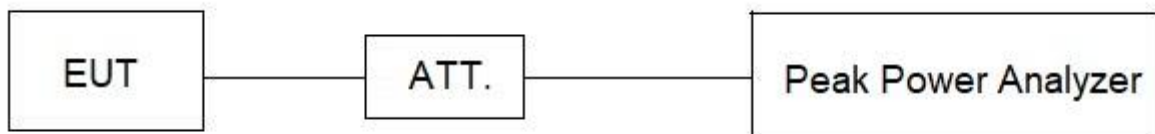
6.2 TEST PROCEDURE

- 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
		30 dBm/500 kHz	5725-5850

7.2 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:

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 $13 + 7 = 20$ 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. FREQUENCY STABILITY

8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5725-5850

8.2 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:

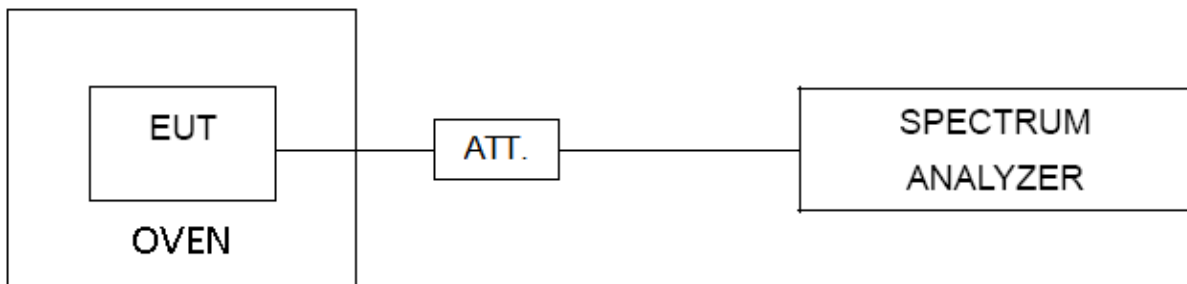
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~40°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. 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	Log periodic antenna	Schwarzbeck	VULB 9163	VULB 9163-361	2022/11/20
10	Loop Antenna	Schwarzbeck	FMZB1519 B	00029	2023/07/03
11	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1201	2022/11/20
12	Horn Antenna	Schwarzbeck	BBHA 9170	9170#685	2022/11/20
13	Preamplifier	Schwarzbeck	BBV9745	#78	2022/11/09
14	Preamplifier	Schwarzbeck	BBV9721	9721-019	2022/11/09
15	Preamplifier	/	LNA 0920N	2014	2023/05/03
16	Preamplifier	Schwarzbeck	BBV 9718	284	2023/05/03
17	Preamplifier	RF System/UK	TRLA-0101 80G50B	22062101	2023/07/20
18	ECSI RF IN RF Cable	Rohde&Schwarz	AP-X1	N/A	2022/11/09
19	ECSI RF IN RF Cable	HAOXUN	Z-108	N/A	2022/11/09
20	RF Cable	ZDECL	ZT40-2.92J -2.92J-6M	18124358	2023/07/20
21	Spectrum Analyzer	Agilent	N9010A	MY51440158	2022/11/09
22	Spectrum Analyzer	Agilent	N9010A	MY52221119	2022/11/09
23	EMI Receiver	Rohde&Schwarz	ESU	100184	2023/07/20
24	Temp&Humidity Recorder	Anymetre	JR900	N/A	2022/11/03
25	Power Collection Unit	Tonscend	JS0806-2	188060134	2023/08/21
26	Temp&Humidity Chamber	ETOMA	NTH1100-30A	16080628	2022/11/03
27	Filter	STI	STI15-984 5	N/A	N/A
28	Filter	STI	5.1G	N/A	N/A
29	Filter	STI	STI15-984 5	N/A	N/A
30	Testing Software	EZ-EMC	TW-03A2	N/A	N/A

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

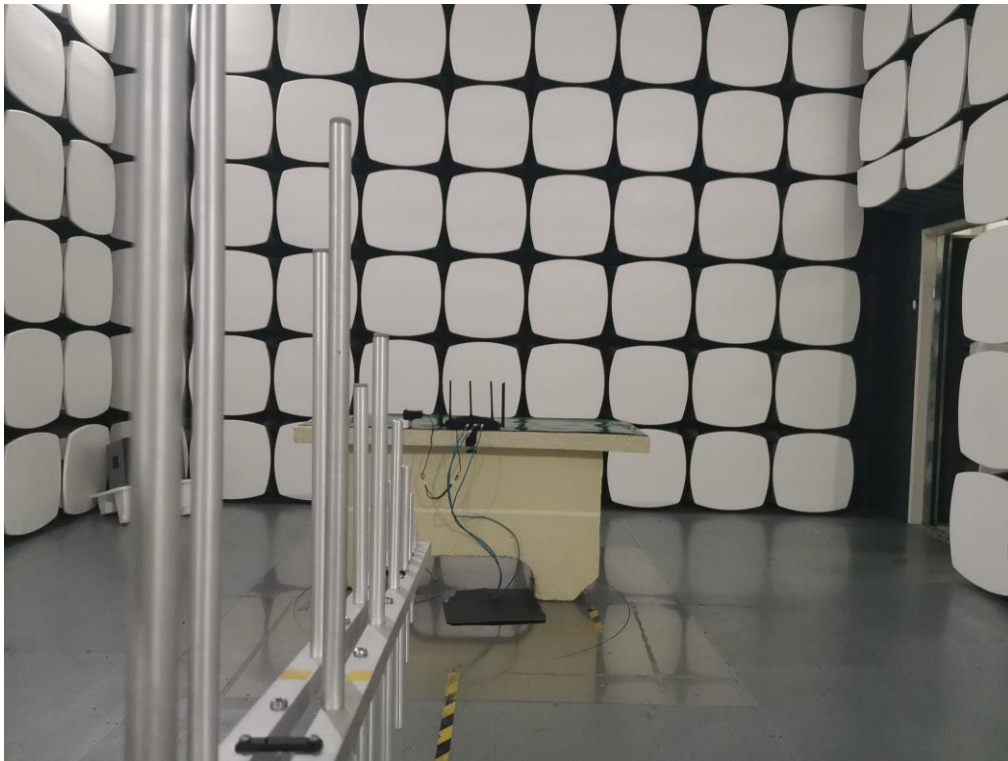
"**" calibration period of equipment list is three year.

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

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

Radiated Emissions Test Photos

30 MHz to 1 GHz



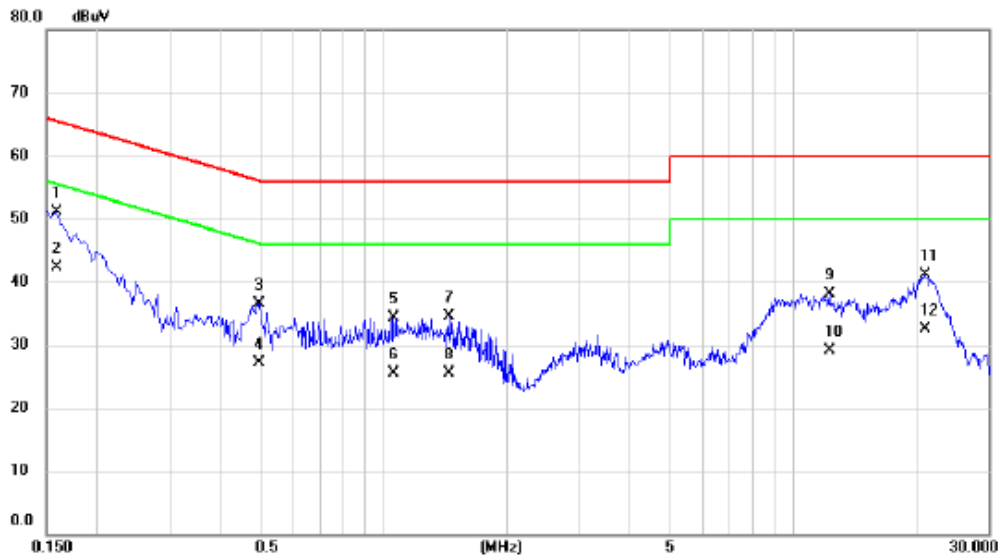
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AX(HE40) Mode Channel 159 (UNII-3)	Phase	Line
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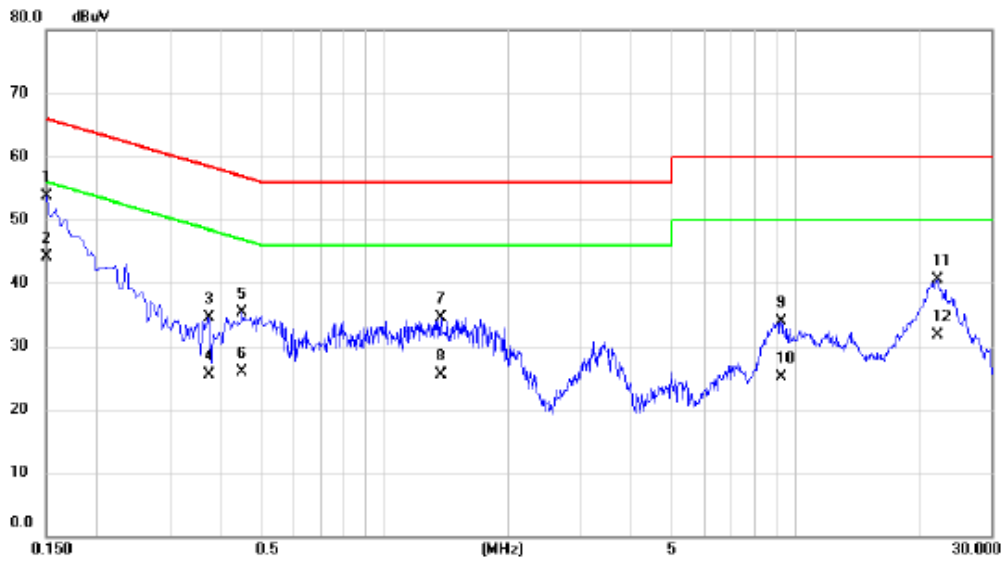


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1590	31.67	19.51	51.18	65.52	-14.34	QP	
2 *	0.1590	22.74	19.51	42.25	55.52	-13.27	AVG	
3	0.4965	16.99	19.53	36.52	56.06	-19.54	QP	
4	0.4965	7.63	19.53	27.16	46.06	-18.90	AVG	
5	1.0590	14.62	19.67	34.29	56.00	-21.71	QP	
6	1.0590	5.85	19.67	25.52	46.00	-20.48	AVG	
7	1.4415	14.68	19.79	34.47	56.00	-21.53	QP	
8	1.4415	5.65	19.79	25.44	46.00	-20.56	AVG	
9	12.2775	17.61	20.55	38.16	60.00	-21.84	QP	
10	12.2775	8.49	20.55	29.04	50.00	-20.96	AVG	
11	20.9670	20.15	20.88	41.03	60.00	-18.97	QP	
12	20.9670	11.63	20.88	32.51	50.00	-17.49	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 AX(HE40) Mode Channel 159 (UNII-3)	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		0.1500	33.92	19.70	53.62	66.00	-12.38	QP	
2	*	0.1500	24.50	19.70	44.20	56.00	-11.80	AVG	
3		0.3750	14.74	19.70	34.44	58.39	-23.95	QP	
4		0.3750	5.77	19.70	25.47	48.39	-22.92	AVG	
5		0.4515	15.62	19.73	35.35	56.85	-21.50	QP	
6		0.4515	6.26	19.73	25.99	46.85	-20.86	AVG	
7		1.3740	14.45	20.01	34.46	56.00	-21.54	QP	
8		1.3740	5.47	20.01	25.48	46.00	-20.52	AVG	
9		9.2400	13.48	20.47	33.95	60.00	-26.05	QP	
10		9.2400	4.57	20.47	25.04	50.00	-24.96	AVG	
11		22.2764	20.13	20.37	40.50	60.00	-19.50	QP	
12		22.2764	11.35	20.37	31.72	50.00	-18.28	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

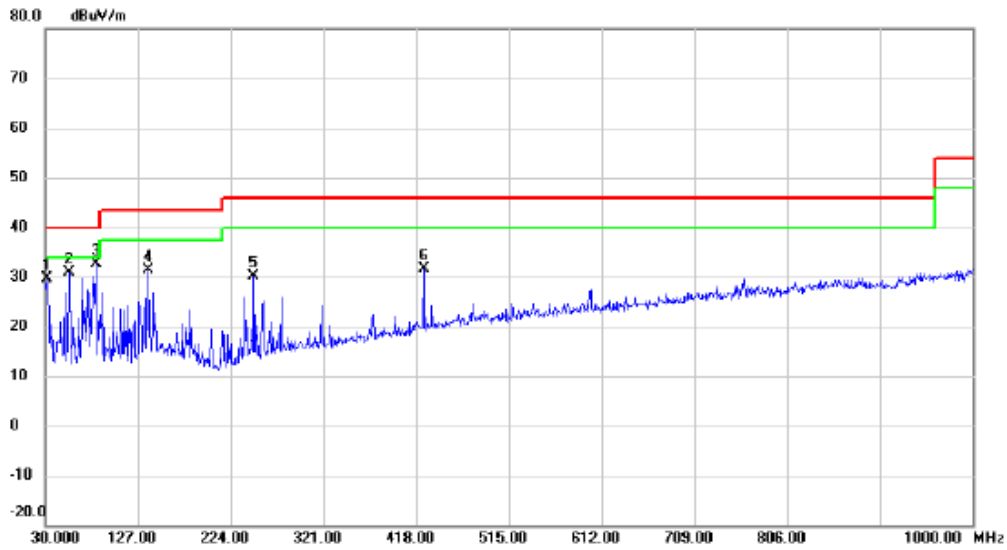
Radiated emission: 9kHz-30MHz

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 AX(HE40) Mode Channel 159 (UNII-3)	Polarization	Vertical
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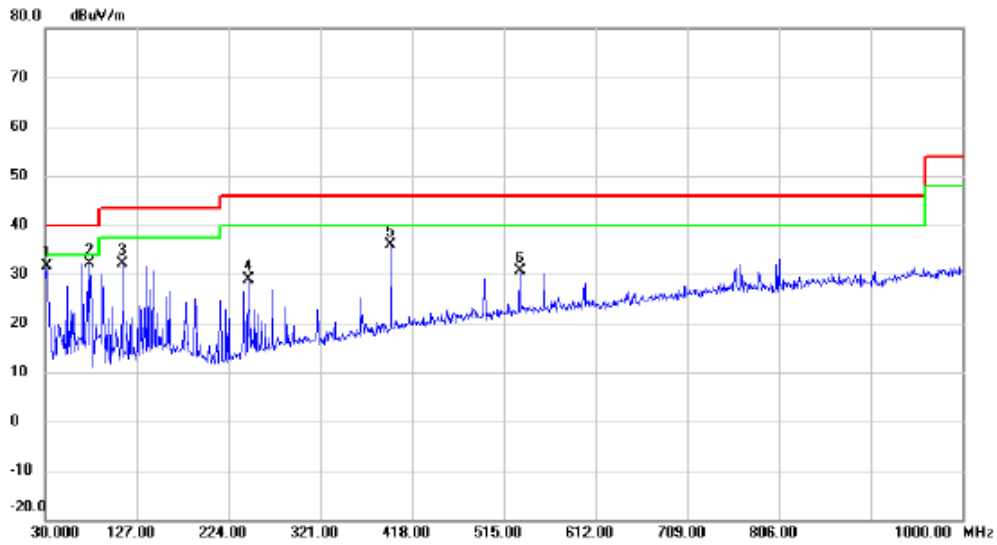


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	14.69	14.85	29.54	40.00	-10.46	peak	
2		55.2200	15.61	15.38	30.99	40.00	-9.01	peak	
3	*	83.3500	16.94	15.64	32.58	40.00	-7.42	peak	
4		138.6400	15.27	16.08	31.35	43.50	-12.15	peak	
5		248.2500	12.01	18.04	30.05	46.00	-15.95	peak	
6		425.7600	10.16	21.44	31.60	46.00	-14.40	peak	

REMARKS:

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

Test Mode	TX AX(HE40) Mode Channel 159 (UNII-3)	Polarization	Horizontal
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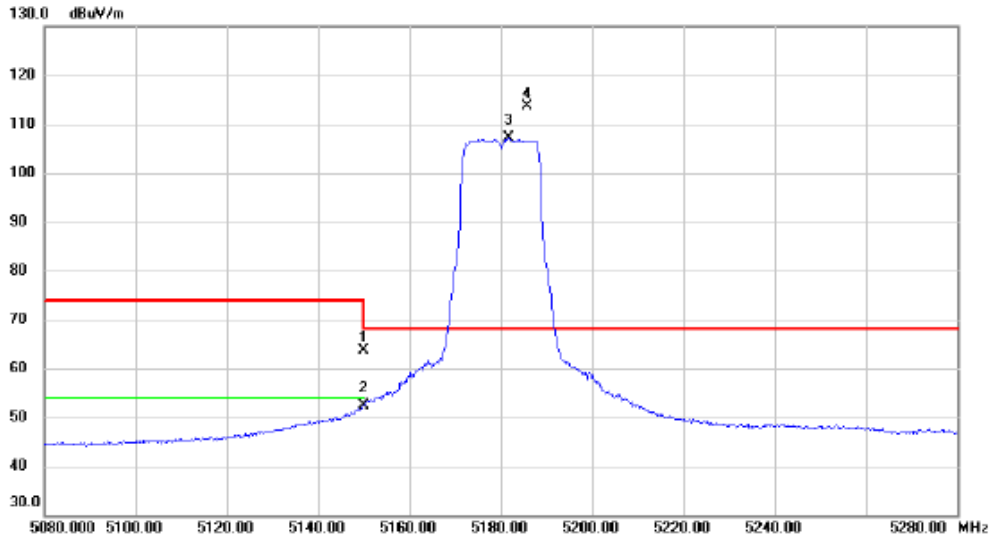
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		31.9400	19.67	11.85	31.52	40.00	-8.48	peak	
2	*	77.5300	19.04	13.16	32.20	40.00	-7.80	peak	
3		112.4500	18.55	13.56	32.11	43.50	-11.39	peak	
4		245.3400	10.81	18.00	28.81	46.00	-17.19	peak	
5		395.6900	14.84	21.14	35.98	46.00	-10.02	peak	
6		532.4600	6.61	23.94	30.55	46.00	-15.45	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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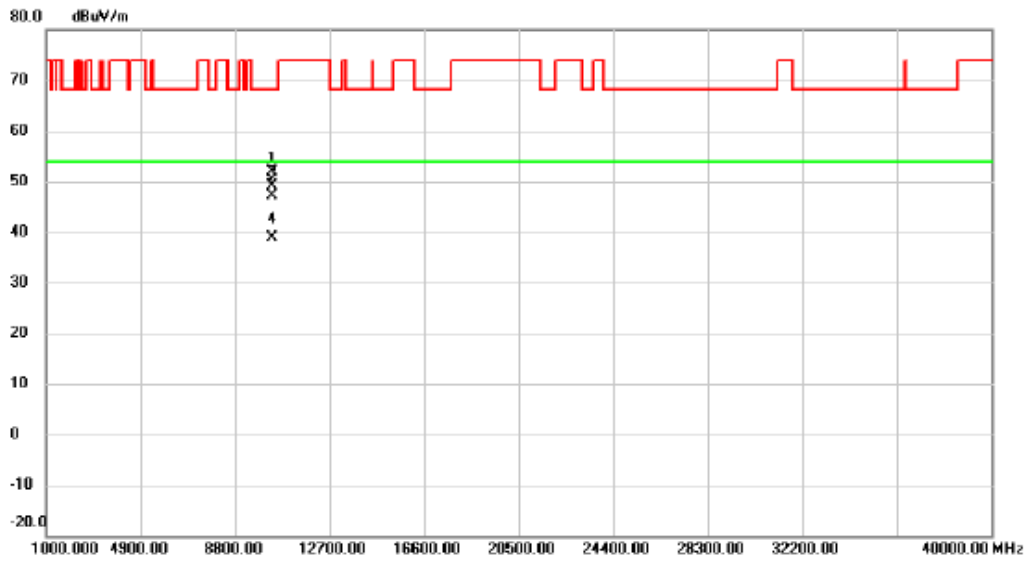


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	23.42	40.22	63.64	74.00	-10.36	peak	
2		5150.000	12.06	40.22	52.28	54.00	-1.72	AVG	
3	X	5181.800	66.77	40.28	107.05	68.20	38.85	AVG	No Limit
4	*	5185.600	73.37	40.29	113.66	68.20	45.46	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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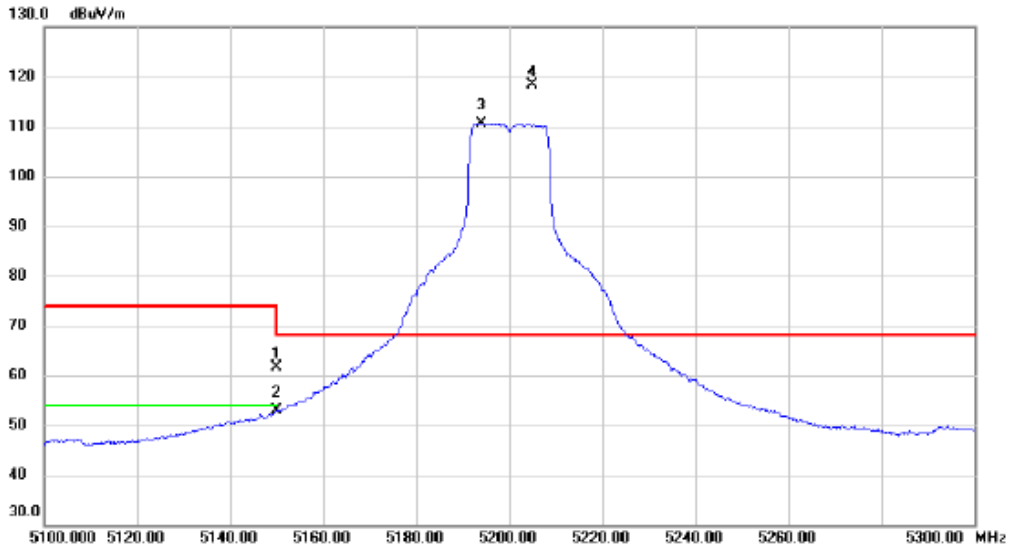


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10312.520	53.96	-2.19	51.77	68.20	-16.43	peak	
2	*	10312.560	49.24	-2.19	47.05	54.00	-6.95	AVG	
3		10351.280	51.18	-2.13	49.05	68.20	-19.15	peak	
4		10355.600	40.90	-2.13	38.77	54.00	-15.23	AVG	

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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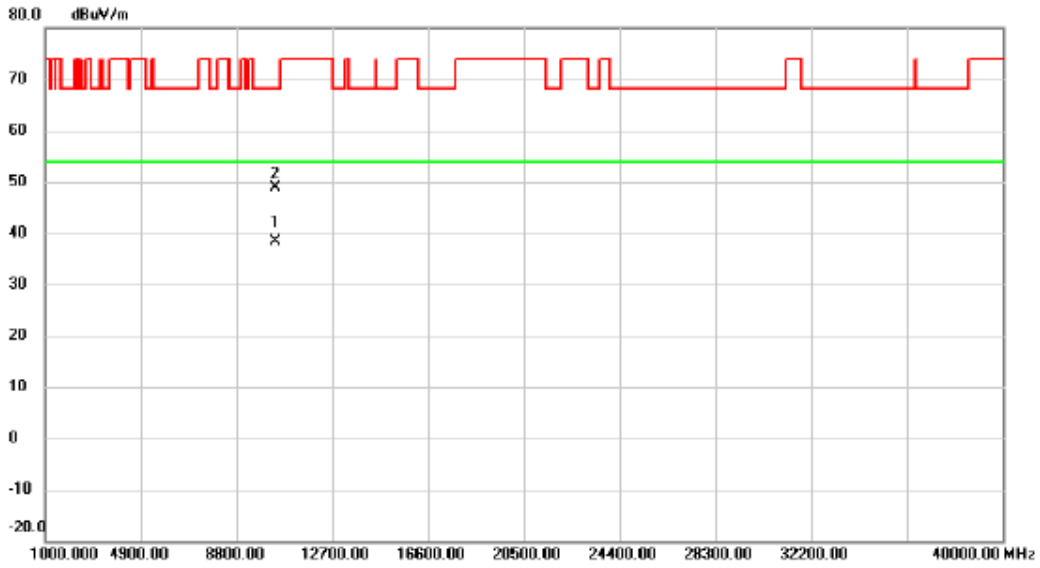


