

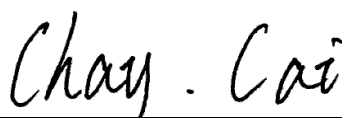
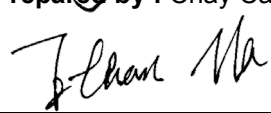
FCC Radio Test Report

FCC ID: 2AUA9-RQZY002

This report concerns: Original Grant

Project No. : 2006C111
Equipment : AC2100 Dual Band WiFi Repeater
Brand Name : ROCK, rock space
Test Model : RSD0617
Series Model : N/A
Applicant : Shenzhen Renqing Excellent Technology Co., Ltd.
Address : 104, No.15, Longfu Industrial Zone, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer : Shenzhen Renqing Excellent Technology Co., Ltd.
Address : 104, No.15, Longfu Industrial Zone, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Date of Receipt : Jun. 22, 2020
Date of Test : Jun. 23, 2020 ~ Jul. 15, 2020
Issued Date : Jul. 23, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2020061981 for conducted, DG2020061982 for radiated.
Standard(s) : FCC Part15, Subpart E(15.407)
 ANSI C63.10-2013
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.


 Prepared by : Chay Cai

 Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 23, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
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)	Spectrum 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
☒ Access point device ☐ Client device

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

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 BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

C. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	$\pm 3.8 \%$
Maximum Output Power	$\pm 0.95 \text{ dB}$
Power Spectral Density	$\pm 0.86 \text{ dB}$
Frequency Stability	$\pm 0.16 \text{ dB}$
Temperature	$\pm 0.08 \text{ }^{\circ}\text{C}$
Time	$\pm 0.58 \%$
Supply voltages	$\pm 0.3 \%$

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	25°C	53%	AC 120V/60Hz AC 240V/50Hz	Sheldon Ou
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	26°C	59%	AC 120V/60Hz	Hayden Chen
Maximum Output Power	26°C	59%	AC 120V/60Hz	Laughing Zhang
Power Spectral Density	26°C	59%	AC 120V/60Hz	Hayden Chen
Frequency Stability	Normal & Extreme	59%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC2100 Dual Band WiFi Repeater
Brand Name	ROCK, rock space
Test Model	RSD0617
Series Model	N/A
Model Difference(s)	N/A
Power Source	AC Mains.
Power Rating	100-240V~ 0.3A 50/60Hz
Operation Frequency Bands	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 1733.2 Mbps
Maximum Output Power _UNII-1 Non Beamforming	IEEE 802.11a: 18.90 dBm (0.0776 W) IEEE 802.11n (HT20): 21.91 dBm (0.1552 W) IEEE 802.11n (HT40): 23.55 dBm (0.2265 W) IEEE 802.11ac (VHT20): 21.94 dBm (0.1563 W) IEEE 802.11ac (VHT40): 23.73 dBm (0.2360 W) IEEE 802.11ac (VHT80): 20.11 dBm (0.1026 W)
Maximum Output Power _UNII-3 Non Beamforming	IEEE 802.11a: 21.57 dBm (0.1435 W) IEEE 802.11n (HT20): 23.80 dBm (0.2399 W) IEEE 802.11n (HT40): 23.87 dBm (0.2438 W) IEEE 802.11ac (VHT20): 24.12 dBm (0.2582 W) IEEE 802.11ac (VHT40): 23.98 dBm (0.2500 W) IEEE 802.11ac (VHT80): 26.21 dBm (0.4178 W)
Maximum Output Power _UNII-1 Beamforming	IEEE 802.11n (HT20): 21.24 dBm (0.1330 W) IEEE 802.11n (HT40): 23.40 dBm (0.2188 W) IEEE 802.11ac (VHT20): 21.36 dBm (0.1368 W) IEEE 802.11ac (VHT40): 23.19 dBm (0.2084 W) IEEE 802.11ac (VHT80): 19.76 dBm (0.0946 W)
Maximum Output Power _UNII-3 Beamforming	IEEE 802.11n (HT20): 23.35 dBm (0.2163 W) IEEE 802.11n (HT40): 23.66 dBm (0.2323 W) IEEE 802.11ac (VHT20): 23.63 dBm (0.2307 W) IEEE 802.11ac (VHT40): 23.45 dBm (0.2213 W) IEEE 802.11ac (VHT80): 25.76 dBm (0.3767 W)

Note:

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Dipole	N/A	2.7	UNII-1
2	N/A	N/A	Dipole	N/A	3.3	UNII-1
3	N/A	N/A	Dipole	N/A	3.7	UNII-1
4	N/A	N/A	Dipole	N/A	3.7	UNII-1
1	N/A	N/A	Dipole	N/A	3.6	UNII-3
2	N/A	N/A	Dipole	N/A	3.7	UNII-3
3	N/A	N/A	Dipole	N/A	3.8	UNII-3
4	N/A	N/A	Dipole	N/A	3.9	UNII-3

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal. So, the Directional gain= $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi.
 - a) For UNII-1, the Directional gain = $10\log[(10^{2.7/20} + 10^{3.3/20} + 10^{3.7/20} + 10^{3.7/20})^2 / 4] = 9.38$. So the output power limit is $30 - (9.38 - 6) = 26.62$, the power spectral density limit is $17 - (9.38 - 6) = 13.62$.
 - b) For UNII-3, the Directional gain = $10\log[(10^{3.6/20} + 10^{3.7/20} + 10^{3.8/20} + 10^{3.9/20})^2 / 4] = 9.77$. So the output power limit is $30 - (9.77 - 6) = 26.23$, the power spectral density limit is $30 - (9.77 - 6) = 26.23$.
- 2) Beamforming Gain: 6dB.
 - a) For UNII-1: The Directional gain = $6 + 3.7 = 9.70$ dB. So the output power limit is $30 - (9.70 - 6) = 26.30$.
 - b) For UNII-3: The Directional gain = $6 + 3.9 = 9.90$ dB. So the output power limit is $30 - (9.90 - 6) = 26.10$.

4. Table for Antenna Configuration:

For Non Beamforming:

Operating Mode	TX Mode	1TX	4TX
IEEE 802.11a		V (Ant. 1)	-
IEEE 802.11n (HT20)		-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT40)		-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT20)		-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT40)		-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT80)		-	V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

For Beamforming:

Operating Mode	TX Mode	4TX
IEEE 802.11n (HT20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac(VHT80)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

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 / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX AC(VHT80) Mode / CH155 (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 13	TX AC(VHT80) Mode / CH155 (UNII-3)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX AC(VHT80) Mode / CH155 (UNII-3)

Radiated emissions test - Above 1GHz_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power_Beamforming	
Final Test Mode	Description
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Other Conducted test_Non Beamforming	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac80 channel 155 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 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) The measurements for RF Output Power were tested, the Non Beamforming and Beamforming are recorded in the report. The worst case was Non Beamforming and only worst case were documented for other test items.
- (4) The measurements for Power were tested, the worst case were IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, only the worst case were documented for other test items.
- (5) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (6) For radiated emissions, the TX WLAN 2.4G N40 Mode 2422MHz + WLAN 5G AC80 Mode 5775MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non Beamforming

UNII-1			
Test Software	MP_TEST V1.3.8.0		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	80	83	85
IEEE 802.11n (HT20)	81/83/84/82	84/86/87/85	84/86/87/85
IEEE 802.11ac (VHT20)	82/84/85/83	83/85/86/84	83/85/86/84
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	90/88/88/87	100/98/98/97	
IEEE 802.11ac (VHT40)	93/91/91/90	103/101/101/100	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	86/85/86/86		

UNII-3			
Test Software	MP_TEST V1.3.8.0		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	98	98	98
IEEE 802.11n (HT20)	97/98/99/98	97/98/99/98	97/98/99/98
IEEE 802.11ac (VHT20)	97/98/99/98	97/98/99/98	97/98/99/98
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	101/100/102/101	102/101/103/102	
IEEE 802.11ac (VHT40)	104/103/105/104	105/104/106/105	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	111/111/111/111		

Beamforming

UNII-1			
Test Software	MP_TEST V1.3.8.0		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	80/82/83/81	83/85/86/84	83/85/86/84
IEEE 802.11ac (VHT20)	81/83/84/82	82/84/85/83	82/84/85/83
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	89/87/87/86	99/97/97/96	
IEEE 802.11ac (VHT40)	92/90/90/89	102/100/100/99	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	85/84/85/85		

UNII-3			
Test Software	MP_TEST V1.3.8.0		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	96/97/98/97	96/97/98/97	96/97/98/97
IEEE 802.11ac (VHT20)	96/97/98/97	96/97/98/97	96/97/98/97
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	100/99/101/100	101/100/102/101	
IEEE 802.11ac (VHT40)	103/102/104/103	104/103/105/104	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	110/110/110/110		

2.4 DUTY CYCLE

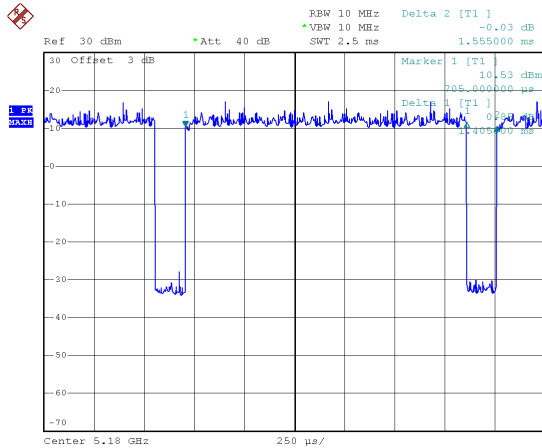
If duty cycle is $\geq 98\%$, duty factor is not required.

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.

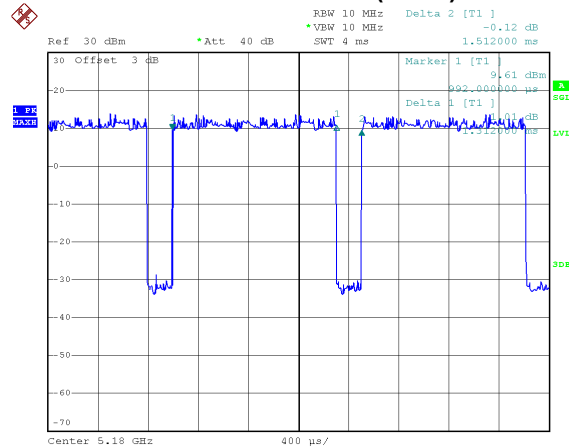
IEEE 802.11a



Date: 6.JUL.2020 15:05:26

Duty cycle = $1.405 \text{ ms} / 1.555 \text{ ms} = 90.35\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.44$

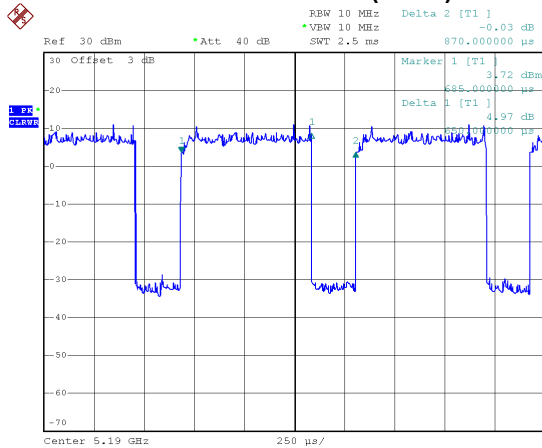
IEEE 802.11n (HT20)



Date: 6.JUL.2020 15:06:39

Duty cycle = $1.312 \text{ ms} / 1.512 \text{ ms} = 86.77\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.62$

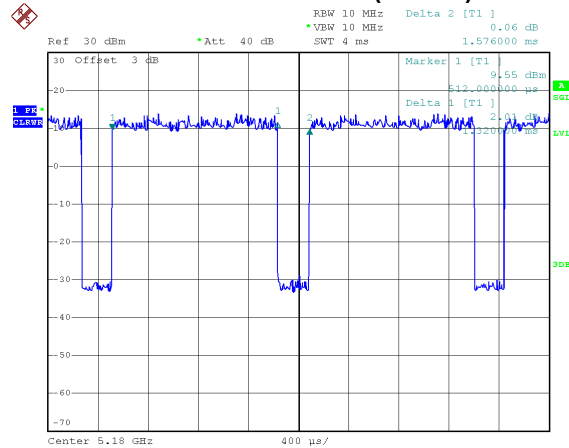
IEEE 802.11n (HT40)



Date: 6.JUL.2020 15:07:18

Duty cycle = $0.650 \text{ ms} / 0.870 \text{ ms} = 74.71\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 1.27$

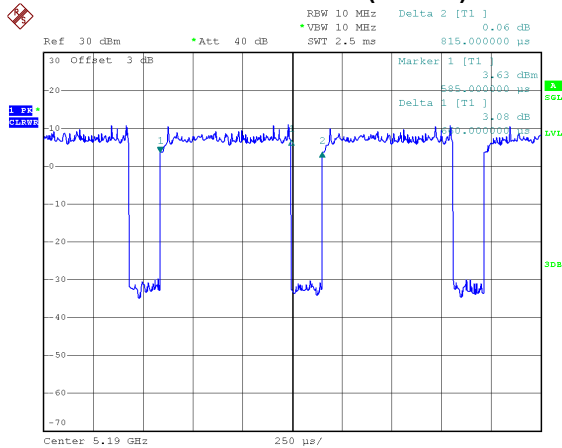
IEEE 802.11ac (VHT20)



Date: 6.JUL.2020 15:06:59

Duty cycle = $1.320 \text{ ms} / 1.576 \text{ ms} = 83.76\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.77$

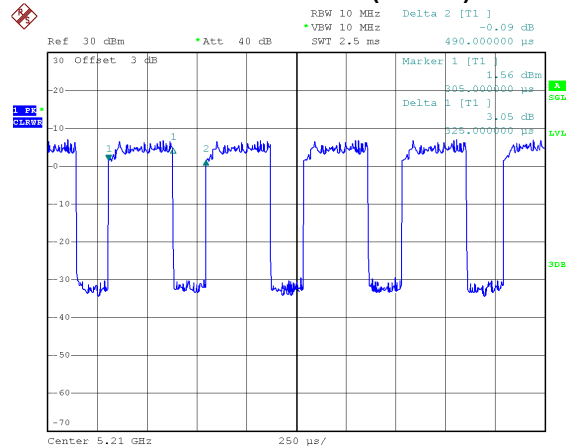
IEEE 802.11ac (VHT40)



Date: 6.JUL.2020 15:07:37

Duty cycle = $0.660 \text{ ms} / 0.815 \text{ ms} = 80.98\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.92$

IEEE 802.11ac (VHT80)



Date: 6.JUL.2020 15:08:45

Duty cycle = $0.325 \text{ ms} / 0.490 \text{ ms} = 66.33\%$
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 1.78$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and 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 < 98%).

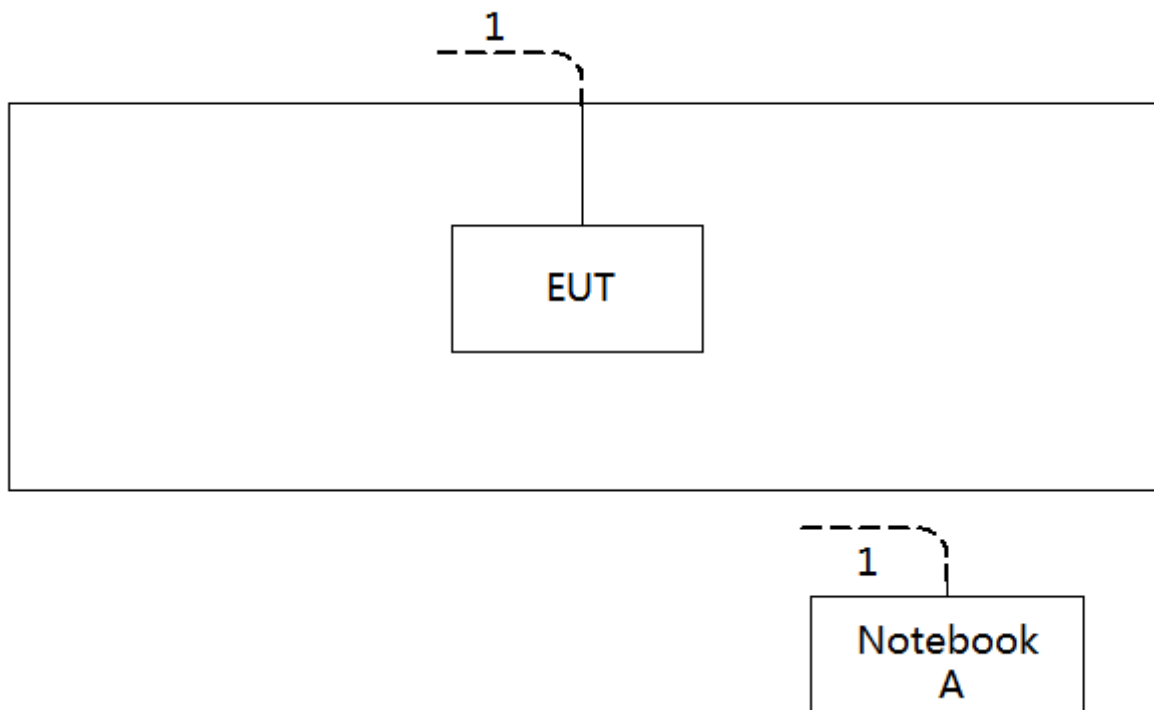
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (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 3 kHz (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	RJ45 Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS TEST

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.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

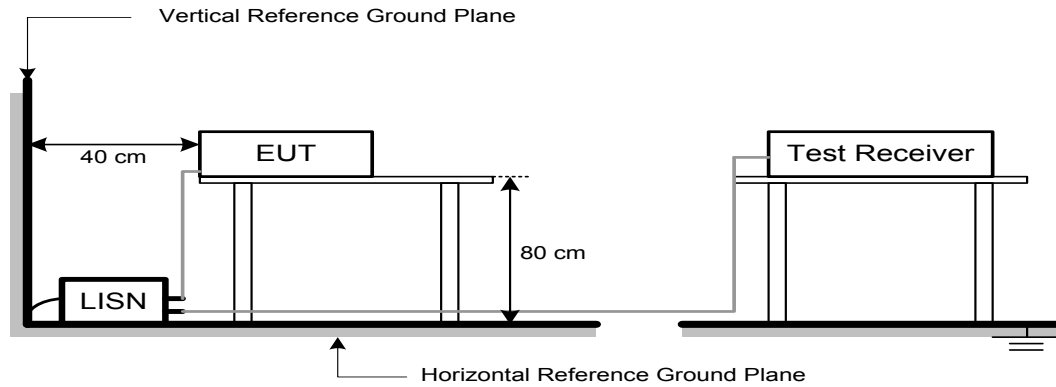
3.2 TEST PROCEDURE

- 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.

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 TEST

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

For WLAN 2.4GHz:

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

For wlan 5GHz:

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

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.
- (3) The limit for radiated test was performed according to FCC PART 15C & FCC PART 15E.

4.2 TEST PROCEDURE

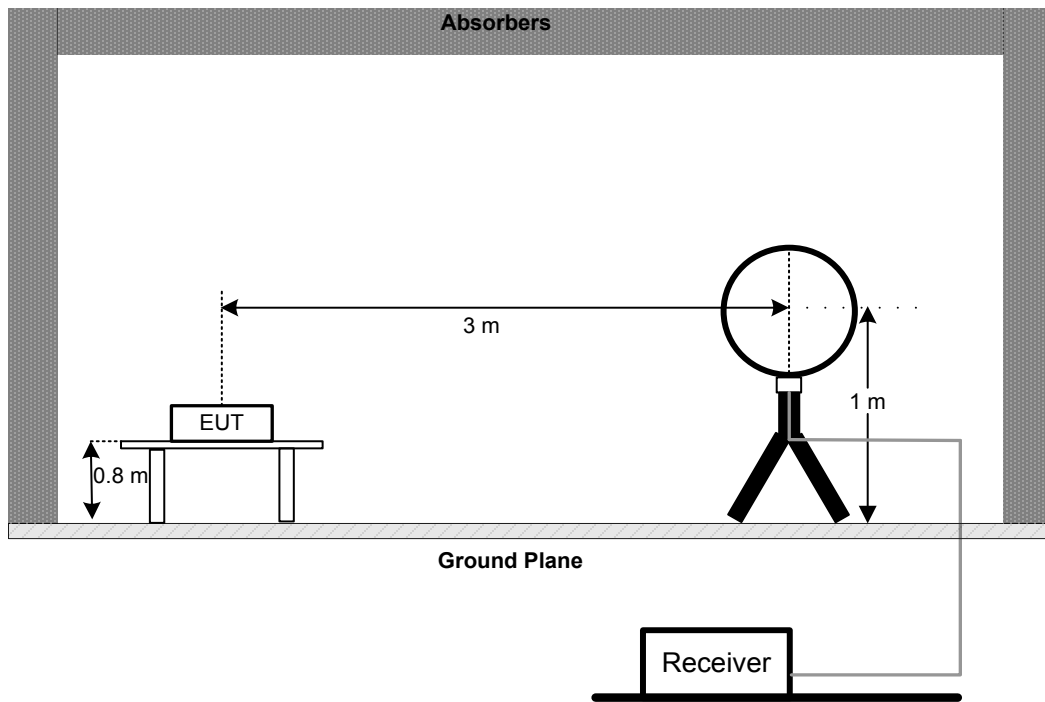
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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.

4.3 DEVIATION FROM TEST STANDARD

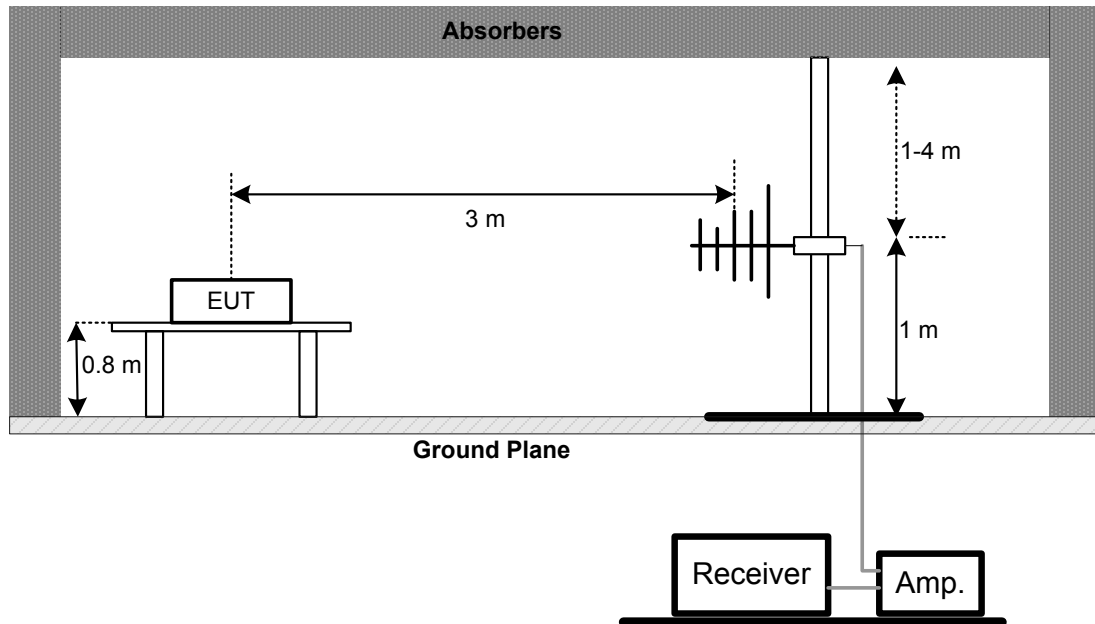
No deviation

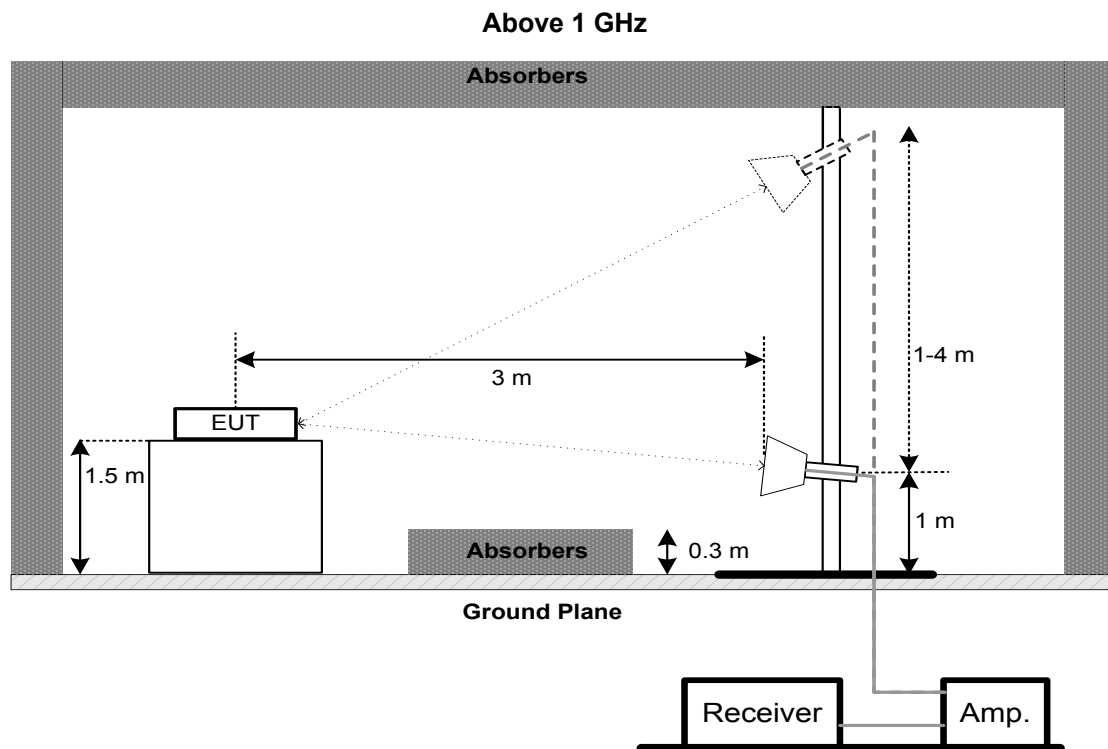
4.4 TEST SETUP

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 TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
15.407(e)	6 dB Bandwidth	Minimum 500 kHz	5725-5850

5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- Spectrum Setting:
For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz & Bandwidth 40 MHz) 1 MHz (Bandwidth 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz & Bandwidth 40 MHz) 3 MHz (Bandwidth 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

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

- 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 TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250
		1 Watt (30dBm)	5725-5850

Note:

- 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.

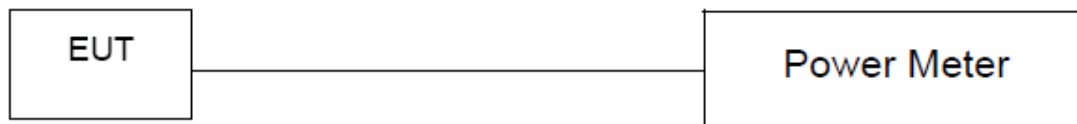
6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test 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 TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		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:

Spectrum Parameter	Setting
Attenuation	Auto
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
Attenuation	Auto
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.
- The value measured with RBW=100kHz is to be added with $10\log(500\text{ kHz}/100\text{ kHz})$ which is +7 dB. For example, if the measured value is +10dBm using RBW=100kHz (that is +10 dBm/MHz), then the converted value will be +17dBm/500kHz.