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.000	21.42	40.22	61.64	74.00	-12.36	peak	
2	5150.000	12.72	40.22	52.94	54.00	-1.06	AVG	
3 X	5194.000	70.41	40.31	110.72	68.20	42.52	AVG	No Limit
4 *	5205.000	78.17	40.32	118.49	68.20	50.29	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 5200 MHz	Polarization	Vertical
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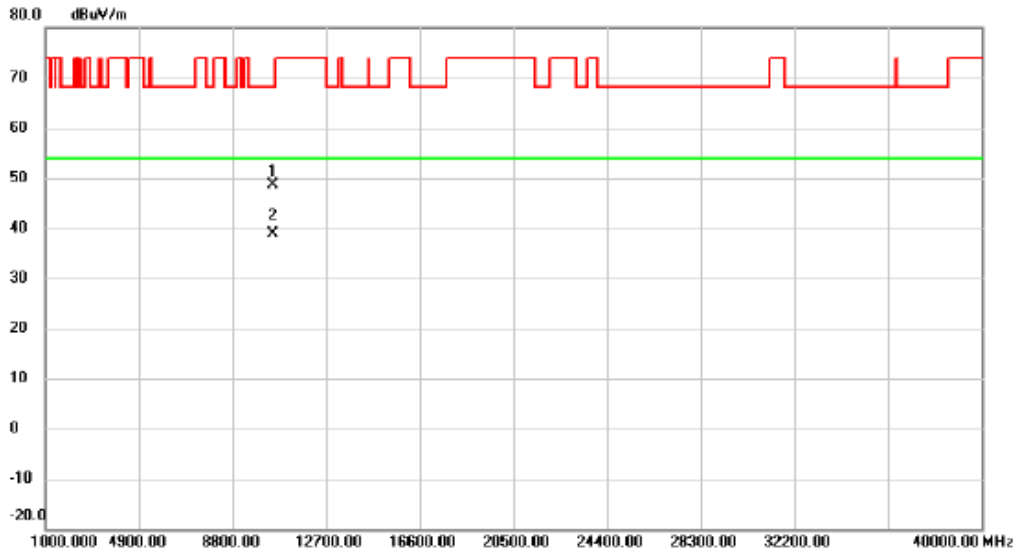


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10376.400	40.52	-2.09	38.43	54.00	-15.57	AVG	
2		10386.750	50.88	-2.07	48.81	68.20	-19.39	peak	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical
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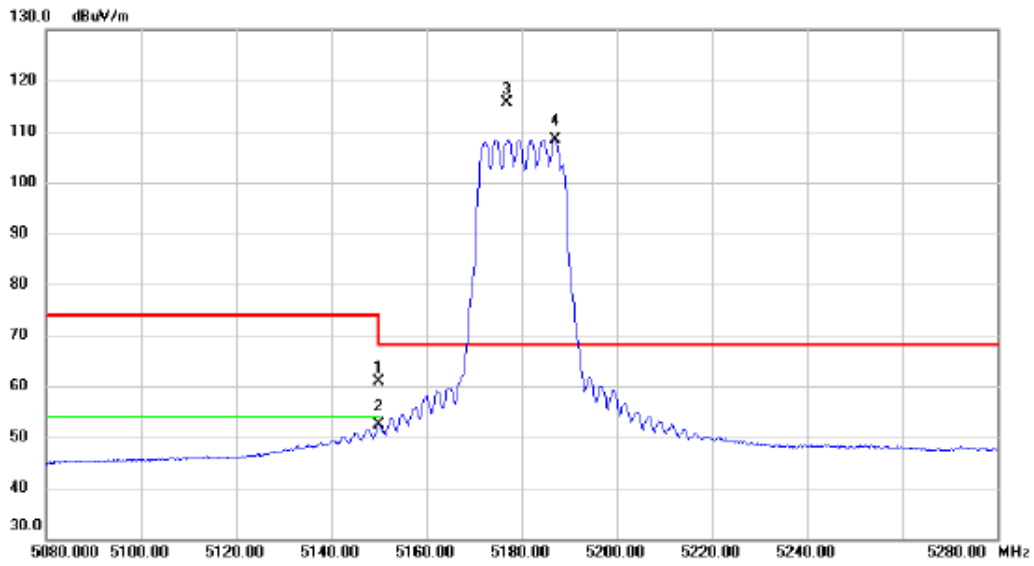


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10475.250	50.58	-1.94	48.64	68.20	-19.56	peak	
2 *	10500.900	40.67	-1.89	38.78	54.00	-15.22	AVG	

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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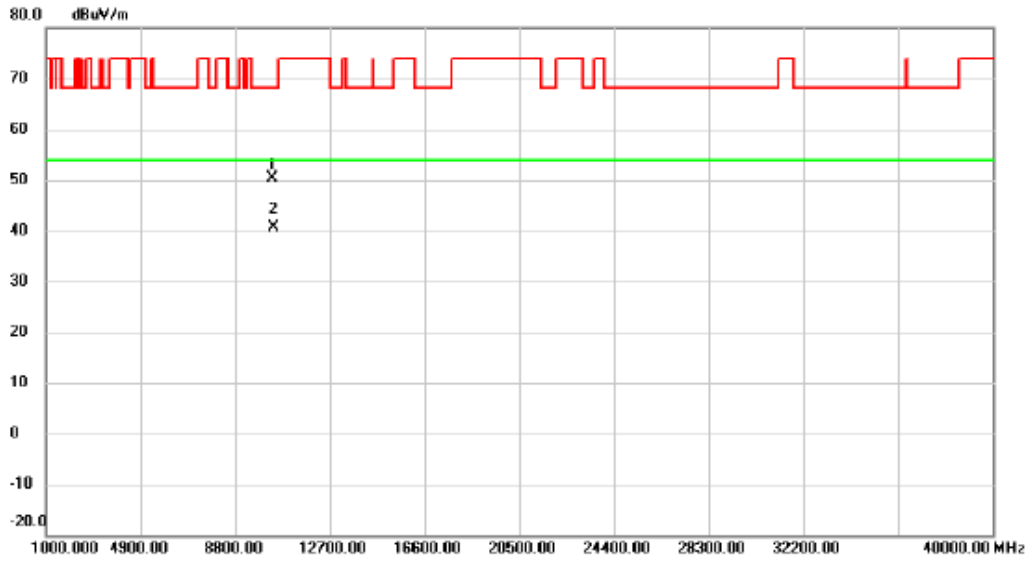


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	20.60	40.22	60.82	74.00	-13.18	peak	
2		5150.000	12.11	40.22	52.33	54.00	-1.67	AVG	
3	*	5177.000	75.34	40.27	115.61	68.20	47.41	peak	No Limit
4	X	5187.000	68.08	40.29	108.37	68.20	40.17	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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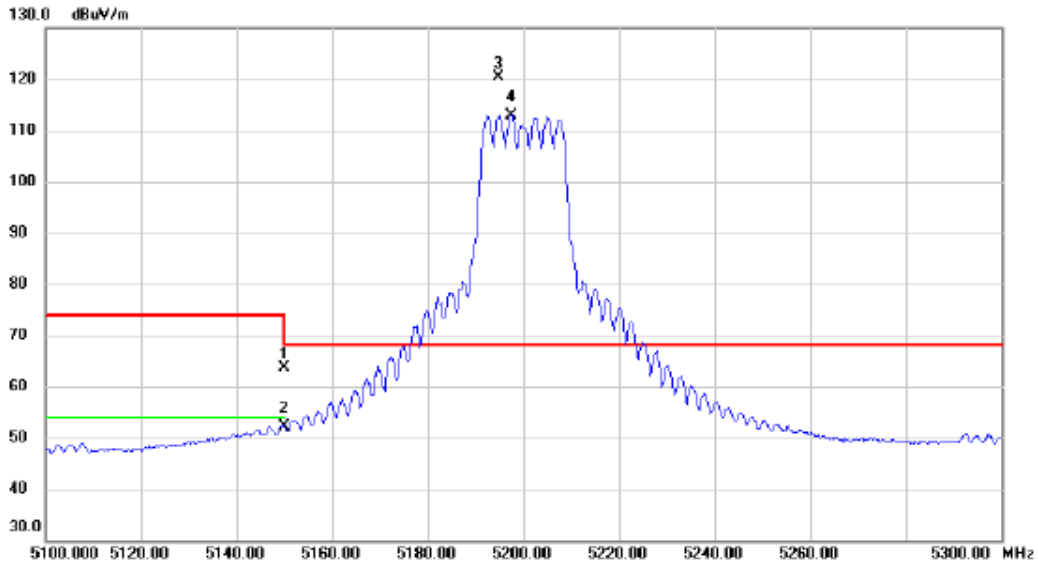


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10357.900	52.49	-2.12	50.37	68.20	-17.83	peak	
2 *	10360.050	42.75	-2.12	40.63	54.00	-13.37	AVG	

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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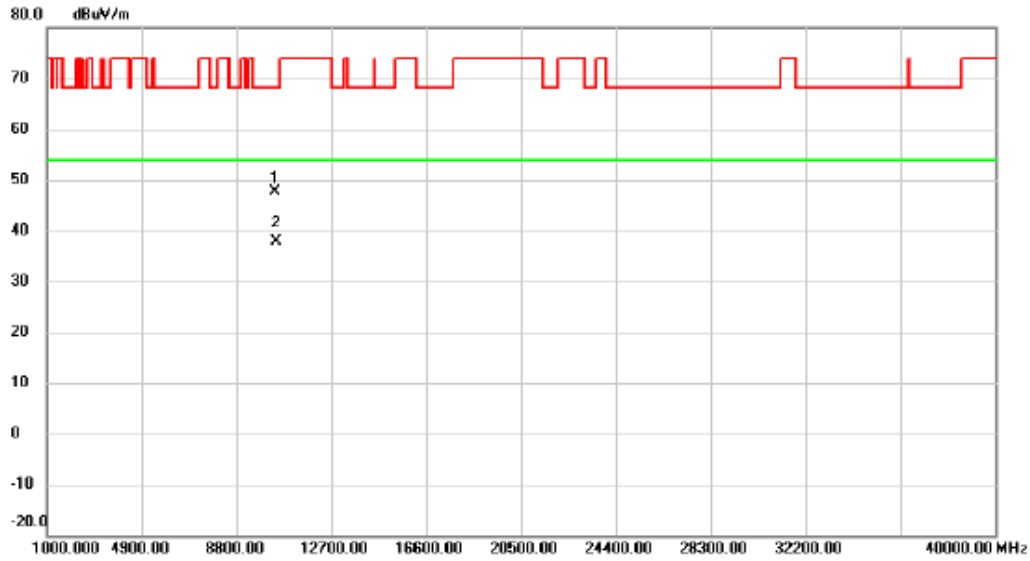


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	23.42	40.22	63.64	74.00	-10.36	peak	
2		5150.000	11.84	40.22	52.06	54.00	-1.94	AVG	
3	*	5194.800	80.12	40.31	120.43	68.20	52.23	peak	No Limit
4	X	5197.400	72.50	40.31	112.81	68.20	44.61	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 5200 MHz	Polarization	Vertical
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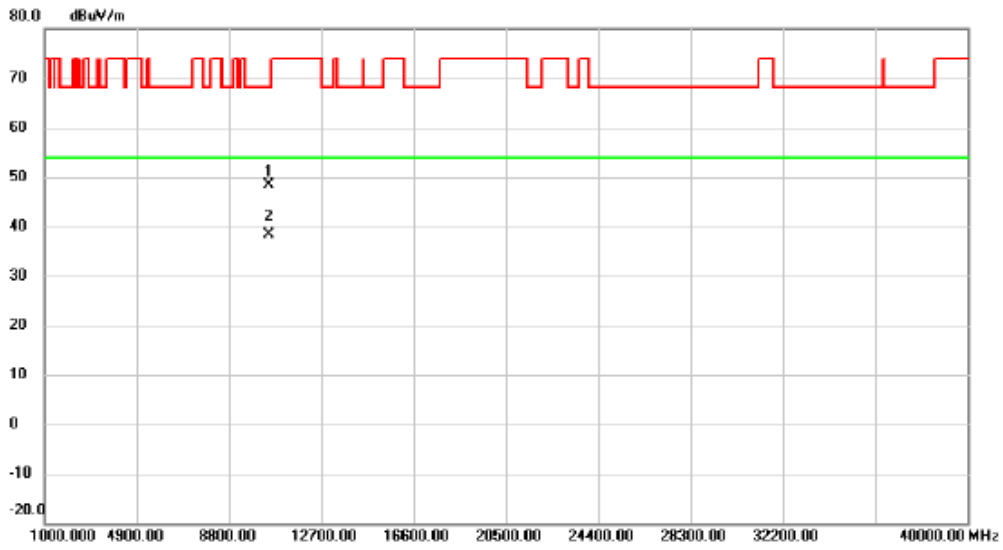


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10408.150	49.72	-2.04	47.68	68.20	-20.52	peak	
2 *	10413.300	40.01	-2.04	37.97	54.00	-16.03	AVG	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical
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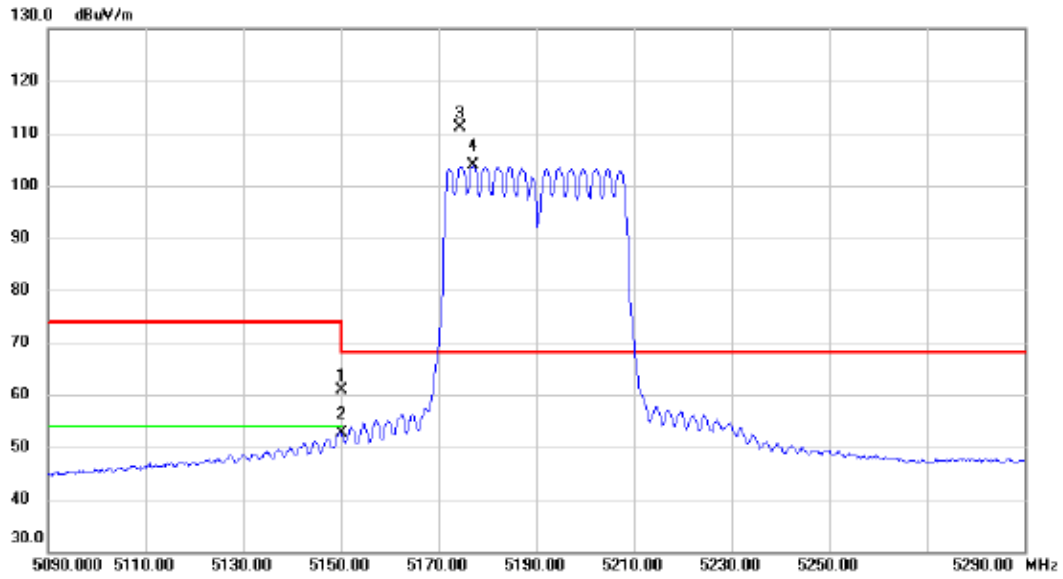


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10478.200	50.44	-1.94	48.50	68.20	-19.70	peak	
2	*	10498.300	40.23	-1.91	38.32	54.00	-15.68	AVG	

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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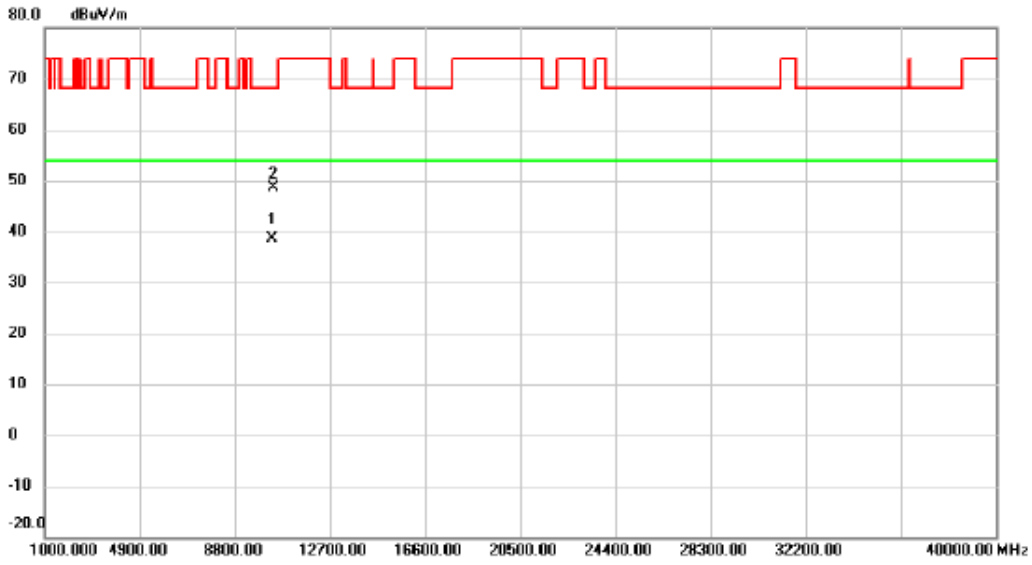


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	20.58	40.22	60.80	74.00	-13.20	peak	
2		5150.000	12.42	40.22	52.64	54.00	-1.36	AVG	
3	*	5174.400	70.92	40.26	111.18	68.20	42.98	peak	No Limit
4	X	5177.200	63.59	40.28	103.87	68.20	35.67	AVG	No Limit

REMARKS:

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

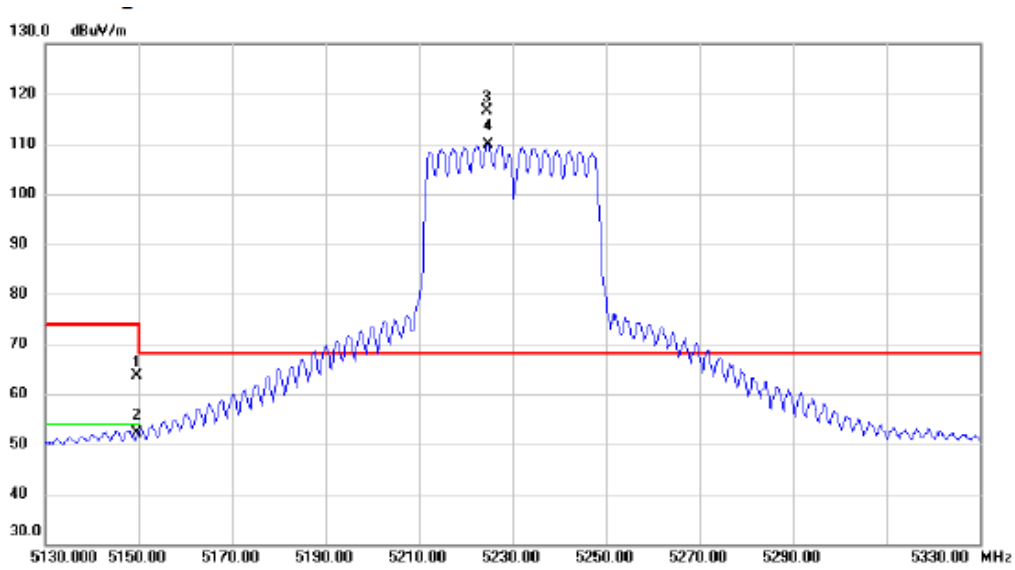
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10355.000	40.79	-2.13	38.66	54.00	-15.34	AVG	
2		10362.800	50.63	-2.12	48.51	68.20	-19.69	peak	

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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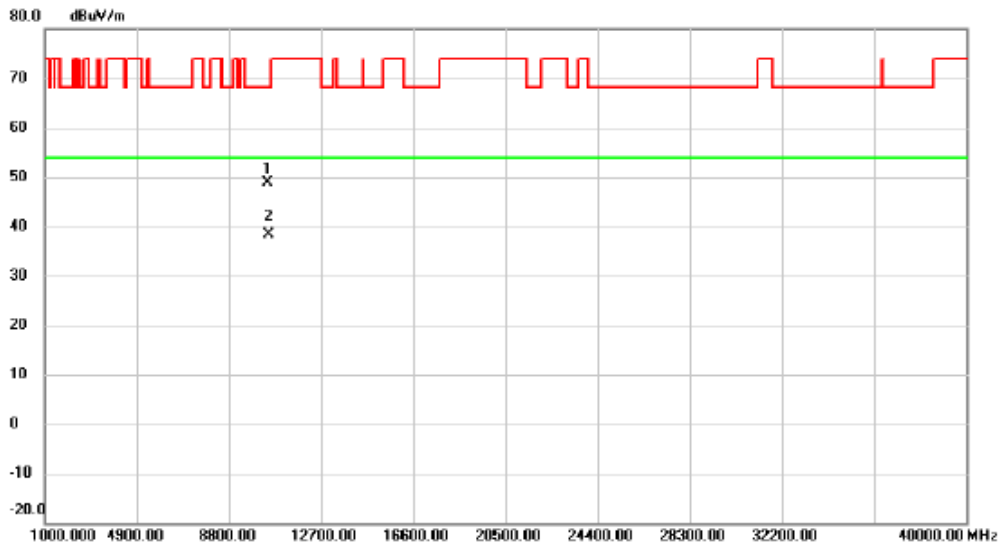
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5149.467	23.42	40.22	63.64	74.00	-10.36	peak	
2		5149.733	11.81	40.22	52.03	54.00	-1.97	AVG	
3	*	5224.600	76.22	40.36	116.58	68.20	48.38	peak	No Limit
4	X	5224.800	69.57	40.36	109.93	68.20	41.73	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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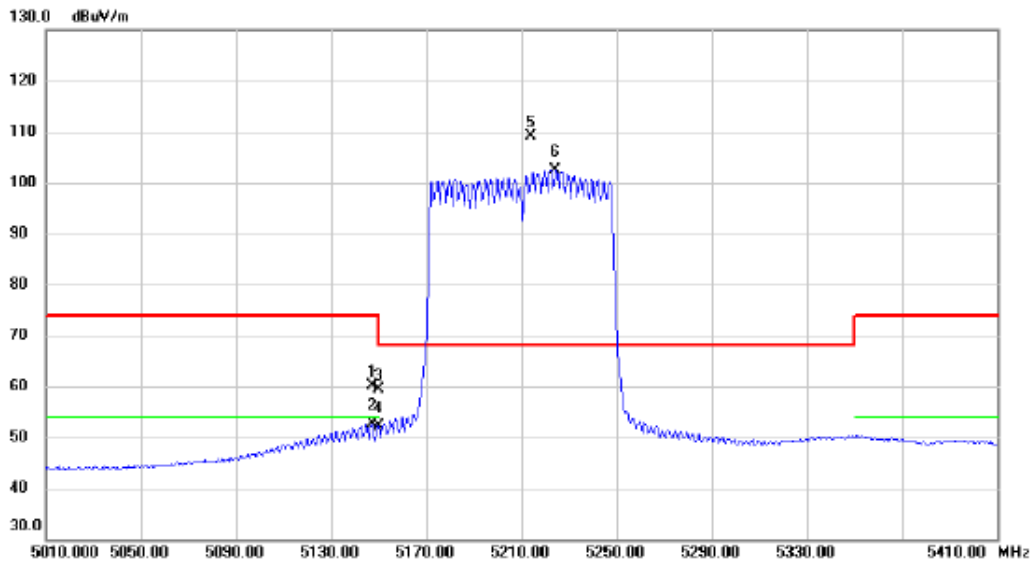


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10442.850	50.99	-1.99	49.00	68.20	-19.20	peak	
2 *	10476.500	40.27	-1.94	38.33	54.00	-15.67	AVG	

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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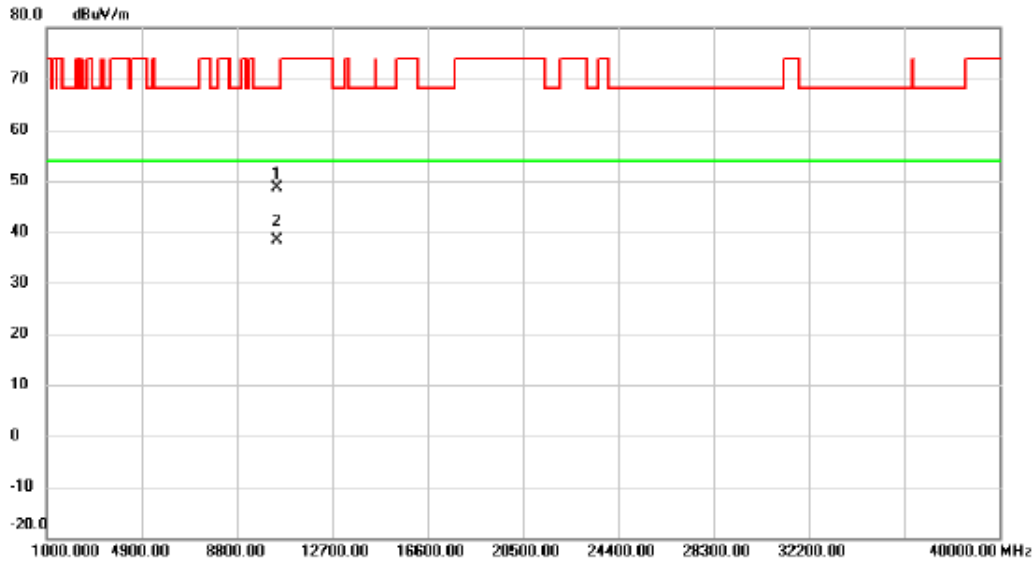