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 MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
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
			5725-5850

8.2 TEST PROCEDURE

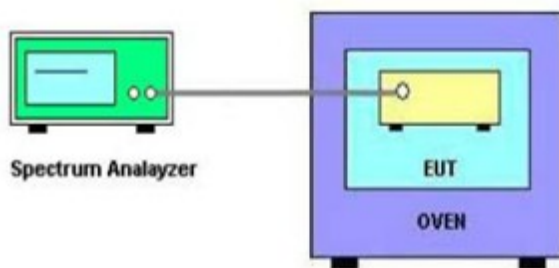
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto
- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- 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

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Feb. 28, 2021
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2	Cable	N/A	RG 213/U	N/A	May 29, 2021
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 22, 2021
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	May 12, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021
3	Amplifier	Agilent	8449B	3008A02333	Mar. 01, 2021
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	May 09, 2021
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

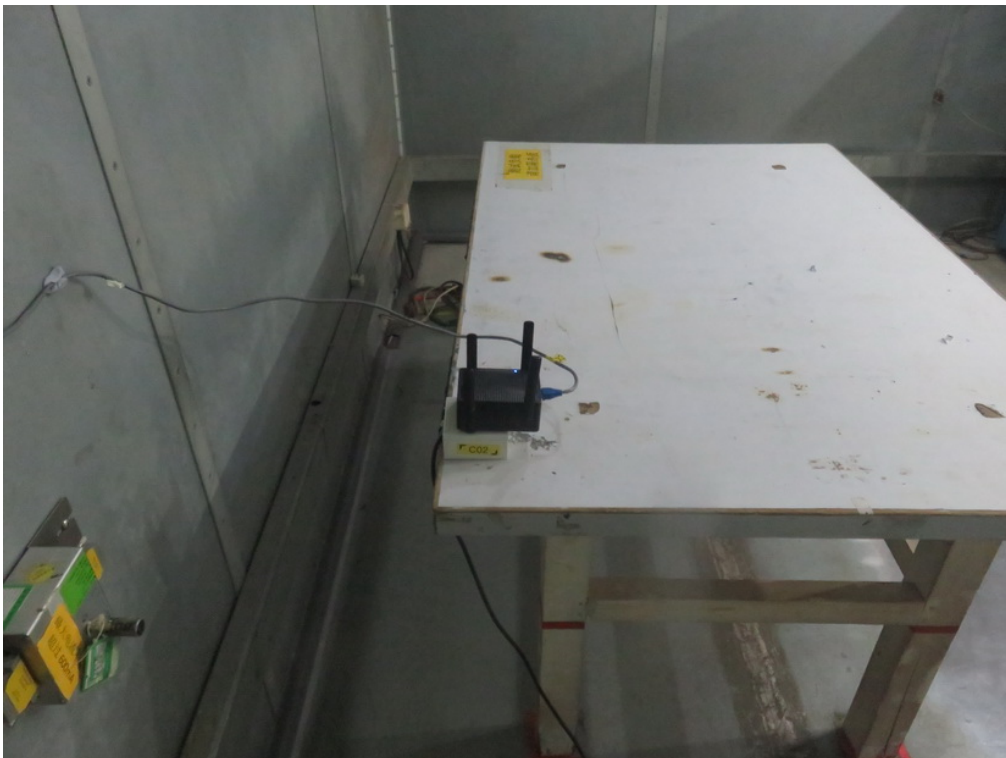
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020

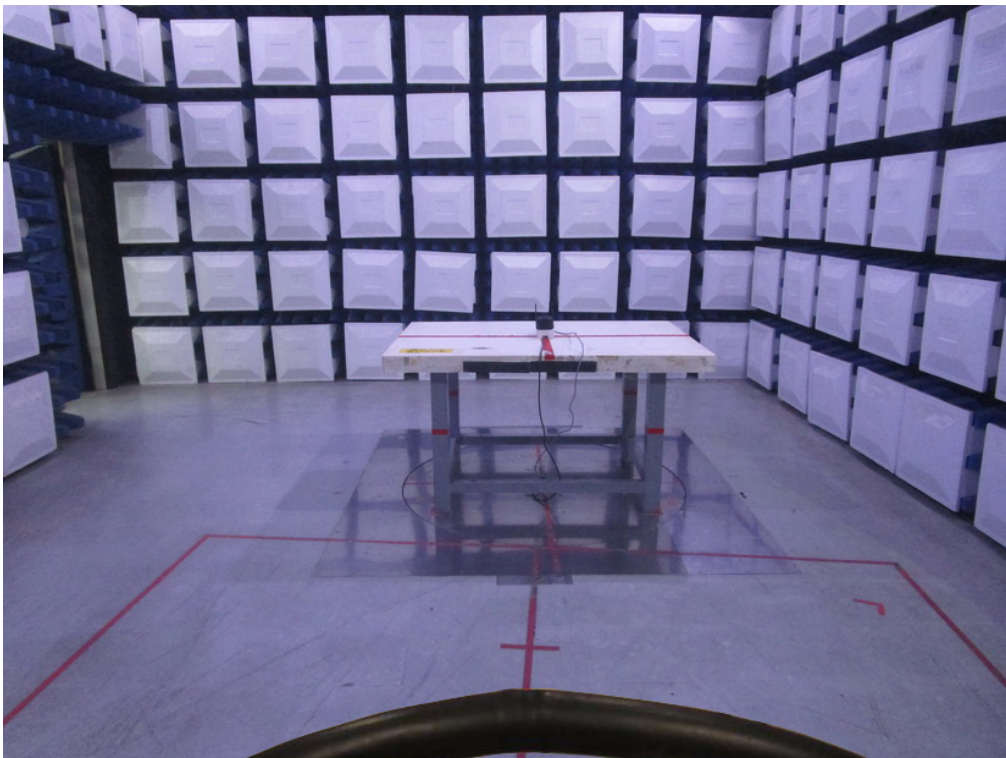
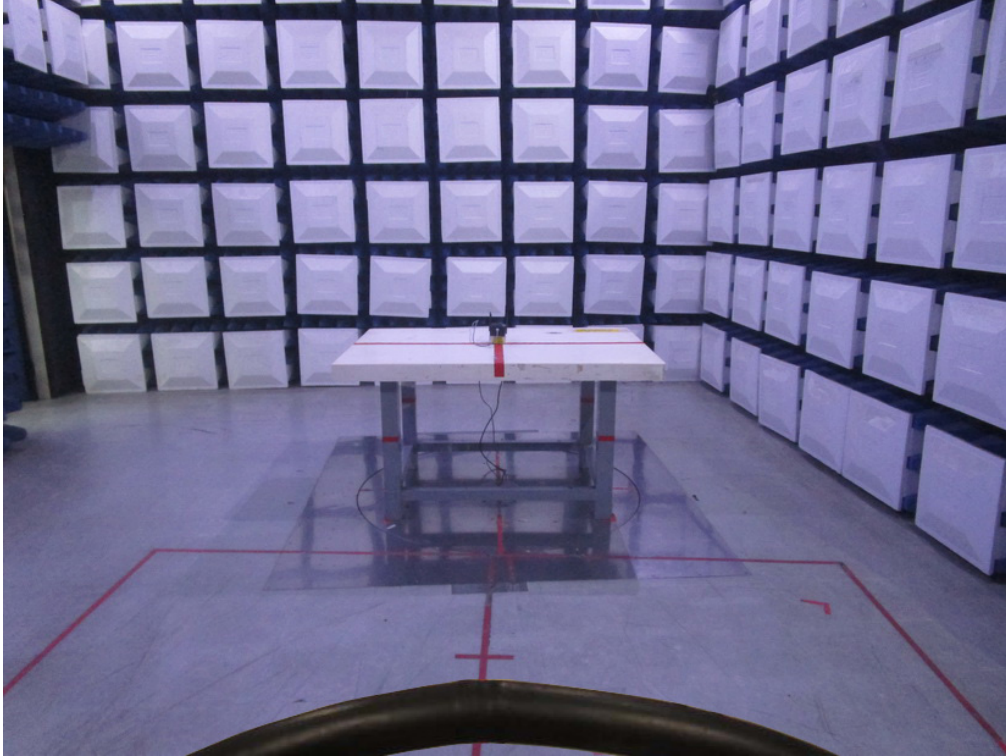
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Const Temp. & Humidity Chamber	CEPREI	CEEC-M64T-40	15-008	Feb. 28, 2021

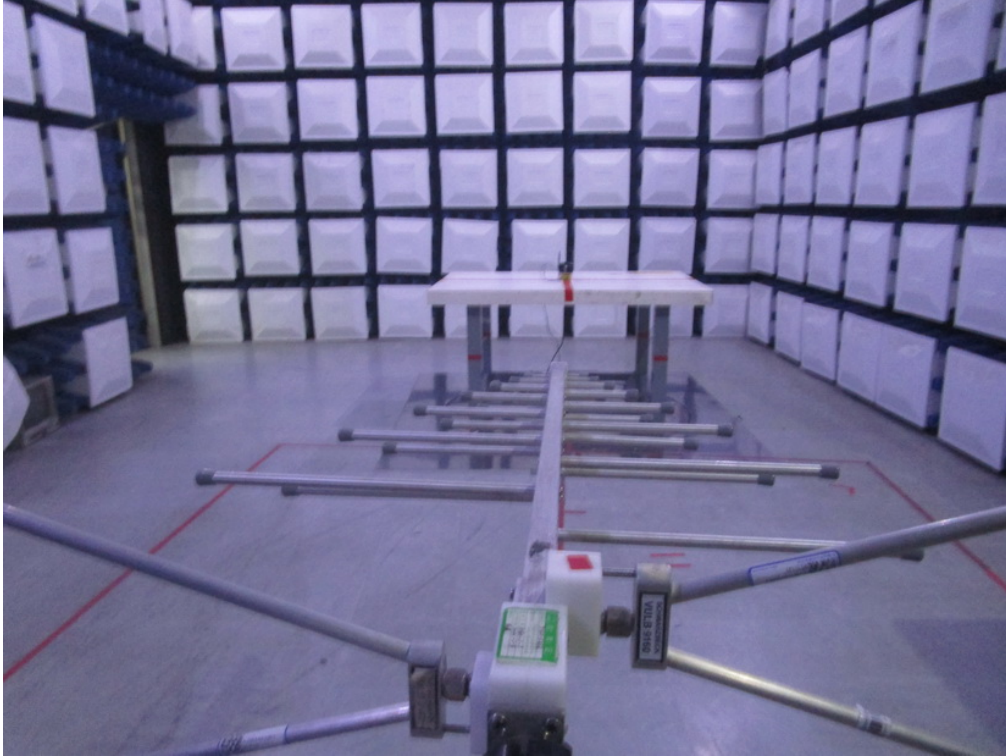
Remark: "N/A" denotes no model name, serial no. or calibration specified.

"**" 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**

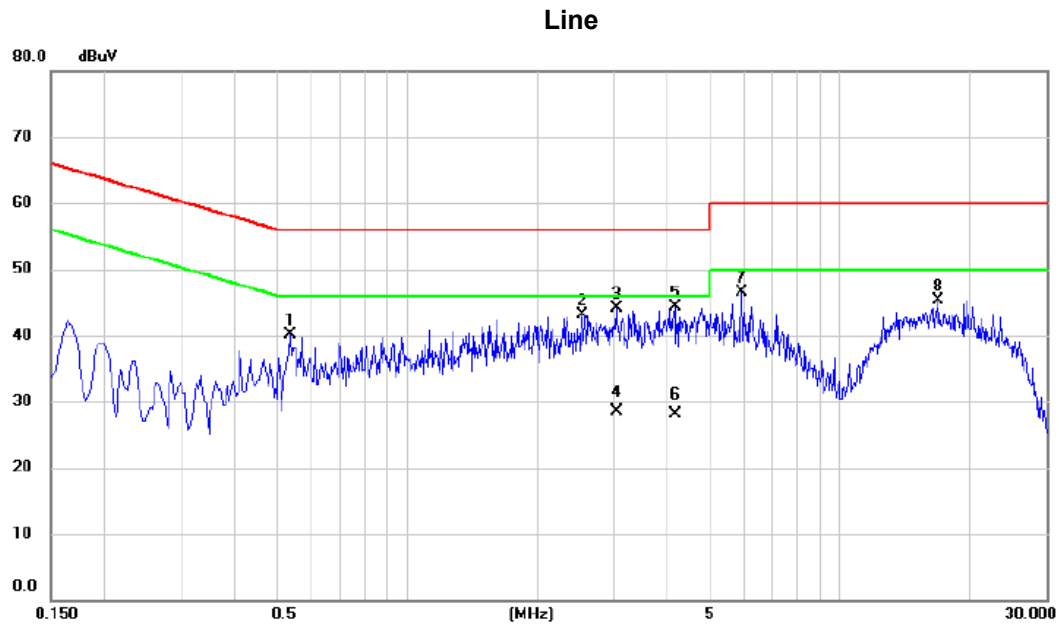
Radiated Emissions Test Photos**9 kHz to 30 MHz**

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

Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Voltage	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 155

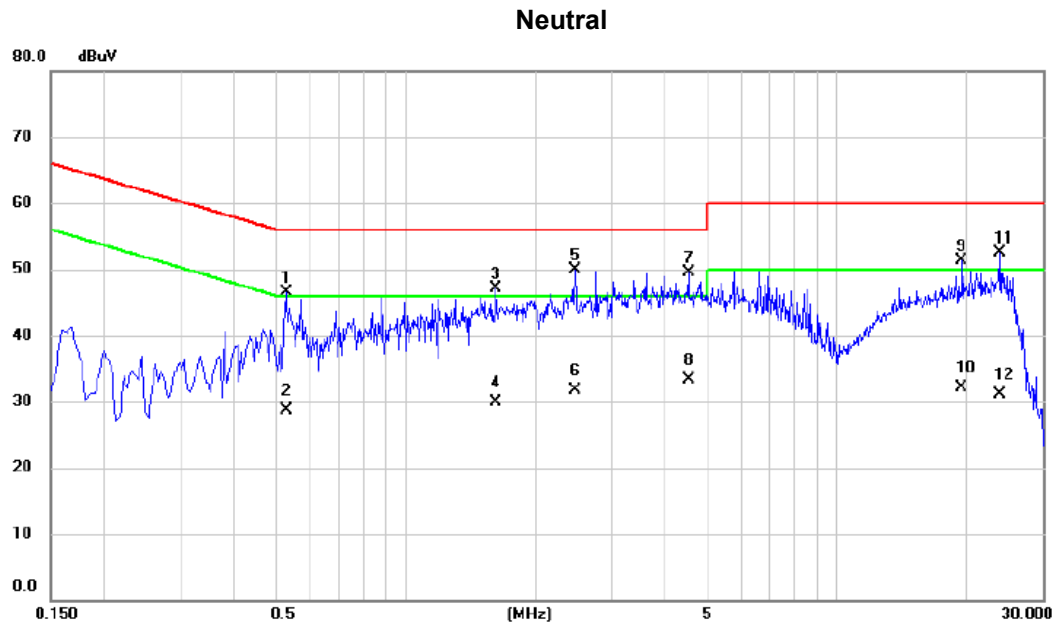


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.5370	30.18	9.95	40.13	56.00	-15.87	peak	
2	2.5440	32.92	10.14	43.06	56.00	-12.94	peak	
3	3.0480	33.93	10.18	44.11	56.00	-11.89	peak	
4	3.0480	18.30	10.18	28.48	46.00	-17.52	AVG	
5 *	4.1505	34.12	10.27	44.39	56.00	-11.61	peak	
6	4.1505	17.80	10.27	28.07	46.00	-17.93	AVG	
7	5.9460	36.16	10.40	46.56	60.00	-13.44	peak	
8	16.8720	34.36	10.90	45.26	60.00	-14.74	peak	

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 Voltage	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 155

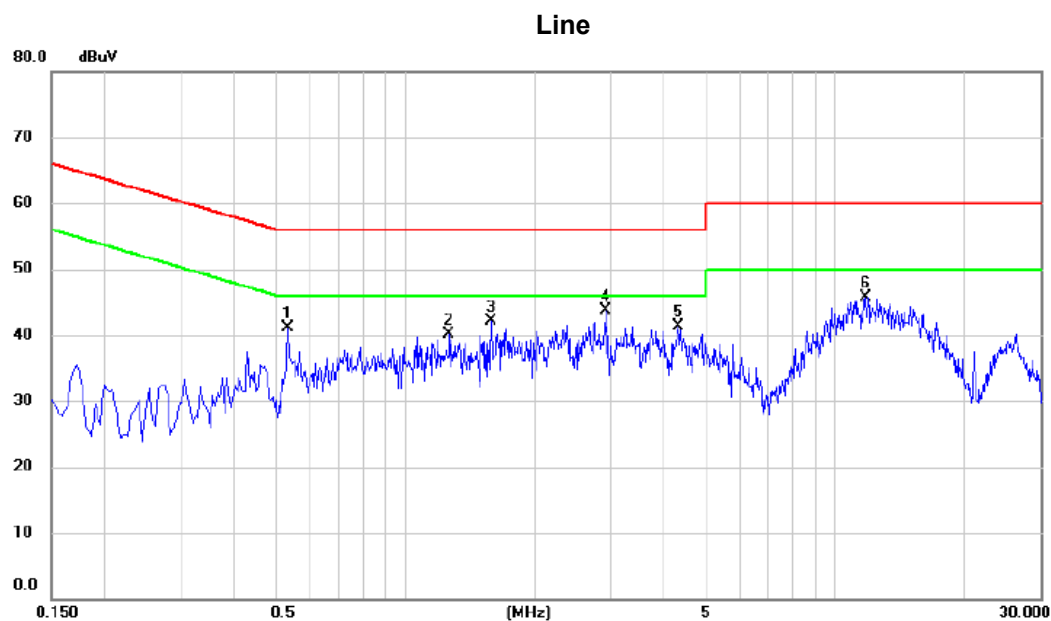


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.5280	36.35	10.15	46.50	56.00	-9.50	peak	
2	0.5280	18.50	10.15	28.65	46.00	-17.35	AVG	
3	1.6125	36.67	10.37	47.04	56.00	-8.96	peak	
4	1.6125	19.60	10.37	29.97	46.00	-16.03	AVG	
5 *	2.4675	39.53	10.46	49.99	56.00	-6.01	peak	
6	2.4675	21.20	10.46	31.66	46.00	-14.34	AVG	
7	4.5195	38.92	10.63	49.55	56.00	-6.45	peak	
8	4.5195	22.60	10.63	33.23	46.00	-12.77	AVG	
9	19.4550	40.04	11.20	51.24	60.00	-8.76	peak	
10	19.4550	20.90	11.20	32.10	50.00	-17.90	AVG	
11	23.9010	41.10	11.33	52.43	60.00	-7.57	peak	
12	23.9010	19.70	11.33	31.03	50.00	-18.97	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 Voltage	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 155

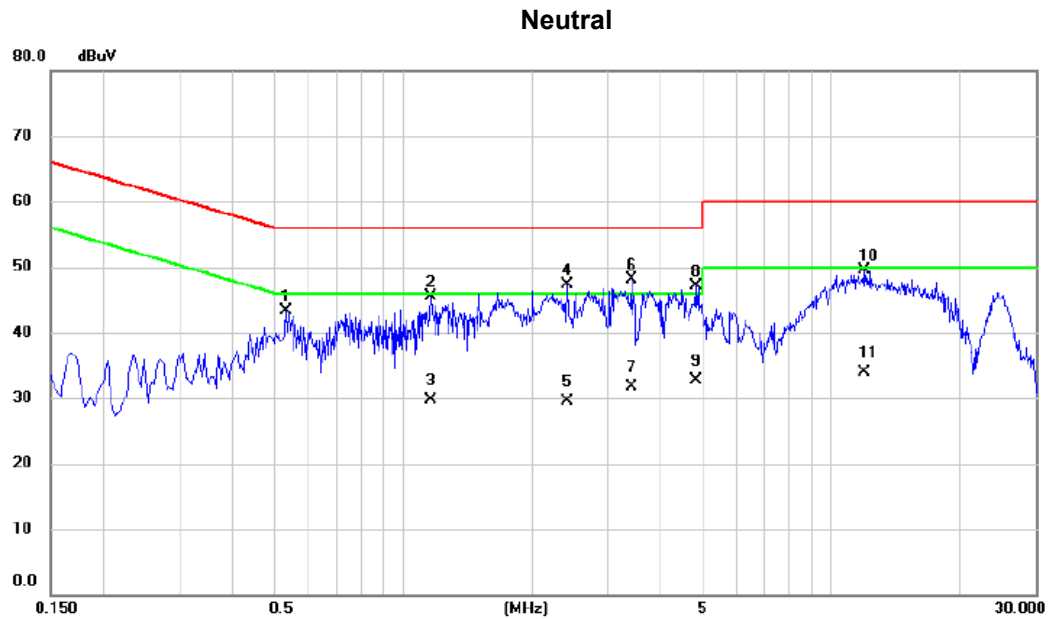


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.5325	31.16	9.95	41.11	56.00	-14.89	peak	
2		1.2660	30.09	10.03	40.12	56.00	-15.88	peak	
3		1.5810	32.10	10.05	42.15	56.00	-13.85	peak	
4	*	2.9265	33.62	10.17	43.79	56.00	-12.21	peak	
5		4.3034	31.11	10.27	41.38	56.00	-14.62	peak	
6		11.7600	34.97	10.78	45.75	60.00	-14.25	peak	

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 Voltage	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 155



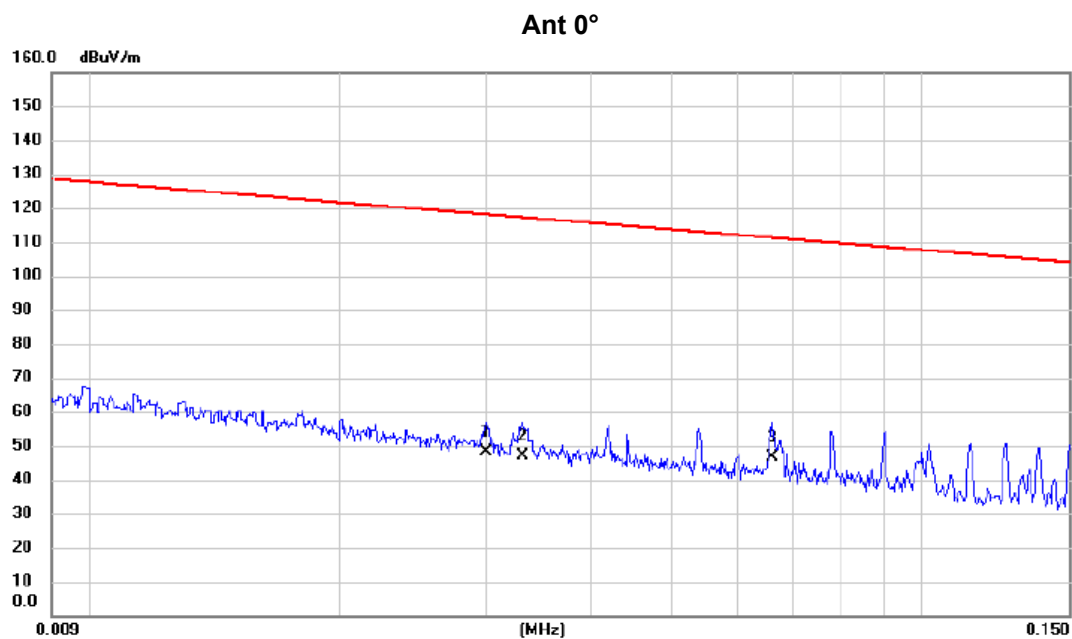
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.5325	33.14	10.15	43.29	56.00	-12.71	peak	
2		1.1625	35.23	10.32	45.55	56.00	-10.45	peak	
3		1.1625	19.40	10.32	29.72	46.00	-16.28	AVG	
4		2.4135	36.76	10.46	47.22	56.00	-8.78	peak	
5		2.4135	19.00	10.46	29.46	46.00	-16.54	AVG	
6	*	3.4125	37.59	10.55	48.14	56.00	-7.86	peak	
7		3.4125	21.20	10.55	31.75	46.00	-14.25	AVG	
8		4.8210	36.48	10.65	47.13	56.00	-8.87	peak	
9		4.8210	22.00	10.65	32.65	46.00	-13.35	AVG	
10		11.9535	38.49	11.08	49.57	60.00	-10.43	peak	
11		11.9535	22.90	11.08	33.98	50.00	-16.02	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

Test Mode:	TX AC80 MODE CHANNEL 155
------------	--------------------------

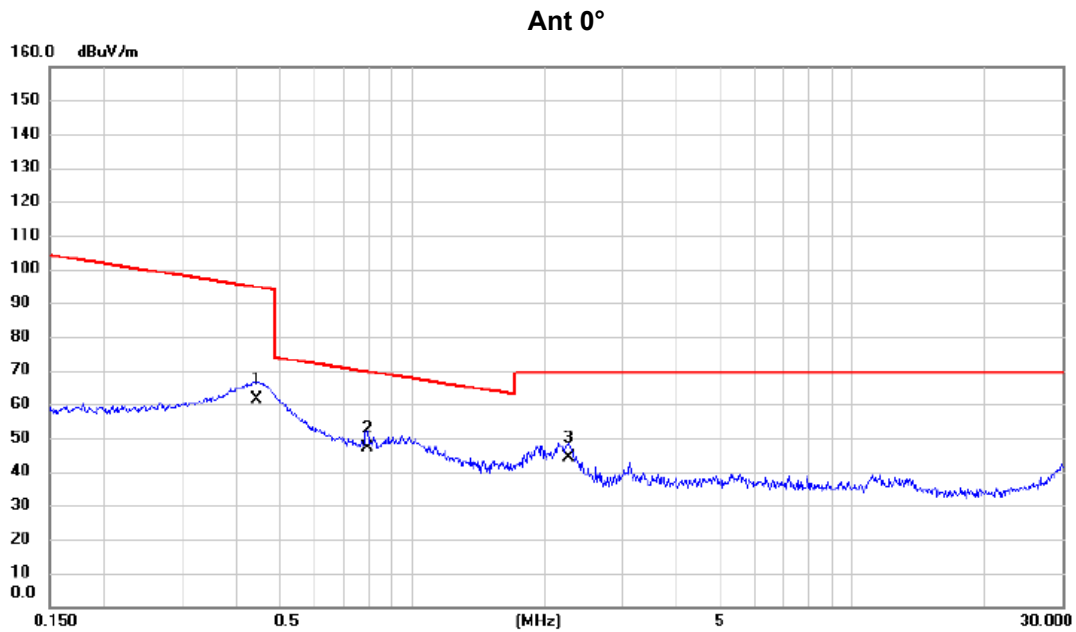


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.030	35.21	12.86	48.07	118.06	-69.99	AVG	
2		0.033	34.21	12.79	47.00	117.21	-70.21	AVG	
3	*	0.066	34.25	12.44	46.69	111.19	-64.50	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155



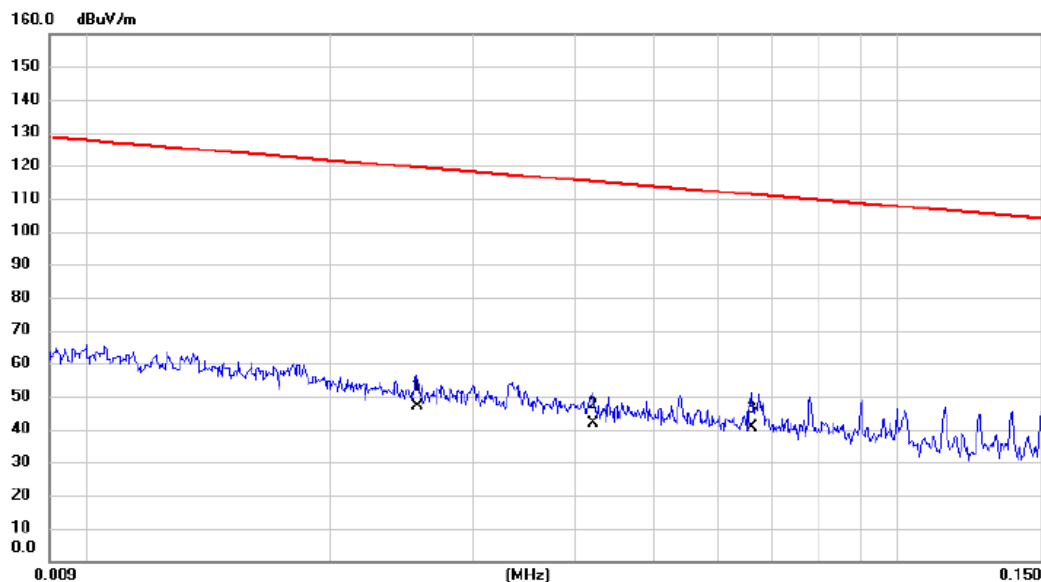
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.444	49.32	11.95	61.27	94.65	-33.38	AVG	
2	*	0.792	35.32	11.70	47.02	69.63	-22.61	QP	
3		2.273	33.10	10.93	44.03	69.54	-25.51	QP	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Ant 90°



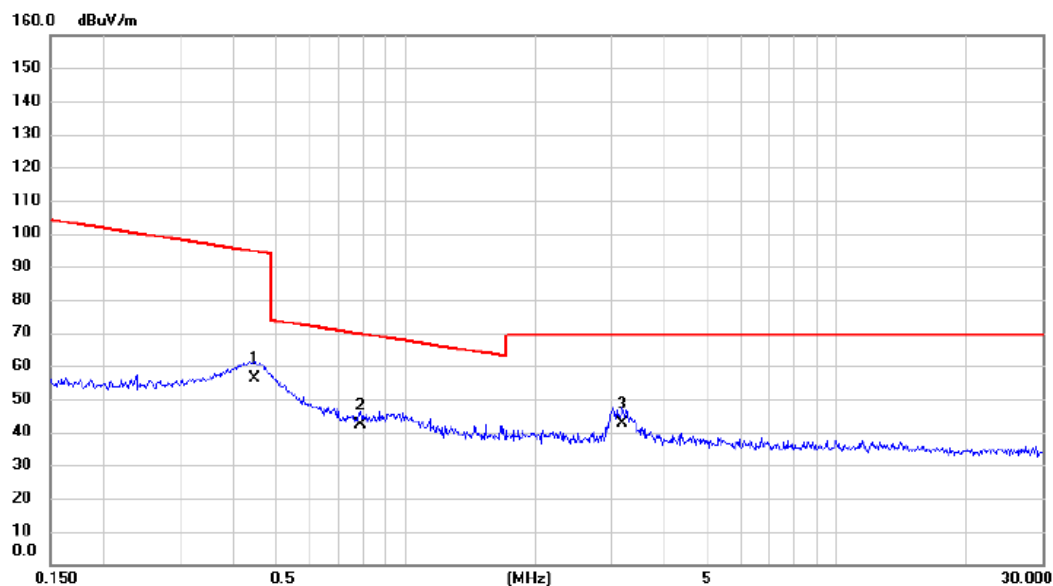
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.026	33.89	12.98	46.87	119.44	-72.57	AVG	
2		0.042	29.32	12.55	41.87	115.12	-73.25	AVG	
3	*	0.066	28.31	12.44	40.75	111.21	-70.46	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.447	44.32	11.94	56.26	94.60	-38.34	AVG	
2		0.788	30.34	11.70	42.04	69.68	-27.64	QP	
3	*	3.190	31.95	10.54	42.49	69.54	-27.05	QP	

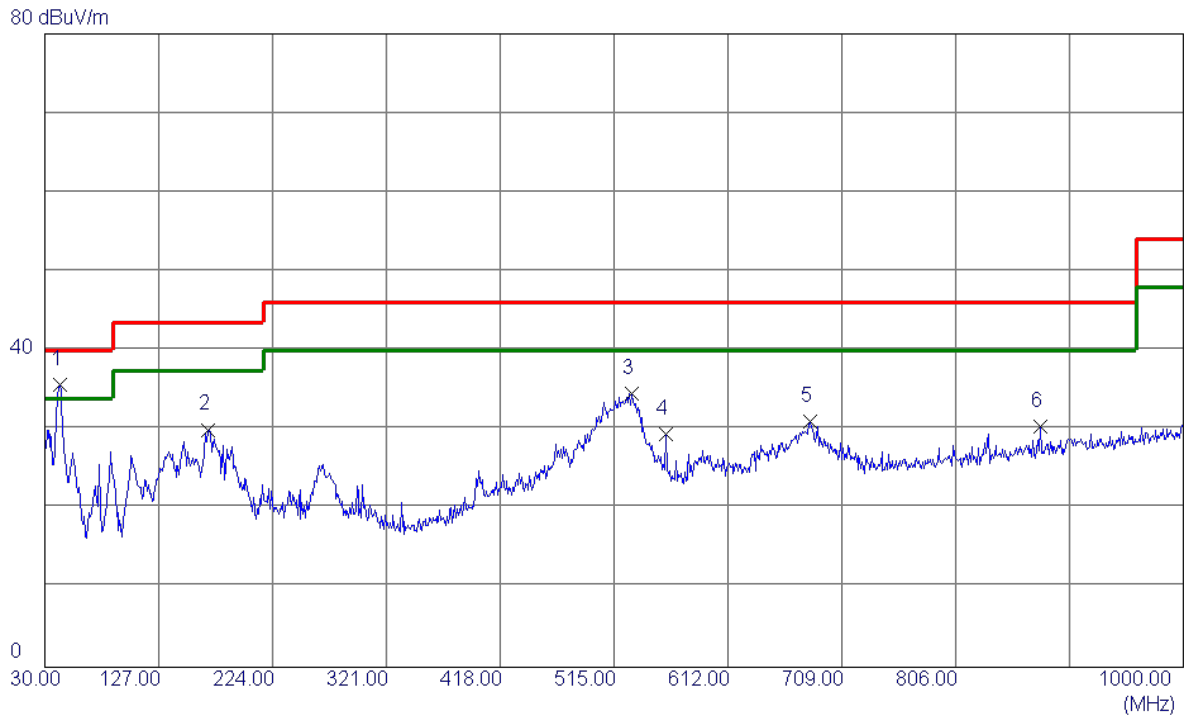
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode:	TX AC80 MODE CHANNEL 155
------------	--------------------------

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	42.6100	49.83	-14.18	35.65	40.00	-4.35	Peak	
2	168.7100	41.90	-11.90	30.00	43.50	-13.50	Peak	
3	530.5200	41.55	-6.98	34.57	46.00	-11.43	Peak	
4	559.6200	36.04	-6.53	29.51	46.00	-16.49	Peak	
5	681.8400	34.94	-3.83	31.11	46.00	-14.89	Peak	
6	877.7800	31.76	-1.42	30.34	46.00	-15.66	Peak	

REMARKS:

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

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

Test Mode: TX AC80 MODE CHANNEL 155

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	107.6000	47.59	-14.39	33.20	43.50	-10.30	Peak	
2	266.6800	40.45	-12.50	27.95	46.00	-18.05	Peak	
3	476.2000	37.96	-7.44	30.52	46.00	-15.48	Peak	
4	500.4500	39.07	-7.26	31.81	46.00	-14.19	Peak	
5	679.9000	31.97	-3.86	28.11	46.00	-17.89	Peak	
6	983.5100	30.00	0.79	30.79	54.00	-23.21	Peak	

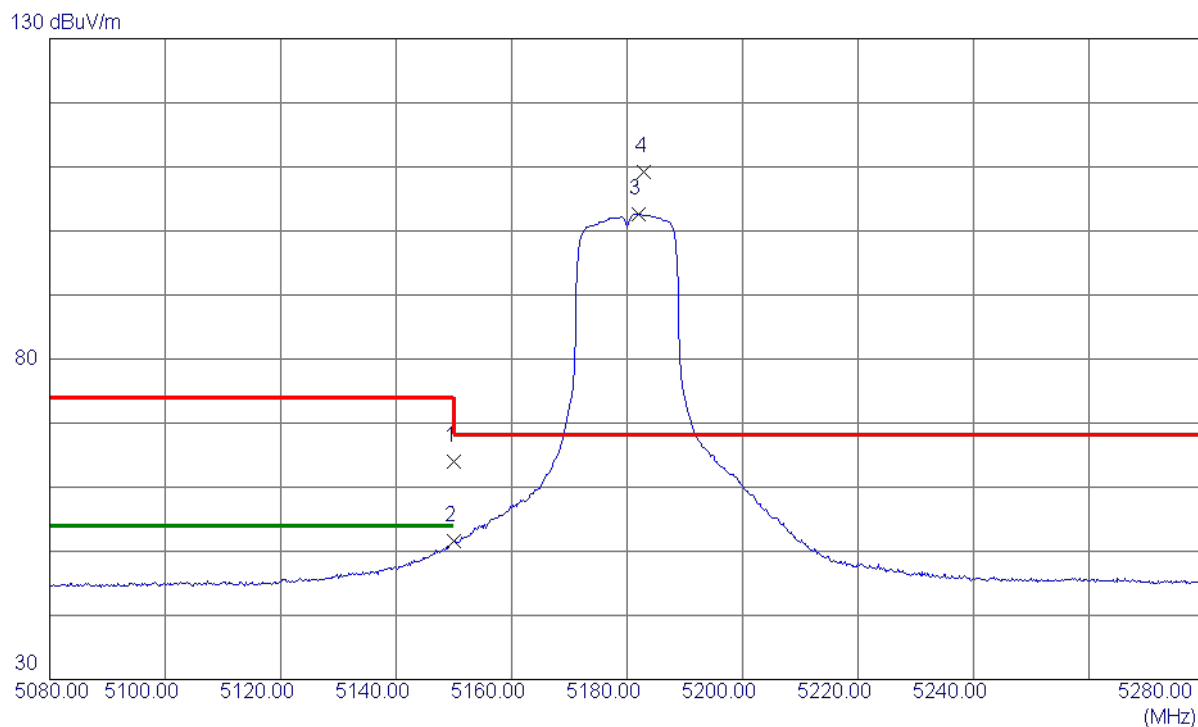
REMARKS:

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.81	16.16	63.97	74.00	-10.03	Peak	
2	5150.0000	35.37	16.16	51.53	54.00	-2.47	AVG	
3	5182.0000	86.41	16.23	102.64	999.00	-896.36	AVG	No Limit
4 *	5183.0000	92.96	16.23	109.19	68.30	40.89	Peak	No Limit

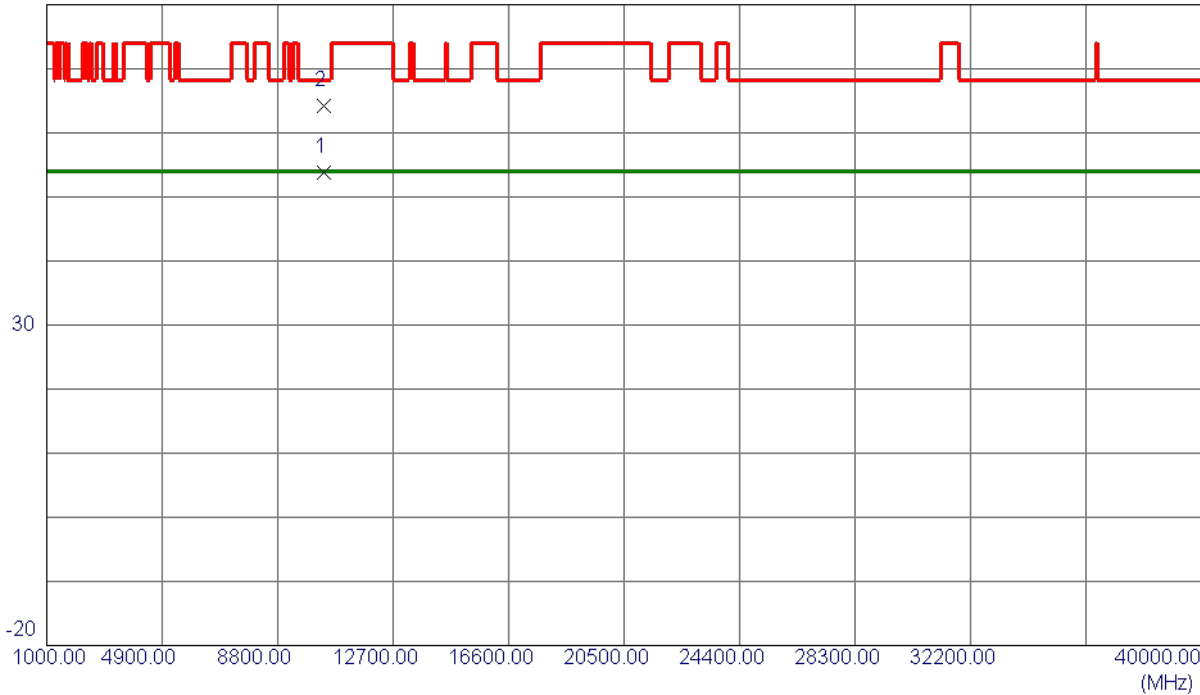
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

80 dBuV/m



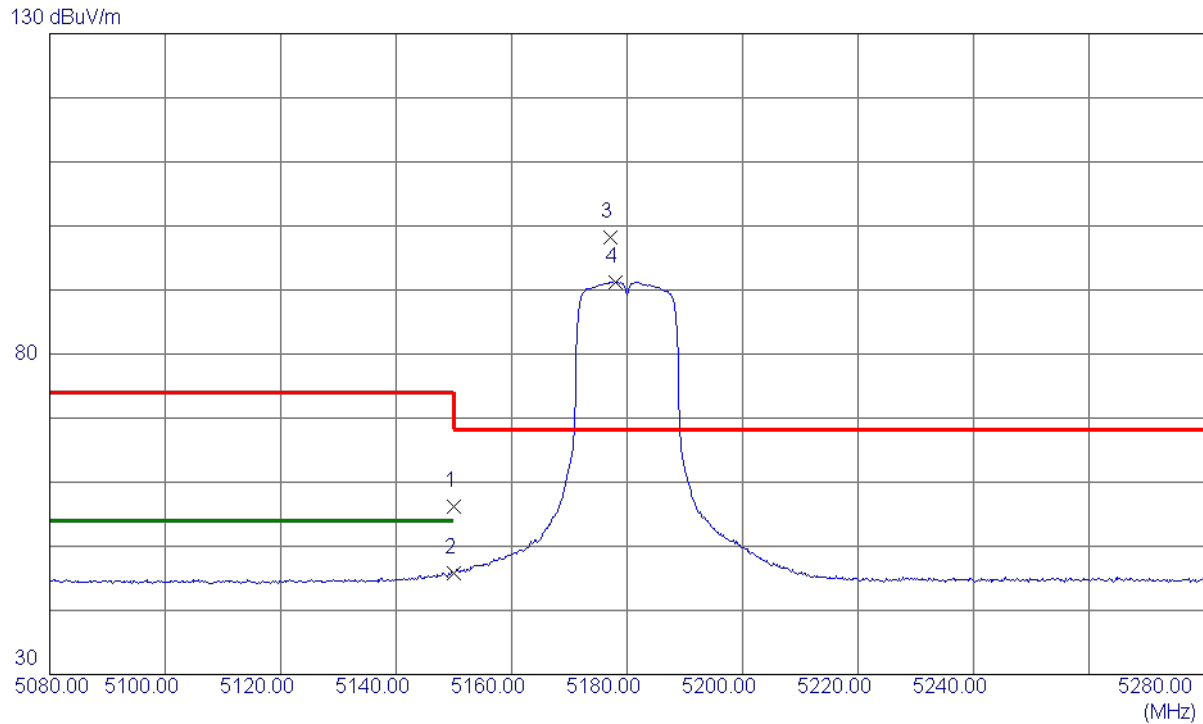
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.8800	40.35	13.52	53.87	54.00	-0.13	AVG	
2	10361.2400	50.67	13.52	64.19	68.30	-4.11	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.96	16.16	56.12	74.00	-17.88	Peak	
2	5150.0000	29.73	16.16	45.89	54.00	-8.11	AVG	
3 *	5177.2000	81.93	16.22	98.15	68.30	29.85	Peak	No Limit
4	5178.0000	74.97	16.22	91.19	999.00	-907.81	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

80 dBuV/m



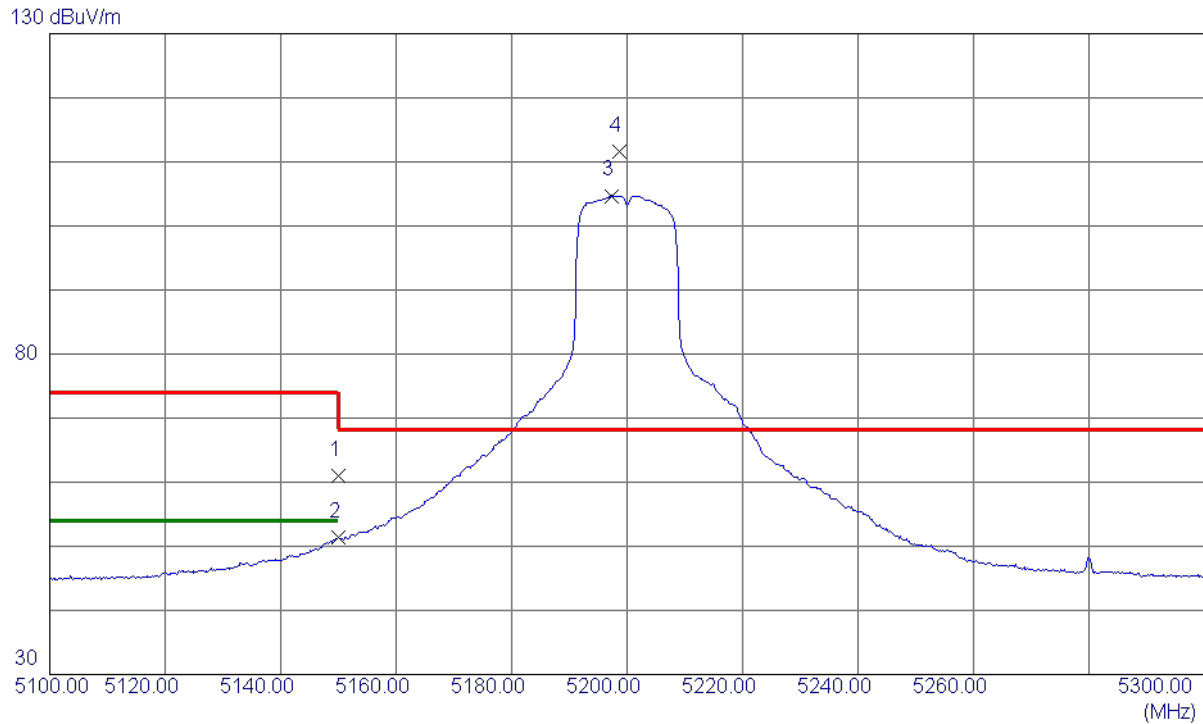
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10358.8800	48.65	13.51	62.16	68.30	-6.14	Peak	
2 *	10360.0400	38.44	13.51	51.95	54.00	-2.05	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Vertical

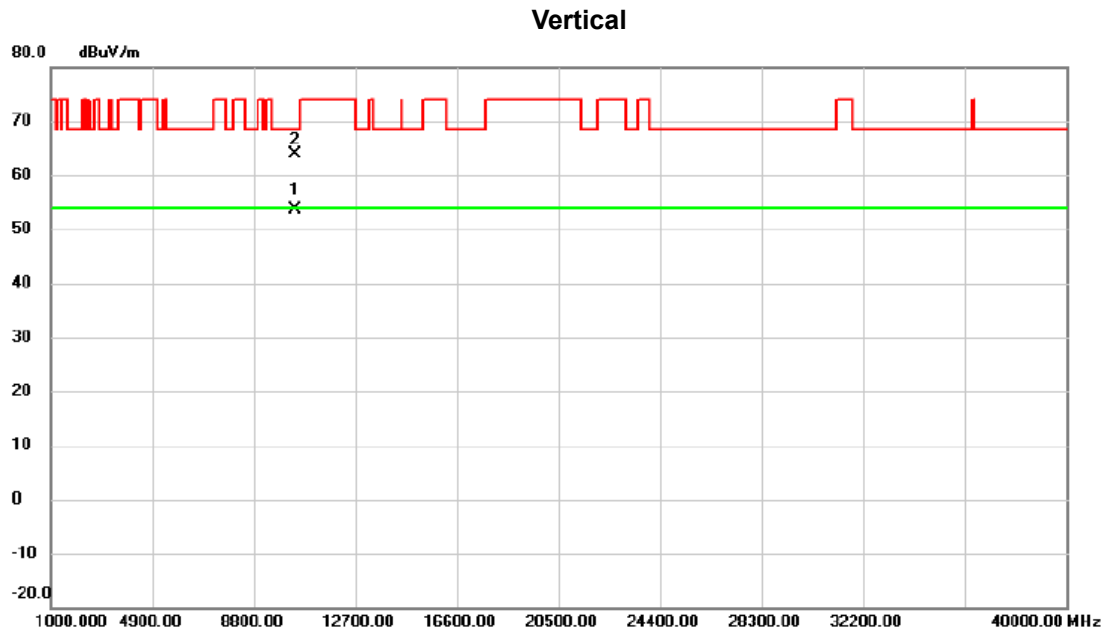


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.76	16.16	60.92	74.00	-13.08	Peak	
2	5150.0000	35.17	16.16	51.33	54.00	-2.67	AVG	
3	5197.4000	88.43	16.27	104.70	999.00	-894.30	AVG	No Limit
4 *	5198.6000	95.40	16.27	111.67	68.30	43.37	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz



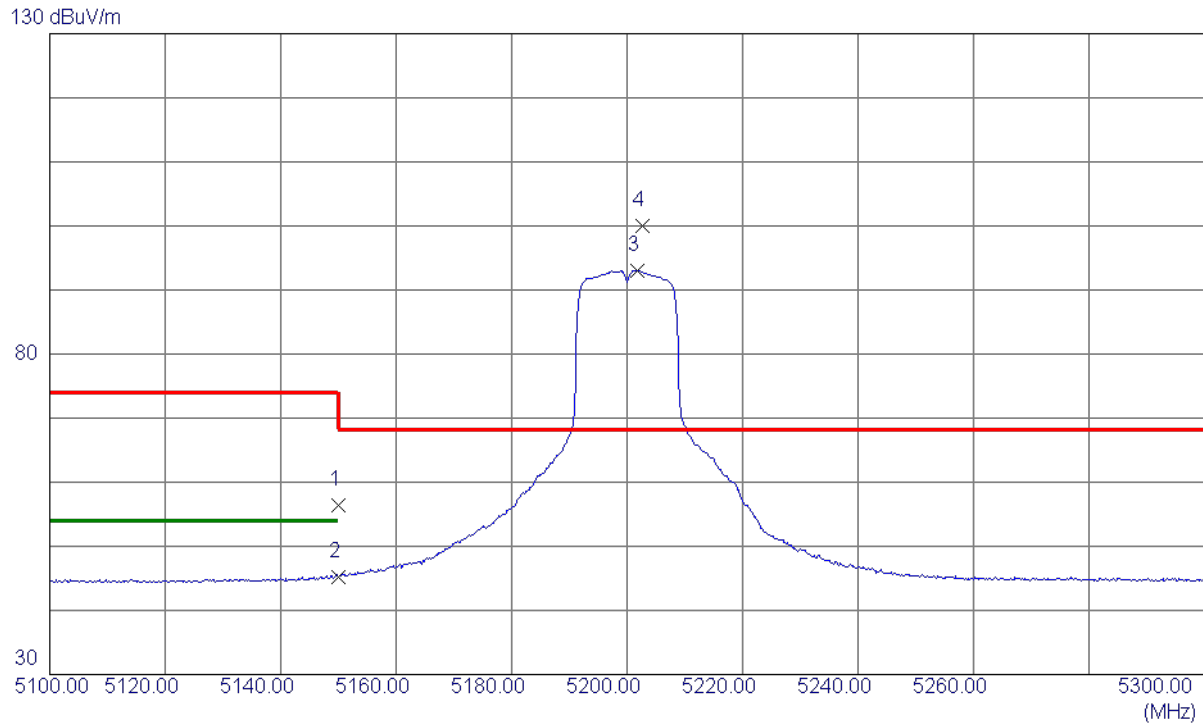
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10400.410	40.16	13.55	53.71	54.00	-0.29	AVG	
2		10400.820	50.30	13.55	63.85	68.30	-4.45	peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal



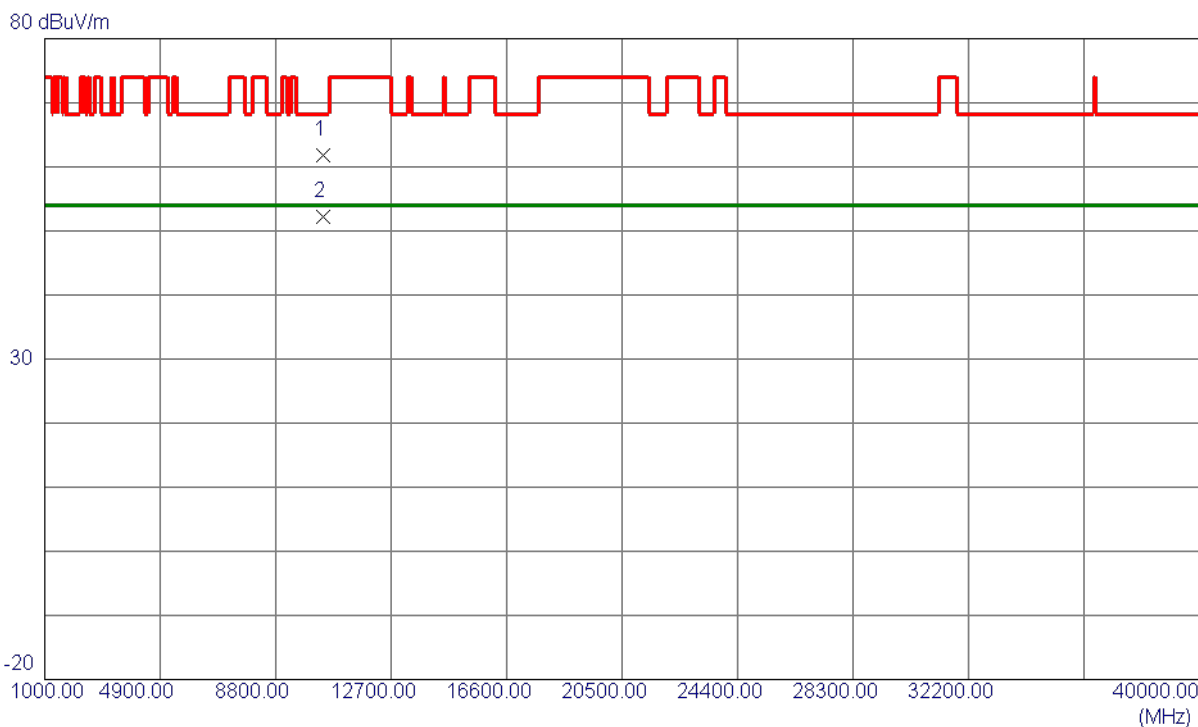
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.15	16.16	56.31	74.00	-17.69	Peak	
2	5150.0000	29.12	16.16	45.28	54.00	-8.72	AVG	
3	5201.8000	76.74	16.28	93.02	999.00	-905.98	AVG	No Limit
4 *	5202.6000	83.62	16.28	99.90	68.30	31.60	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal



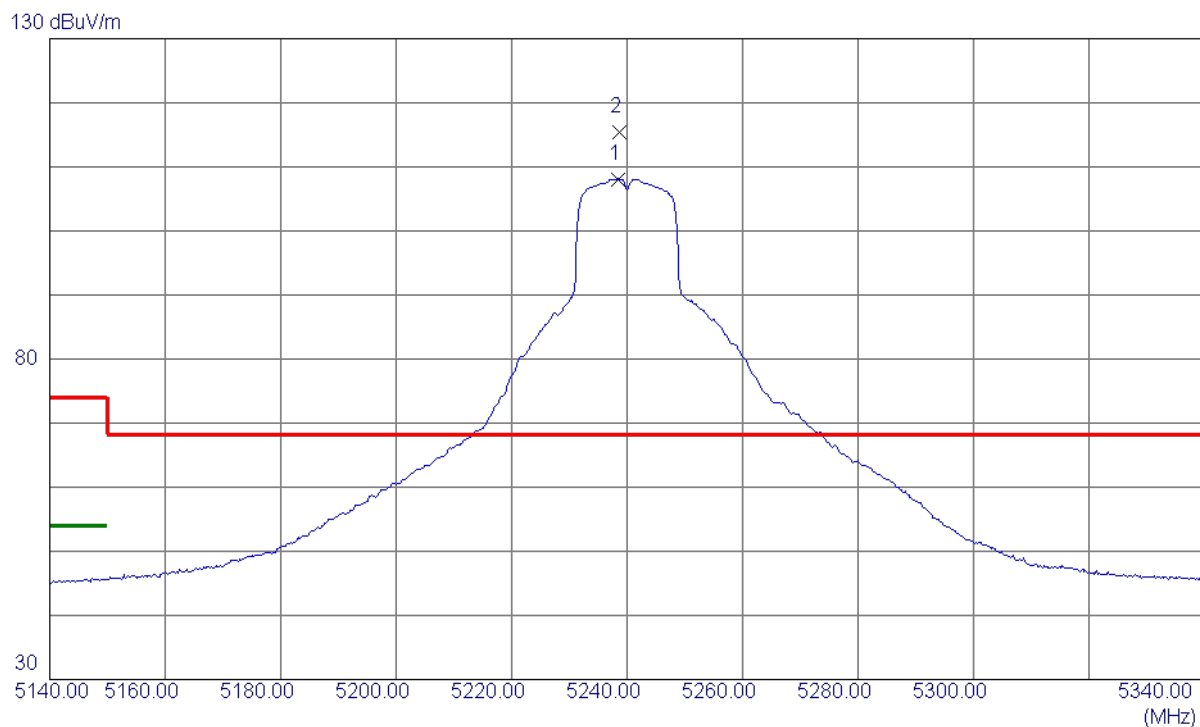
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.0000	48.31	13.55	61.86	68.30	-6.44	Peak	
2 *	10400.0000	38.63	13.55	52.18	54.00	-1.82	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical



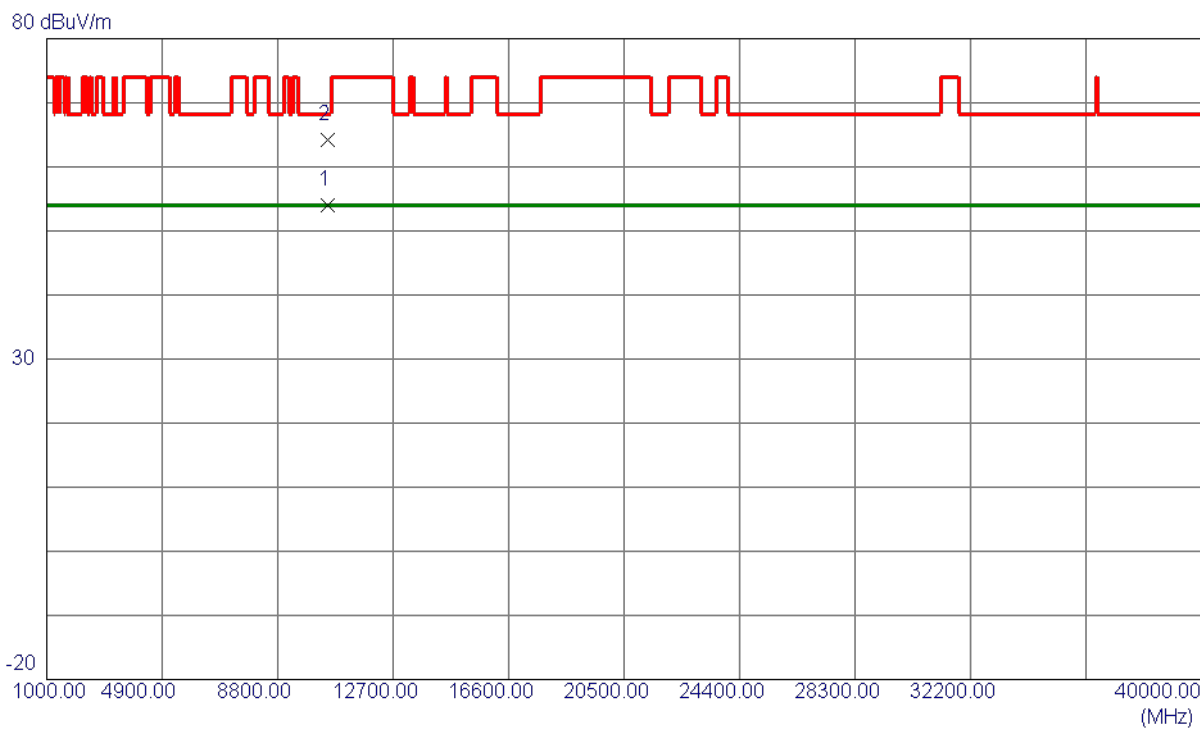
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5238.4000	91.73	16.37	108.10	999.00	-890.90	AVG	No Limit
2 *	5238.6000	99.04	16.37	115.41	68.30	47.11	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical