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5147.200	19.83	40.22	60.05	74.00	-13.95	peak	
2	5147.200	12.33	40.22	52.55	54.00	-1.45	AVG	
3	5150.000	19.23	40.22	59.45	74.00	-14.55	peak	
4	5150.000	11.79	40.22	52.01	54.00	-1.99	AVG	
5 *	5214.000	68.79	40.34	109.13	68.20	40.93	peak	No Limit
6 X	5224.400	62.12	40.35	102.47	68.20	34.27	AVG	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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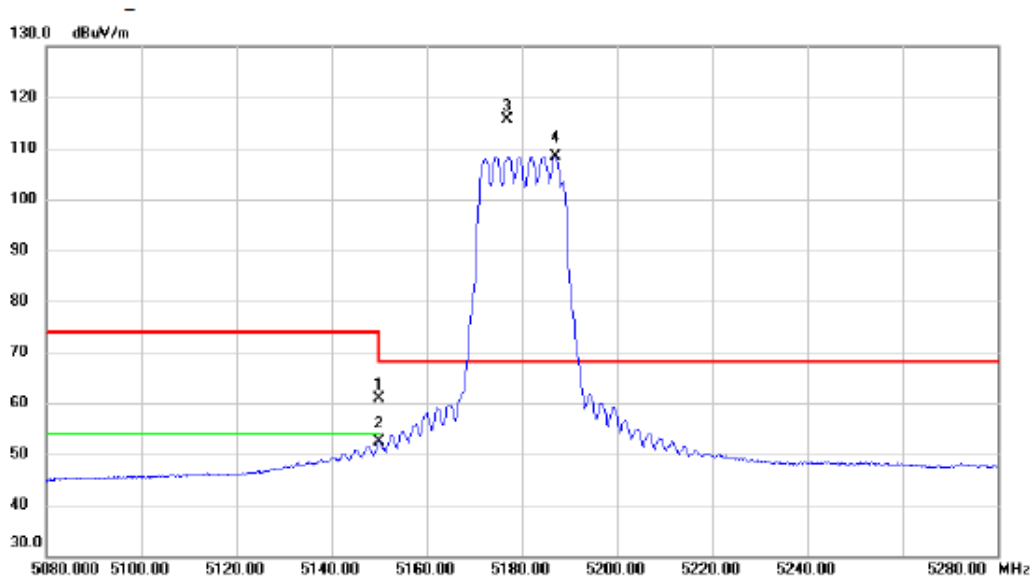


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10420.900	50.73	-2.02	48.71	68.20	-19.49	peak	
2	*	10426.850	40.44	-2.02	38.42	54.00	-15.58	AVG	

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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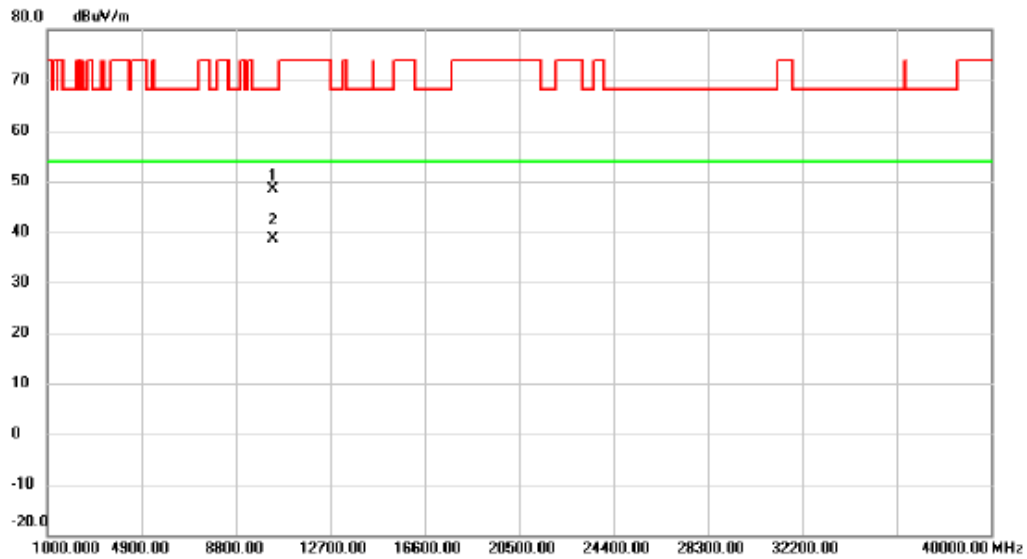


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	20.60	40.22	60.82	74.00	-13.18	peak	
2		5150.000	12.11	40.22	52.33	54.00	-1.67	AVG	
3	*	5177.000	75.34	40.27	115.61	68.20	47.41	peak	No Limit
4	X	5187.000	68.08	40.29	108.37	68.20	40.17	AVG	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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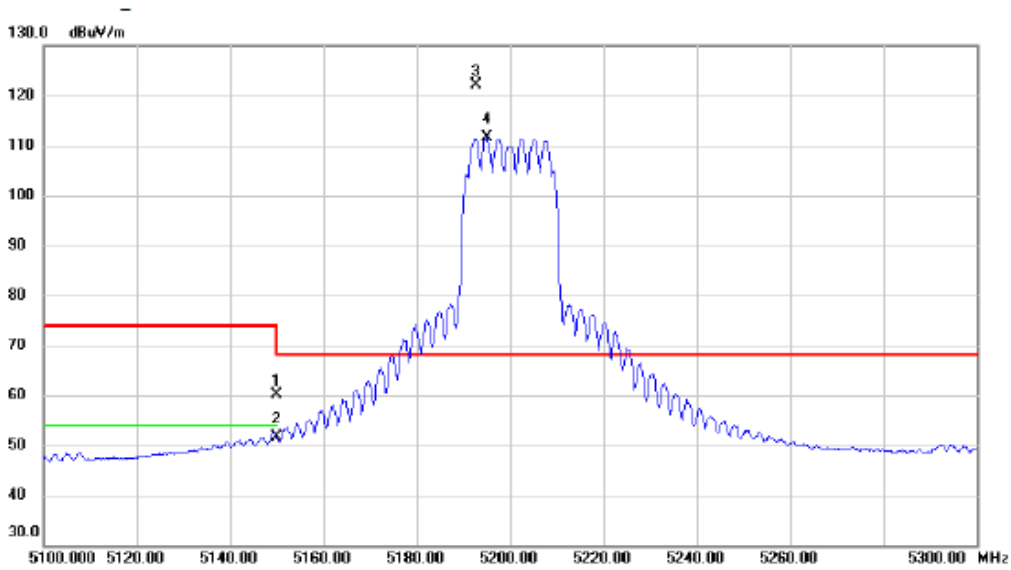


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		10345.600	50.46	-2.14	48.32	68.20	-19.88	peak	
2	*	10351.950	40.69	-2.13	38.56	54.00	-15.44	AVG	

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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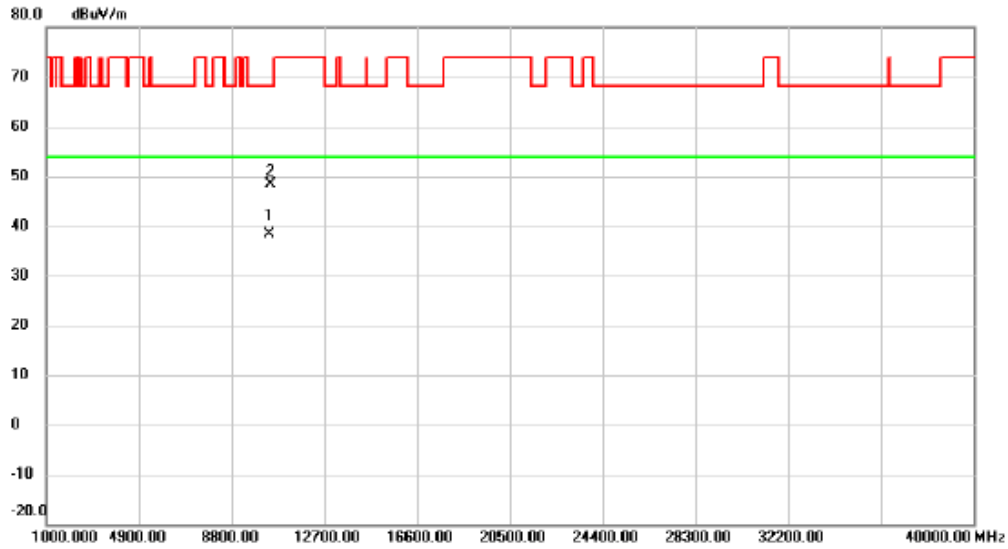


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	19.95	40.22	60.17	74.00	-13.83	peak	
2		5150.000	11.52	40.22	51.74	54.00	-2.26	AVG	
3	*	5192.600	81.83	40.30	122.13	68.20	53.93	peak	No Limit
4	X	5195.000	71.25	40.31	111.56	68.20	43.36	AVG	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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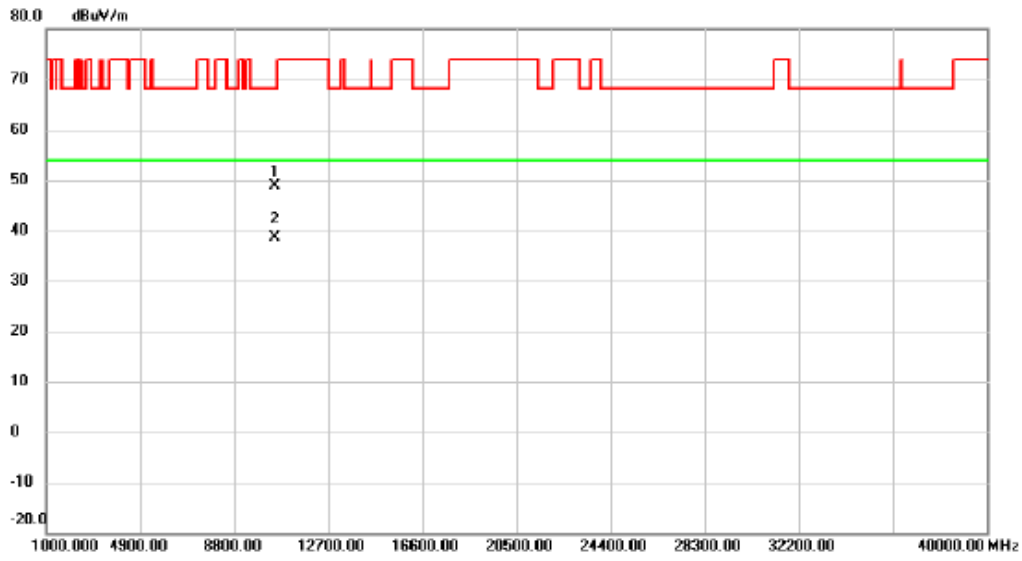


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10377.350	40.46	-2.09	38.37	54.00	-15.63	AVG	
2		10412.000	50.52	-2.04	48.48	68.20	-19.72	peak	

REMARKS:

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

Test Mode	UNII-1_TX AX(HE20) Mode 5240 MHz	Polarization	Vertical
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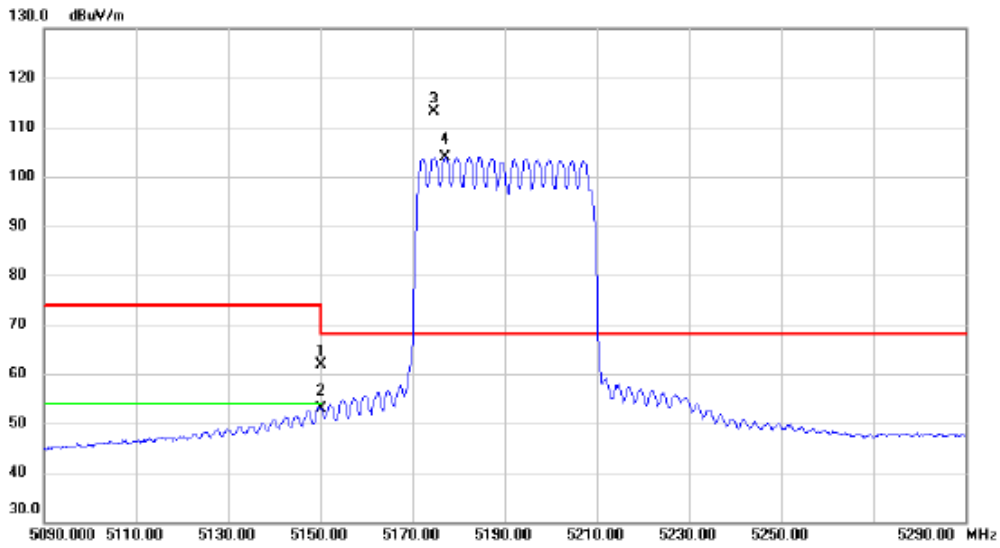


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.150	50.75	-1.94	48.81	68.20	-19.39	peak	
2 *	10497.650	40.60	-1.91	38.69	54.00	-15.31	AVG	

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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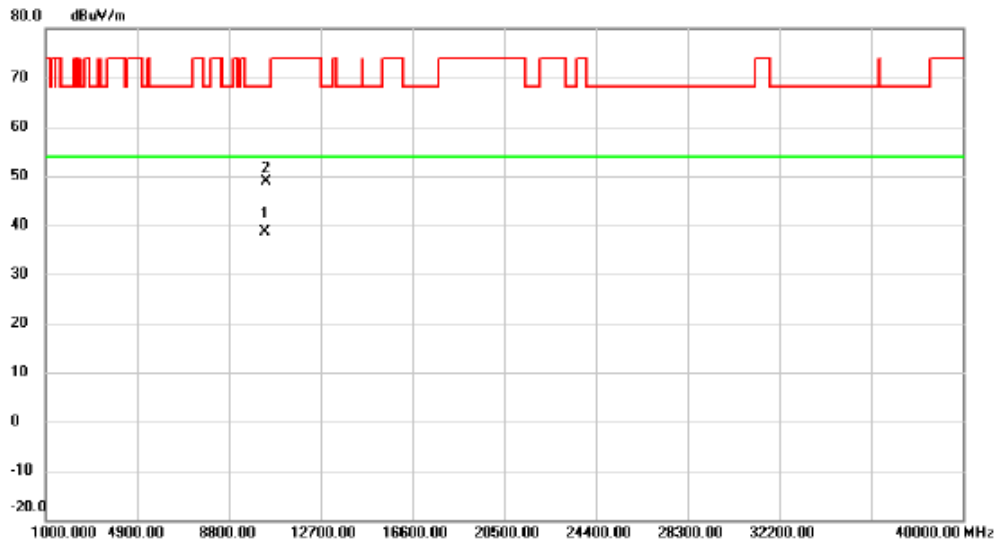


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.000	21.63	40.22	61.85	74.00	-12.15	peak	
2	5150.000	12.74	40.22	52.96	54.00	-1.04	AVG	
3 *	5174.600	72.94	40.26	113.20	68.20	45.00	peak	No Limit
4 X	5177.200	63.68	40.28	103.96	68.20	35.76	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 5190 MHz	Polarization	Vertical
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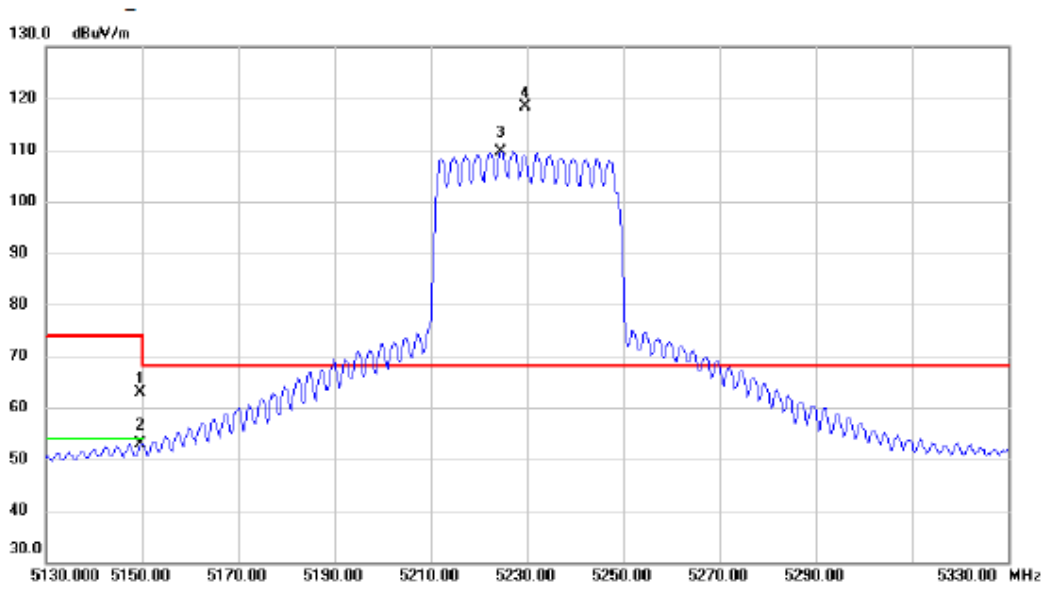


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10359.500	40.69	-2.12	38.57	54.00	-15.43	AVG	
2	10365.300	50.93	-2.11	48.82	68.20	-19.38	peak	

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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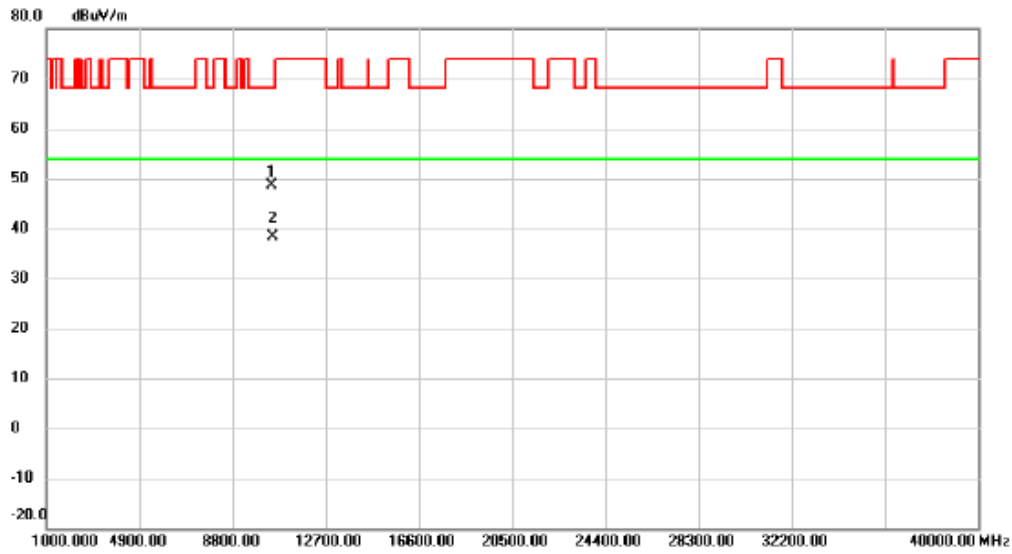


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5149.467	22.72	40.22	62.94	74.00	-11.06	peak	
2	5149.733	12.56	40.22	52.78	54.00	-1.22	AVG	
3 X	5224.600	69.37	40.36	109.73	68.20	41.53	AVG	No Limit
4 *	5229.600	78.00	40.37	118.37	68.20	50.17	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 5230 MHz	Polarization	Vertical
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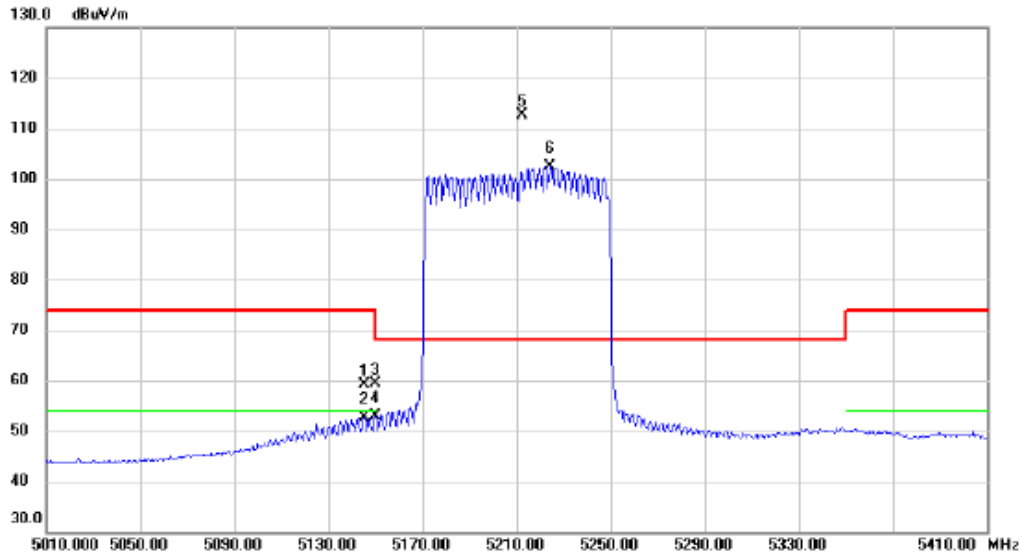


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10457.300	50.70	-1.96	48.74	68.20	-19.46	peak	
2 *	10481.050	40.40	-1.94	38.46	54.00	-15.54	AVG	

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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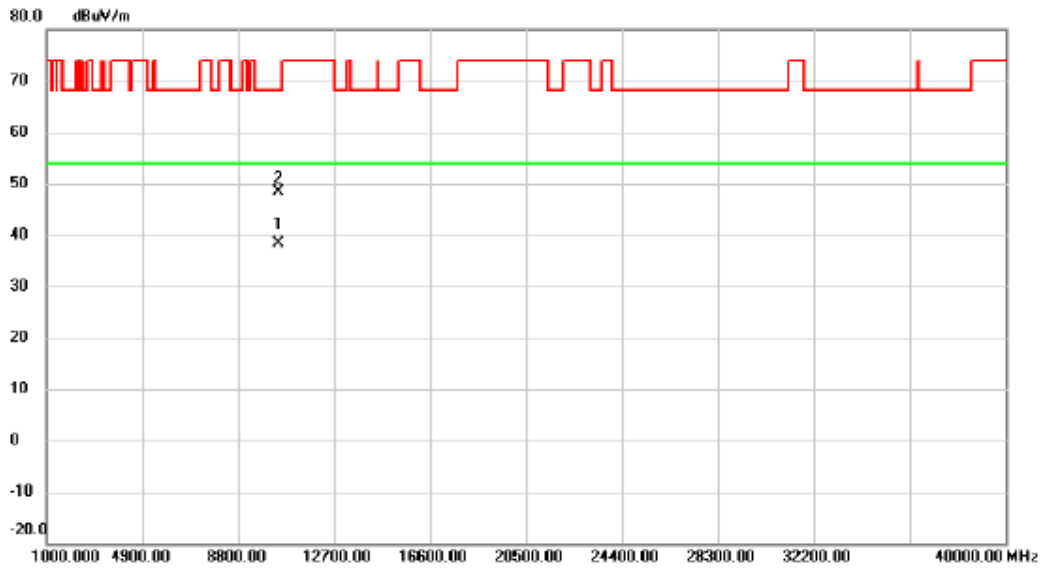