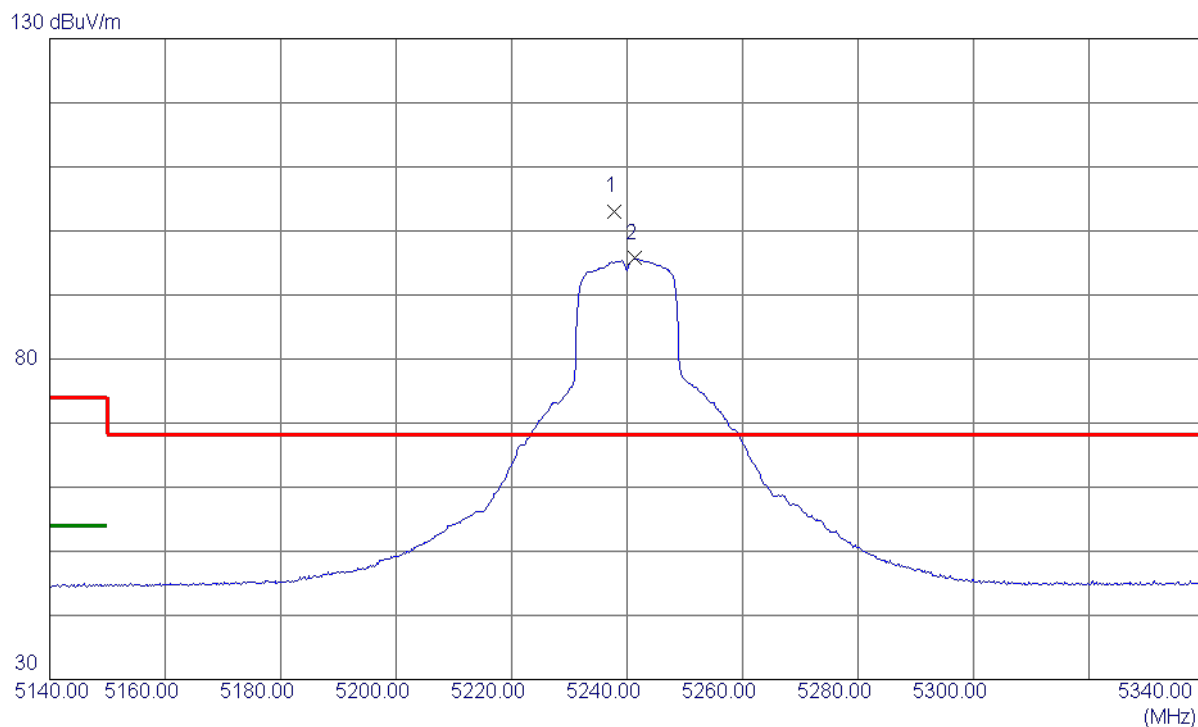
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.4500	40.32	13.63	53.95	54.00	-0.05	AVG	
2	10480.6600	50.51	13.63	64.14	68.30	-4.16	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5237.8000	86.59	16.36	102.95	68.30	34.65	Peak	No Limit
2	5241.4000	79.33	16.37	95.70	999.00	-903.30	AVG	No Limit

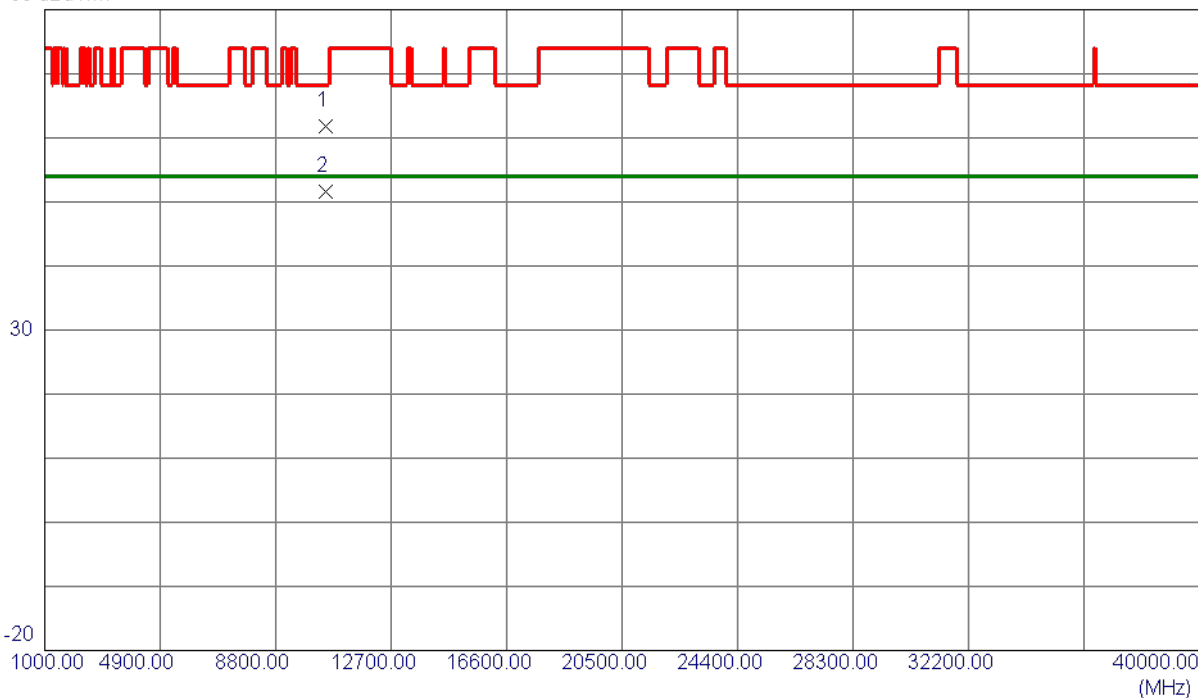
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

80 dBuV/m



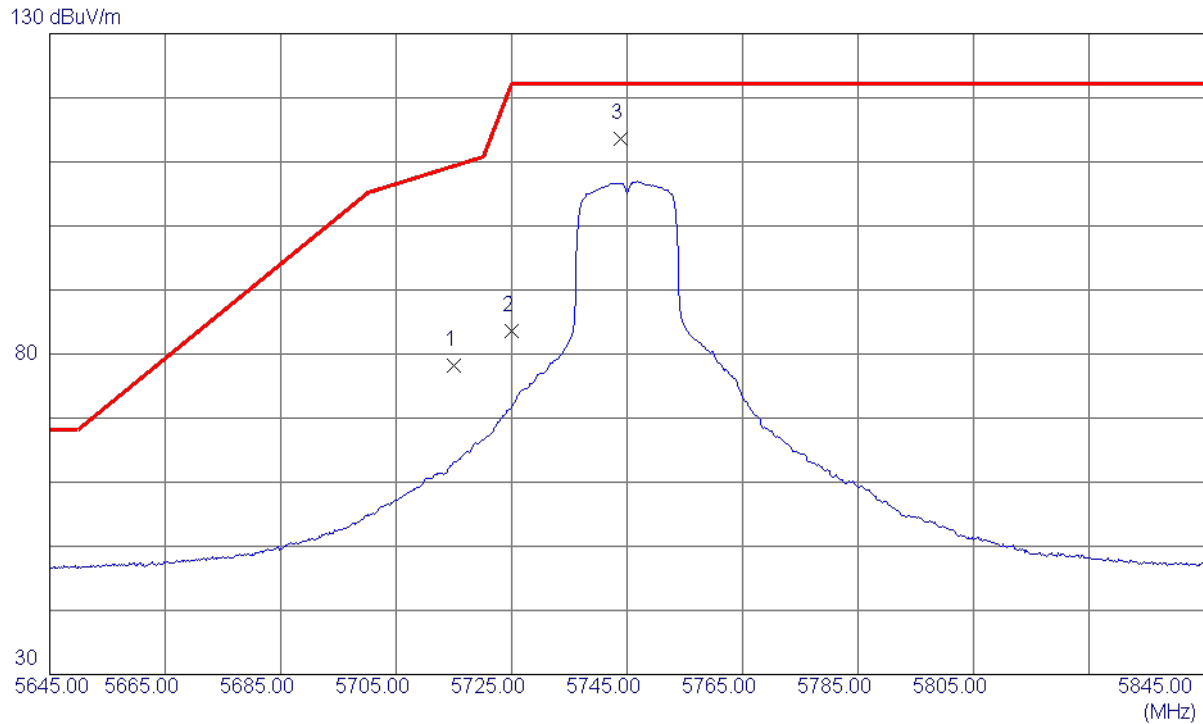
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.0000	48.16	13.63	61.79	68.30	-6.51	Peak	
2 *	10480.0000	37.95	13.63	51.58	54.00	-2.42	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	60.65	17.62	78.27	109.40	-31.13	Peak	
2	5725.0000	66.04	17.65	83.69	122.20	-38.51	Peak	
3 *	5743.8000	95.93	17.71	113.64	122.20	-8.56	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical

80 dBuV/m



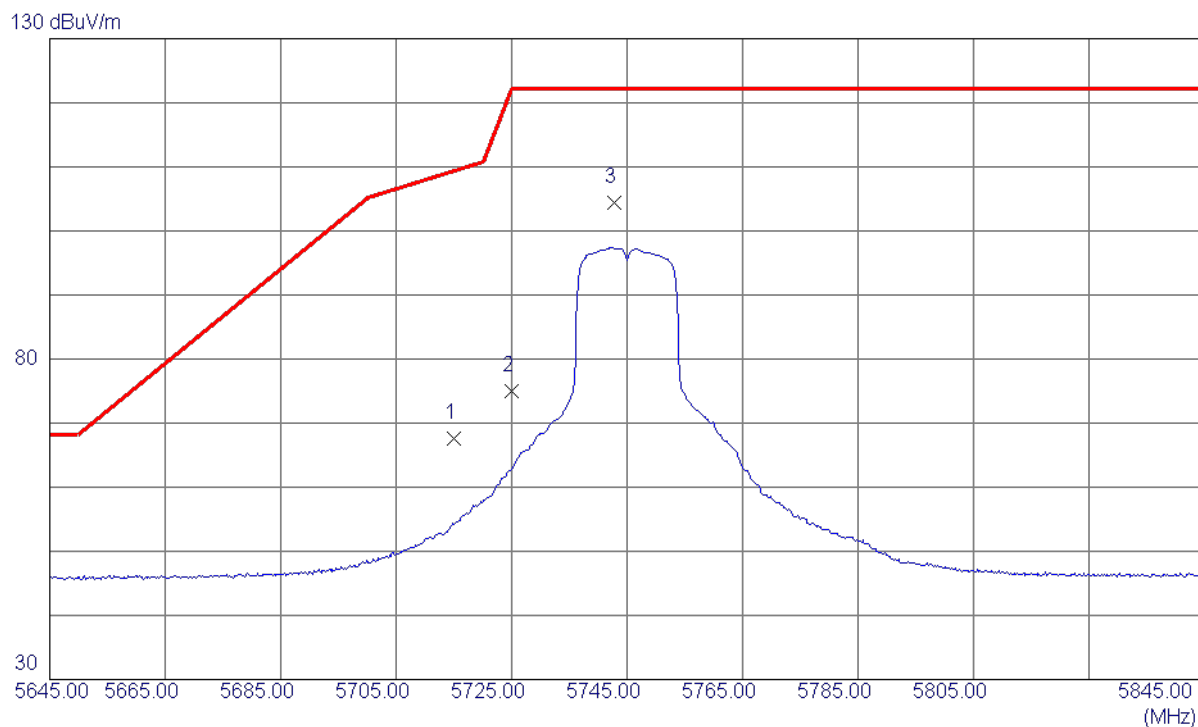
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11489.9000	36.44	14.55	50.99	54.00	-3.01	AVG	
2	11490.9200	46.11	14.55	60.66	74.00	-13.34	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal



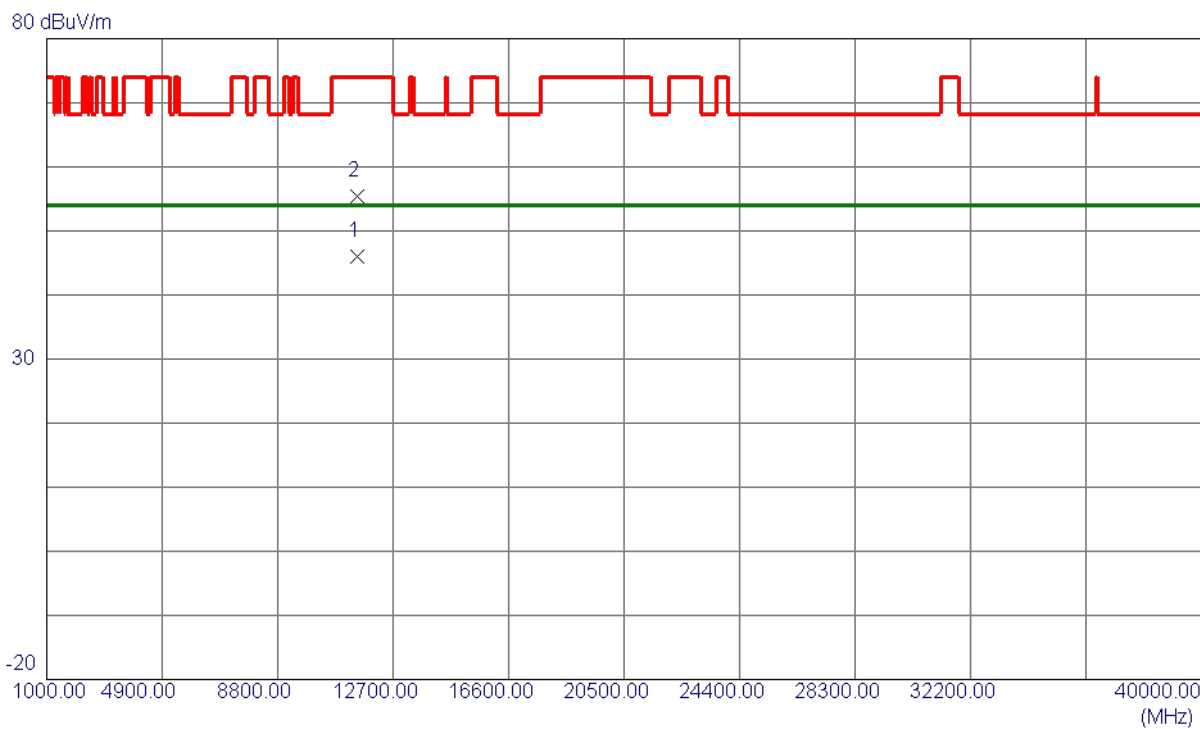
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	50.02	17.62	67.64	109.40	-41.76	Peak	
2	5725.0000	57.44	17.65	75.09	122.20	-47.11	Peak	
3 *	5742.8000	86.78	17.71	104.49	122.20	-17.71	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal



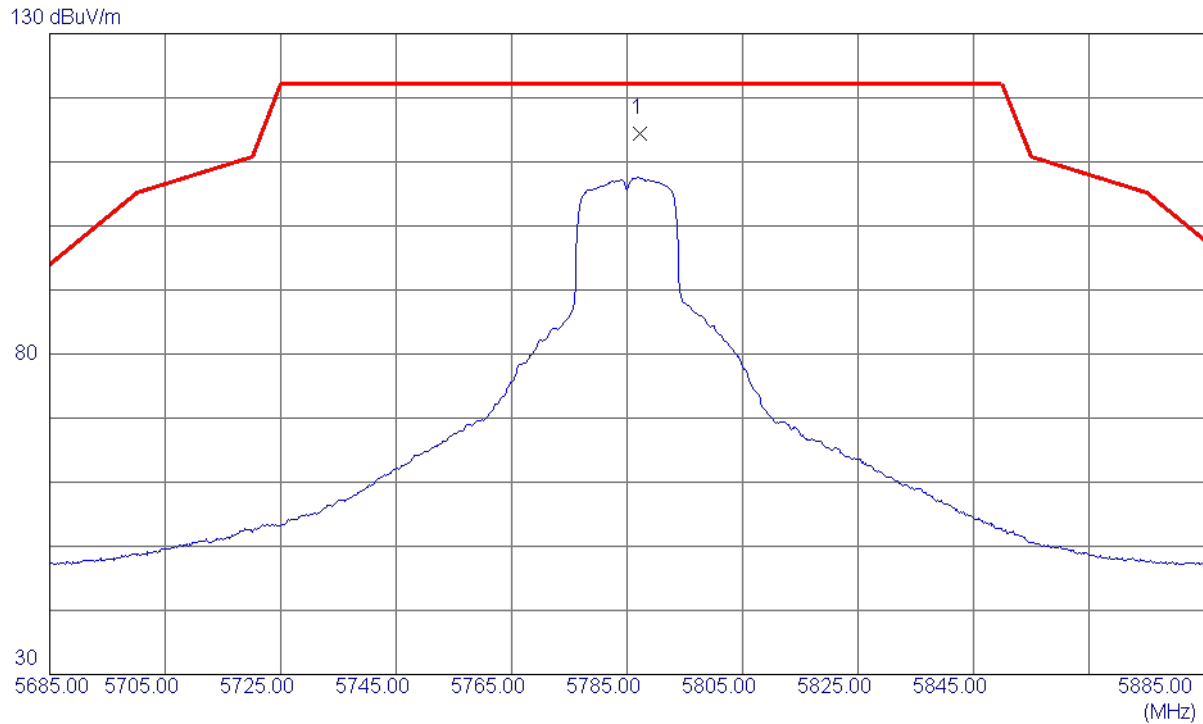
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.0400	31.37	14.55	45.92	54.00	-8.08	AVG	
2	11490.7400	40.87	14.55	55.42	74.00	-18.58	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5787.2000	96.52	17.84	114.36	122.20	-7.84	Peak	No Limit

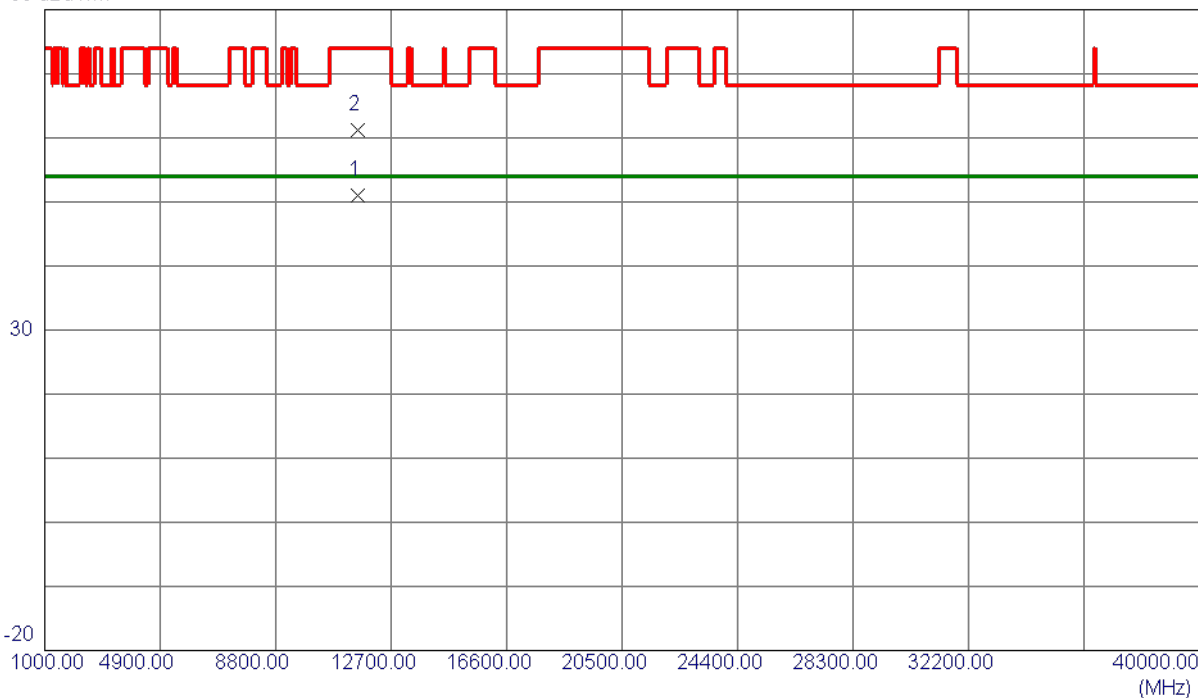
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical

80 dBuV/m



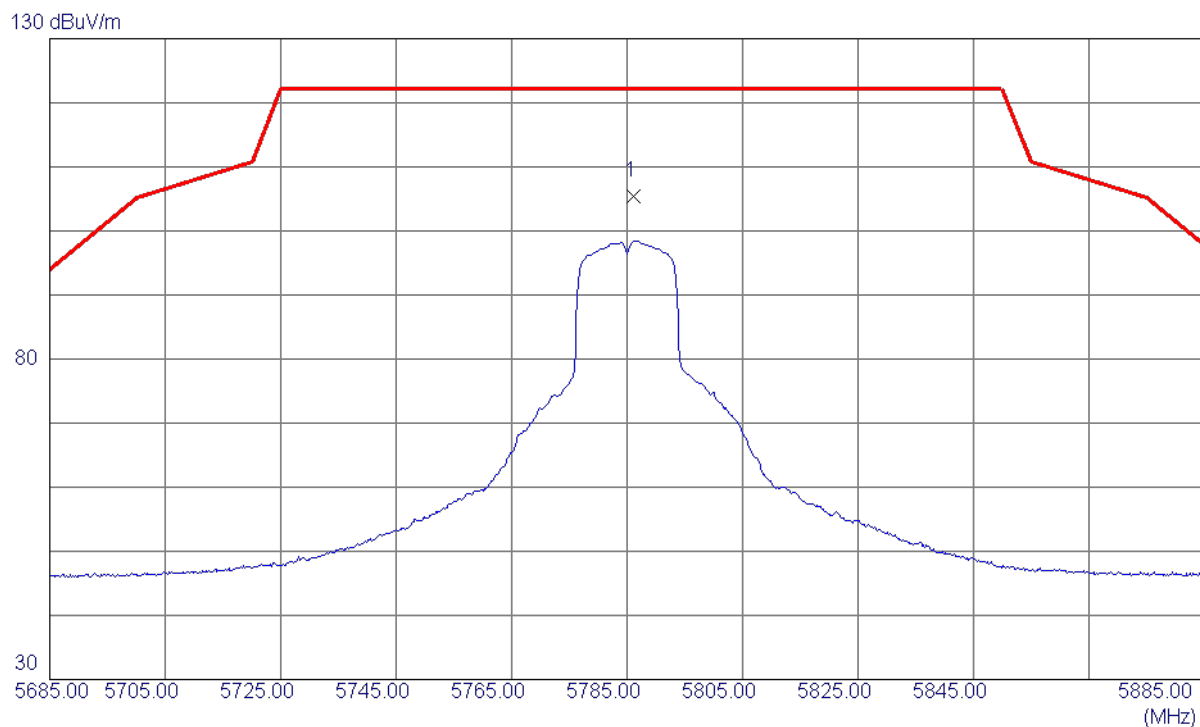
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.9600	36.45	14.57	51.02	54.00	-2.98	AVG	
2	11570.9200	46.64	14.57	61.21	74.00	-12.79	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.2000	87.58	17.83	105.41	122.20	-16.79	Peak	No Limit

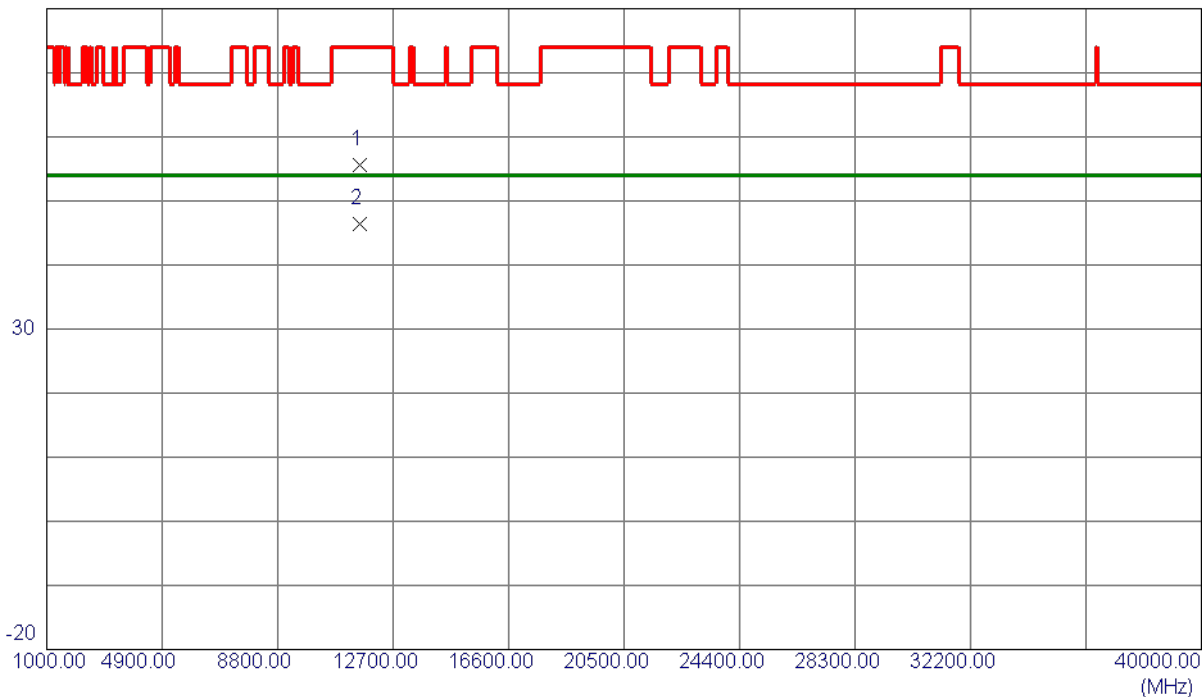
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal

80 dBuV/m



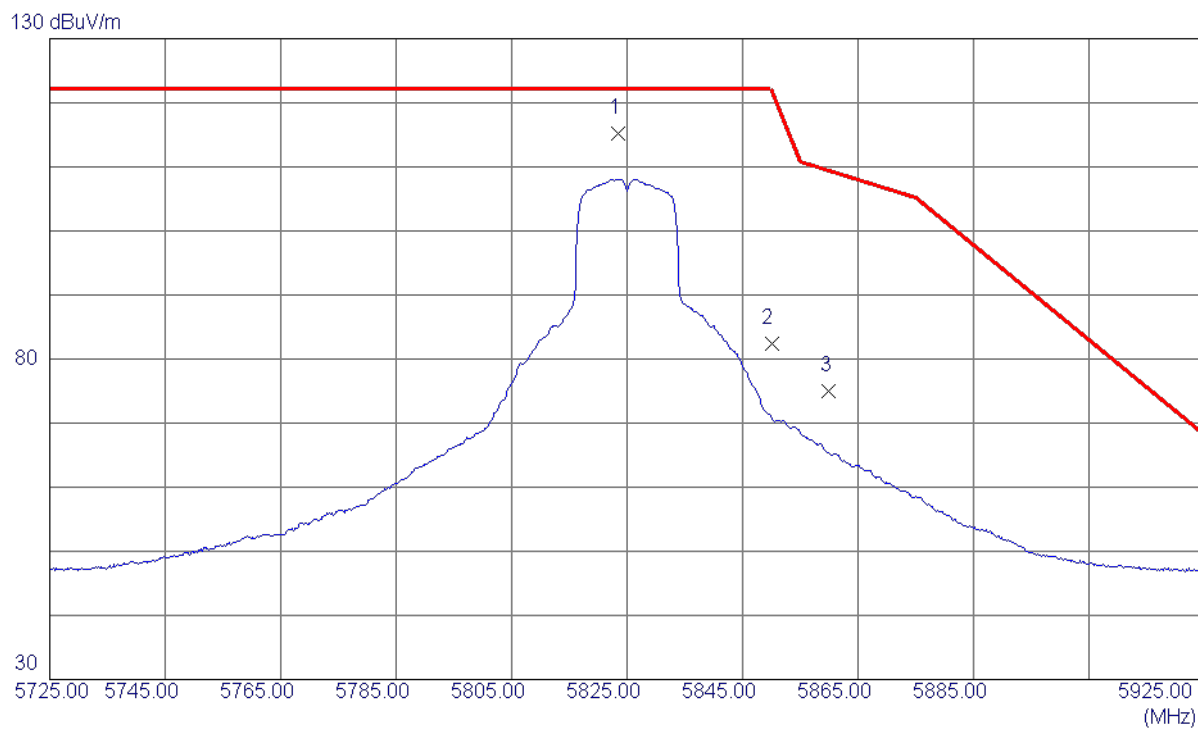
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11568.9800	41.08	14.57	55.65	74.00	-18.35	Peak	
2 *	11569.9000	31.86	14.57	46.43	54.00	-7.57	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.4000	97.28	17.95	115.23	122.20	-6.97	Peak	No Limit
2	5850.0000	64.40	18.02	82.42	122.20	-39.78	Peak	
3	5860.0000	57.02	18.05	75.07	109.40	-34.33	Peak	