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5145.200	18.99	40.21	59.20	74.00	-14.80	peak	
2	5145.200	12.50	40.21	52.71	54.00	-1.29	AVG	
3	5150.000	19.14	40.22	59.36	74.00	-14.64	peak	
4	5150.000	12.73	40.22	52.95	54.00	-1.05	AVG	
5 *	5212.400	72.18	40.34	112.52	68.20	44.32	peak	No Limit
6 X	5224.400	62.10	40.35	102.45	68.20	34.25	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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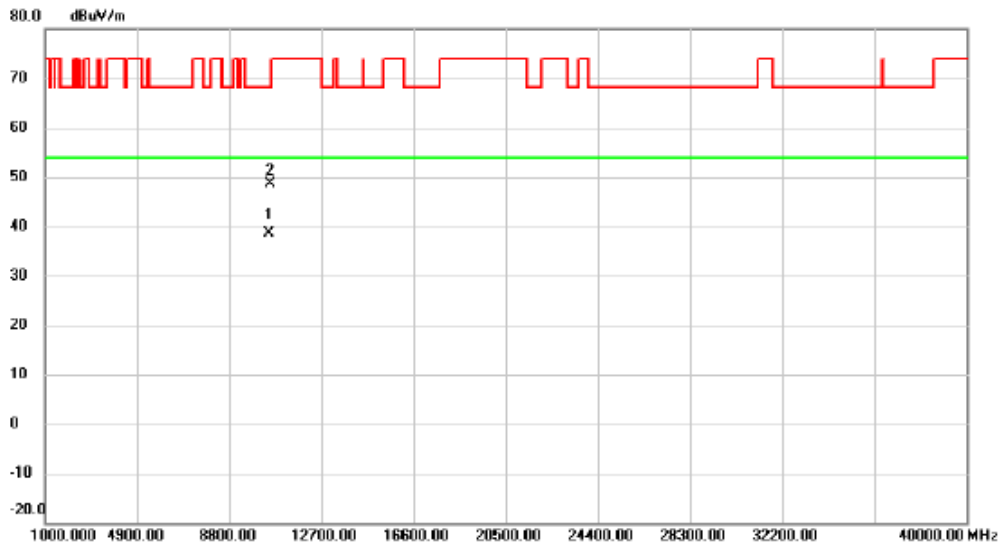


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10412.800	40.33	-2.04	38.29	54.00	-15.71	AVG	
2	10413.350	50.35	-2.04	48.31	68.20	-19.89	peak	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5260 MHz	Polarization	Vertical
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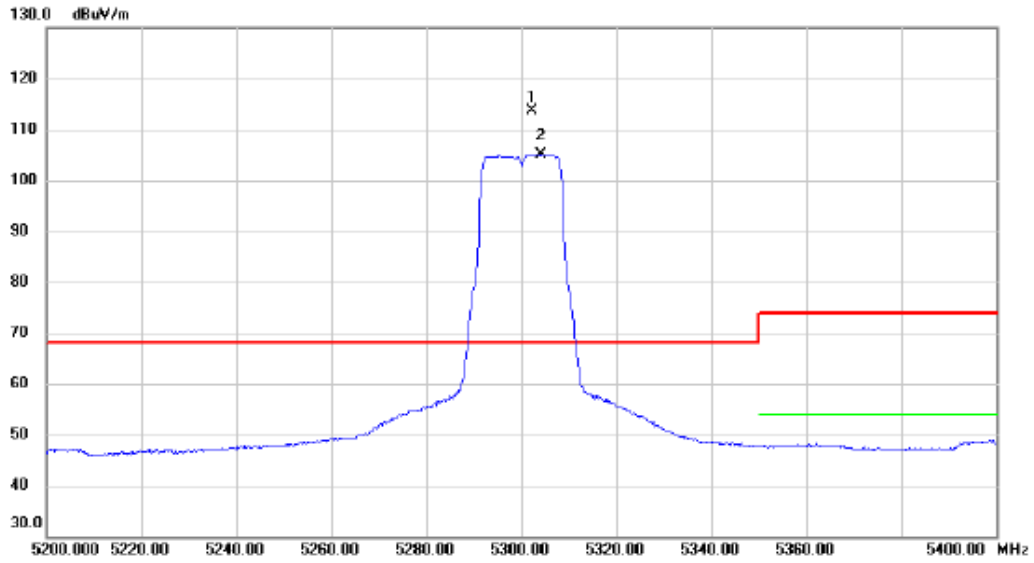


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10496.650	40.53	-1.91	38.62	54.00	-15.38	AVG	
2		10519.650	50.53	-1.85	48.68	68.20	-19.52	peak	

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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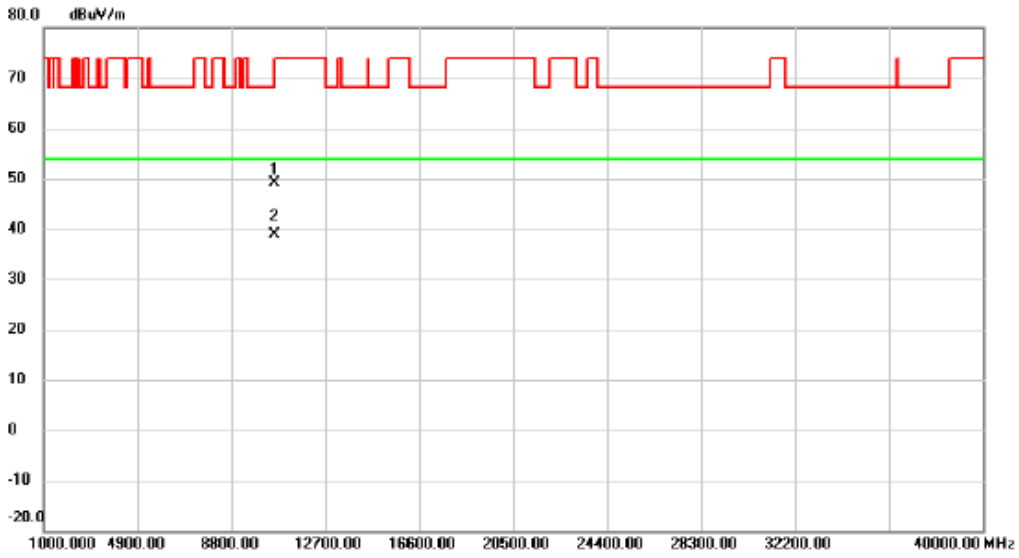


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5302.400	73.20	40.50	113.70	68.20	45.50	peak	No Limit
2	X	5304.200	64.73	40.51	105.24	68.20	37.04	AVG	No Limit

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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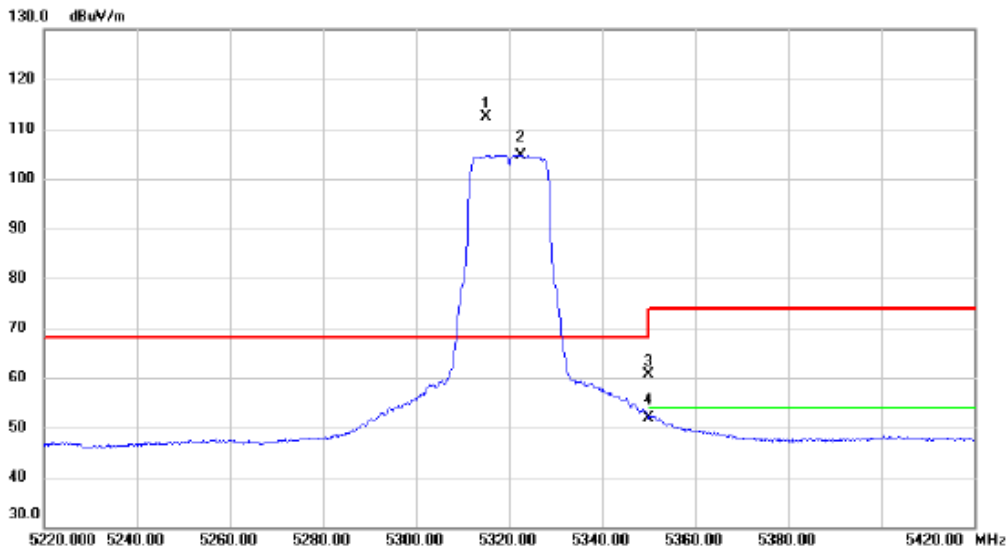


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10579.250	50.95	-1.73	49.22	68.20	-18.98	peak	
2 *	10616.600	40.43	-1.66	38.77	54.00	-15.23	AVG	

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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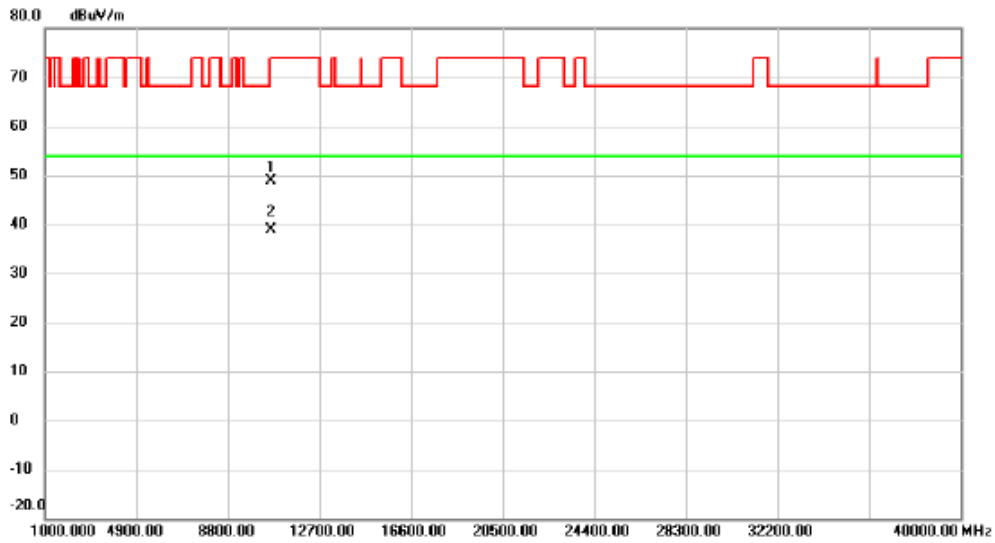


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5315.000	71.77	40.53	112.30	68.20	44.10	peak	No Limit
2	X	5322.600	64.18	40.54	104.72	68.20	36.52	AVG	No Limit
3		5350.000	20.15	40.59	60.74	74.00	-13.26	peak	
4		5350.000	11.39	40.59	51.98	54.00	-2.02	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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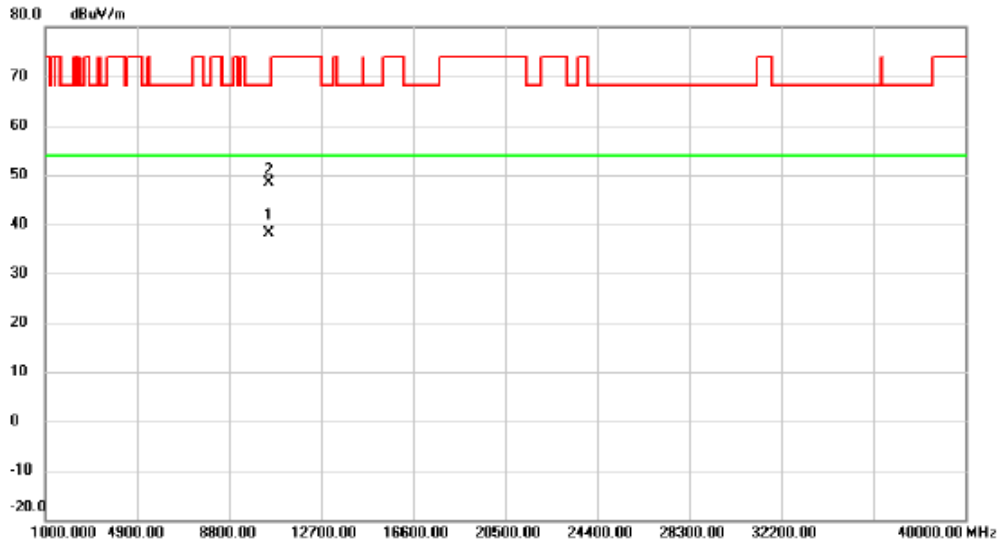


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10629.950	50.60	-1.63	48.97	74.00	-25.03	peak	
2	*	10630.700	40.48	-1.63	38.85	54.00	-15.15	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT20) Mode 5260 MHz	Polarization	Vertical
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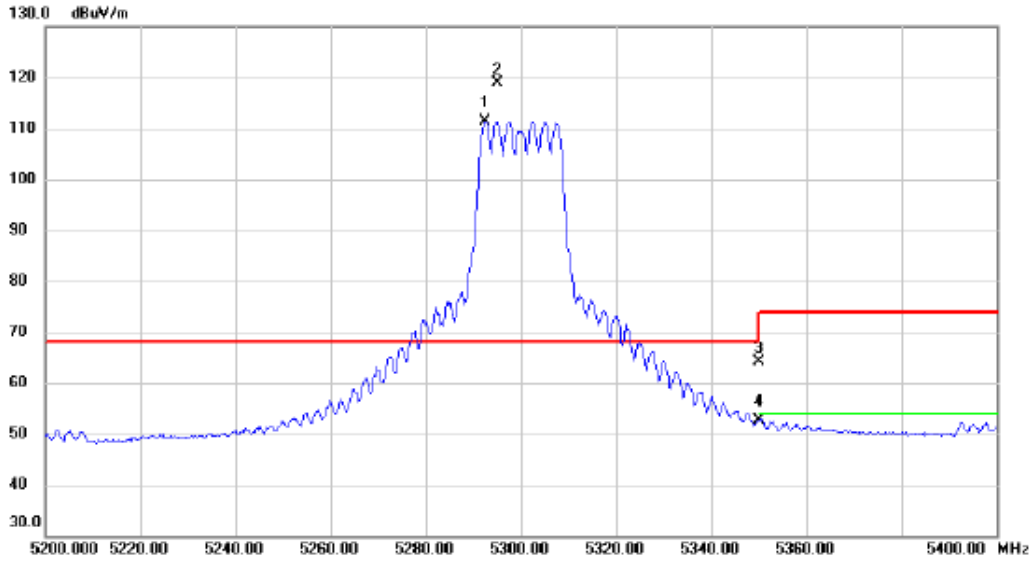


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10496.250	40.13	-1.91	38.22	54.00	-15.78	AVG	
2	10501.650	50.31	-1.89	48.42	68.20	-19.78	peak	

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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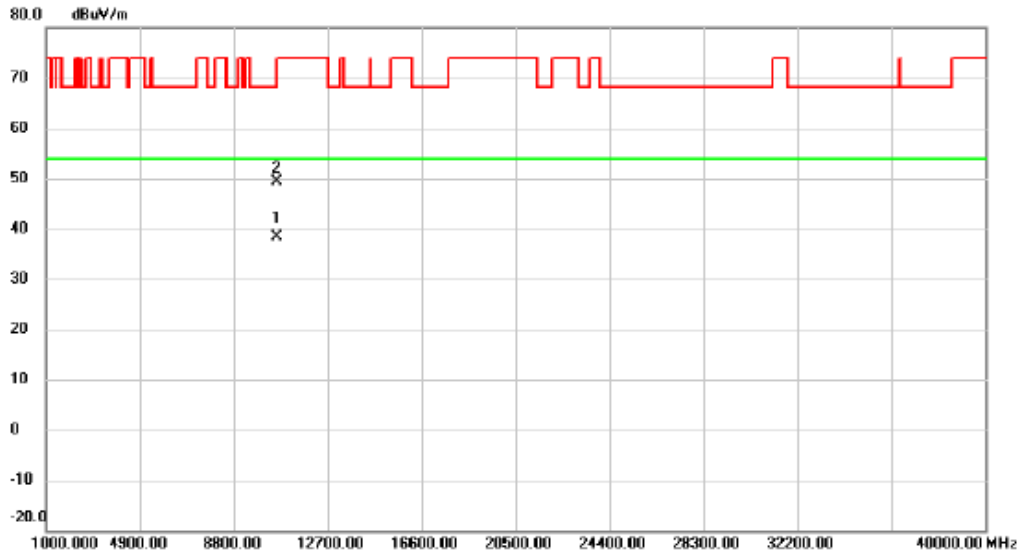


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5292.400	71.00	40.49	111.49	68.20	43.29	AVG	No Limit
2	*	5295.000	78.37	40.49	118.86	68.20	50.66	peak	No Limit
3		5350.000	23.46	40.59	64.05	74.00	-9.95	peak	
4		5350.000	12.07	40.59	52.66	54.00	-1.34	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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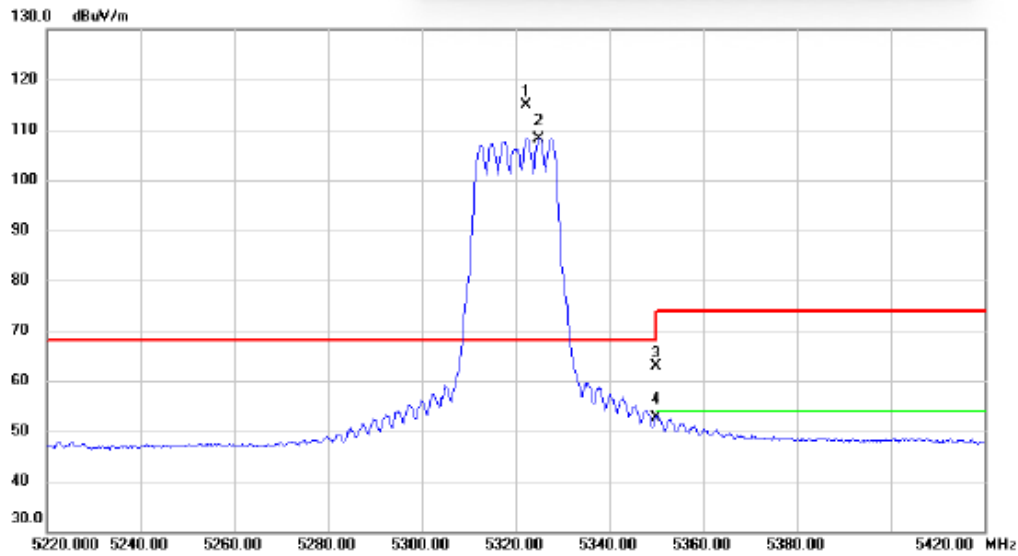


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10589.200	39.99	-1.71	38.28	54.00	-15.72	AVG	
2		10610.400	50.97	-1.67	49.30	74.00	-24.70	peak	

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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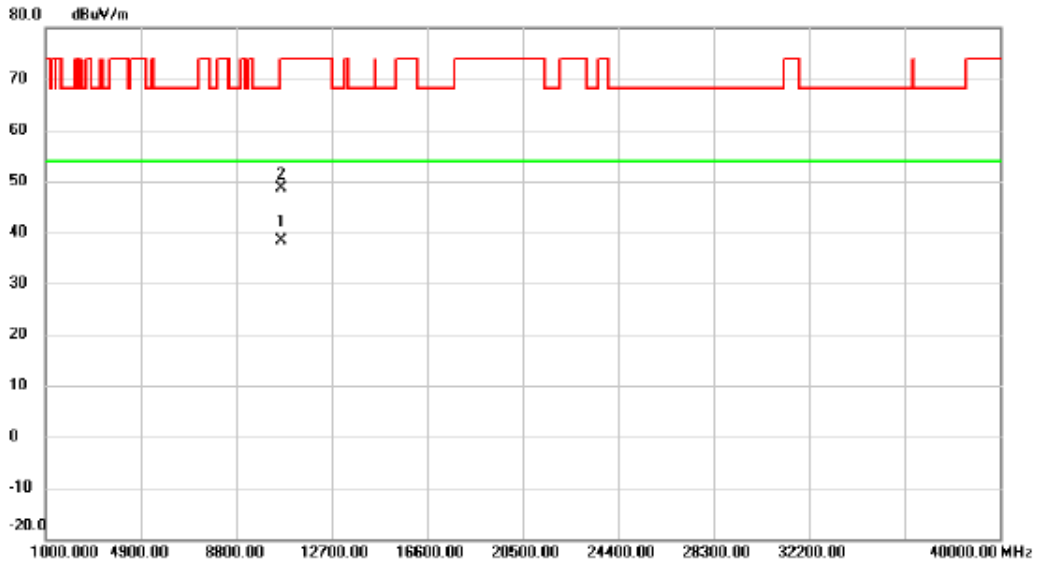


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5322.400	74.33	40.54	114.87	68.20	46.67	peak	No Limit
2	X	5325.000	67.63	40.54	108.17	68.20	39.97	AVG	No Limit
3		5350.000	22.33	40.59	62.92	74.00	-11.08	peak	
4		5350.000	12.11	40.59	52.70	54.00	-1.30	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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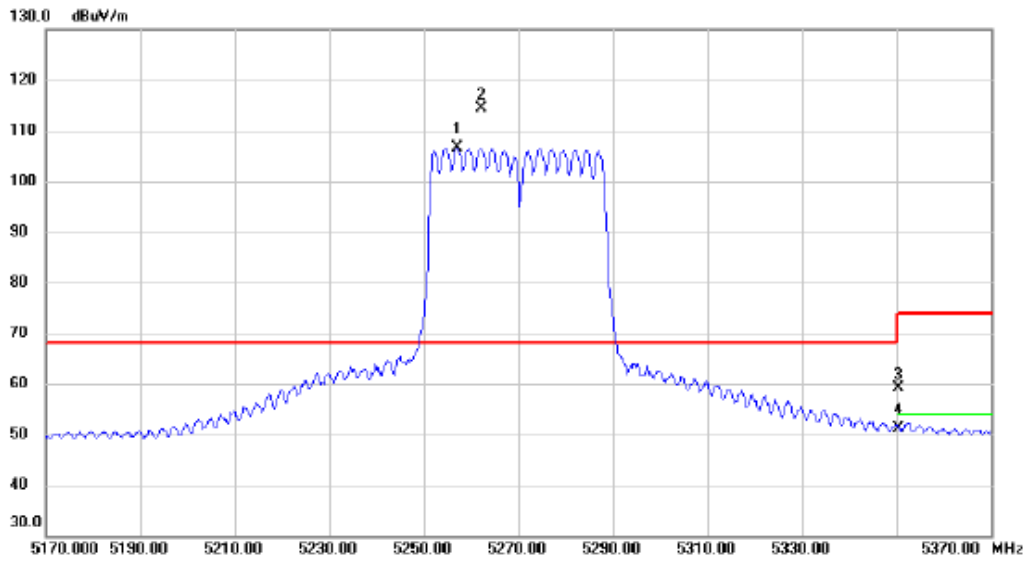


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10634.500	40.11	-1.61	38.50	54.00	-15.50	AVG	
2		10660.200	50.09	-1.56	48.53	74.00	-25.47	peak	

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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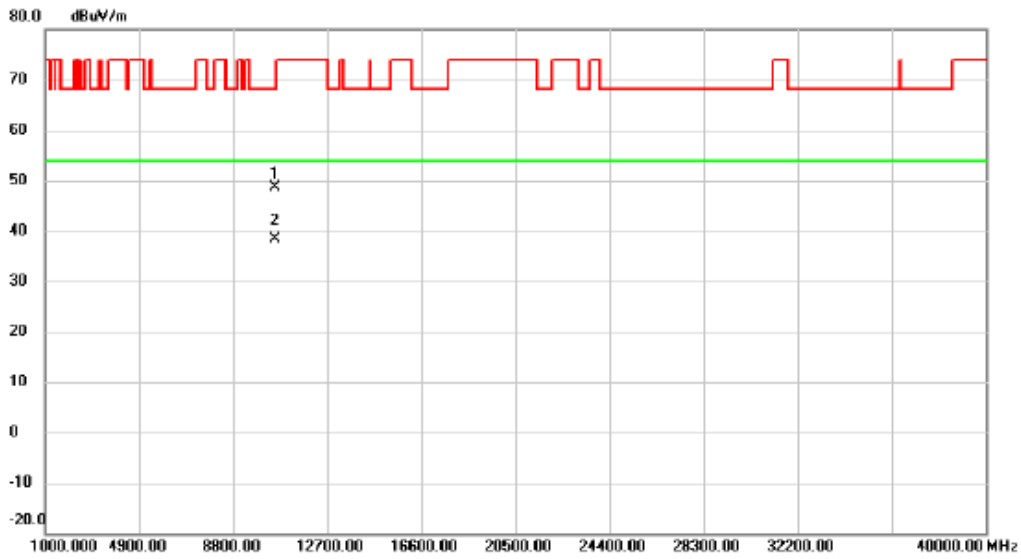