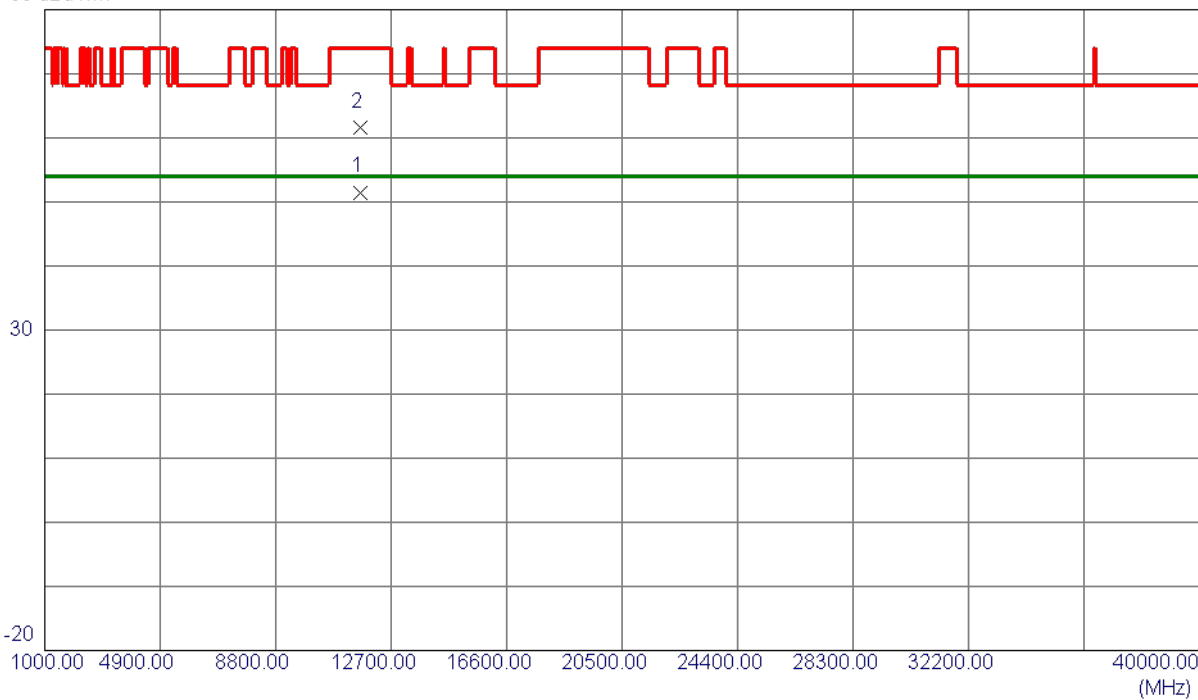
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical

80 dBuV/m



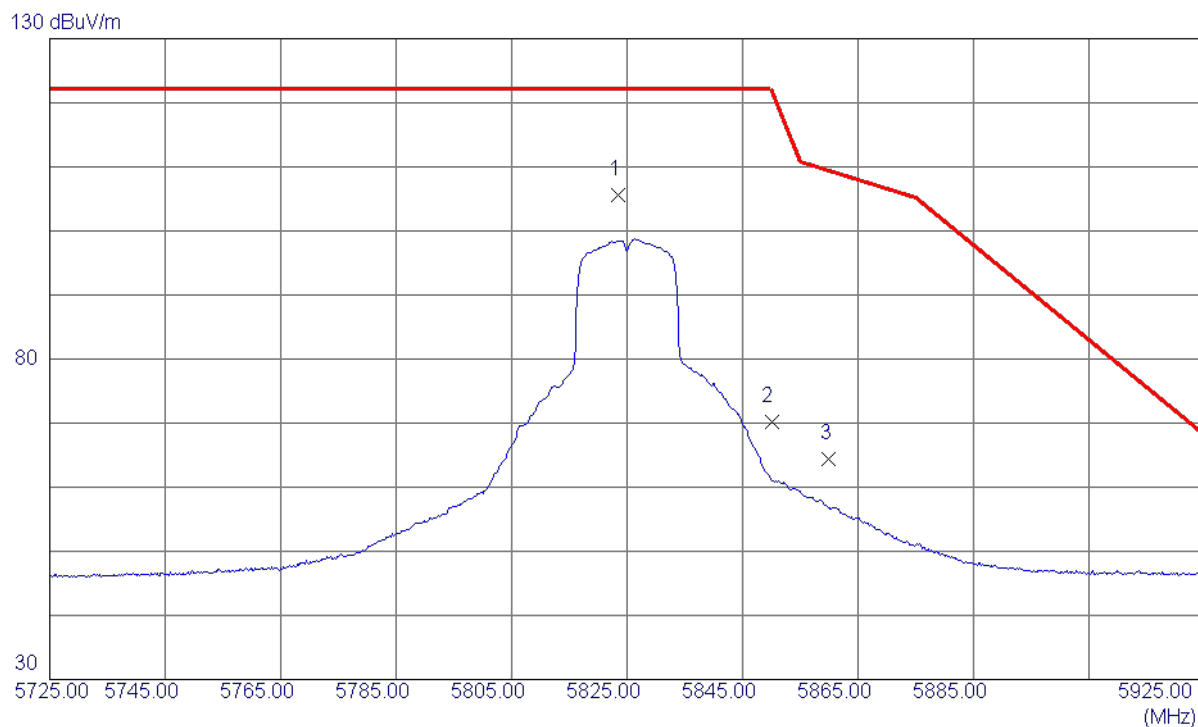
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.9000	36.93	14.57	51.50	54.00	-2.50	AVG	
2	11650.9200	46.98	14.57	61.55	74.00	-12.45	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.4000	87.72	17.95	105.67	122.20	-16.53	Peak	No Limit
2	5850.0000	52.15	18.02	70.17	122.20	-52.03	Peak	
3	5860.0000	46.27	18.05	64.32	109.40	-45.08	Peak	

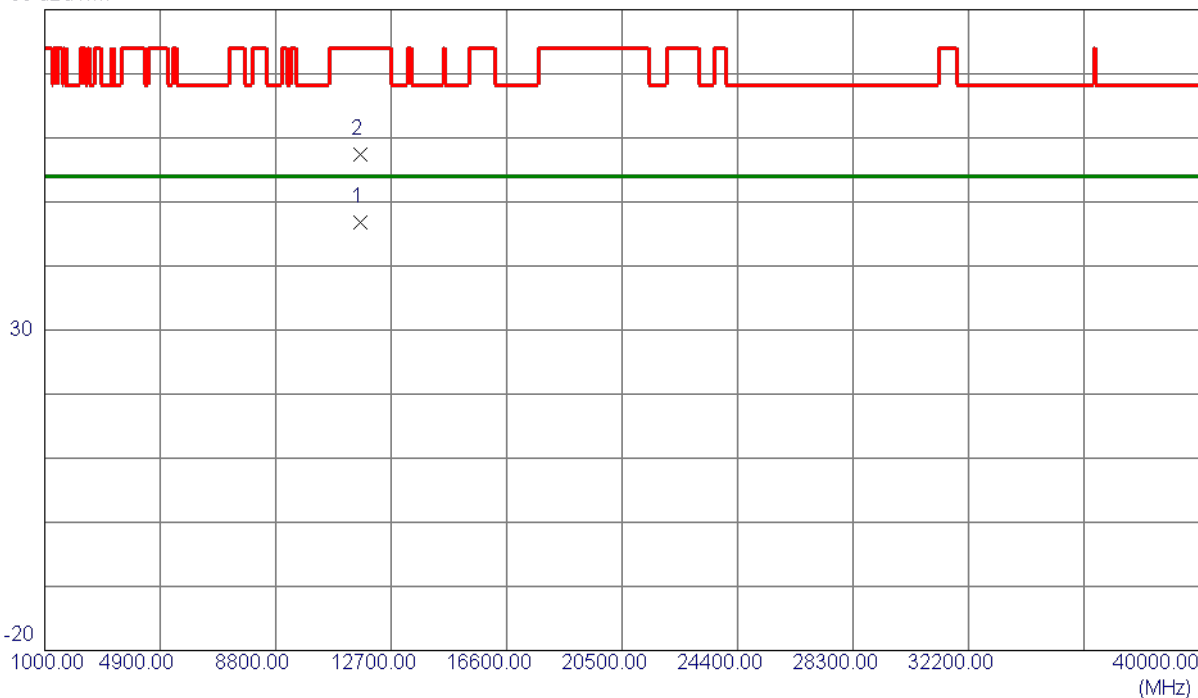
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal

80 dBuV/m



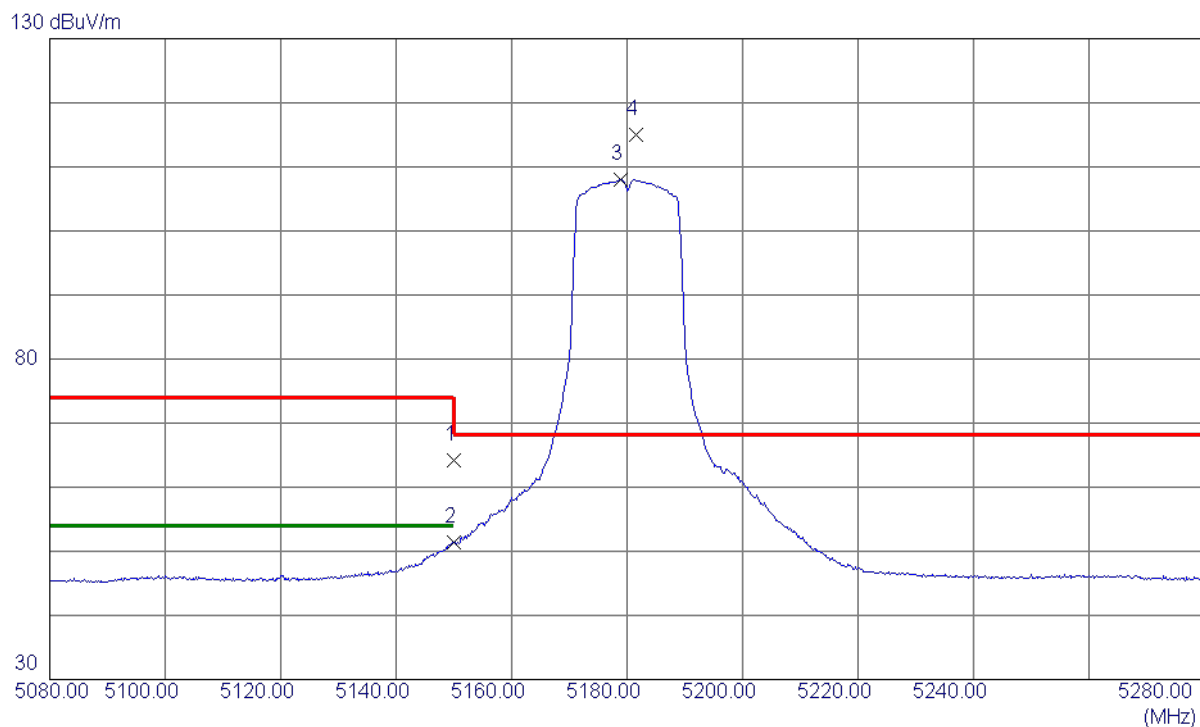
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.0199	32.26	14.57	46.83	54.00	-7.17	AVG	
2	11650.0400	42.76	14.57	57.33	74.00	-16.67	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.03	16.16	64.19	74.00	-9.81	Peak	
2	5150.0000	35.18	16.16	51.34	54.00	-2.66	AVG	
3	5178.8000	91.81	16.22	108.03	999.00	-890.97	AVG	No Limit
4 *	5181.6000	98.70	16.23	114.93	68.30	46.63	Peak	No Limit

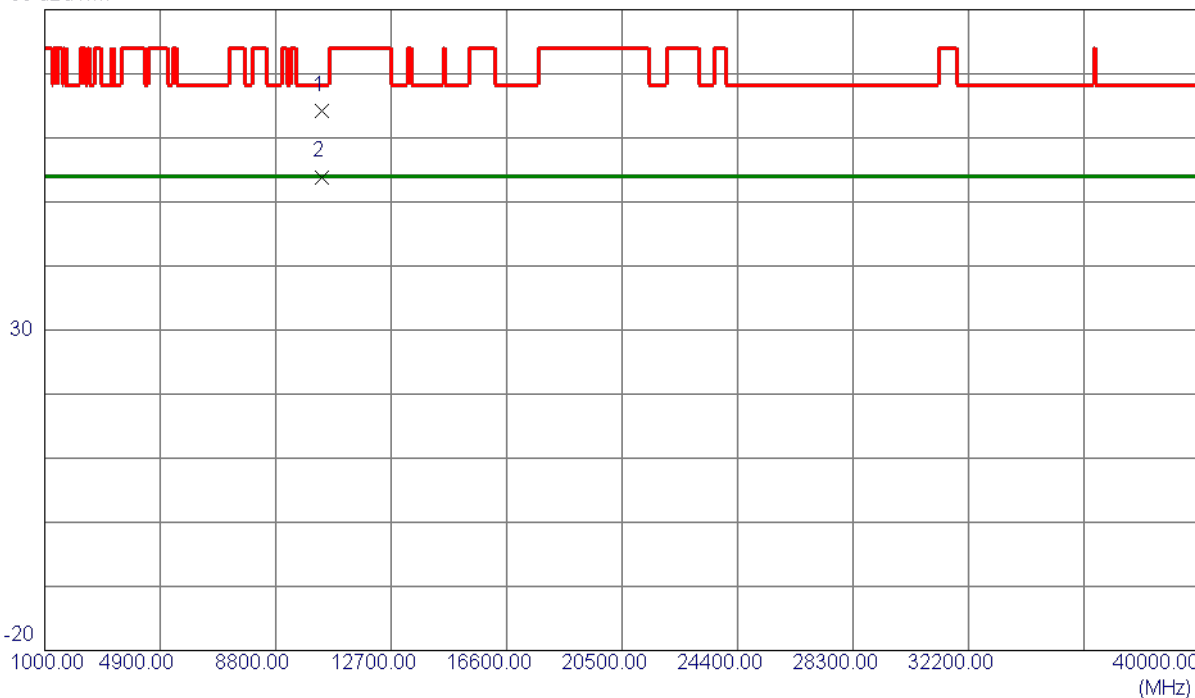
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical

80 dBuV/m



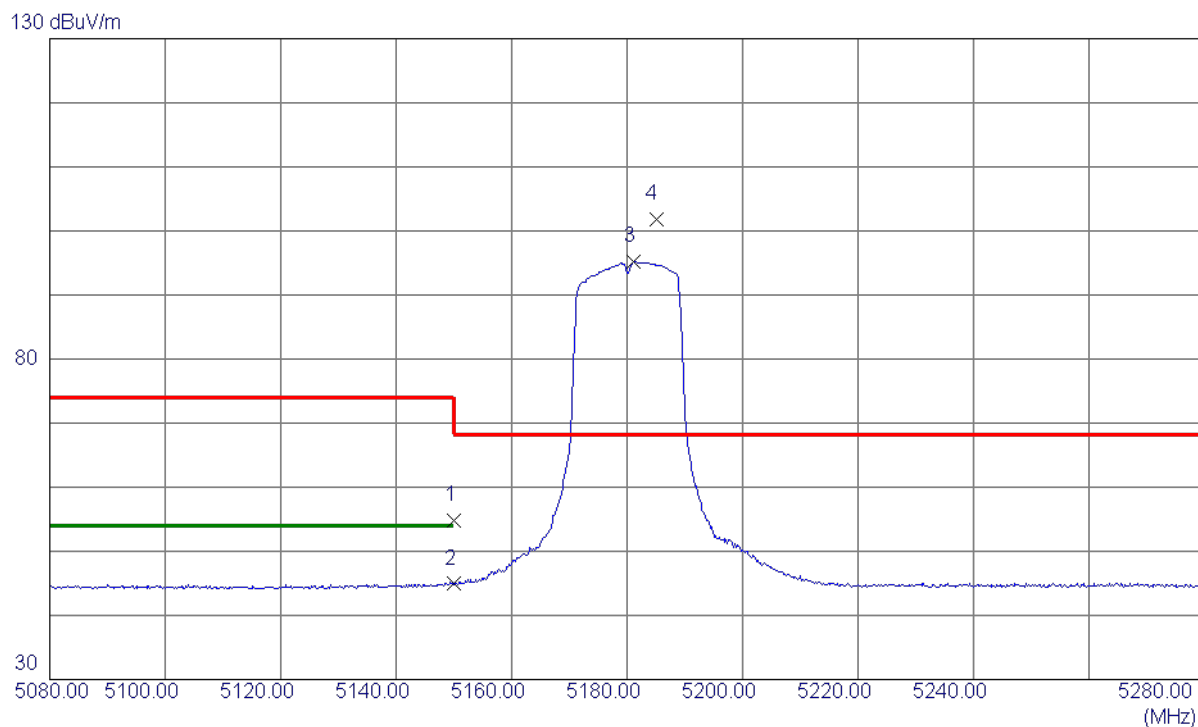
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10360.0000	50.62	13.51	64.13	68.30	-4.17	Peak	
2 *	10360.0000	40.39	13.51	53.90	54.00	-0.10	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.62	16.16	54.78	74.00	-19.22	Peak	
2	5150.0000	28.74	16.16	44.90	54.00	-9.10	AVG	
3	5181.2000	78.97	16.23	95.20	999.00	-903.80	AVG	No Limit
4 *	5185.0000	85.58	16.24	101.82	68.30	33.52	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal

80 dBuV/m



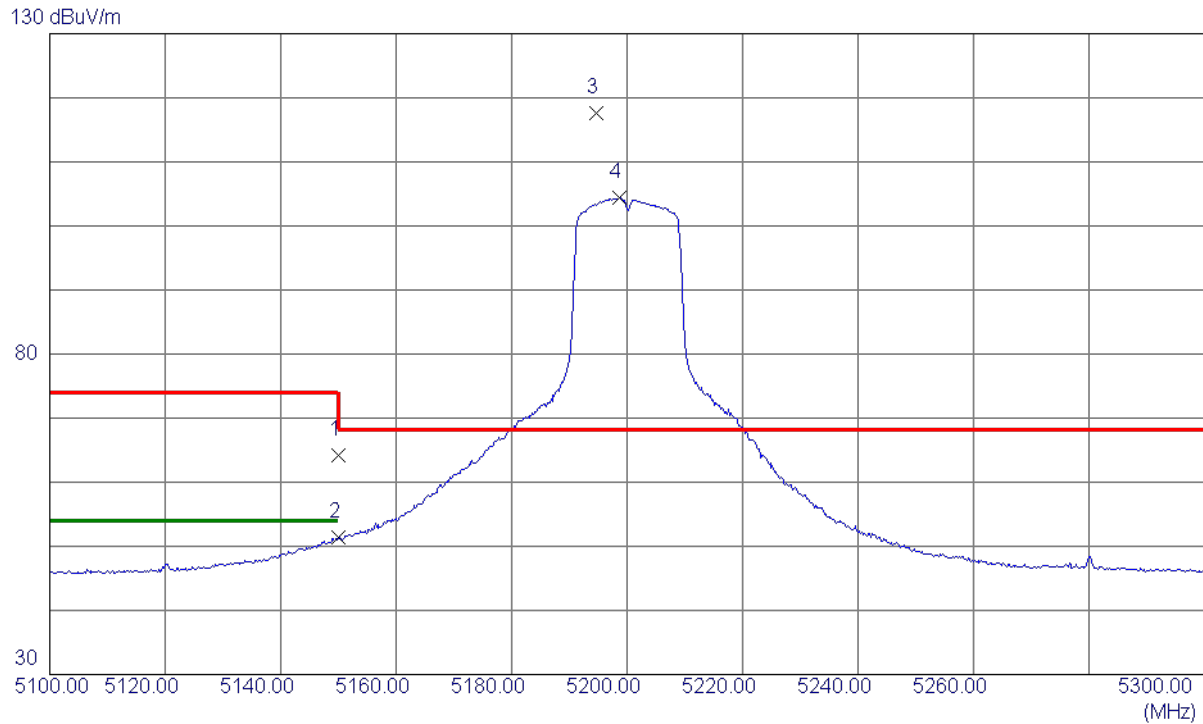
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10357.7400	48.40	13.51	61.91	68.30	-6.39	Peak	
2 *	10359.5599	38.71	13.51	52.22	54.00	-1.78	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.02	16.16	64.18	74.00	-9.82	Peak	
2	5150.0000	35.25	16.16	51.41	54.00	-2.59	AVG	
3 *	5194.6000	101.35	16.26	117.61	68.30	49.31	Peak	No Limit
4	5198.6000	88.11	16.27	104.38	999.00	-894.62	AVG	No Limit

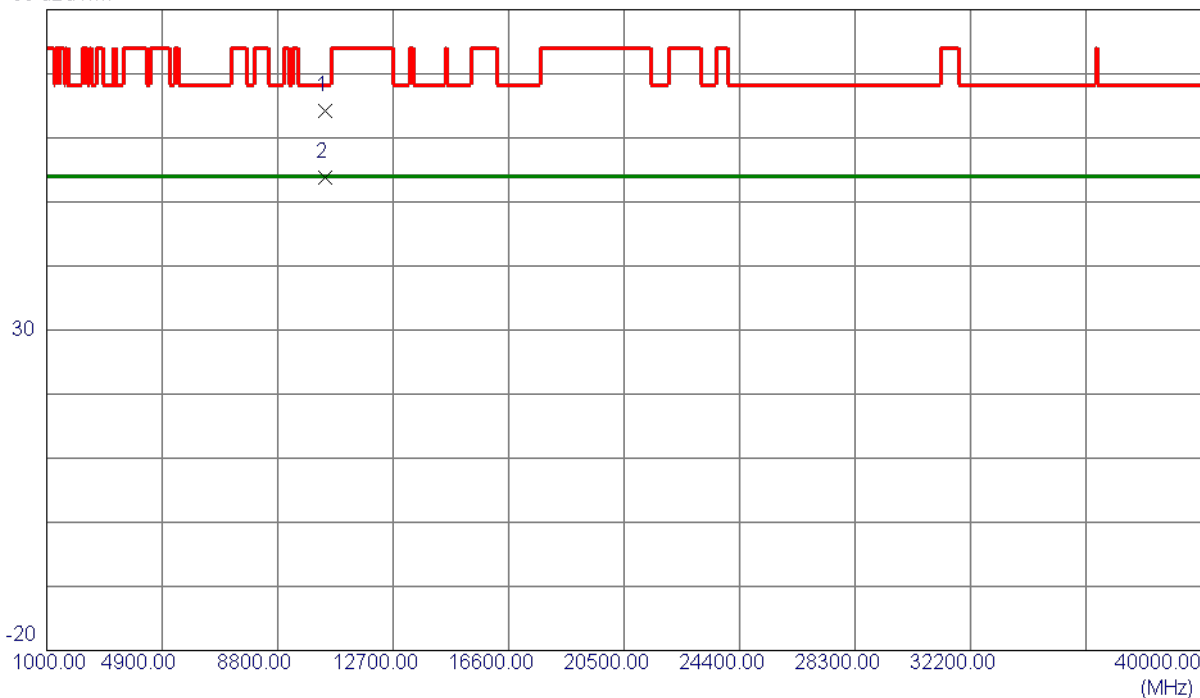
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical

80 dBuV/m



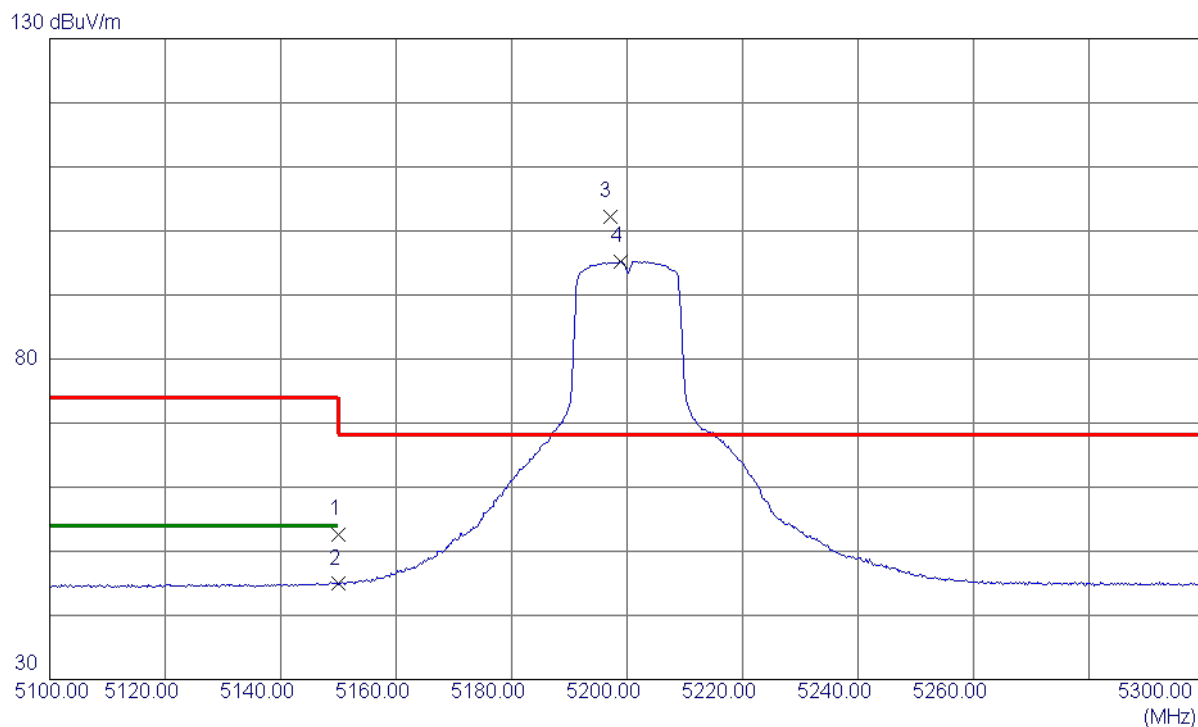
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.0000	50.65	13.55	64.20	68.30	-4.10	Peak	
2 *	10400.0000	40.30	13.55	53.85	54.00	-0.15	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal



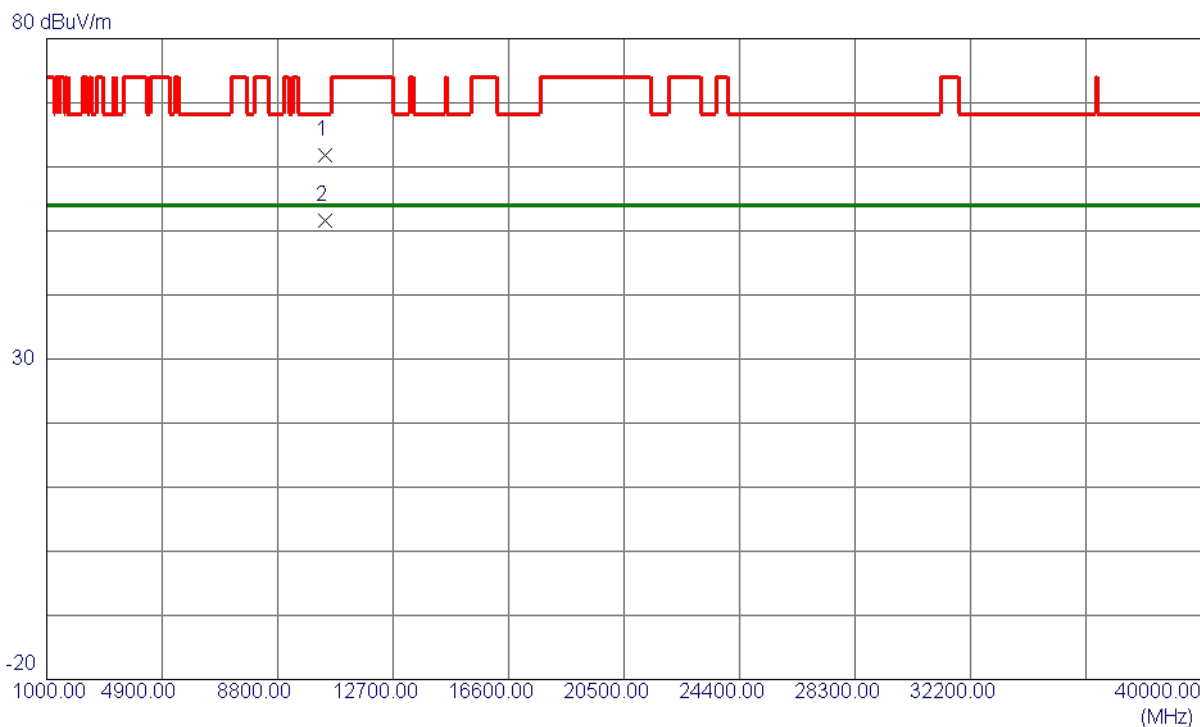
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.50	16.16	52.66	74.00	-21.34	Peak	
2	5150.0000	28.74	16.16	44.90	54.00	-9.10	AVG	
3 *	5197.0000	85.94	16.27	102.21	68.30	33.91	Peak	No Limit
4	5198.8000	79.01	16.27	95.28	999.00	-903.72	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal