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5257.000	66.21	40.42	106.63	68.20	38.43	AVG	No Limit
2	*	5262.000	73.86	40.43	114.29	68.20	46.09	peak	No Limit
3		5350.533	18.45	40.60	59.05	74.00	-14.95	peak	
4		5350.533	10.58	40.60	51.18	54.00	-2.82	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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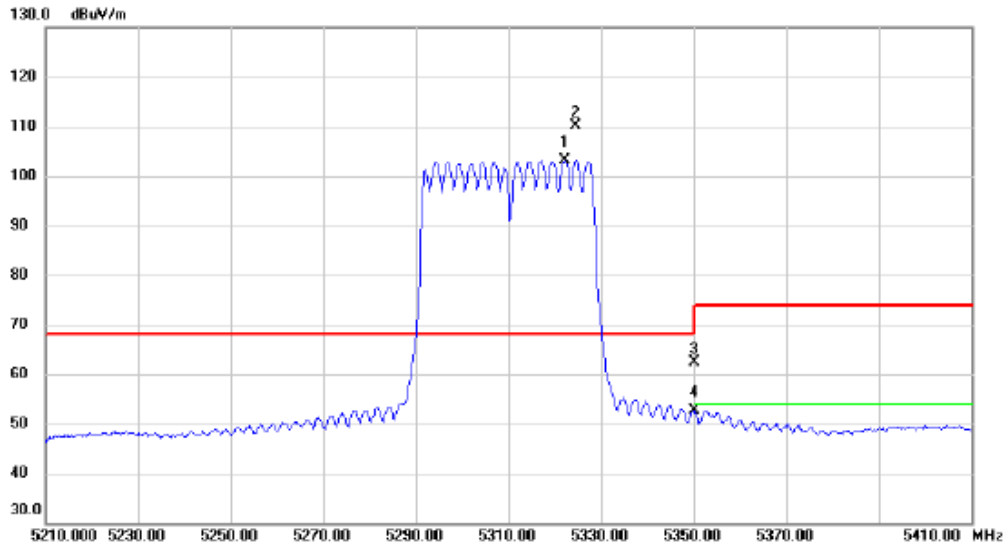


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10519.050	50.51	-1.85	48.66	68.20	-19.54	peak	
2	*	10544.000	40.27	-1.81	38.46	54.00	-15.54	AVG	

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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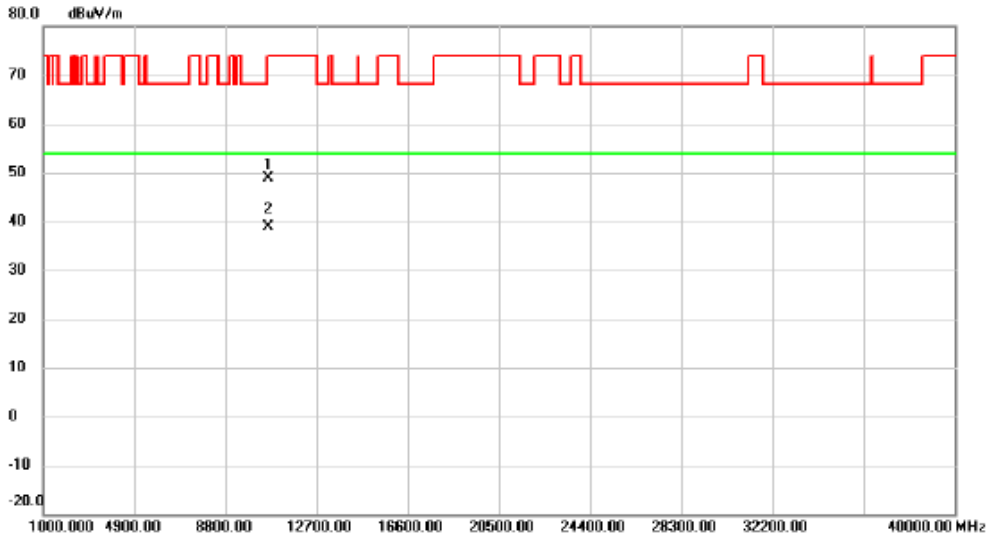


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5322.200	62.65	40.54	103.19	68.20	34.99	AVG	No Limit
2	*	5324.600	69.70	40.54	110.24	68.20	42.04	peak	No Limit
3		5350.000	21.70	40.59	62.29	74.00	-11.71	peak	
4		5350.000	11.99	40.59	52.58	54.00	-1.42	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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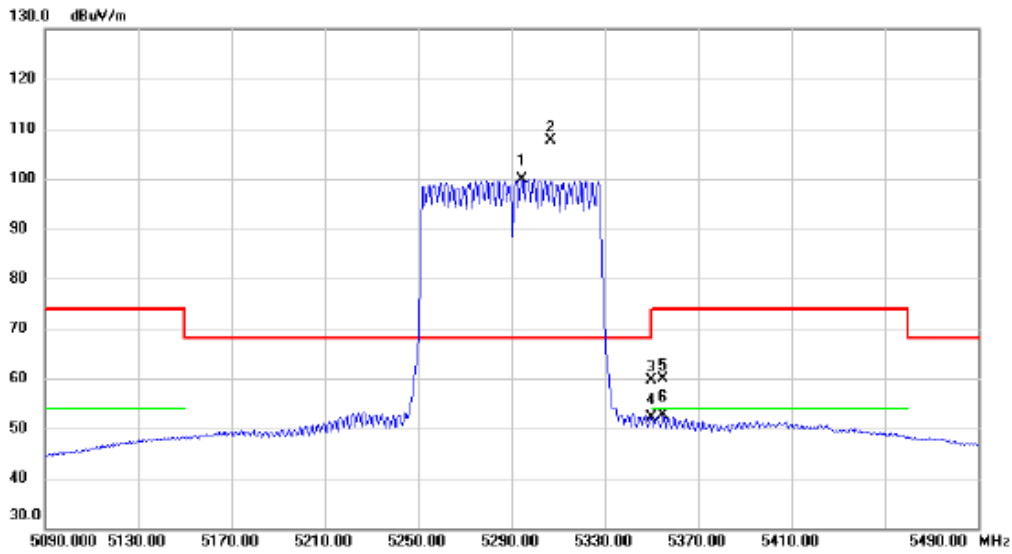


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10637.450	50.46	-1.60	48.86	74.00	-25.14	peak	
2	*	10638.900	40.38	-1.60	38.78	54.00	-15.22	AVG	

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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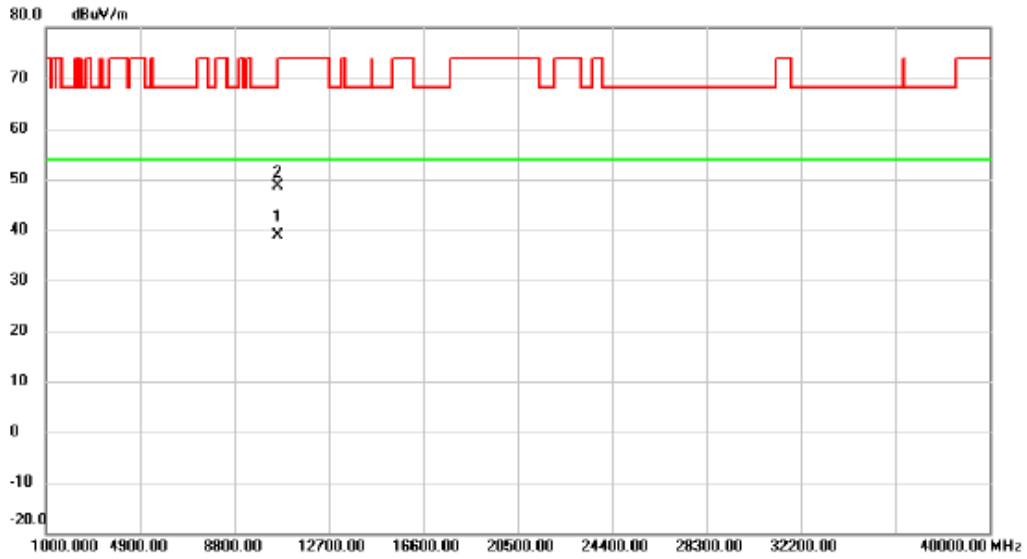


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5294.400	59.50	40.49	99.99	68.20	31.79	AVG	No Limit
2	*	5306.800	67.09	40.51	107.60	68.20	39.40	peak	No Limit
3		5350.000	19.12	40.59	59.71	74.00	-14.29	peak	
4		5350.000	11.66	40.59	52.25	54.00	-1.75	AVG	
5		5354.800	19.34	40.60	59.94	74.00	-14.06	peak	
6		5354.800	11.95	40.60	52.55	54.00	-1.45	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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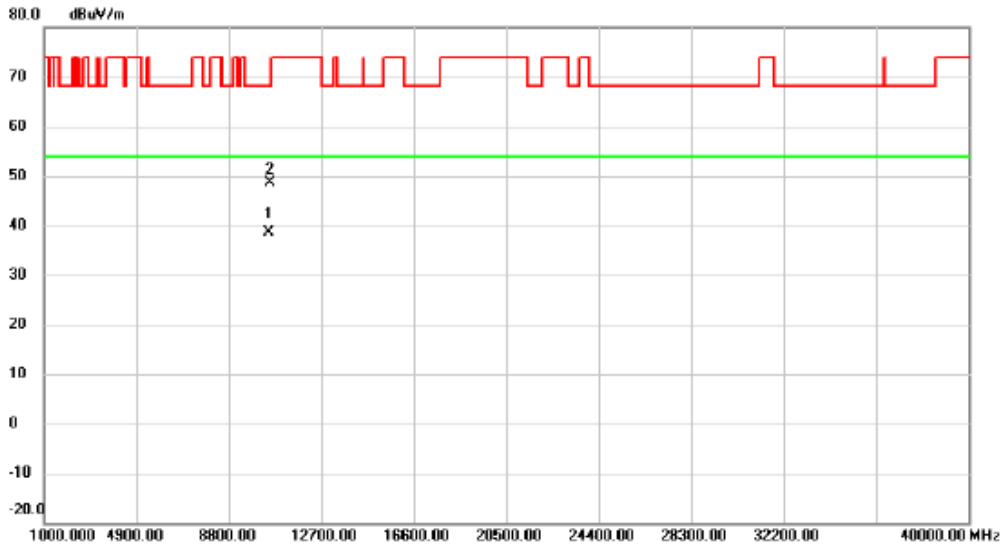


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10602.850	40.56	-1.68	38.88	54.00	-15.12	AVG	
2		10604.800	50.28	-1.67	48.61	74.00	-25.39	peak	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5260 MHz	Polarization	Vertical
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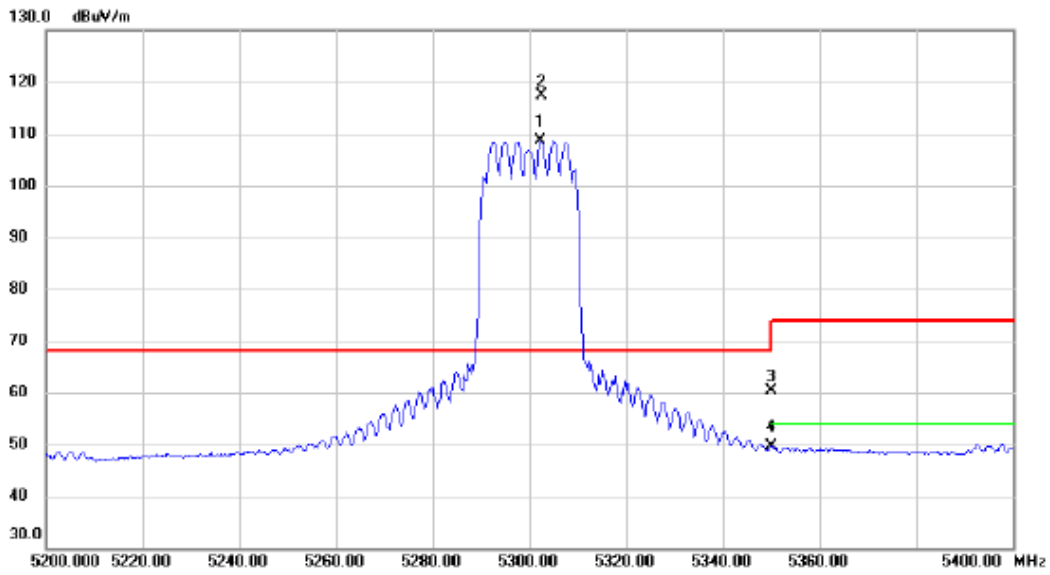


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10496.650	40.53	-1.91	38.62	54.00	-15.38	AVG	
2		10519.650	50.53	-1.85	48.68	68.20	-19.52	peak	

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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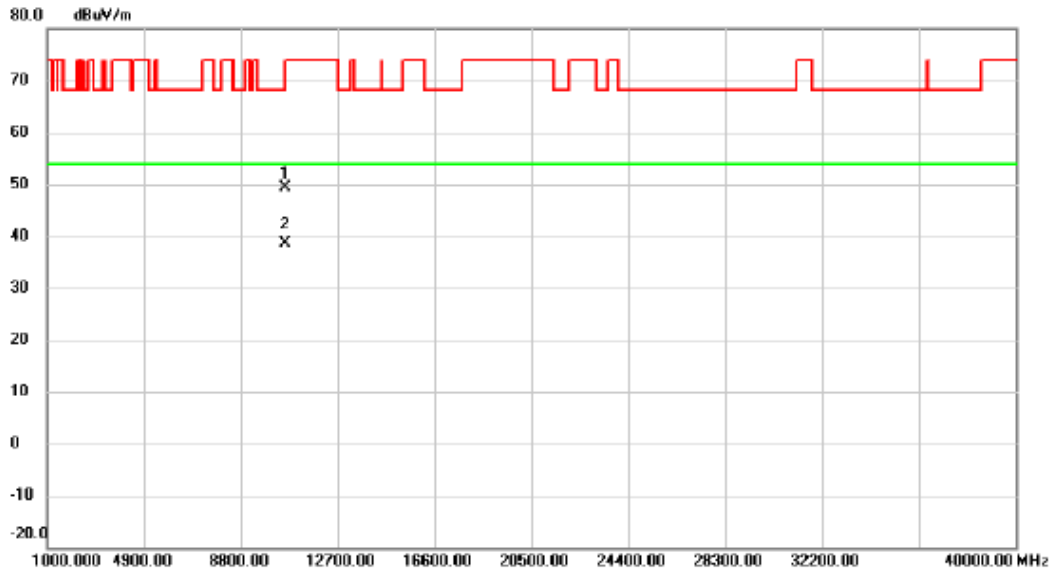


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	5302.400	68.06	40.50	108.56	68.20	40.36	AVG	No Limit
2	*	5302.600	76.85	40.50	117.35	68.20	49.15	peak	No Limit
3		5350.133	19.76	40.59	60.35	74.00	-13.65	peak	
4		5350.133	8.96	40.59	49.55	54.00	-4.45	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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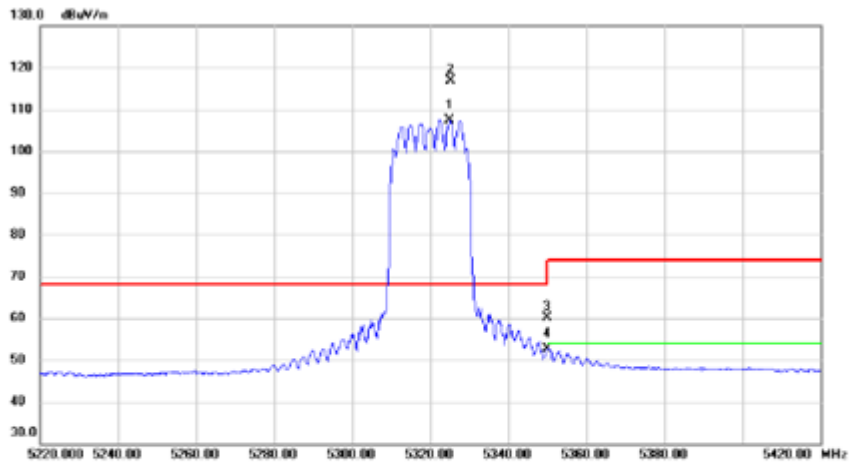


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10579.100	51.18	-1.73	49.45	68.20	-18.75	peak	
2 *	10590.250	40.43	-1.70	38.73	54.00	-15.27	AVG	

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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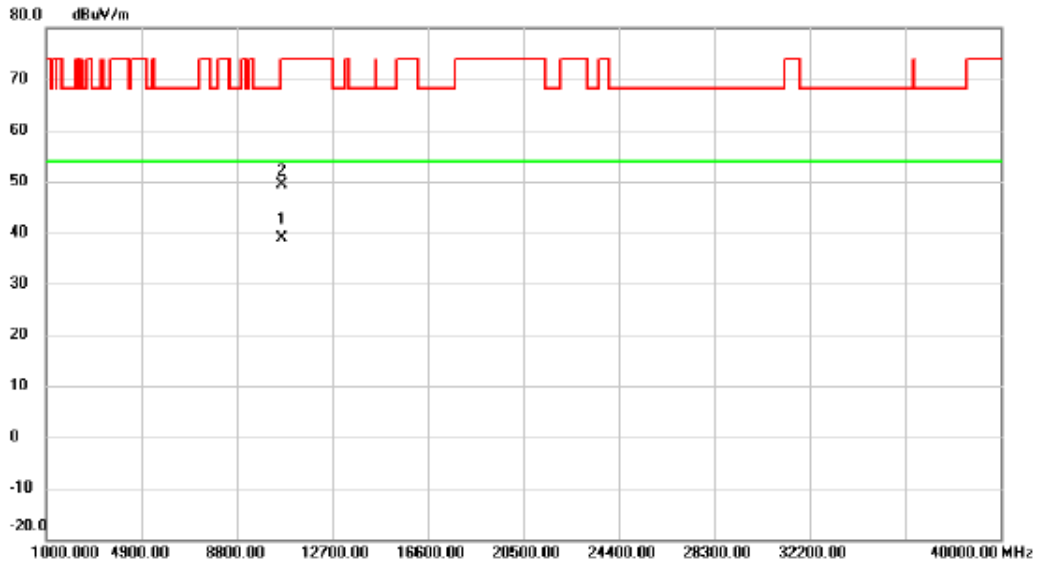


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5325.000	66.79	40.54	107.33	68.20	39.13	AVG	No Limit
2	*	5325.200	76.40	40.55	116.95	68.20	48.75	peak	No Limit
3		5350.000	19.64	40.59	60.23	74.00	-13.77	peak	
4		5350.000	11.96	40.59	52.55	54.00	-1.45	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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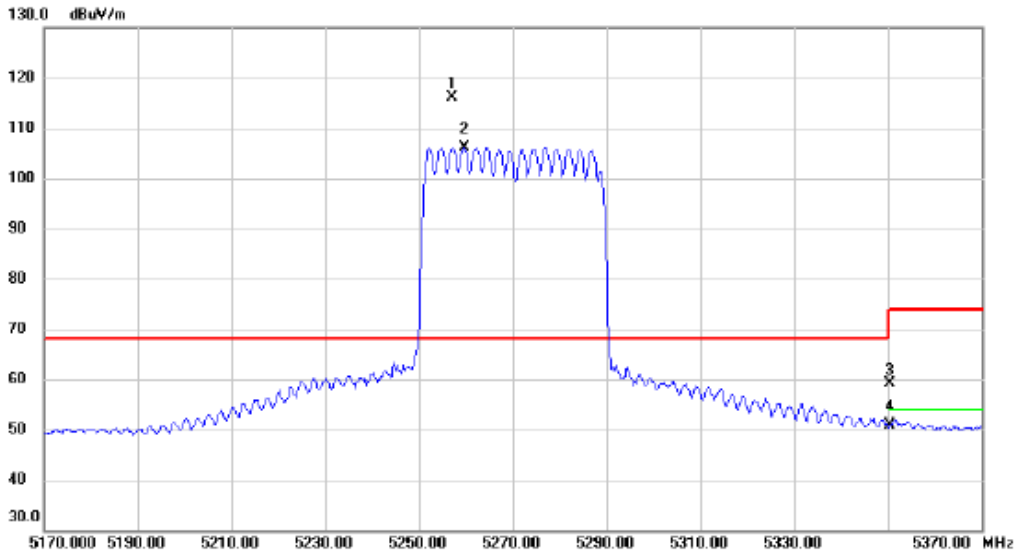


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10625.650	40.52	-1.63	38.89	54.00	-15.11	AVG	
2		10636.500	50.86	-1.60	49.26	74.00	-24.74	peak	

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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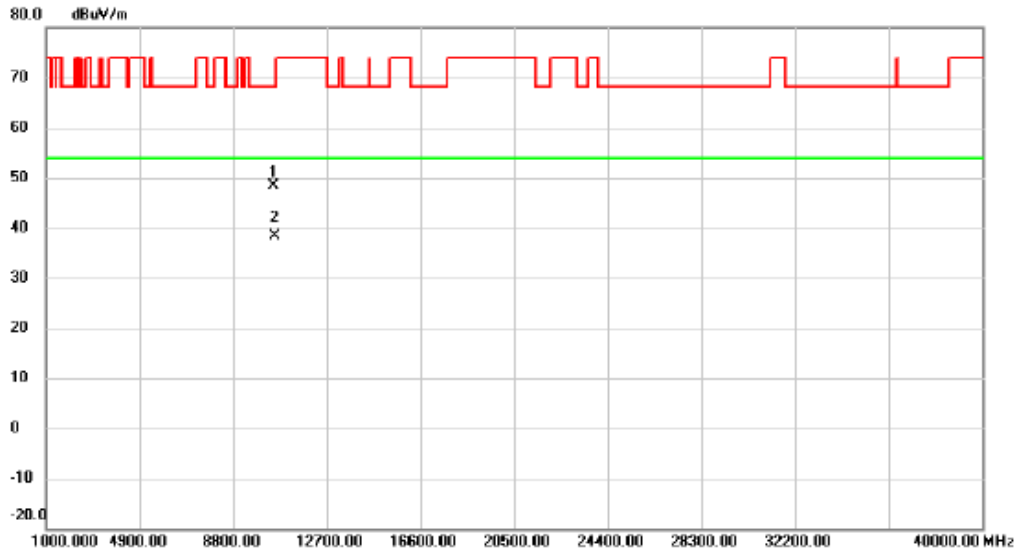


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5257.200	75.78	40.42	116.20	68.20	48.00	peak	No Limit
2	X	5259.800	65.72	40.43	106.15	68.20	37.95	AVG	No Limit
3		5350.267	18.46	40.59	59.05	74.00	-14.95	peak	
4		5350.533	10.16	40.60	50.76	54.00	-3.24	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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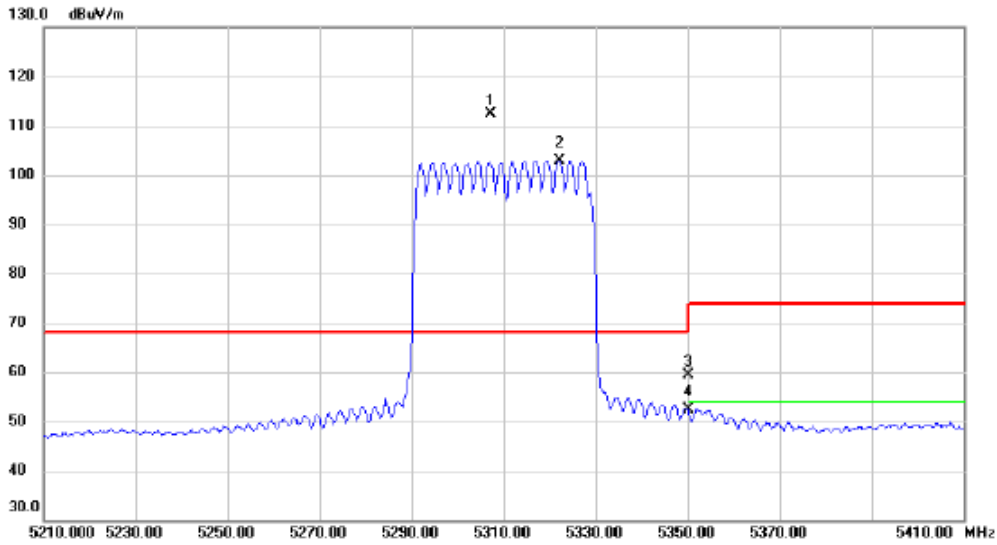


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		10515.750	50.34	-1.87	48.47	68.20	-19.73	peak	
2	*	10529.400	40.25	-1.84	38.41	54.00	-15.59	AVG	