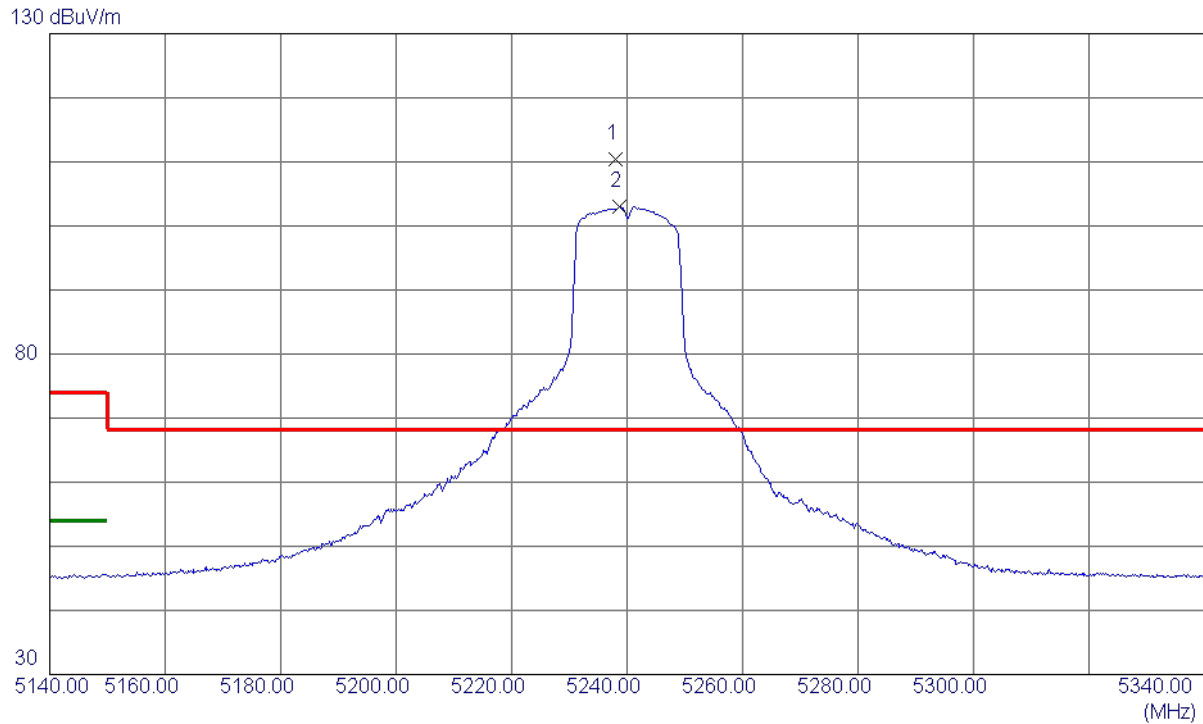
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.0000	48.20	13.55	61.75	68.30	-6.55	Peak	
2 *	10400.0000	38.03	13.55	51.58	54.00	-2.42	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.0000	93.98	16.36	110.34	68.30	42.04	Peak	No Limit
2	5238.6000	86.63	16.37	103.00	999.00	-896.00	AVG	No Limit

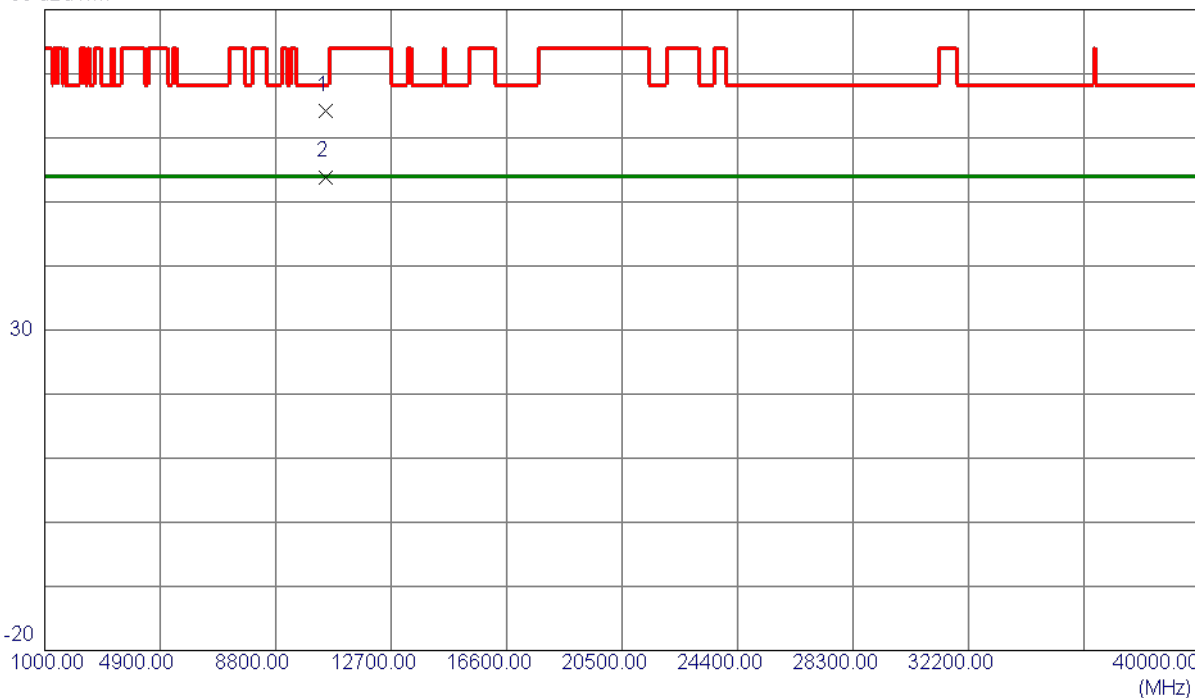
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical

80 dBuV/m



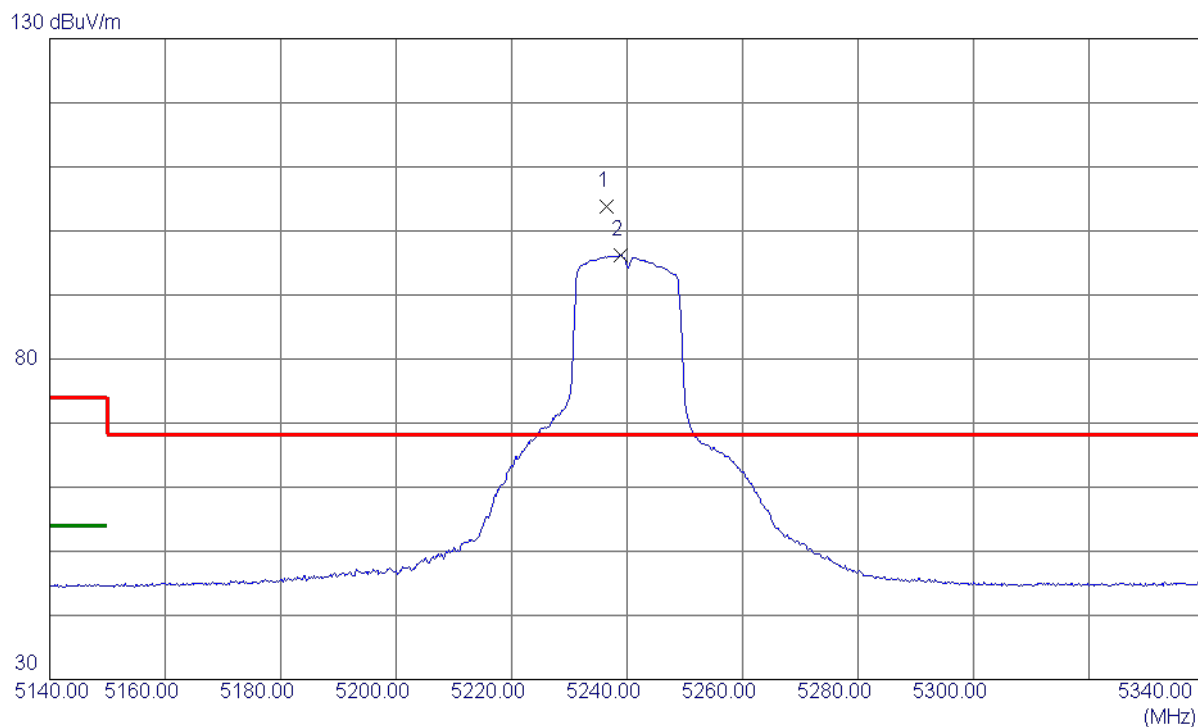
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.0000	50.54	13.63	64.17	68.30	-4.13	Peak	
2 *	10480.0000	40.27	13.63	53.90	54.00	-0.10	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal



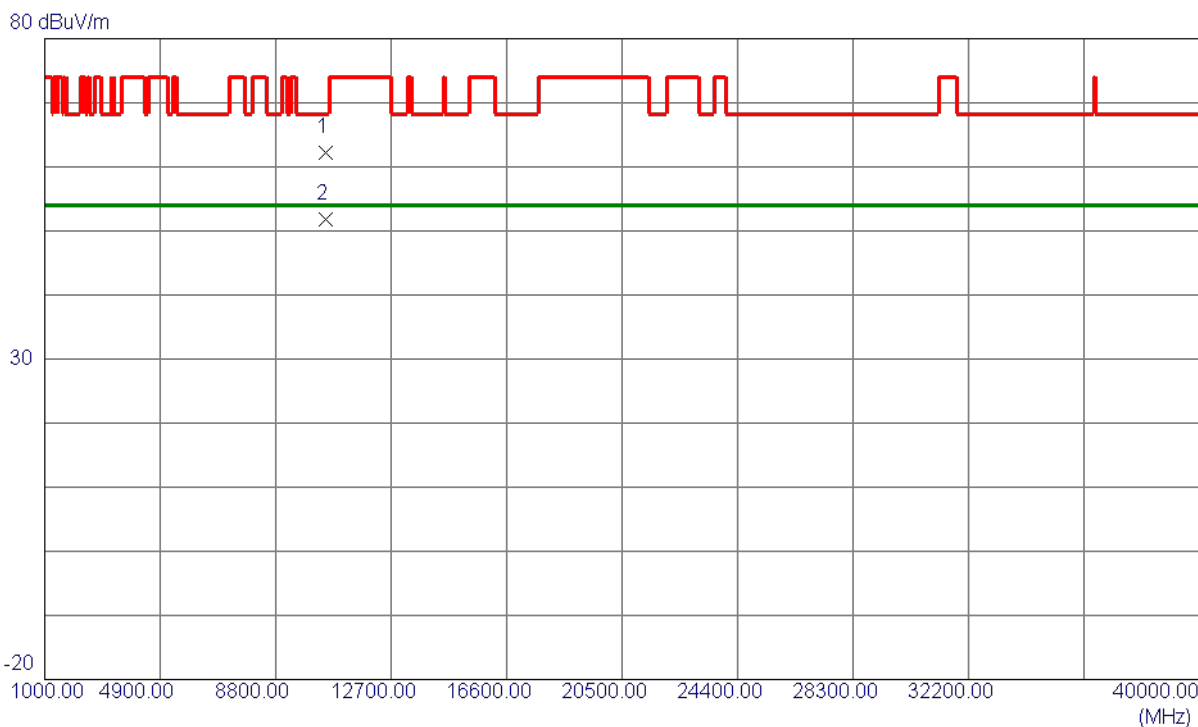
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5236.4000	87.48	16.36	103.84	68.30	35.54	Peak	No Limit
2	5238.8000	79.90	16.37	96.27	999.00	-902.73	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal



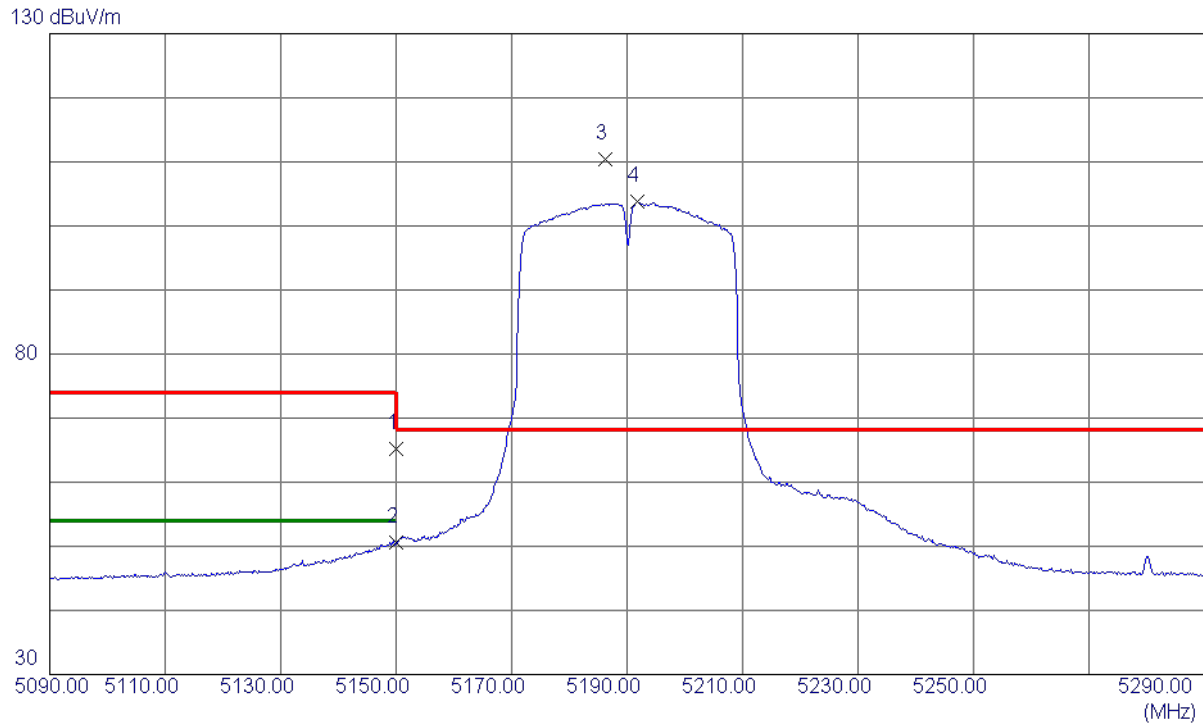
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.0000	48.62	13.63	62.25	68.30	-6.05	Peak	
2 *	10480.0000	38.26	13.63	51.89	54.00	-2.11	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	49.09	16.16	65.25	74.00	-8.75	Peak	
2	5150.0000	34.35	16.16	50.51	54.00	-3.49	AVG	
3 *	5186.2000	94.13	16.24	110.37	68.30	42.07	Peak	No Limit
4	5191.8000	87.46	16.25	103.71	999.00	-895.29	AVG	No Limit

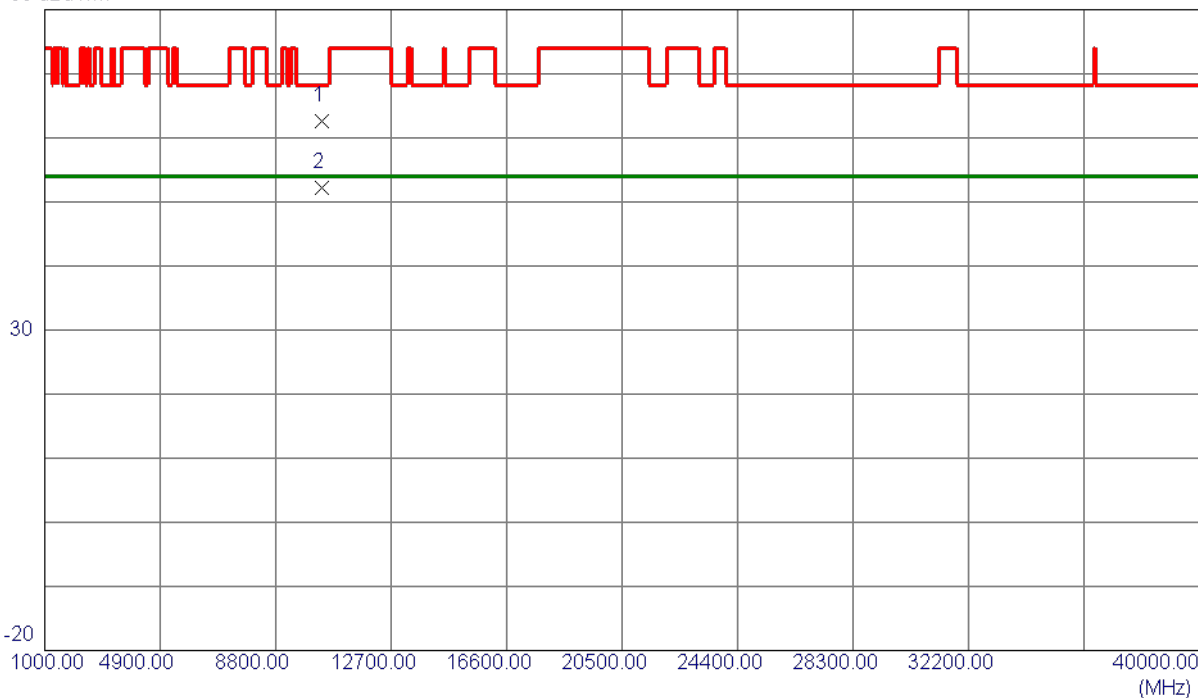
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical

80 dBuV/m



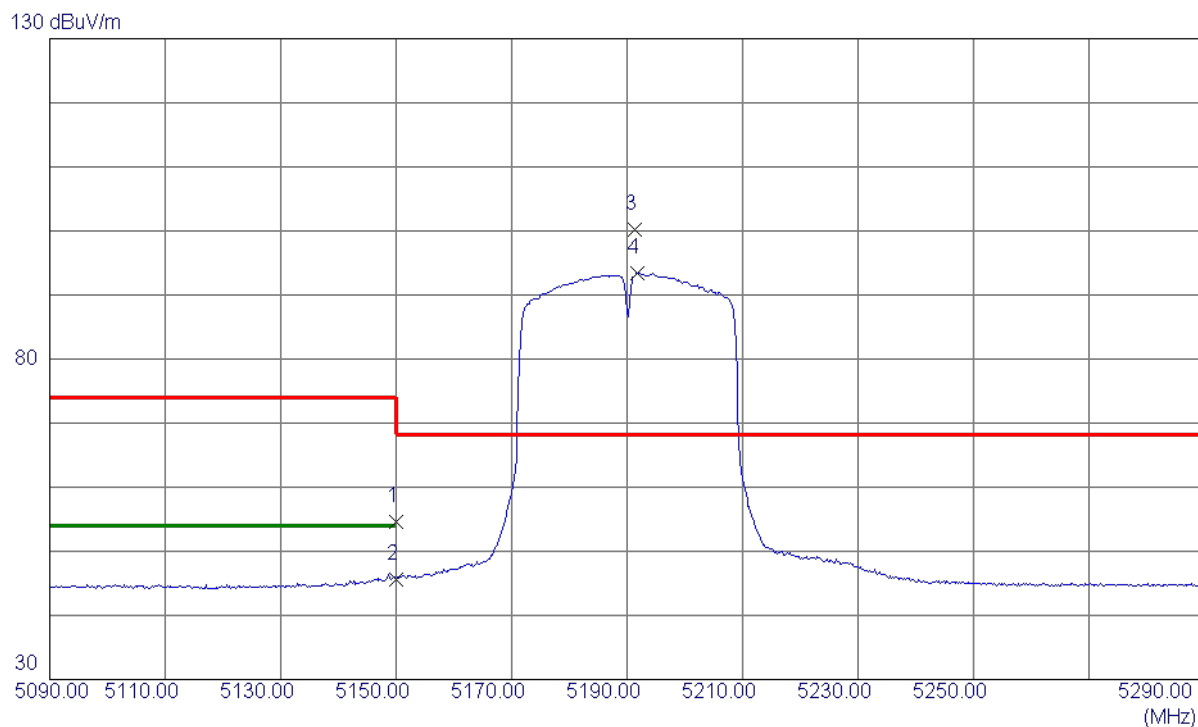
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10376.6400	48.99	13.53	62.52	68.30	-5.78	Peak	
2 *	10378.3200	38.58	13.53	52.11	54.00	-1.89	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.36	16.16	54.52	74.00	-19.48	Peak	
2	5150.0000	29.52	16.16	45.68	54.00	-8.32	AVG	
3 *	5191.4000	83.95	16.25	100.20	68.30	31.90	Peak	No Limit
4	5191.8000	77.16	16.25	93.41	999.00	-905.59	AVG	No Limit

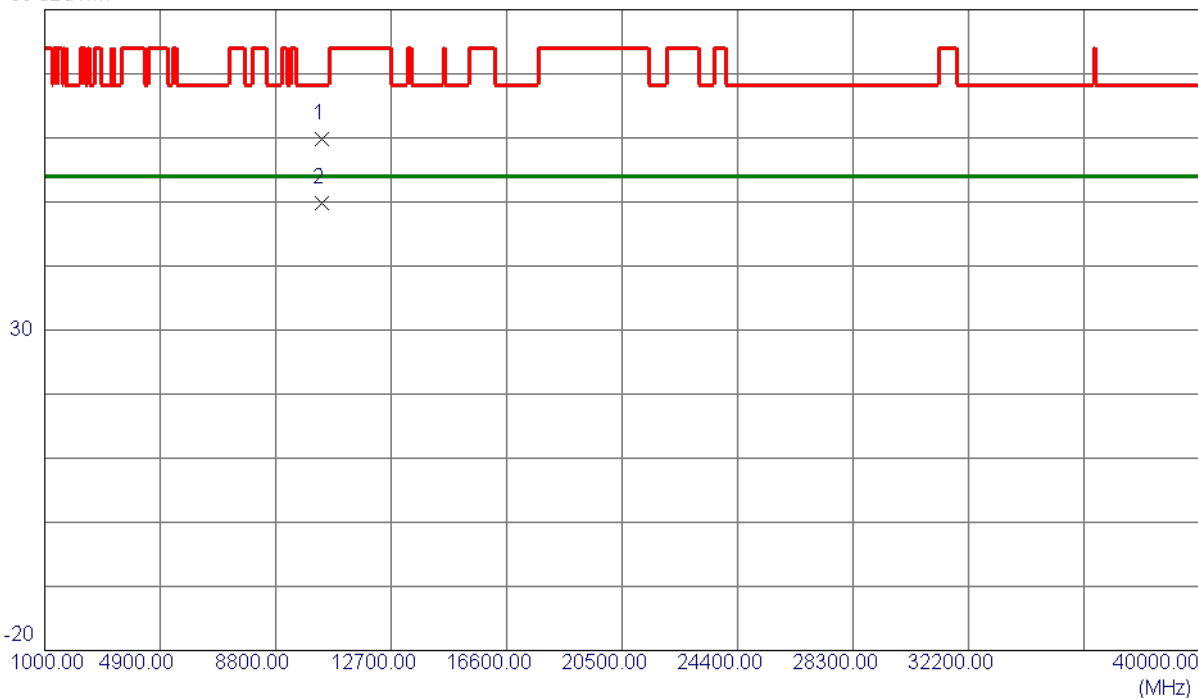
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal

80 dBuV/m



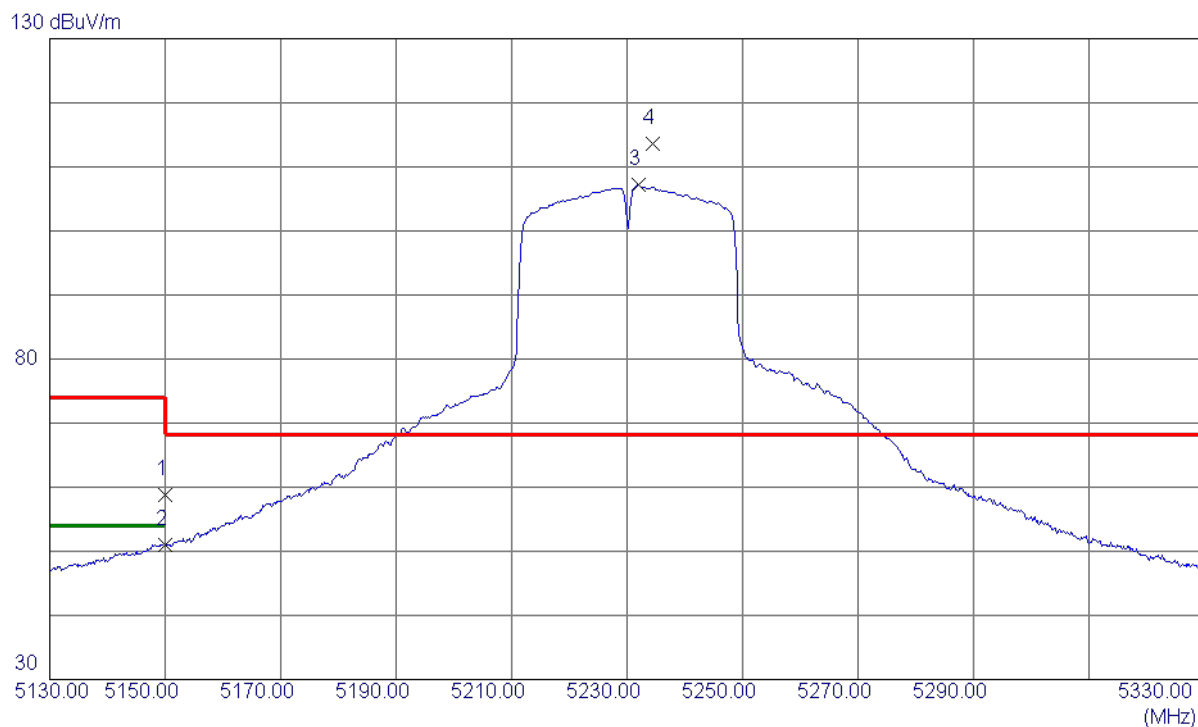
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10376.5599	46.26	13.53	59.79	68.30	-8.51	Peak	
2 *	10378.2100	36.19	13.53	49.72	54.00	-4.28	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.62	16.16	58.78	74.00	-15.22	Peak	
2	5150.0000	34.87	16.16	51.03	54.00	-2.97	AVG	
3	5232.0000	90.80	16.35	107.15	999.00	-891.85	AVG	No Limit
4 *	5234.4000	97.33	16.36	113.69	68.30	45.39	Peak	No Limit

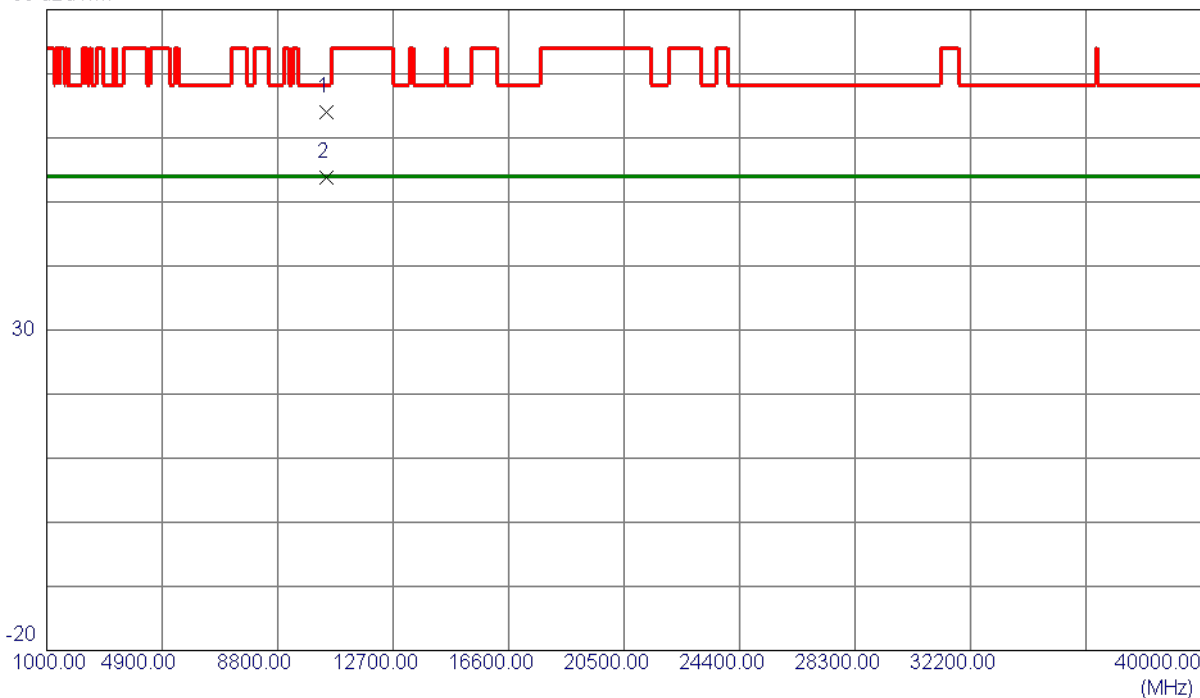
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical

80 dBuV/m



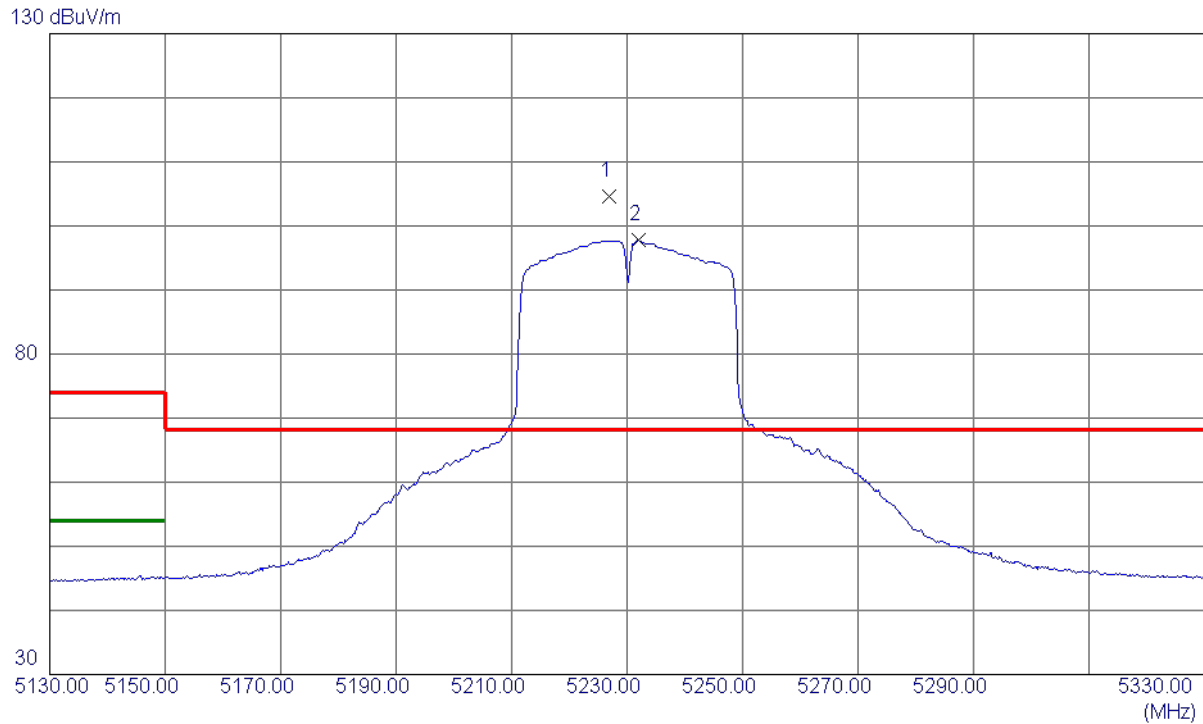
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10456.7400	50.44	13.60	64.04	68.30	-4.26	Peak	
2 *	10458.5800	40.25	13.61	53.86	54.00	-0.14	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal



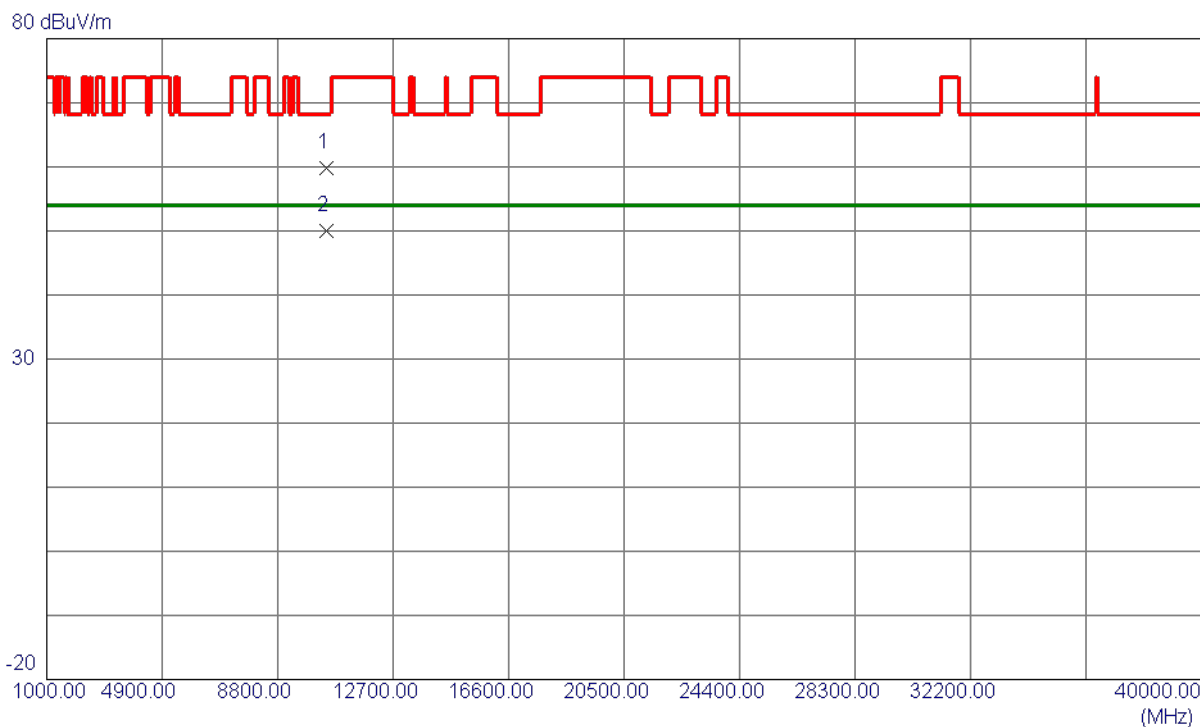
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5226.8000	88.28	16.34	104.62	68.30	36.32	Peak	No Limit
2	5232.0000	81.39	16.35	97.74	999.00	-901.26	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal



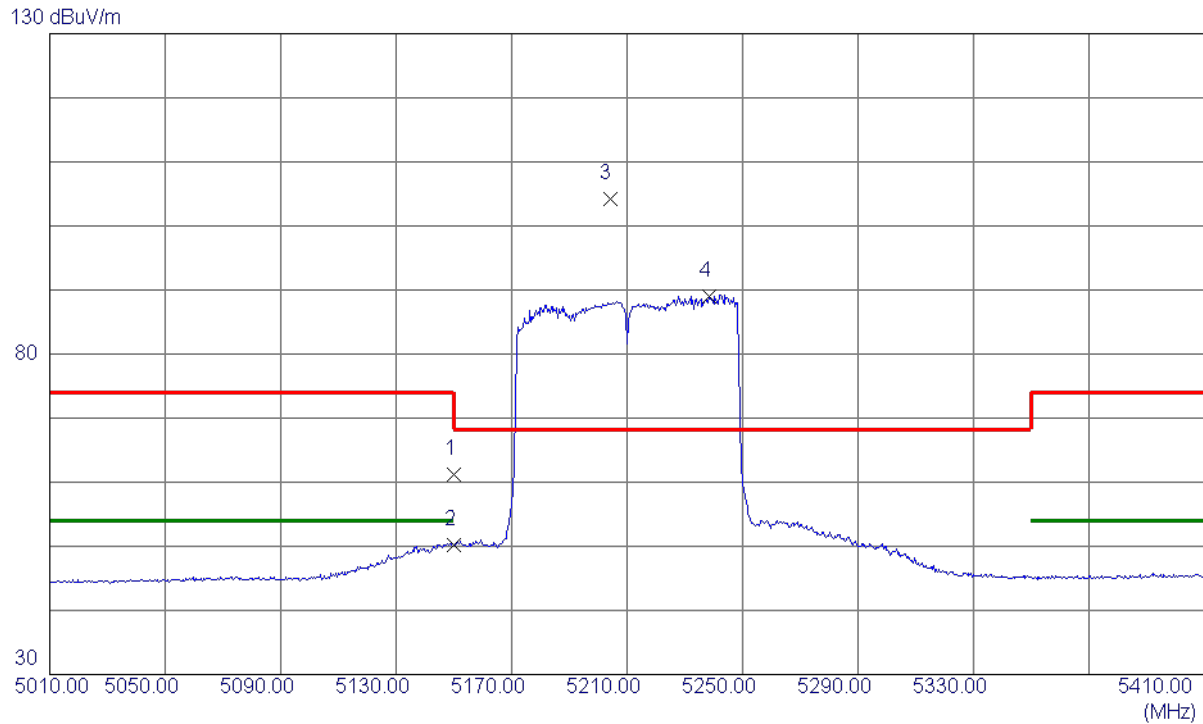
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10460.0000	46.17	13.61	59.78	68.30	-8.52	Peak	
2 *	10460.0000	36.42	13.61	50.03	54.00	-3.97	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	45.11	16.16	61.27	74.00	-12.73	Peak	
2	5150.0000	34.07	16.16	50.23	54.00	-3.77	AVG	
3 *	5204.0000	88.01	16.28	104.29	68.30	35.99	Peak	No Limit
4	5238.4000	72.59	16.37	88.96	999.00	-910.04	AVG	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

80 dBuV/m



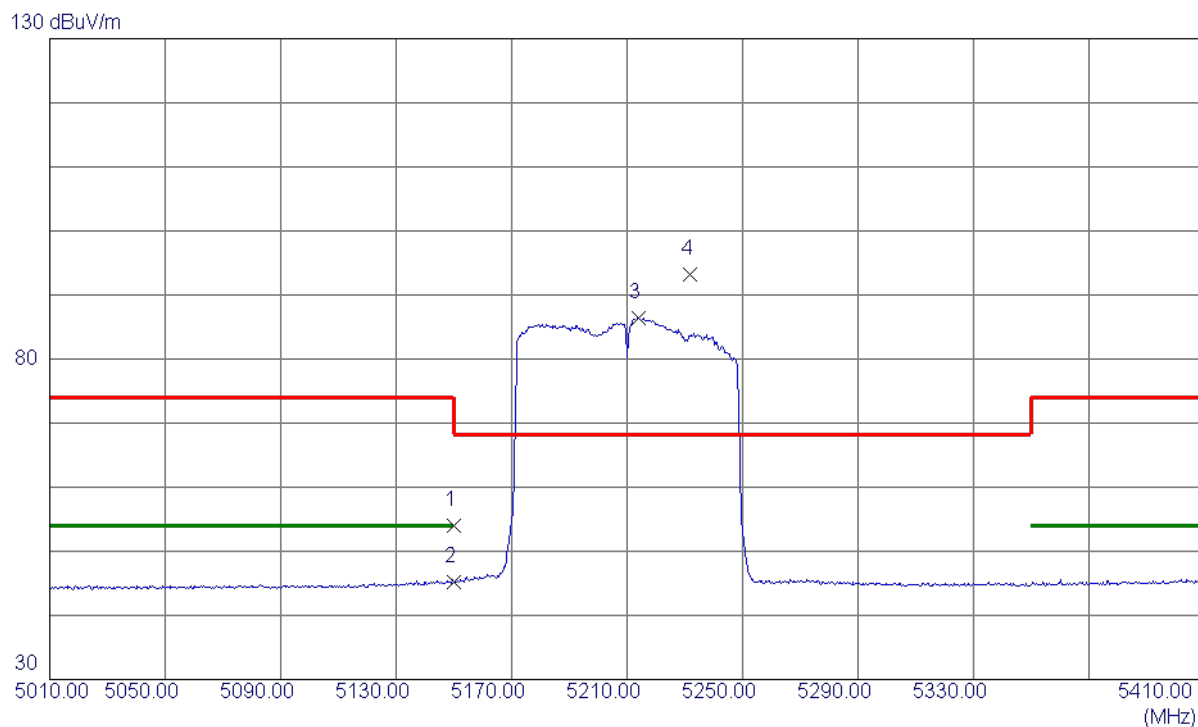
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10420.0000	47.21	13.57	60.78	68.30	-7.52	Peak	
2 *	10420.0000	37.55	13.57	51.12	54.00	-2.88	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.75	16.16	53.91	74.00	-20.09	Peak	
2	5150.0000	29.06	16.16	45.22	54.00	-8.78	AVG	
3	5214.0000	70.13	16.31	86.44	999.00	-912.56	AVG	No Limit
4 *	5232.0000	76.83	16.35	93.18	68.30	24.88	Peak	No Limit

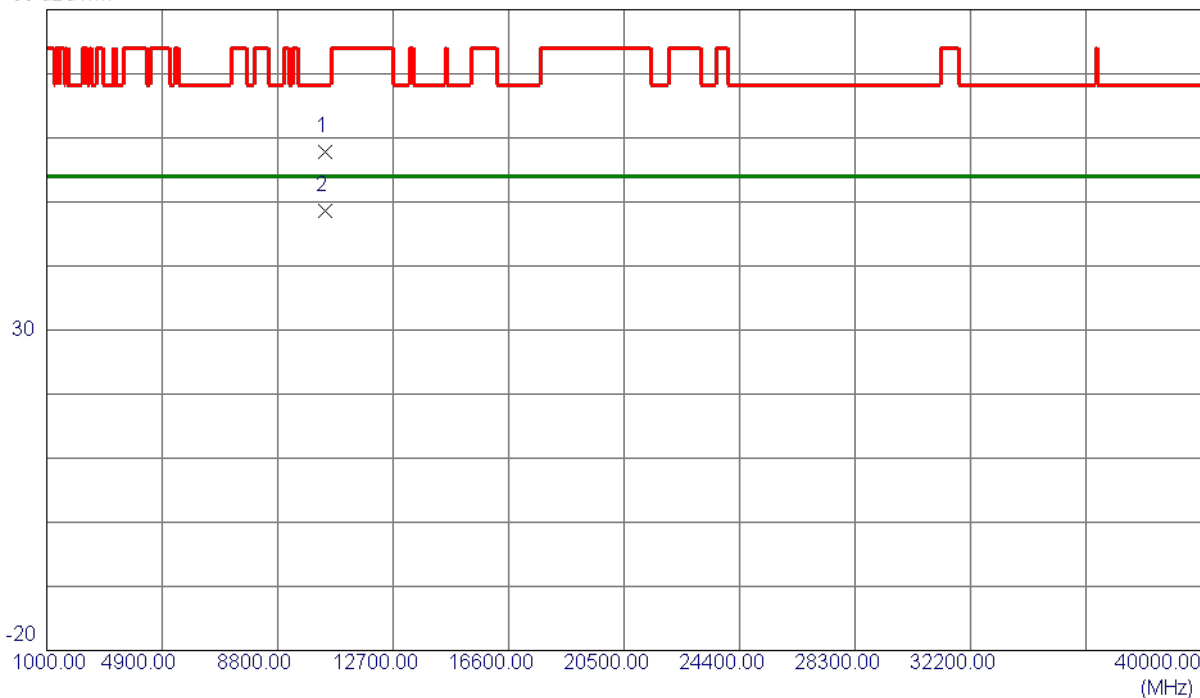
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

80 dBuV/m



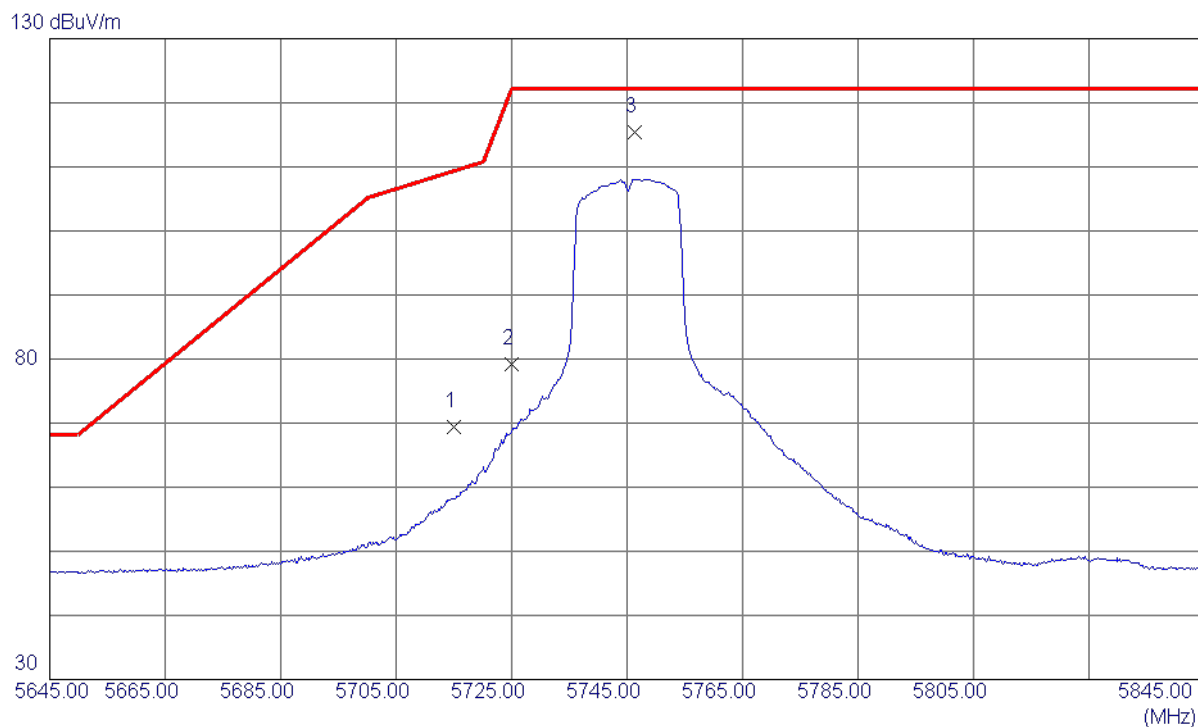
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10420.0000	44.28	13.57	57.85	68.30	-10.45	Peak	
2 *	10420.0000	35.11	13.57	48.68	54.00	-5.32	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	51.72	17.62	69.34	109.40	-40.06	Peak	
2	5725.0000	61.47	17.65	79.12	122.20	-43.08	Peak	
3 *	5746.4000	97.67	17.72	115.39	122.20	-6.81	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical

80 dBuV/m



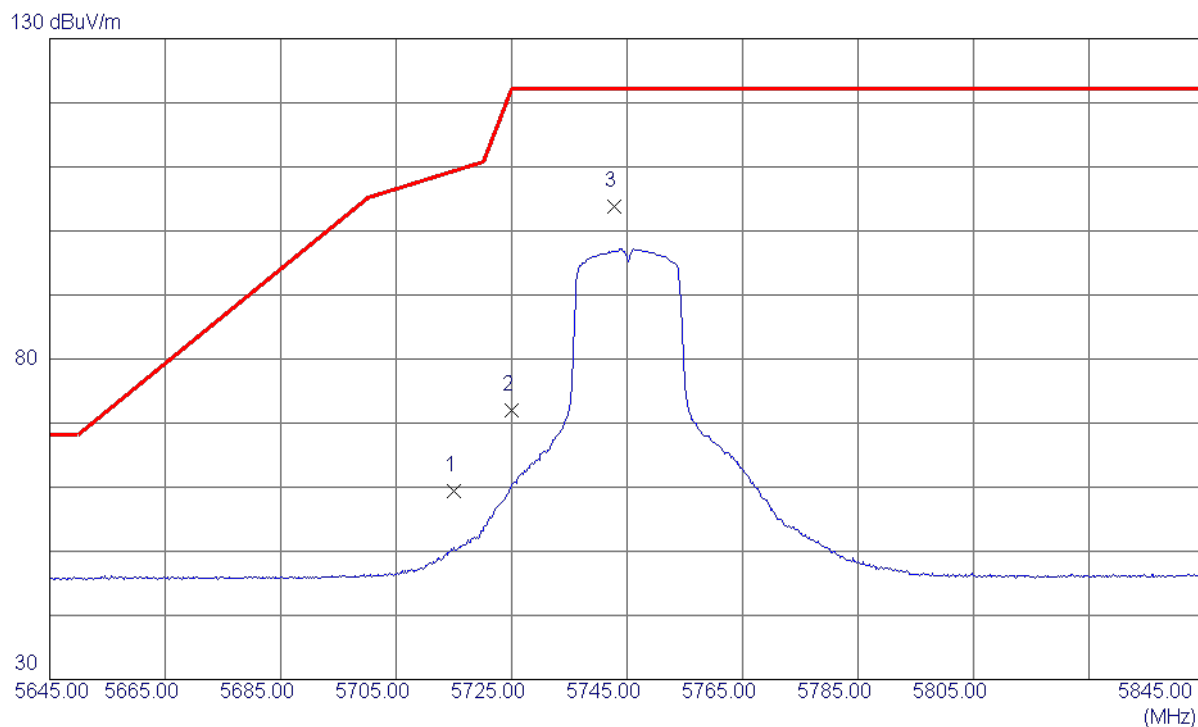
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.2000	36.73	14.55	51.28	54.00	-2.72	AVG	
2	11491.2000	46.62	14.55	61.17	74.00	-12.83	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	41.74	17.62	59.36	109.40	-50.04	Peak	
2	5725.0000	54.28	17.65	71.93	122.20	-50.27	Peak	
3 *	5742.8000	86.14	17.71	103.85	122.20	-18.35	Peak	No Limit

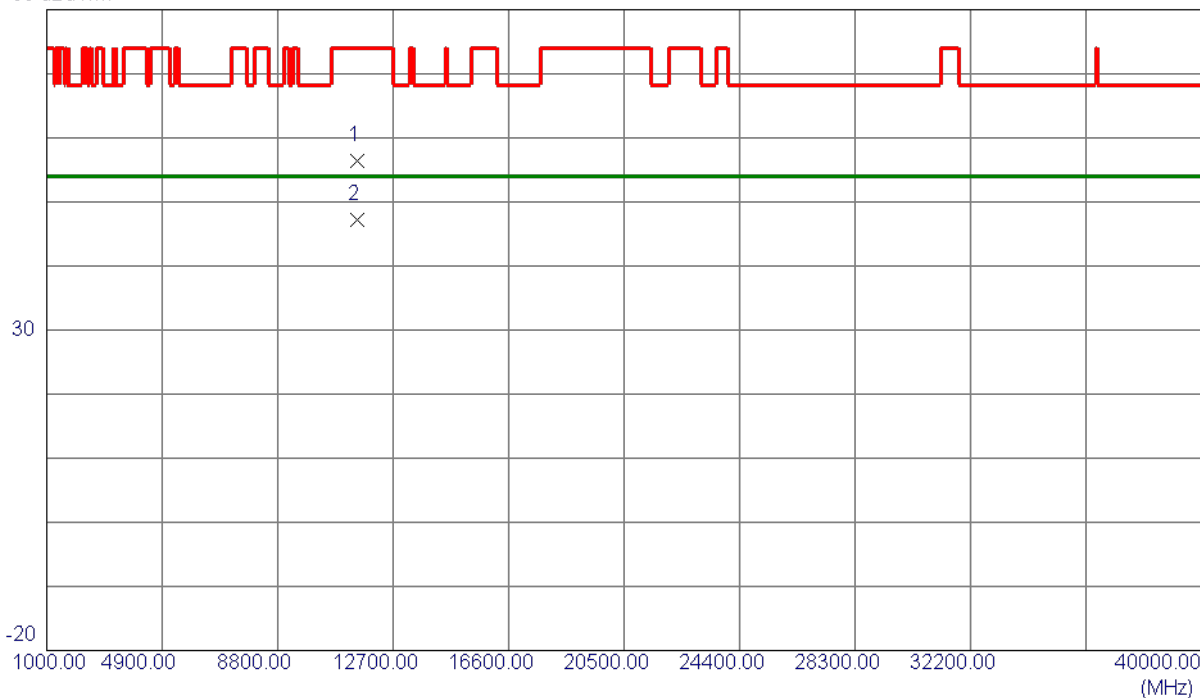
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal

80 dBuV/m



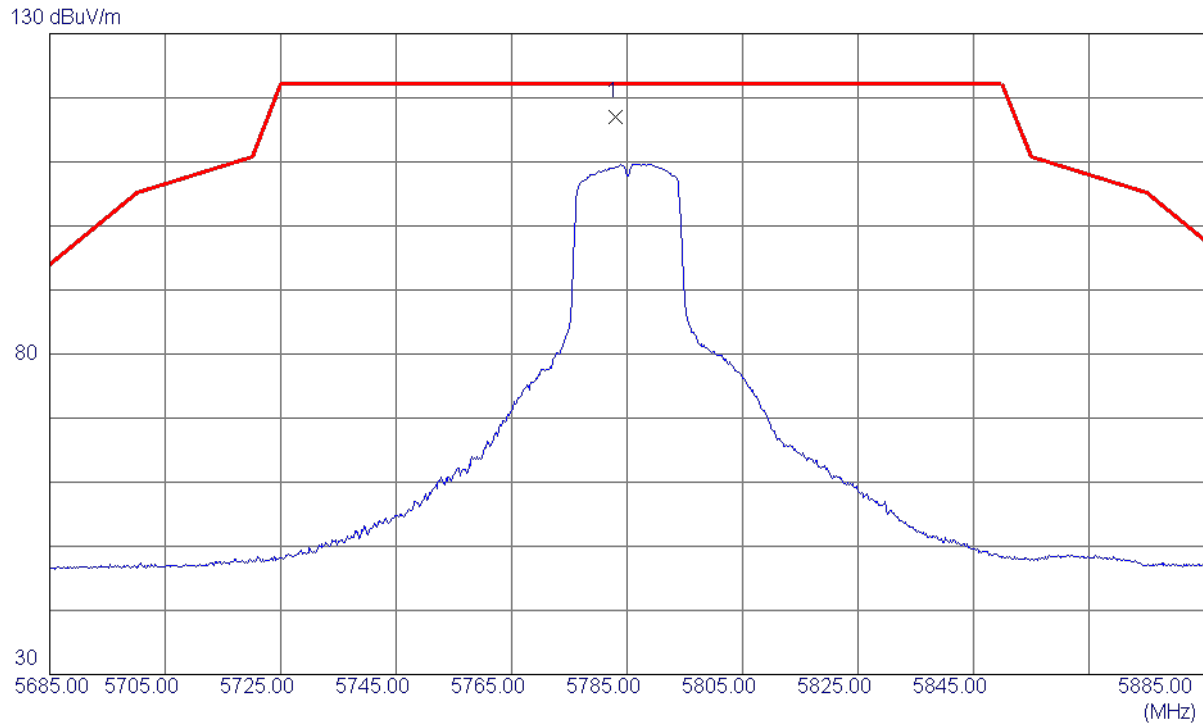
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11490.2000	41.94	14.55	56.49	74.00	-17.51	Peak	
2 *	11491.2100	32.74	14.55	47.29	54.00	-6.71	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5783.0000	99.22	17.83	117.05	122.20	-5.15	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical

80 dBuV/m



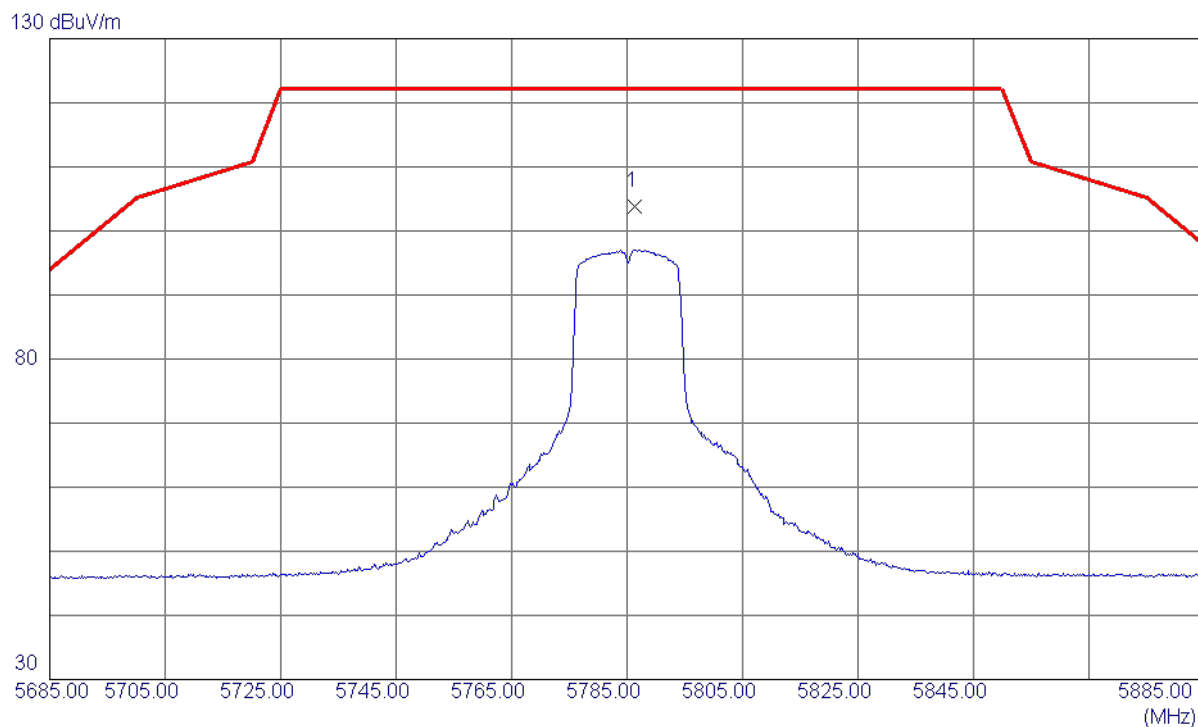
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.2000	36.48	14.57	51.05	54.00	-2.95	AVG	
2	11570.3000	46.12	14.57	60.69	74.00	-13.31	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.4000	86.00	17.84	103.84	122.20	-18.36	Peak	No Limit