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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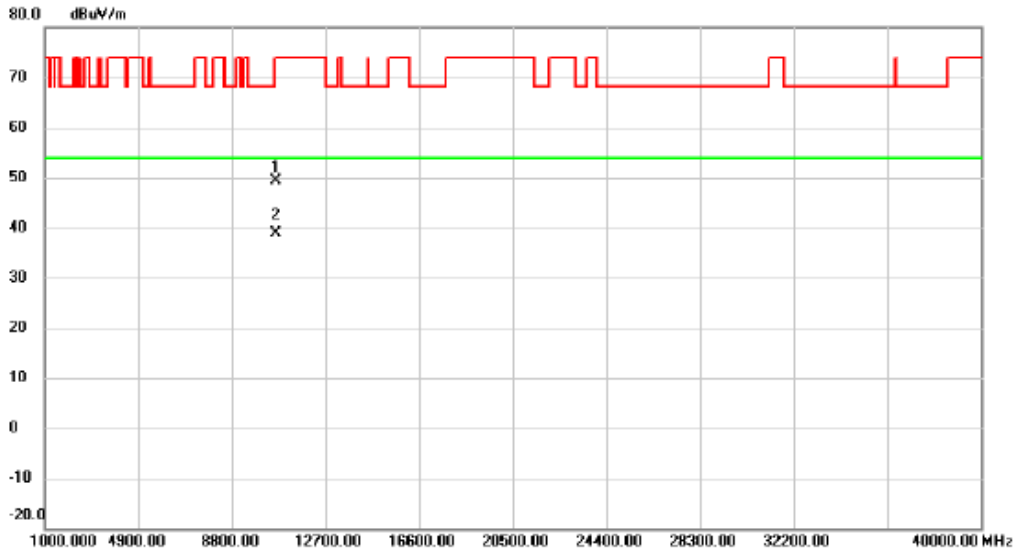


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5307.200	71.81	40.51	112.32	68.20	44.12	peak	No Limit
2	X	5322.000	62.40	40.54	102.94	68.20	34.74	AVG	No Limit
3		5350.000	18.80	40.59	59.39	74.00	-14.61	peak	
4		5350.000	11.70	40.59	52.29	54.00	-1.71	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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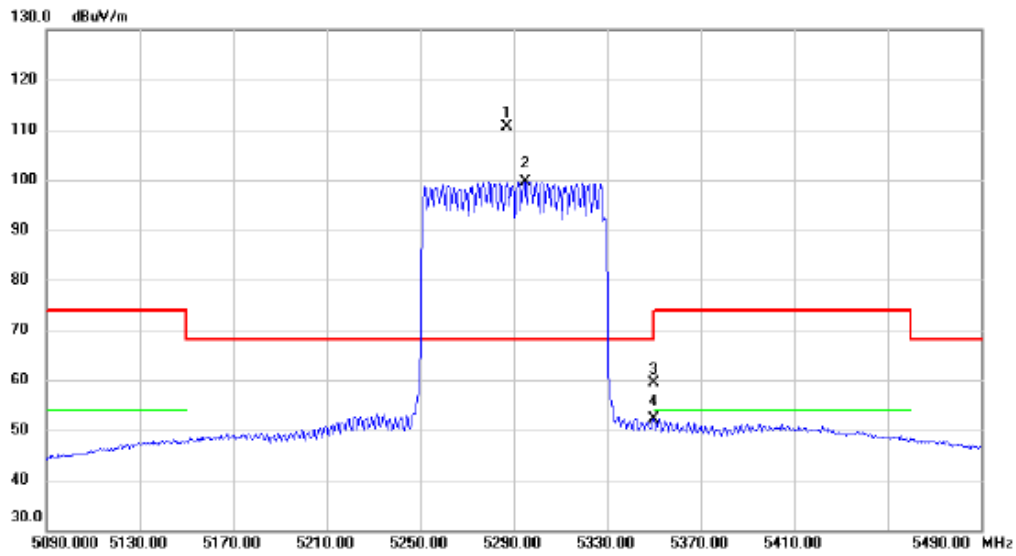


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10628.100	51.06	-1.63	49.43	74.00	-24.57	peak	
2 *	10636.600	40.47	-1.60	38.87	54.00	-15.13	AVG	

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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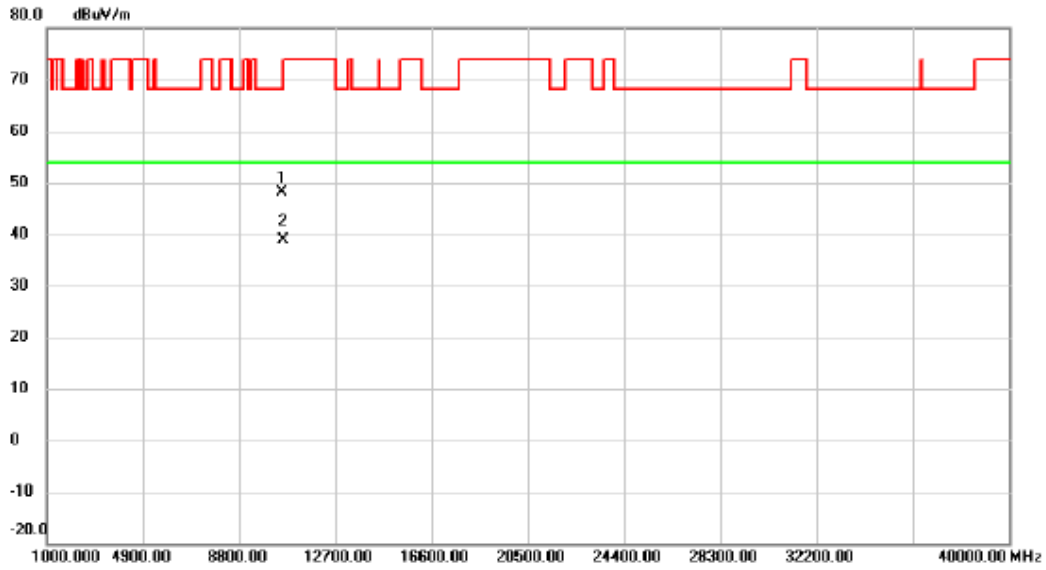
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5287.200	70.20	40.47	110.67	68.20	42.47	peak	No Limit
2	X	5294.800	59.26	40.49	99.75	68.20	31.55	AVG	No Limit
3		5350.000	18.85	40.59	59.44	74.00	-14.56	peak	
4		5350.000	11.51	40.59	52.10	54.00	-1.90	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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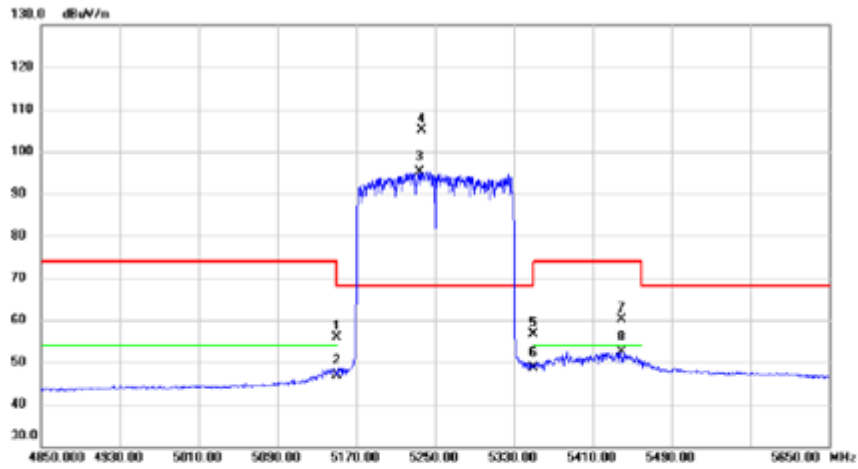


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10556.500	50.00	-1.78	48.22	68.20	-19.98	peak	
2 *	10601.300	40.63	-1.69	38.94	54.00	-15.06	AVG	

REMARKS:

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

Test Mode	UNII-1+UNII-2A_TX AC(VHT160) Mode 5250 MHz	Polarization	Vertical
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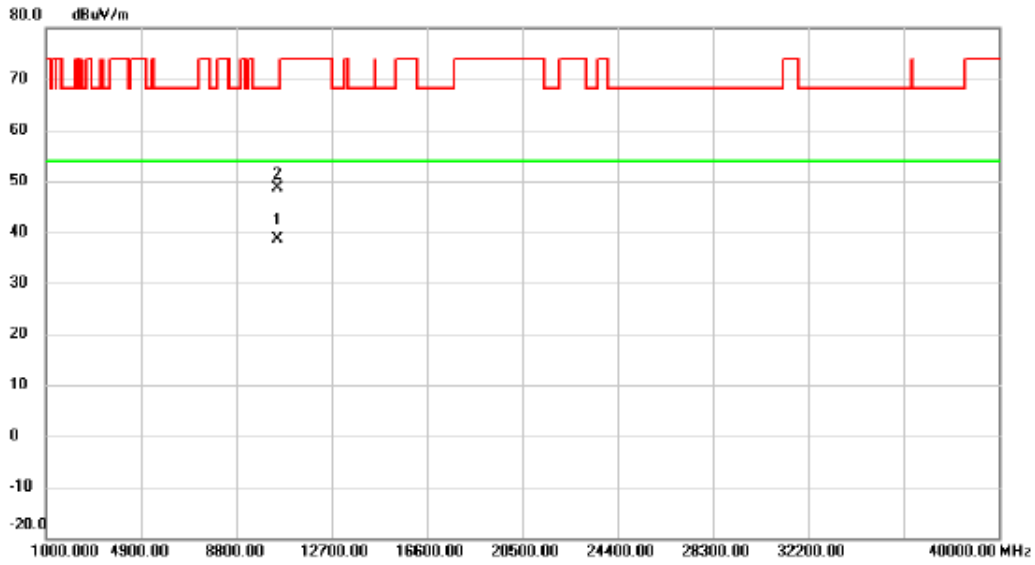


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.000	15.73	40.22	55.95	74.00	-18.05	peak	
2	5150.000	6.75	40.22	46.97	54.00	-7.03	AVG	
3 X	5234.000	54.84	40.38	95.22	68.20	27.02	AVG	No Limit
4 *	5236.400	64.80	40.38	105.18	68.20	36.98	peak	No Limit
5	5350.000	16.06	40.59	56.65	74.00	-17.35	peak	
6	5350.000	8.14	40.59	48.73	54.00	-5.27	AVG	
7	5439.000	19.36	40.76	60.12	74.00	-13.88	peak	
8	5439.600	11.51	40.76	52.27	54.00	-1.73	AVG	

REMARKS:

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

Test Mode	UNII-1+UNII-2A_TX AC(VHT160) Mode 5250 MHz	Polarization	Vertical
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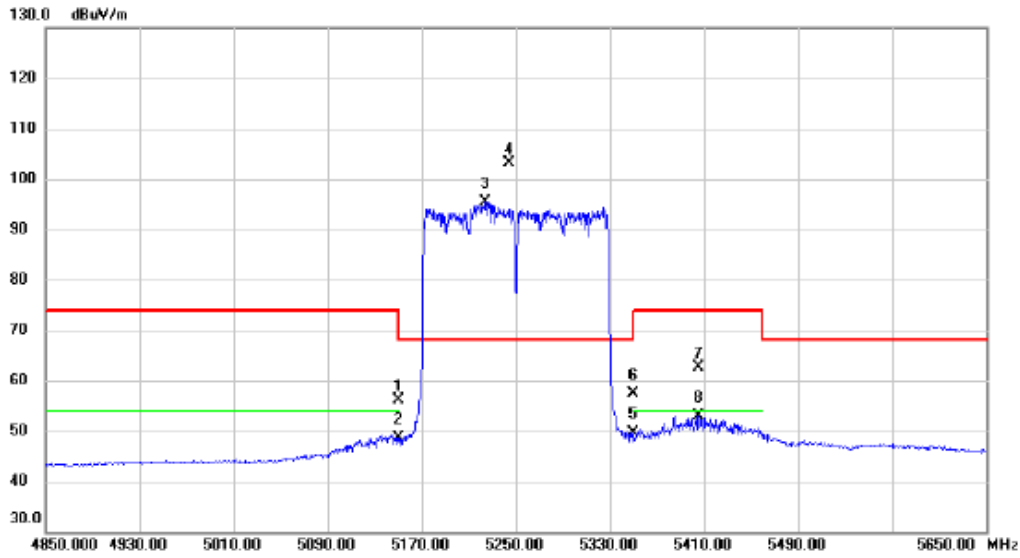


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10493.100	40.65	-1.92	38.73	54.00	-15.27	AVG	
2	10496.850	50.62	-1.91	48.71	68.20	-19.49	peak	

REMARKS:

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

Test Mode	UNII-1+UNII-2A_TX AX(HE160) Mode 5250 MHz	Polarization	Vertical
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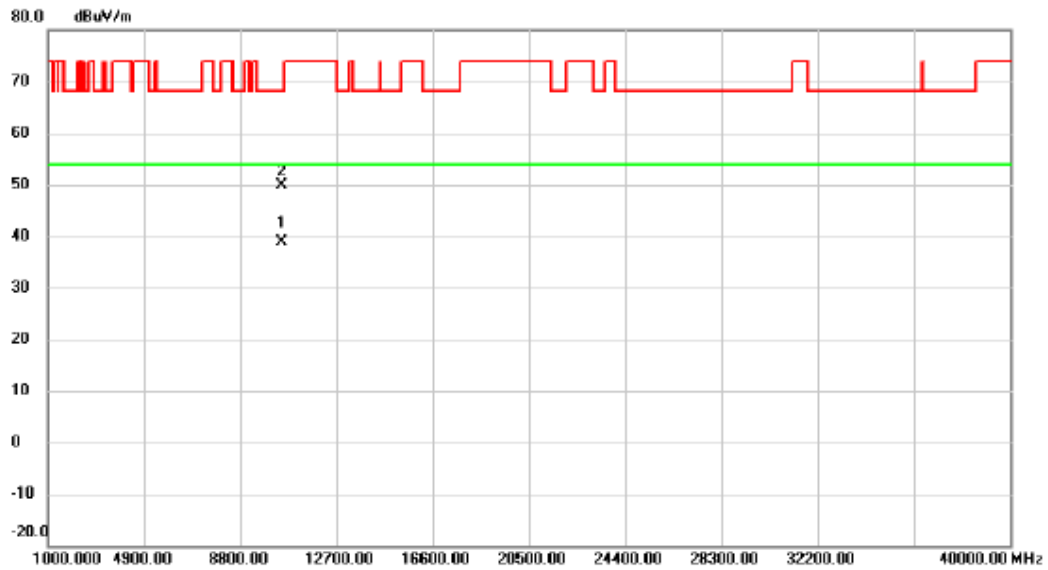


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	15.86	40.22	56.08	74.00	-17.92	peak	
2		5150.000	8.36	40.22	48.58	54.00	-5.42	AVG	
3	X	5224.400	55.15	40.35	95.50	68.20	27.30	AVG	
4	*	5244.400	62.69	40.40	103.09	68.20	34.89	peak	No Limit
5		5350.000	8.97	40.59	49.56	54.00	-4.44	AVG	
6	X	5350.000	16.72	40.59	57.31	54.00	3.31	AVG	No Limit
7		5405.200	21.84	40.69	62.53	74.00	-11.47	peak	
8		5405.200	12.27	40.69	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-1+UNII-2A_TX AX(HE160) Mode 5250 MHz	Polarization	Vertical
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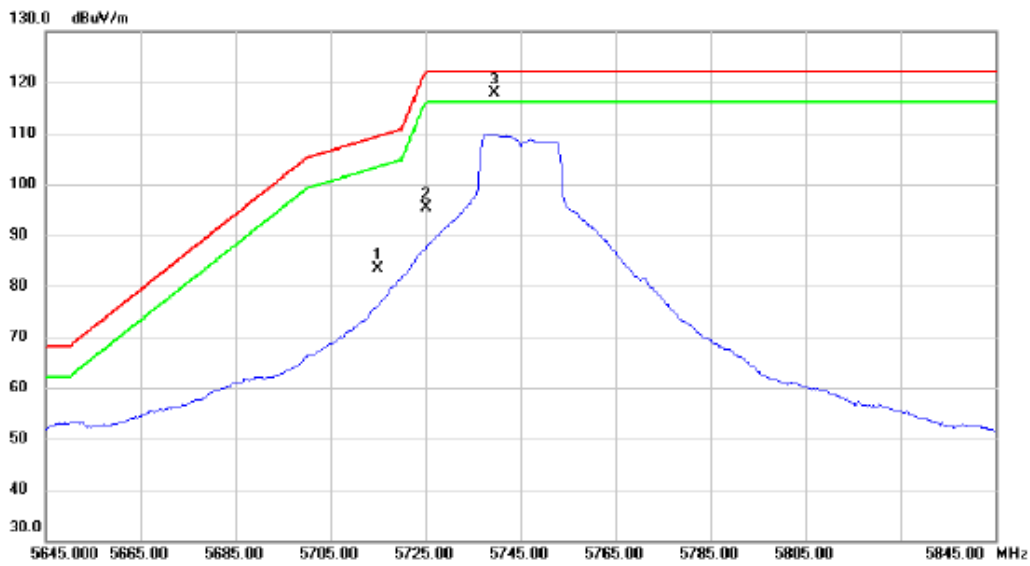


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10491.750	40.69	-1.92	38.77	54.00	-15.23	AVG	
2	10506.400	51.75	-1.88	49.87	68.20	-18.33	peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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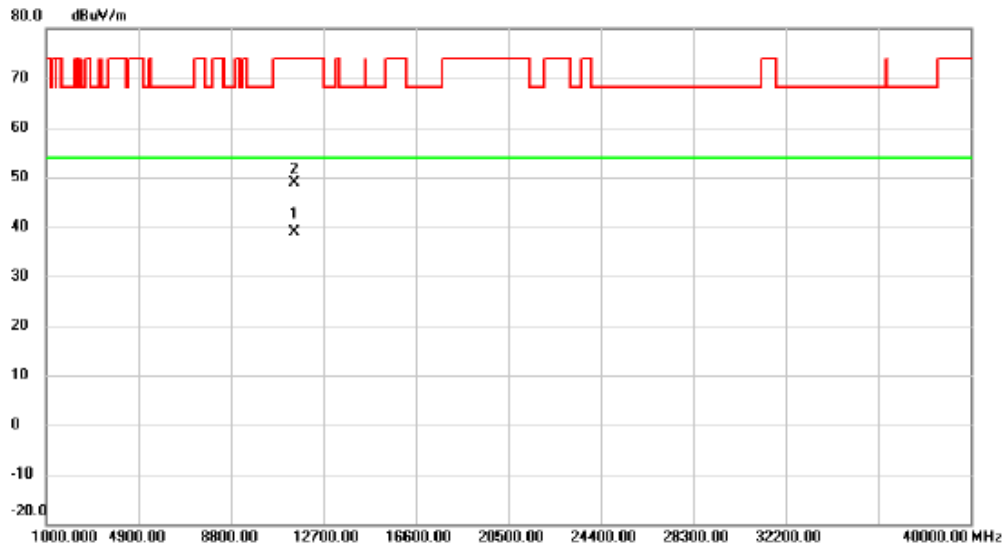


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.000	42.06	41.41	83.47	109.4	-25.93	peak	
2	5725.000	53.98	41.43	95.41	122.2	-26.79	peak	
3 *	5739.600	76.36	41.47	117.83	122.2	-4.37	peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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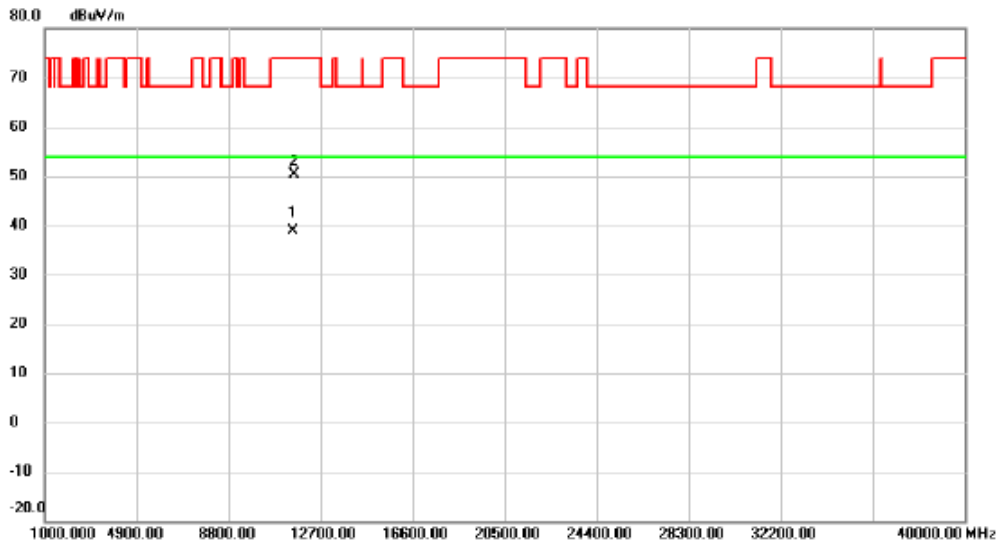


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11477.850	39.56	-0.77	38.79	54.00	-15.21	AVG	
2		11502.750	49.70	-0.76	48.94	74.00	-25.06	peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical
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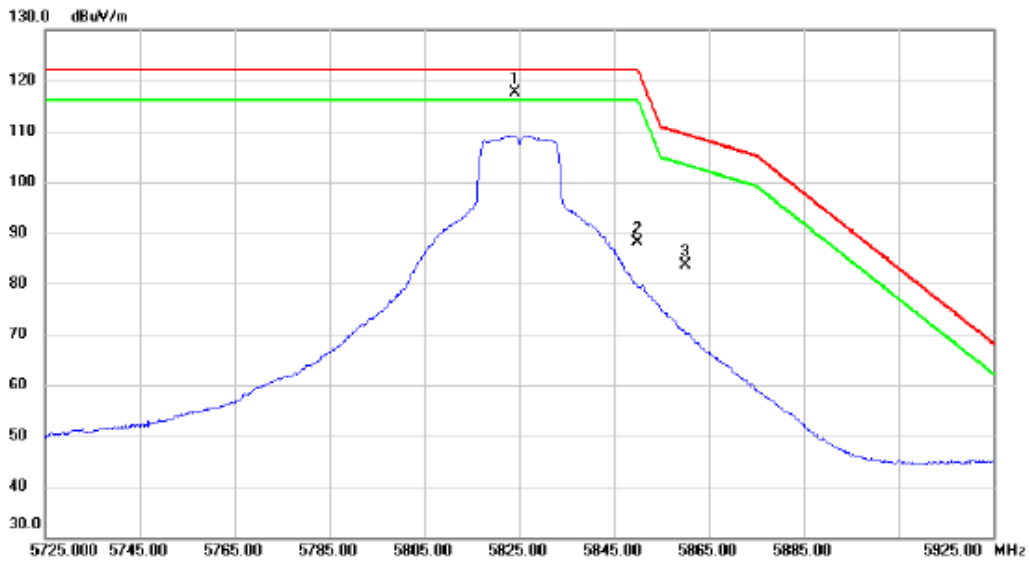


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11547.300	39.59	-0.80	38.79	54.00	-15.21	AVG	
2		11573.950	51.23	-0.82	50.41	74.00	-23.59	peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical
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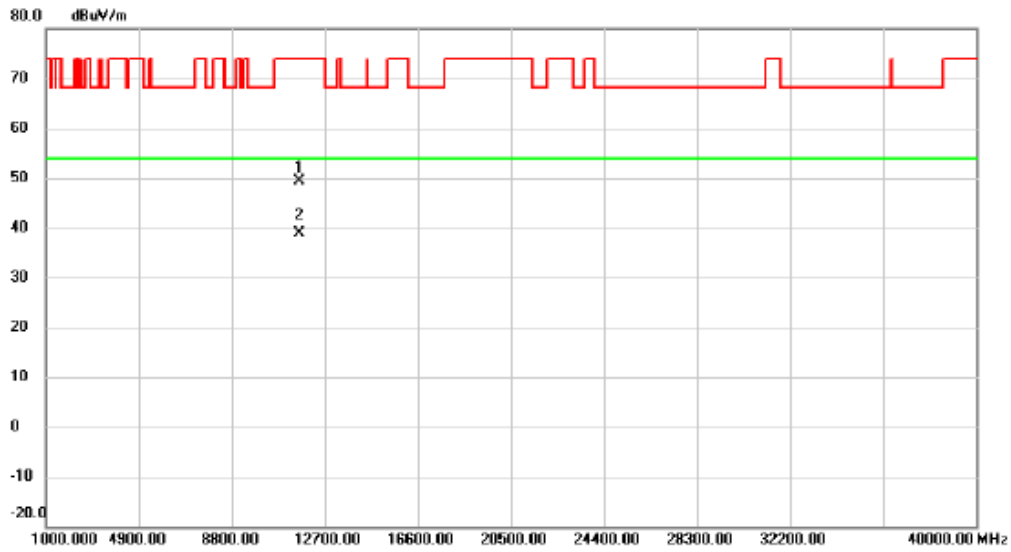


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	5824.000	75.83	41.68	117.51	122.2	-4.69	peak	No Limit
2	5850.000	46.44	41.74	88.18	122.2	-34.02	peak	
3	5860.000	41.96	41.76	83.72	109.4	-25.68	peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical
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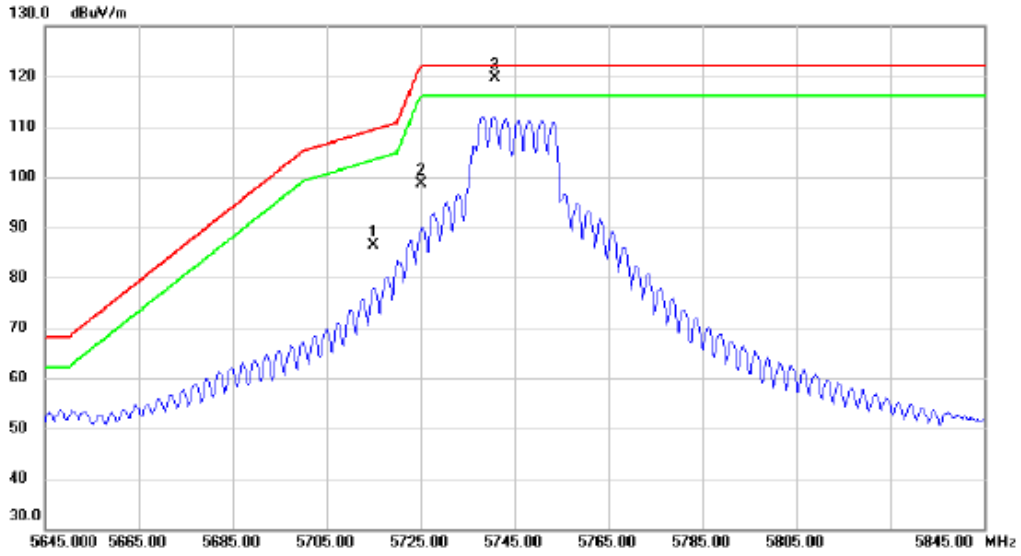


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11635.950	50.23	-0.86	49.37	74.00	-24.63	peak	
2 *	11656.100	39.69	-0.87	38.82	54.00	-15.18	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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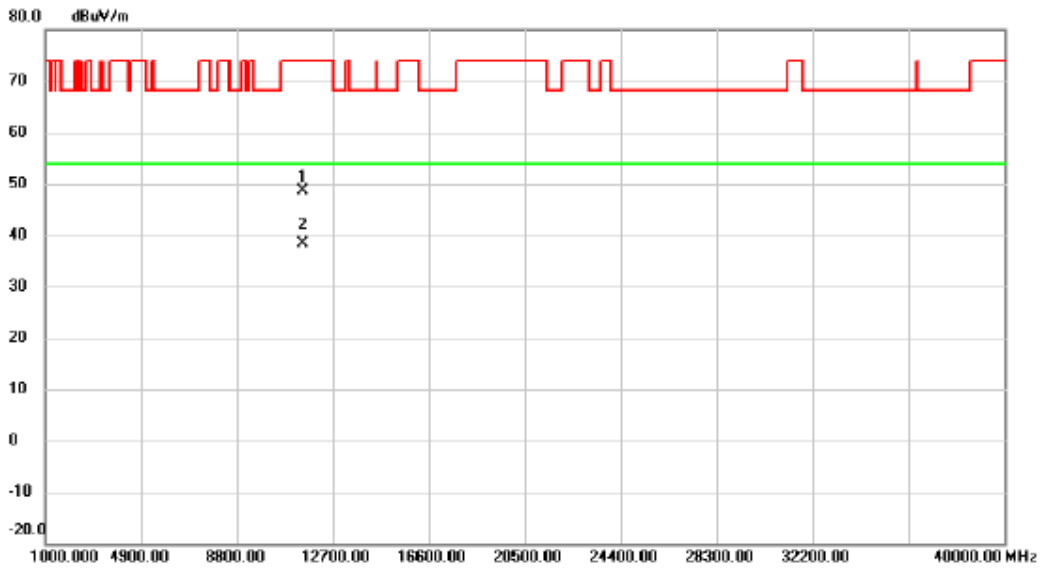


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	44.86	41.41	86.27	109.4	-23.13	peak	
2		5725.000	57.31	41.43	98.74	122.2	-23.46	peak	
3	*	5740.800	78.09	41.47	119.56	122.2	-2.64	peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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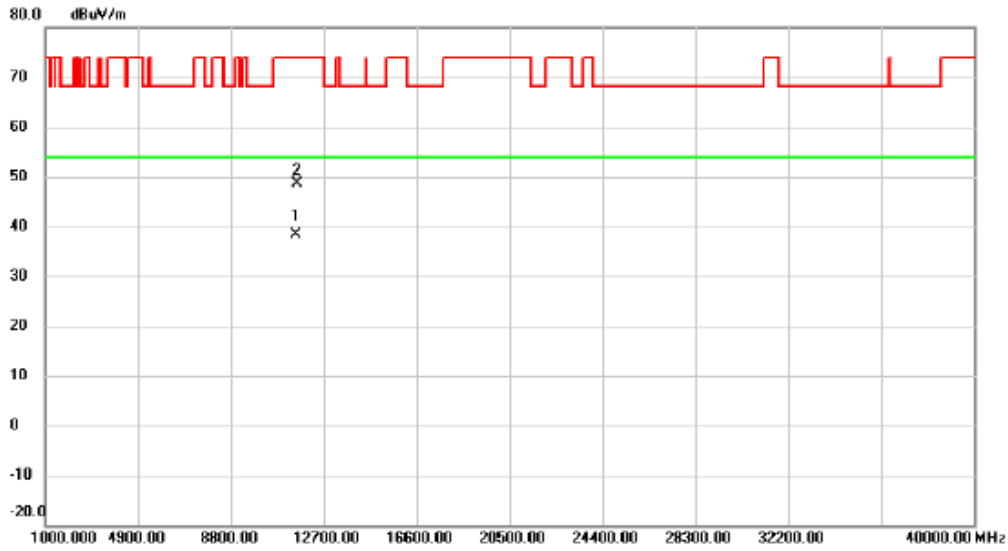


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11494.900	49.32	-0.77	48.55	74.00	-25.45	peak	
2	*	11500.650	39.10	-0.76	38.34	54.00	-15.66	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical
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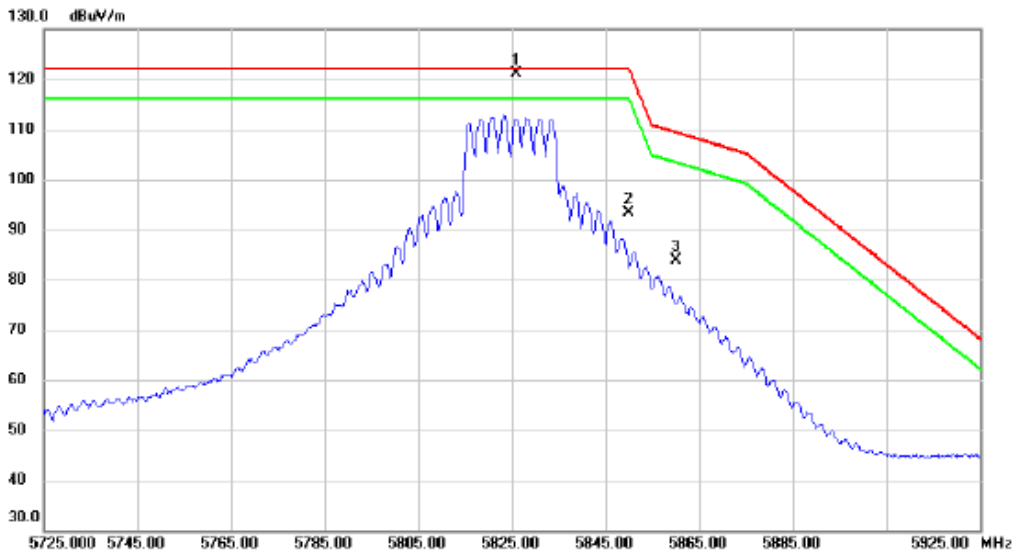


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	11547.850	39.30	-0.80	38.50	54.00	-15.50	AVG	
2		11571.400	49.53	-0.82	48.71	74.00	-25.29	peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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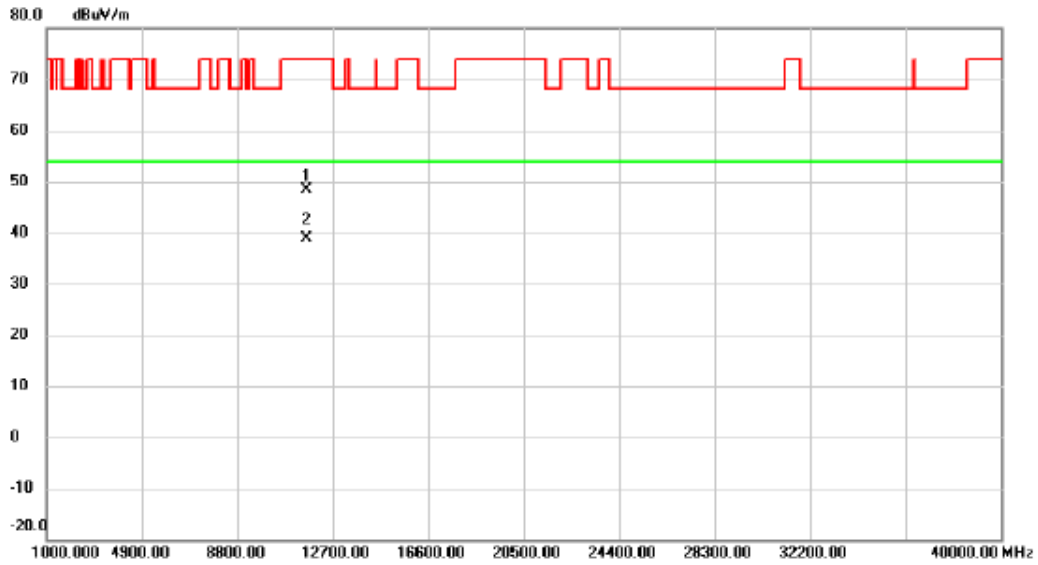


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5825.800	79.35	41.68	121.03	122.2	-1.17	peak	No Limit
2		5850.000	51.66	41.74	93.40	122.2	-28.80	peak	
3		5860.000	42.16	41.76	83.92	109.4	-25.48	peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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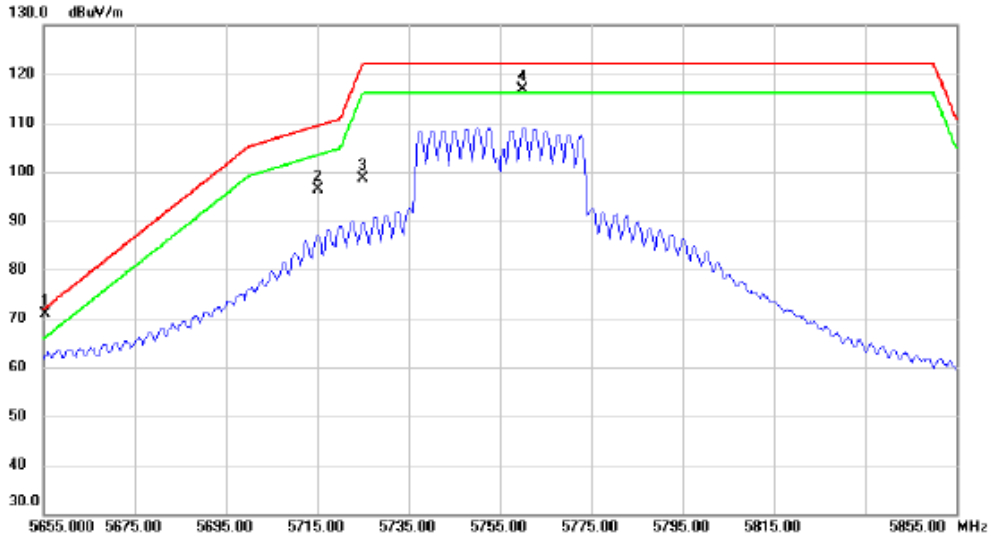


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11651.150	49.32	-0.86	48.46	74.00	-25.54	peak	
2 *	11652.700	39.72	-0.86	38.86	54.00	-15.14	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
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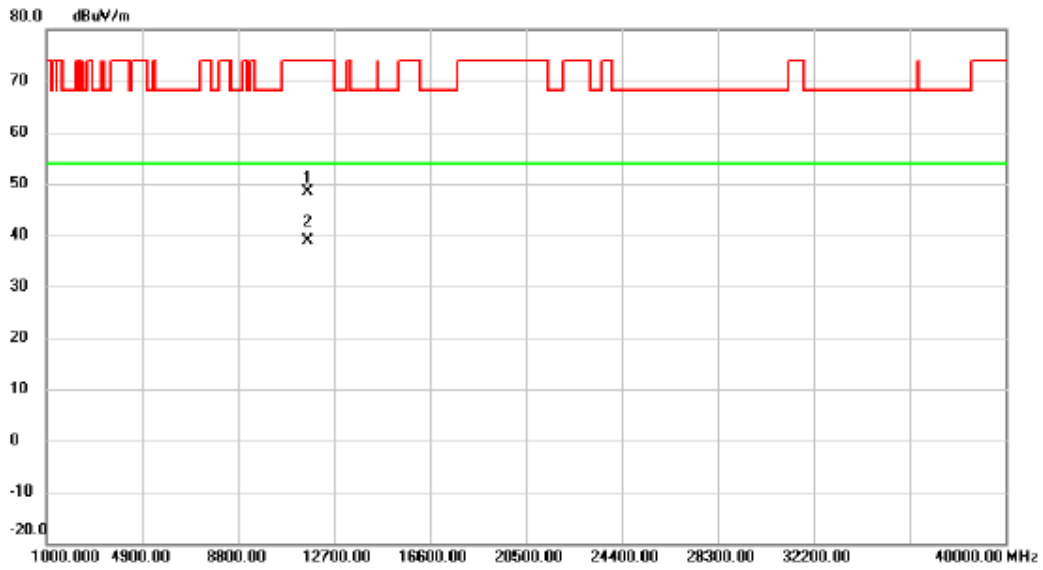


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5655.533	29.73	41.26	70.99	72.29	-1.30	peak	
2		5715.000	54.87	41.41	96.28	109.4	-13.12	peak	
3		5725.000	57.24	41.43	98.67	122.2	-23.53	peak	
4	!	5760.000	75.33	41.52	116.85	122.2	-5.35	peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
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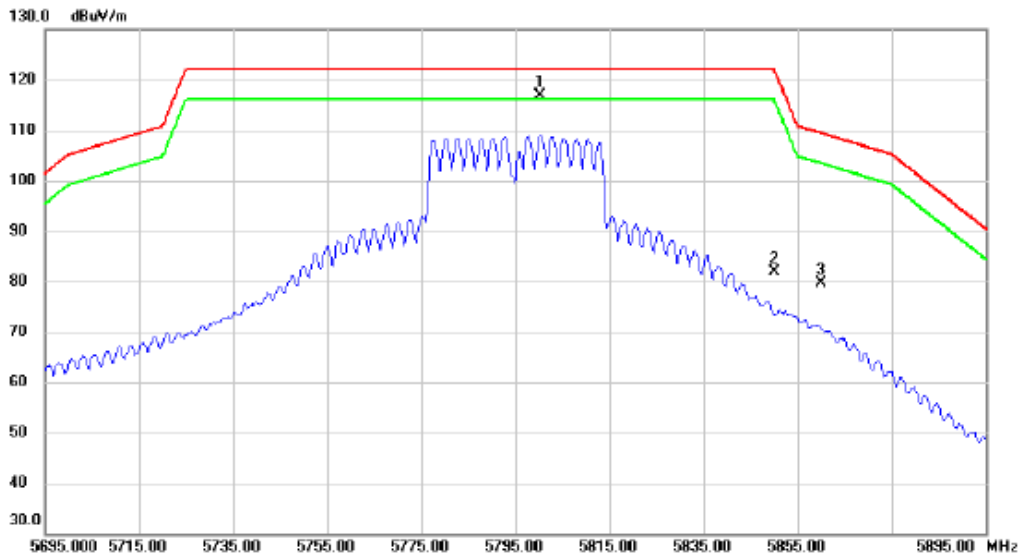


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11651.150	49.32	-0.86	48.46	74.00	-25.54	peak	
2 *	11652.700	39.72	-0.86	38.86	54.00	-15.14	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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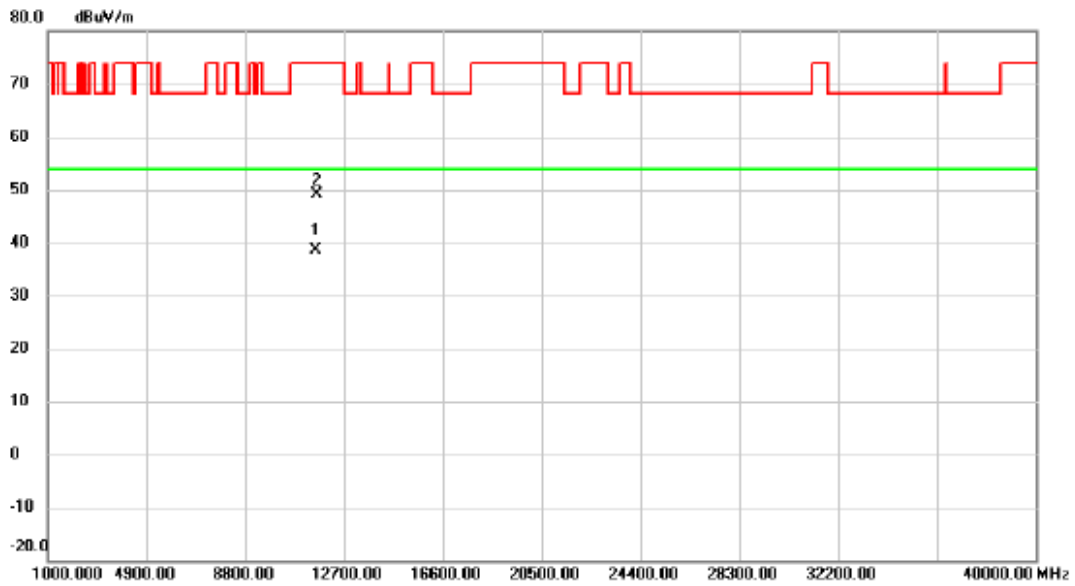


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5800.200	75.14	41.62	116.76	122.2	-5.44	peak	No Limit
2		5850.000	40.06	41.74	81.80	122.2	-40.40	peak	
3		5860.000	37.89	41.76	79.65	109.4	-29.75	peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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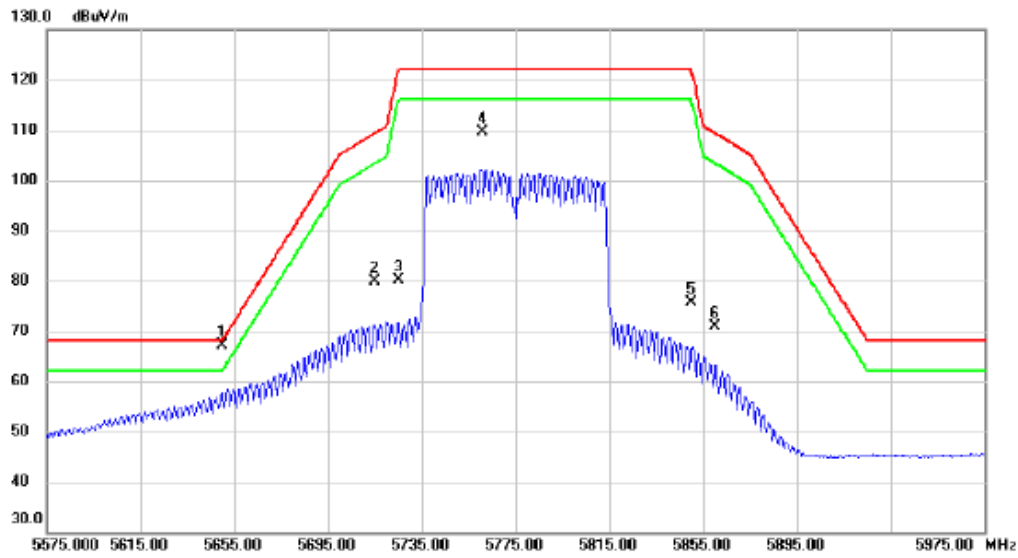


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11570.700	39.45	-0.82	38.63	54.00	-15.37	AVG	
2		11608.250	49.92	-0.84	49.08	74.00	-24.92	peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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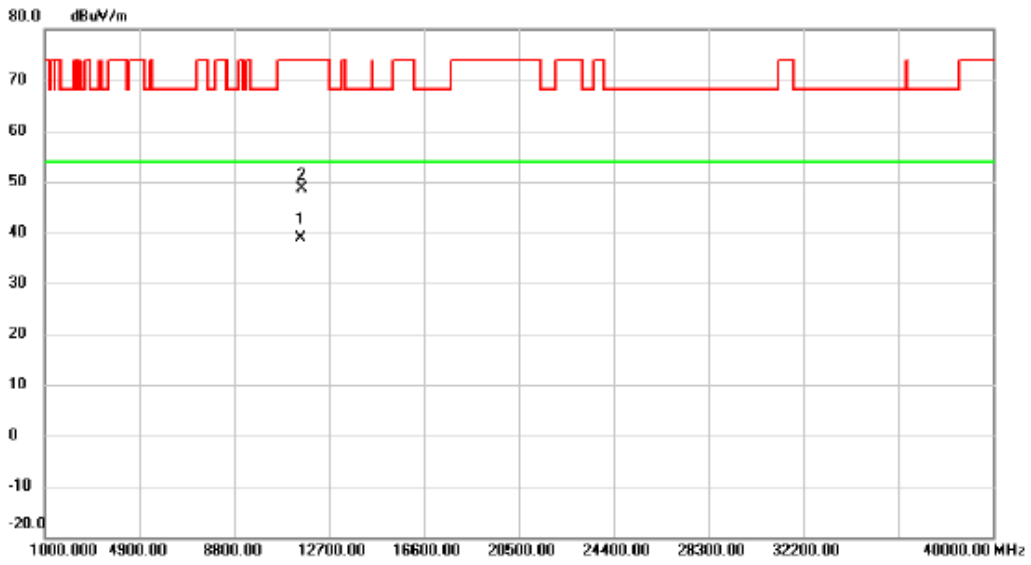


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	5649.667	25.88	41.25	67.13	68.20	-1.07	peak	
2	5715.000	38.39	41.41	79.80	109.4	-29.60	peak	
3	5725.000	38.68	41.43	80.11	122.2	-42.09	peak	
4	5760.600	68.21	41.52	109.73	122.2	-12.47	peak	No Limit
5	5850.000	33.87	41.74	75.61	122.2	-46.59	peak	
6	5860.000	29.16	41.76	70.92	109.4	-38.48	peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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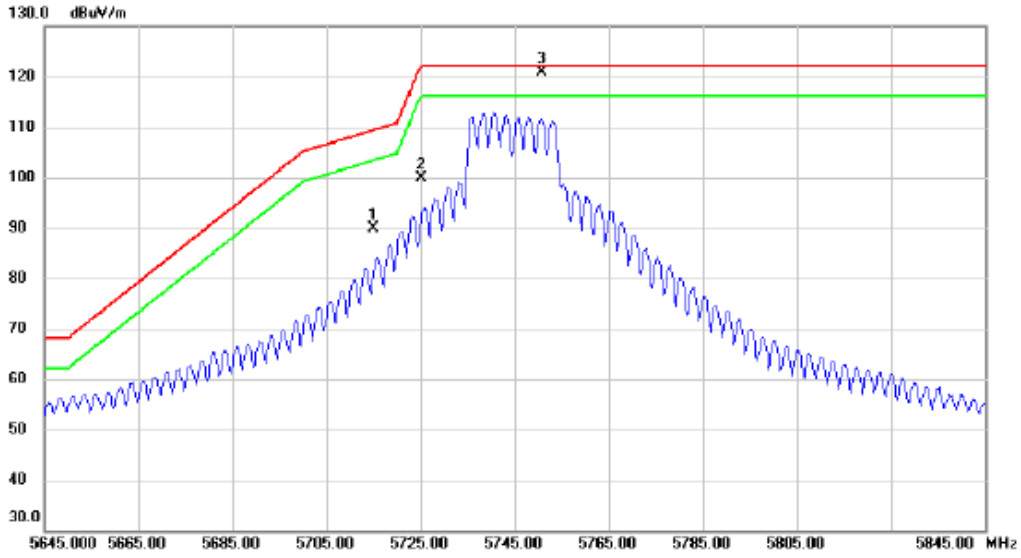


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11555.300	39.61	-0.80	38.81	54.00	-15.19	AVG	
2	11568.150	49.45	-0.82	48.63	74.00	-25.37	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE20) Mode 5745 MHz	Polarization	Vertical
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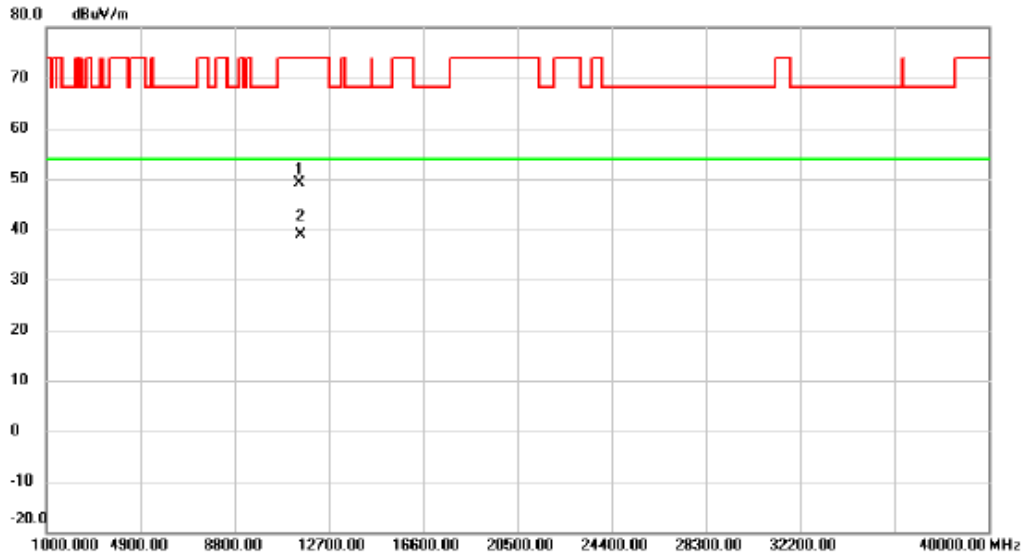


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	48.57	41.41	89.98	109.4	-19.42	peak	
2		5725.000	58.52	41.43	99.95	122.2	-22.25	peak	
3	*	5750.600	79.40	41.49	120.89	122.2	-1.31	peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AX(HE20) Mode 5745 MHz	Polarization	Vertical
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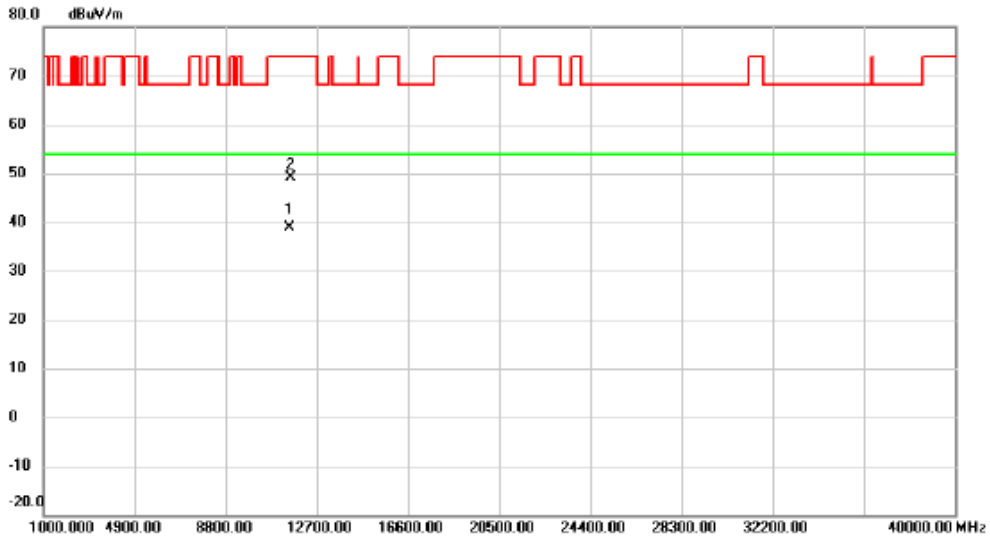


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11475.250	49.82	-0.77	49.05	74.00	-24.95	peak	
2 *	11510.250	39.63	-0.77	38.86	54.00	-15.14	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE20) Mode 5785 MHz	Polarization	Vertical
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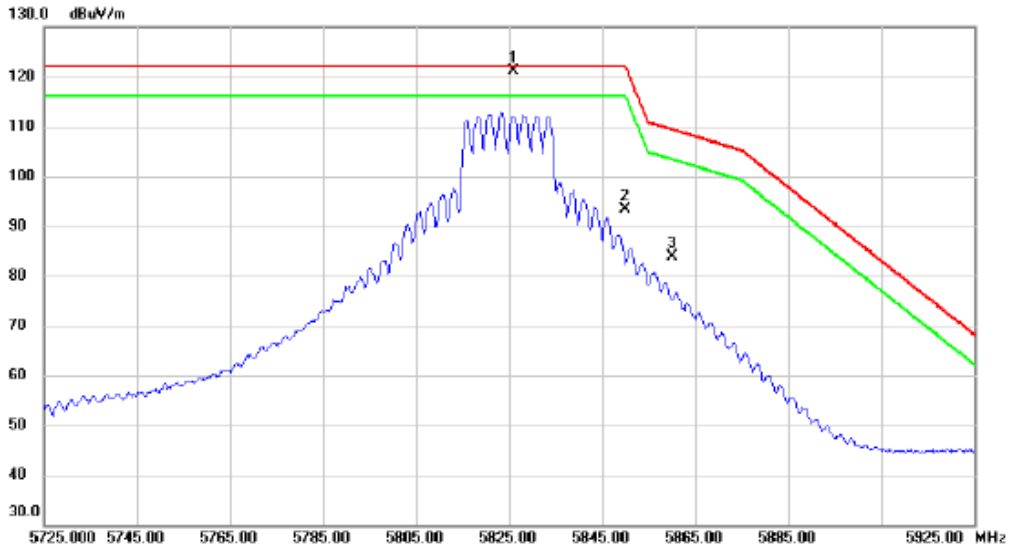


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11550.600	39.66	-0.80	38.86	54.00	-15.14	AVG	
2		11575.250	50.03	-0.82	49.21	74.00	-24.79	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE20) Mode 5825 MHz	Polarization	Vertical
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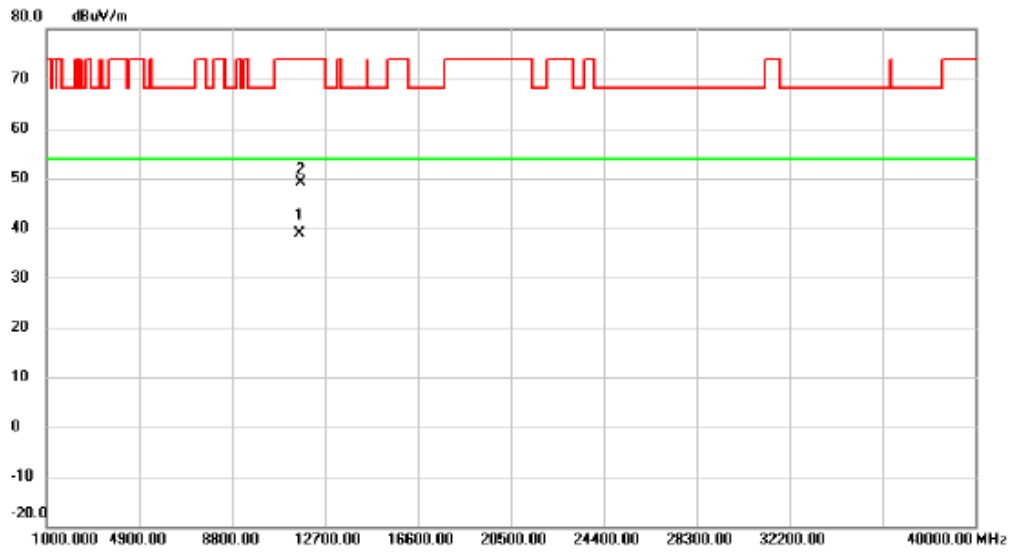


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	5825.800	79.35	41.68	121.03	122.2	-1.17	peak	No Limit
2	5850.000	51.66	41.74	93.40	122.2	-28.80	peak	
3	5860.000	42.16	41.76	83.92	109.4	-25.48	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE20) Mode 5825 MHz	Polarization	Vertical
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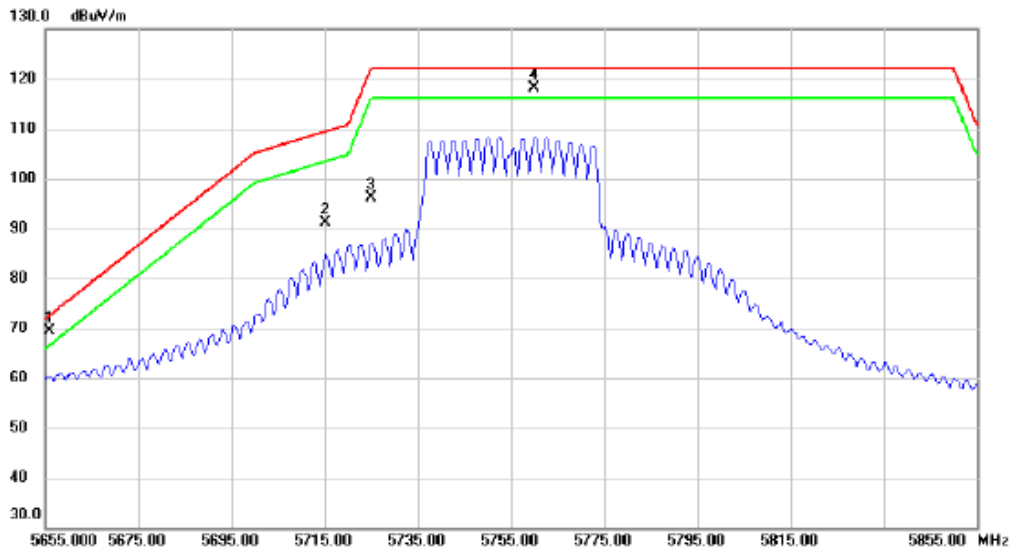


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11658.300	39.80	-0.87	38.93	54.00	-15.07	AVG	
2	11663.500	50.06	-0.87	49.19	74.00	-24.81	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
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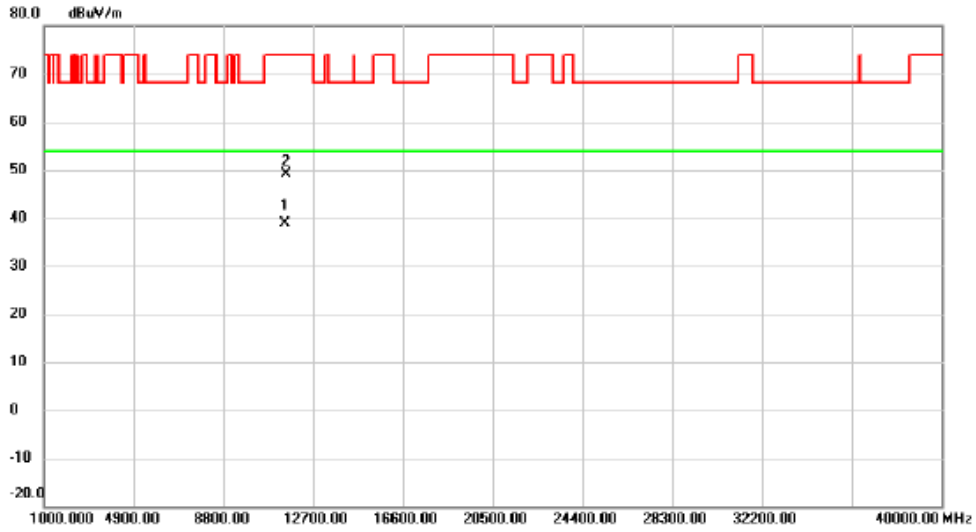


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5655.800	28.15	41.26	69.41	72.49	-3.08	peak	
2		5715.000	49.69	41.41	91.10	109.4	-18.30	peak	
3		5725.000	54.70	41.43	96.13	122.2	-26.07	peak	
4	!	5760.000	76.67	41.52	118.19	122.2	-4.01	peak	No Limit

REMARKS:

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

Test Mode	UNII-3_TX AX(HE40) Mode 5755 MHz	Polarization	Vertical
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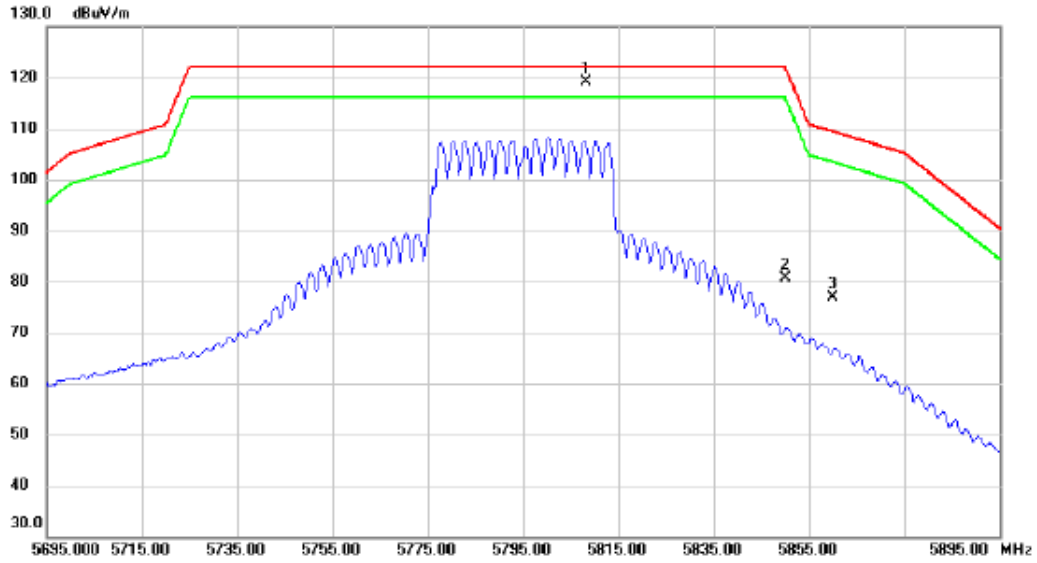


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11500.650	39.59	-0.76	38.83	54.00	-15.17	AVG	
2		11521.050	49.80	-0.78	49.02	74.00	-24.98	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE40) Mode 5795 MHz	Polarization	Vertical
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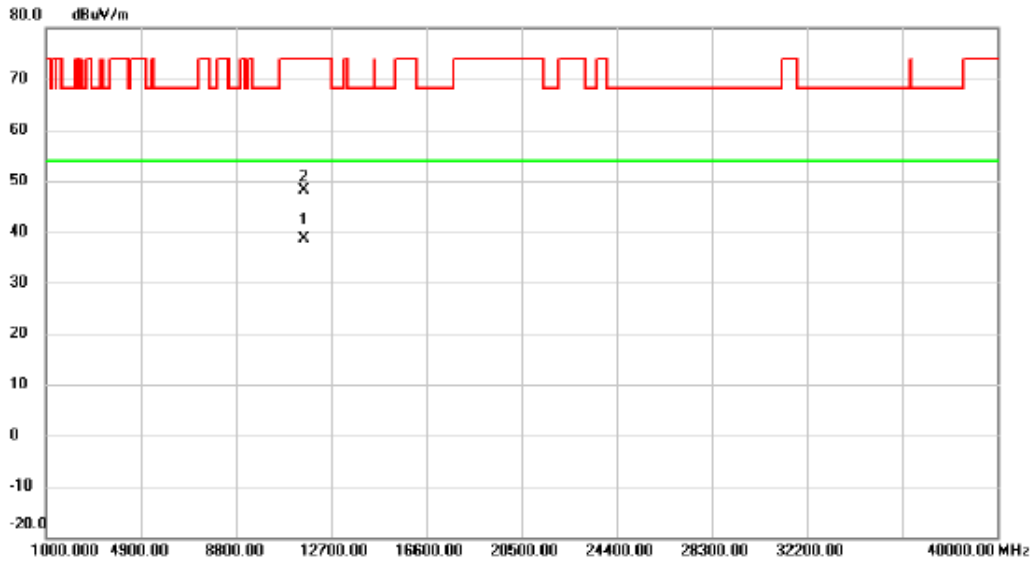


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1 *	5808.200	77.48	41.64	119.12	122.2	-3.08	peak	No Limit
2	5850.000	38.80	41.74	80.54	122.2	-41.66	peak	
3	5860.000	35.21	41.76	76.97	109.4	-32.43	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE40) Mode 5795 MHz	Polarization	Vertical
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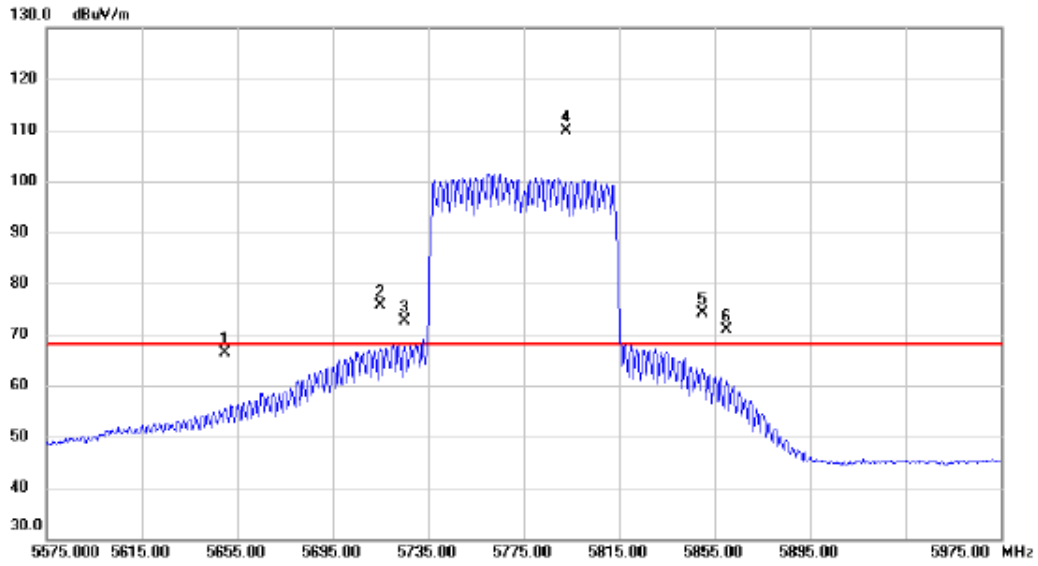


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11573.250	39.51	-0.82	38.69	54.00	-15.31	AVG	
2		11592.200	48.91	-0.83	48.08	74.00	-25.92	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE80) Mode 5775 MHz	Polarization	Vertical
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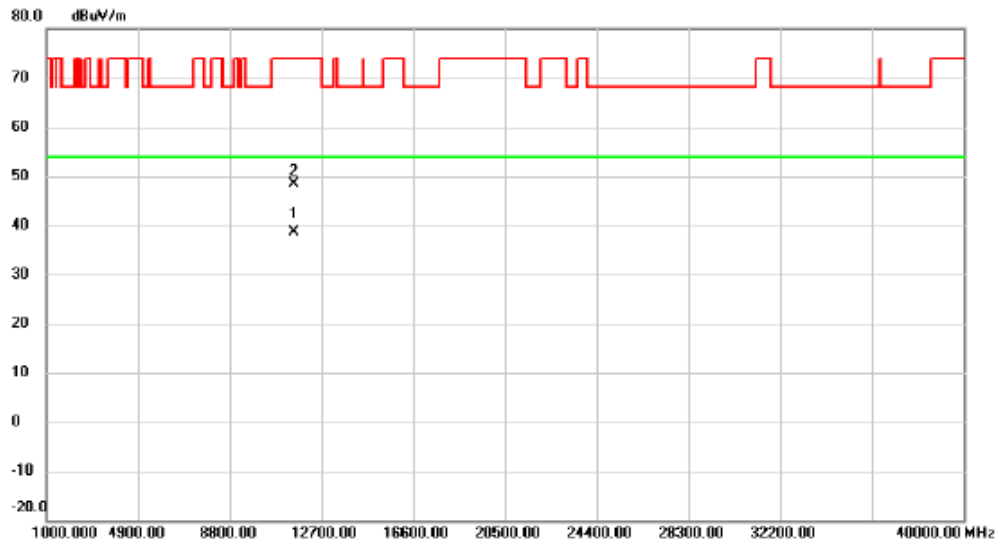


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5649.800	25.02	41.25	66.27	68.20	-1.93	peak	
2	X	5715.000	34.21	41.41	75.62	68.20	7.42	peak	
3	X	5725.000	31.23	41.43	72.66	68.20	4.46	peak	
4	*	5792.600	68.23	41.60	109.83	68.20	41.63	peak	No Limit
5	X	5850.000	32.43	41.74	74.17	68.20	5.97	peak	
6	X	5860.000	29.05	41.76	70.81	68.20	2.61	peak	

REMARKS:

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

Test Mode	UNII-3_TX AX(HE80) Mode 5775 MHz	Polarization	Vertical
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11545.550	39.53	-0.79	38.74	54.00	-15.26	AVG	
2	11548.500	49.30	-0.80	48.50	74.00	-25.50	peak	

REMARKS:

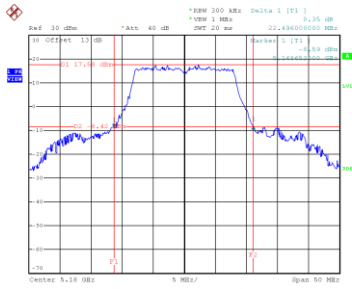
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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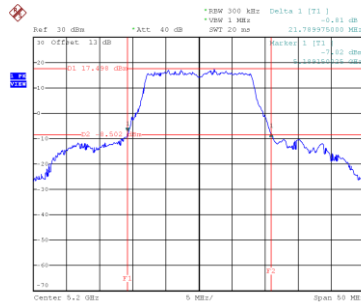
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	22.496	17.400
40	5200	21.790	17.400
48	5240	21.750	17.300

CH36



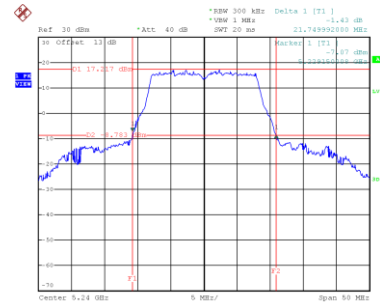
Date: 31.AUG.2022 10:23:48

CH40
26 dB Bandwidth



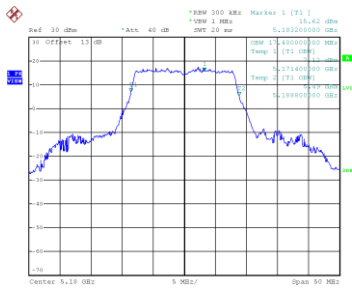
Date: 31.AUG.2022 10:24:32

CH48

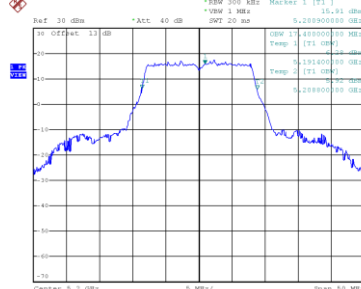


Date: 31.AUG.2022 10:25:19

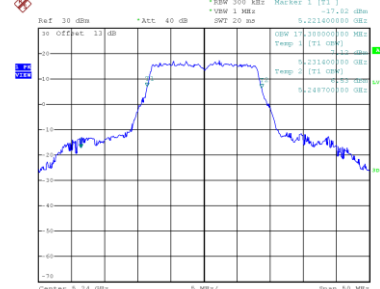
99 % Occupied Bandwidth



Date: 31.AUG.2022 10:23:21



Date: 31.AUG.2022 10:24:10



Date: 31.AUG.2022 10:24:59