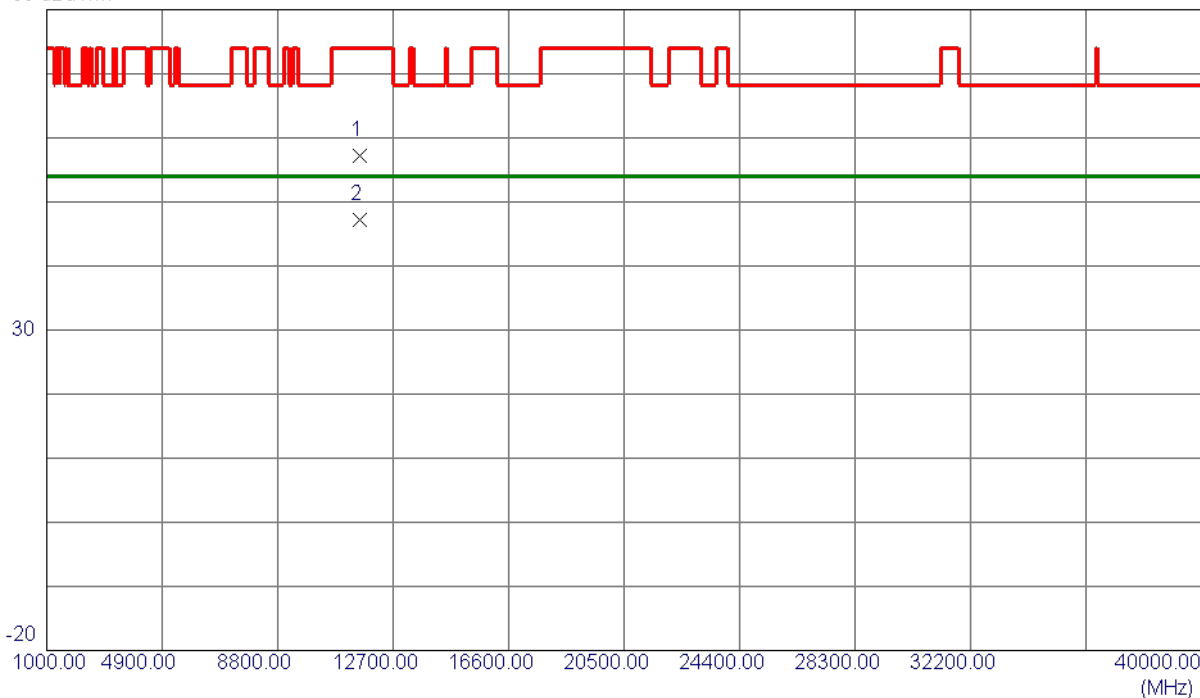
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal

80 dBuV/m



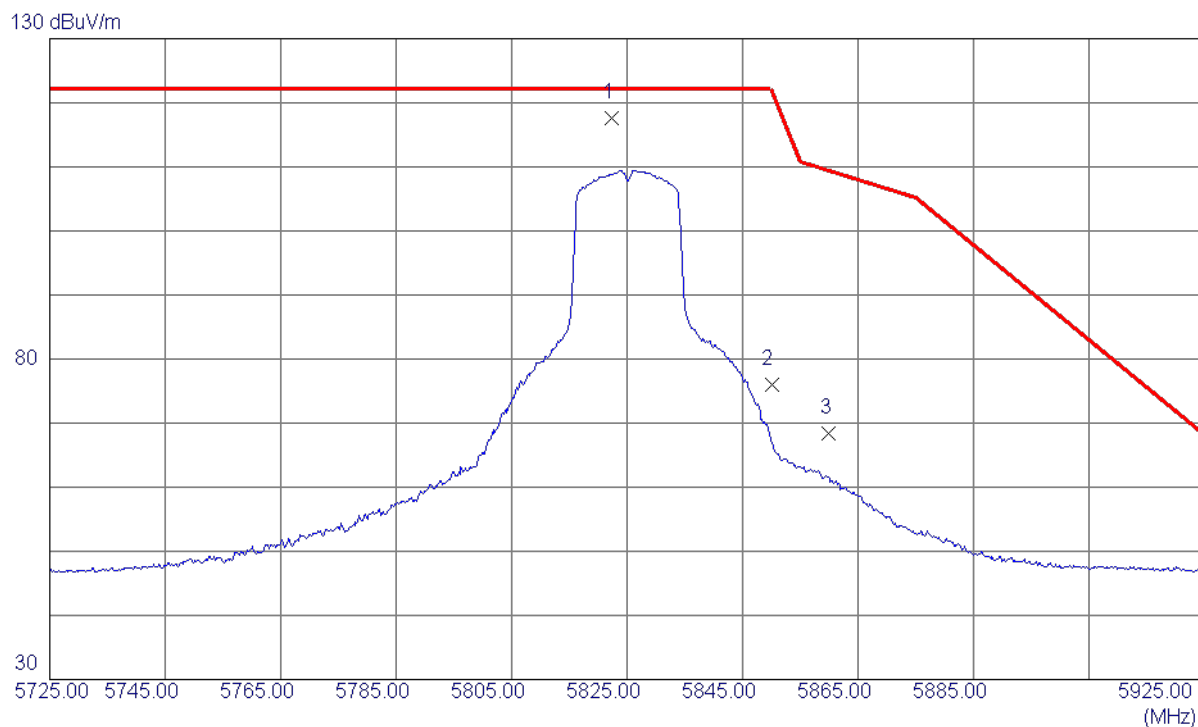
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.0000	42.61	14.57	57.18	74.00	-16.82	Peak	
2 *	11570.0000	32.58	14.57	47.15	54.00	-6.85	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5822.4000	99.70	17.94	117.64	122.20	-4.56	Peak	No Limit
2	5850.0000	58.06	18.02	76.08	122.20	-46.12	Peak	
3	5860.0000	50.27	18.05	68.32	109.40	-41.08	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical

80 dBuV/m



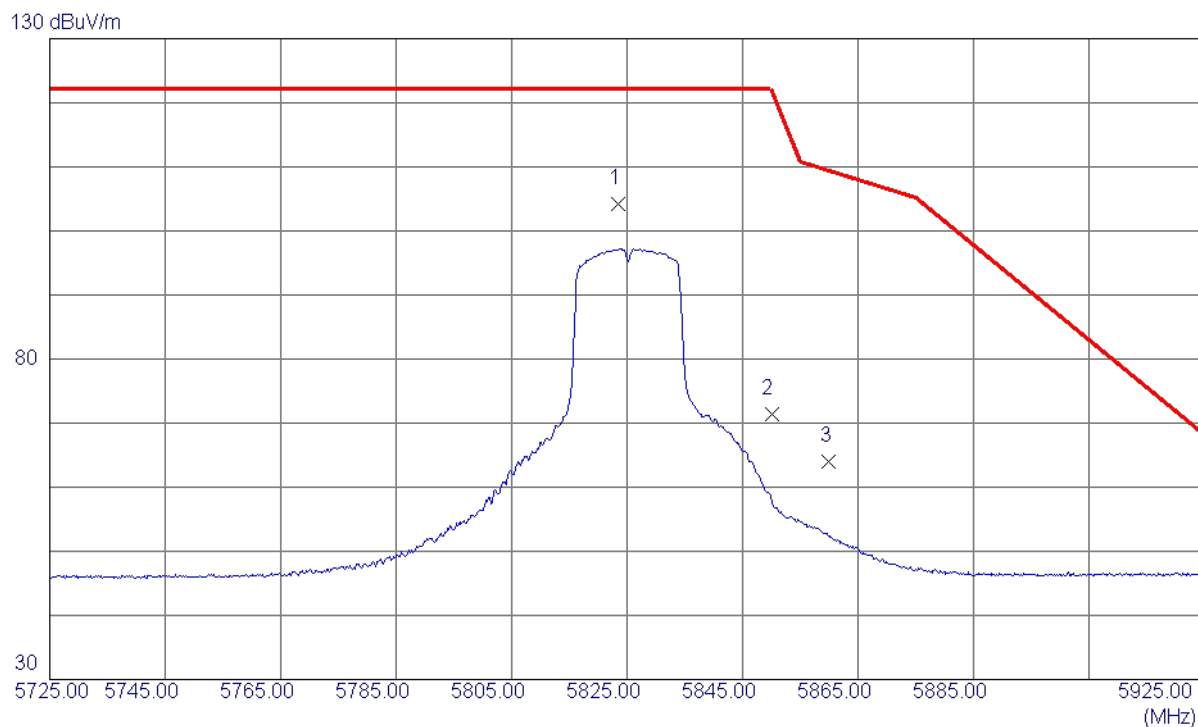
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11650.3000	46.53	14.57	61.10	74.00	-12.90	Peak	
2 *	11650.4000	36.69	14.57	51.26	54.00	-2.74	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.4000	86.30	17.95	104.25	122.20	-17.95	Peak	No Limit
2	5850.0000	53.36	18.02	71.38	122.20	-50.82	Peak	
3	5860.0000	45.88	18.05	63.93	109.40	-45.47	Peak	

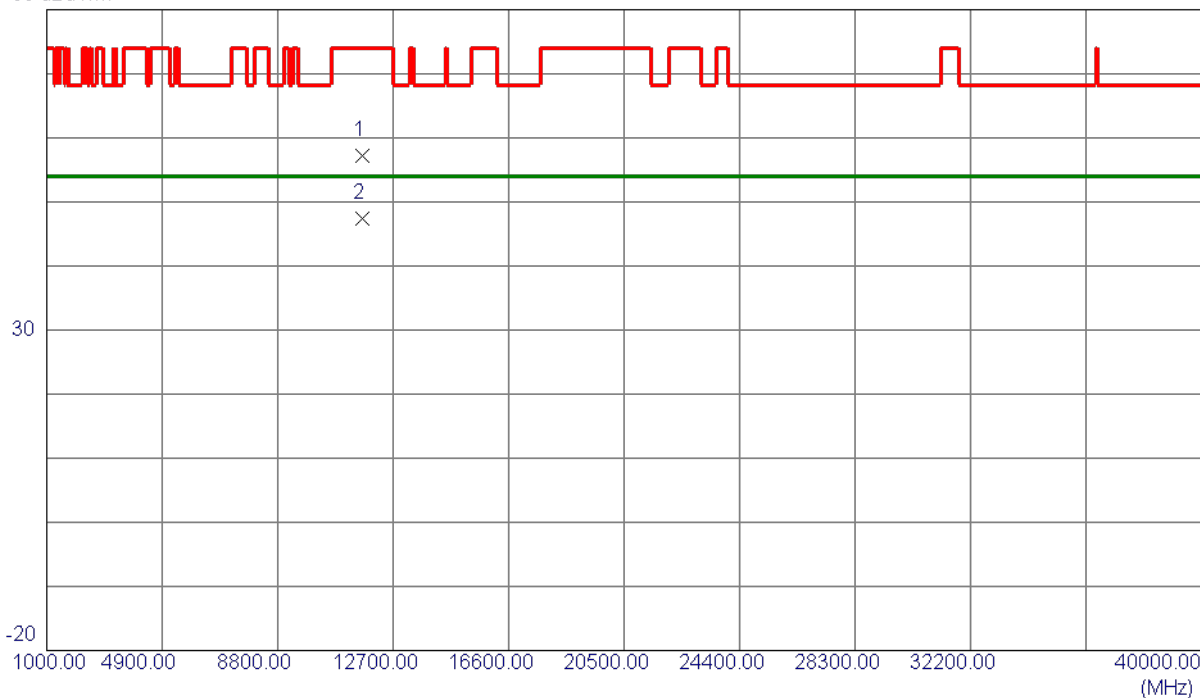
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal

80 dBuV/m



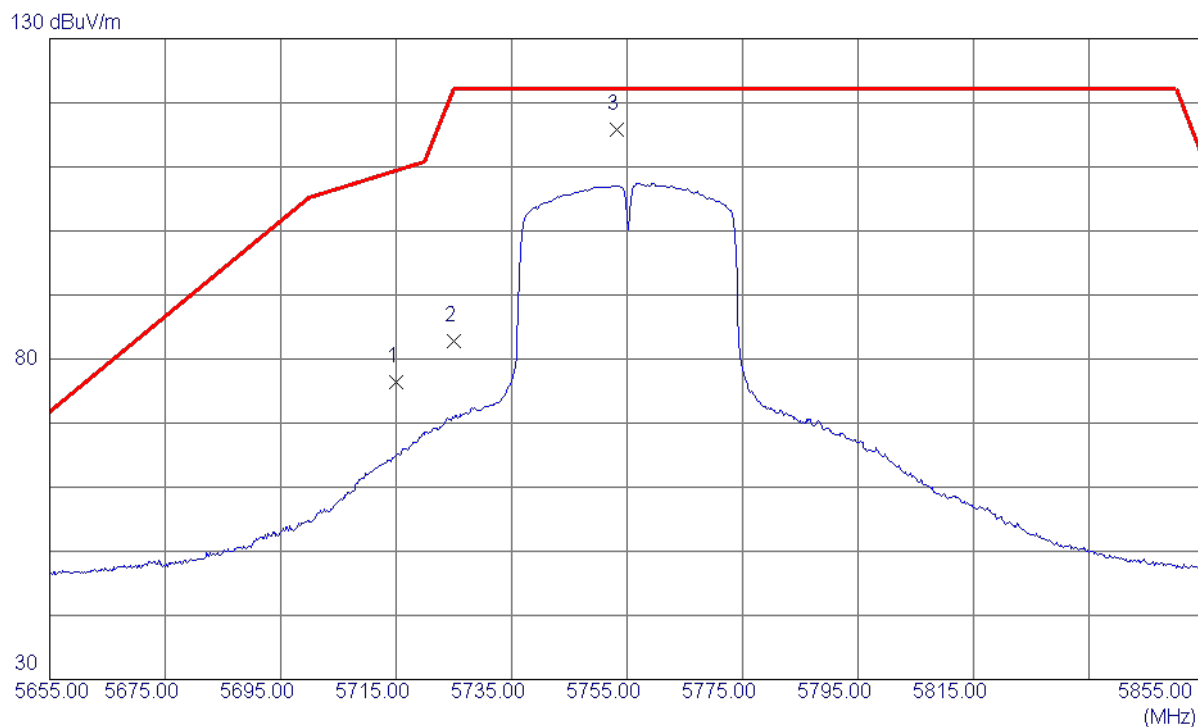
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11650.0000	42.58	14.57	57.15	74.00	-16.85	Peak	
2 *	11650.0000	32.74	14.57	47.31	54.00	-6.69	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	58.69	17.62	76.31	109.40	-33.09	Peak	
2	5725.0000	65.16	17.65	82.81	122.20	-39.39	Peak	
3 *	5753.2000	98.05	17.74	115.79	122.20	-6.41	Peak	No Limit

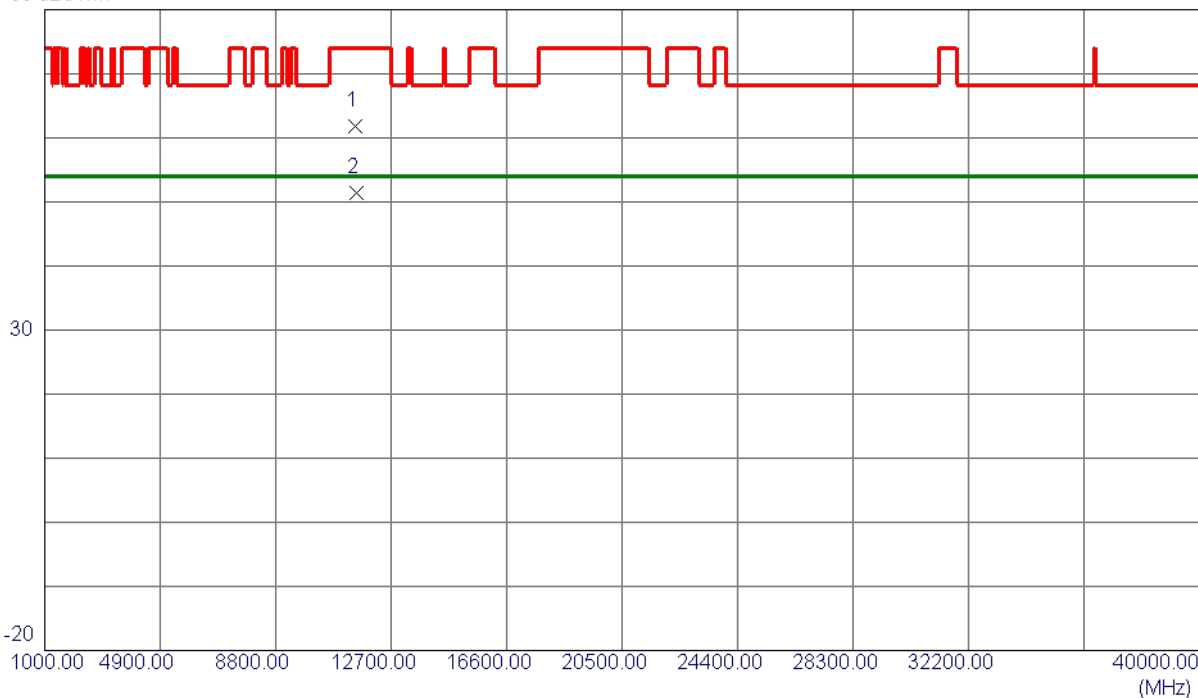
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical

80 dBuV/m



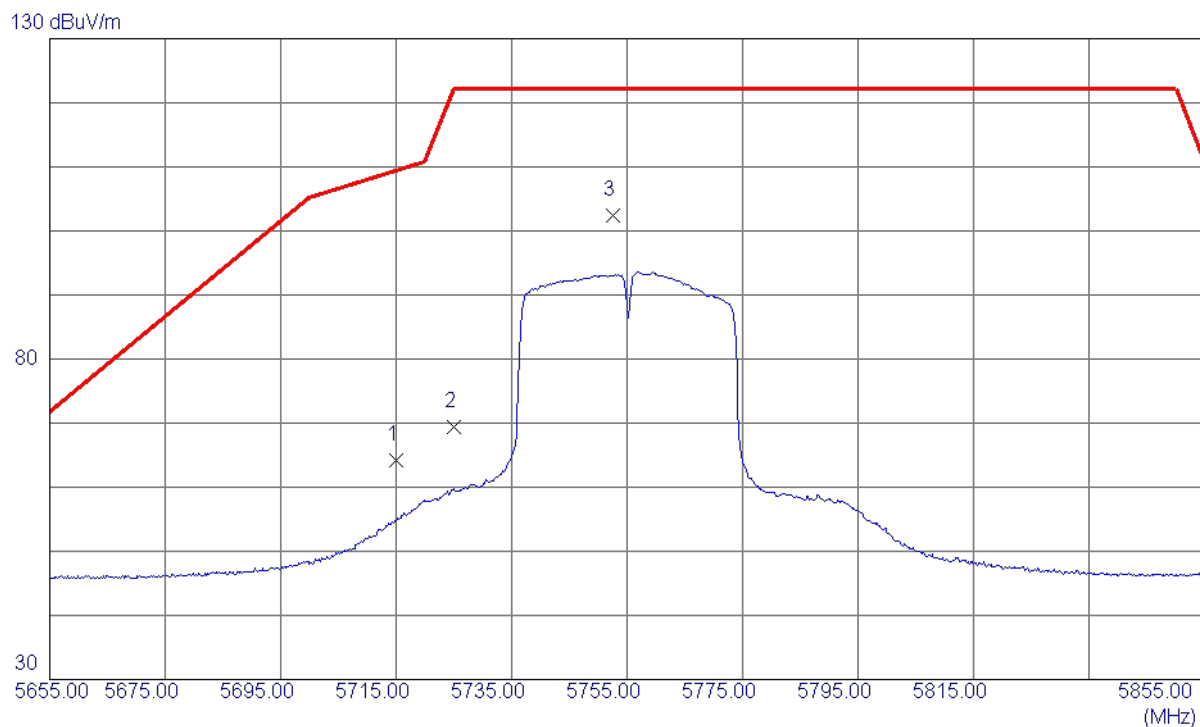
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11506.6200	47.19	14.57	61.76	74.00	-12.24	Peak	
2 *	11510.0000	36.75	14.57	51.32	54.00	-2.68	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal



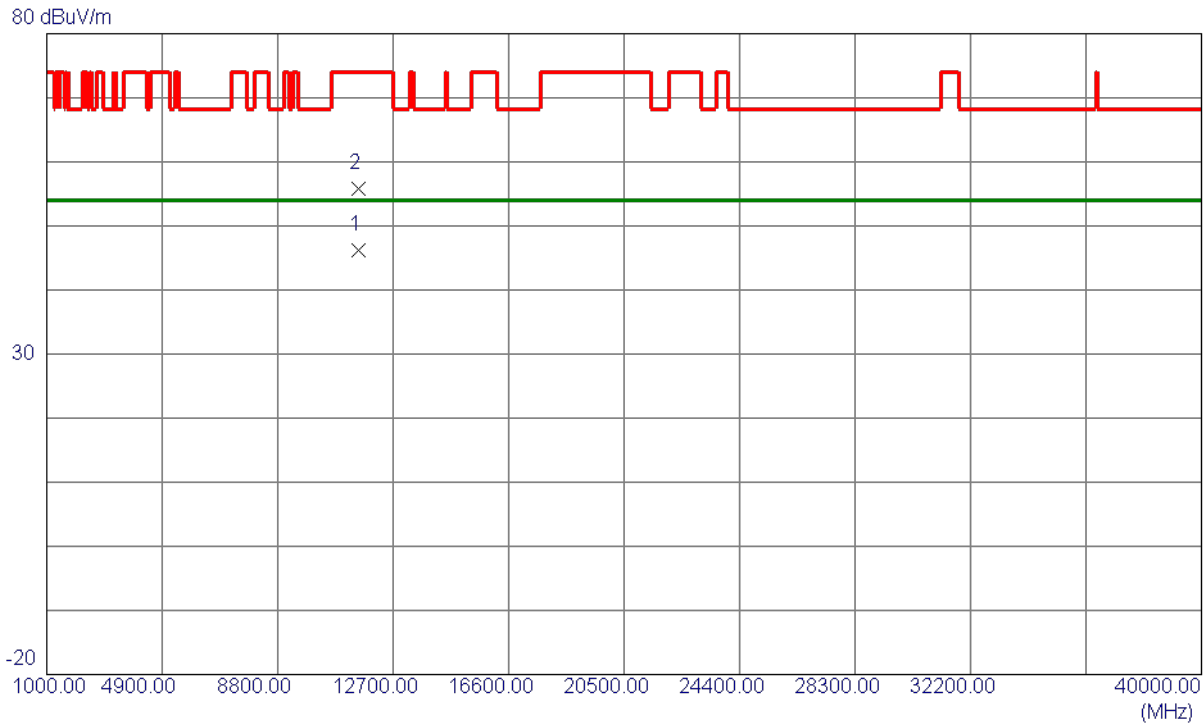
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	46.59	17.62	64.21	109.40	-45.19	Peak	
2	5725.0000	51.78	17.65	69.43	122.20	-52.77	Peak	
3 *	5752.6000	84.66	17.74	102.40	122.20	-19.80	Peak	No Limit

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal



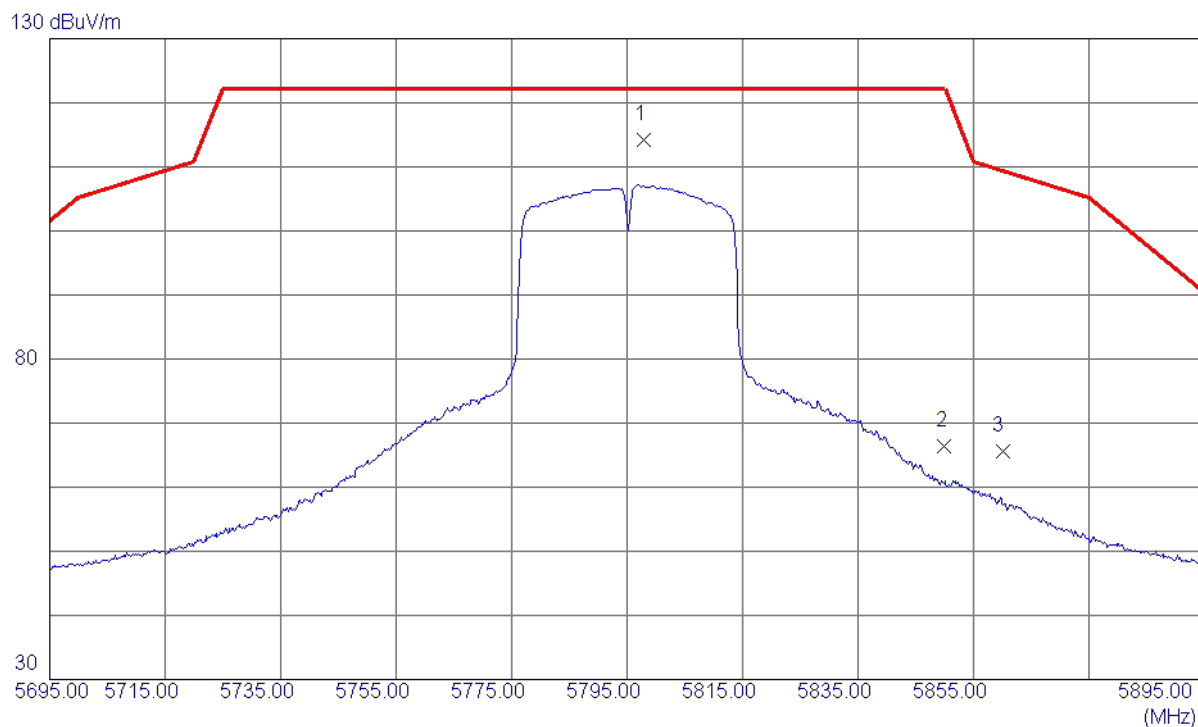
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11510.1000	31.58	14.57	46.15	54.00	-7.85	AVG	
2	11510.1200	41.25	14.57	55.82	74.00	-18.18	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5797.8000	96.38	17.87	114.25	122.20	-7.95	Peak	No Limit
2	5850.0000	48.39	18.02	66.41	122.20	-55.79	Peak	
3	5860.0000	47.58	18.05	65.63	109.40	-43.77	Peak	

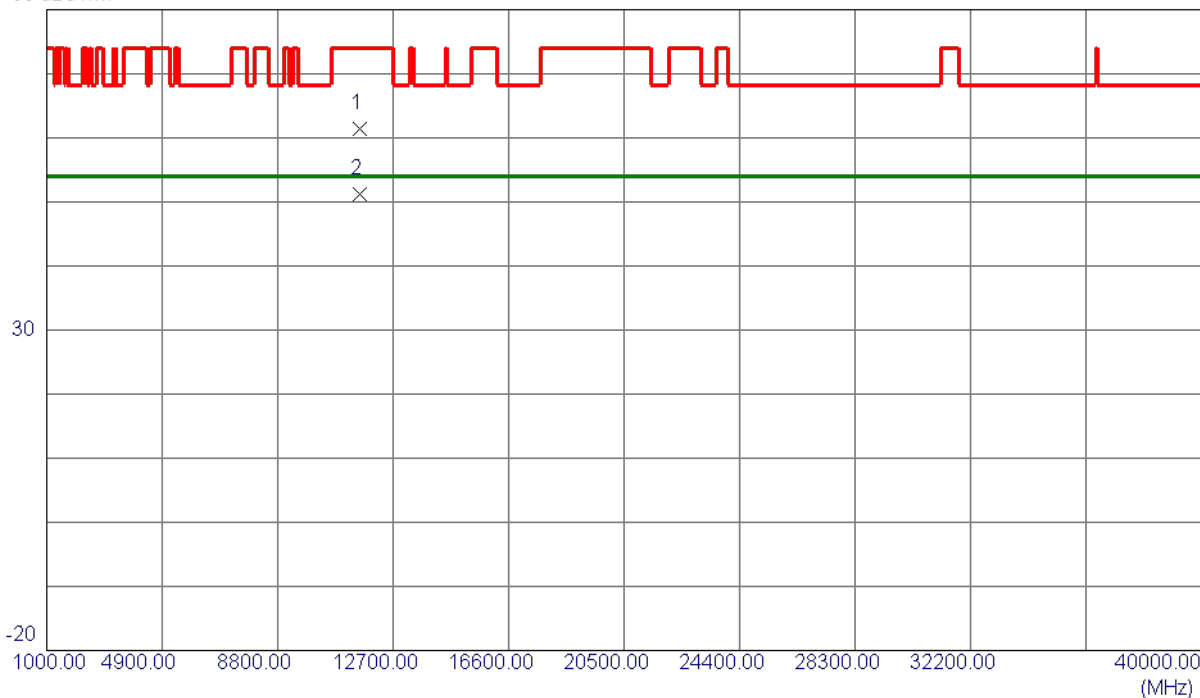
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical

80 dBuV/m



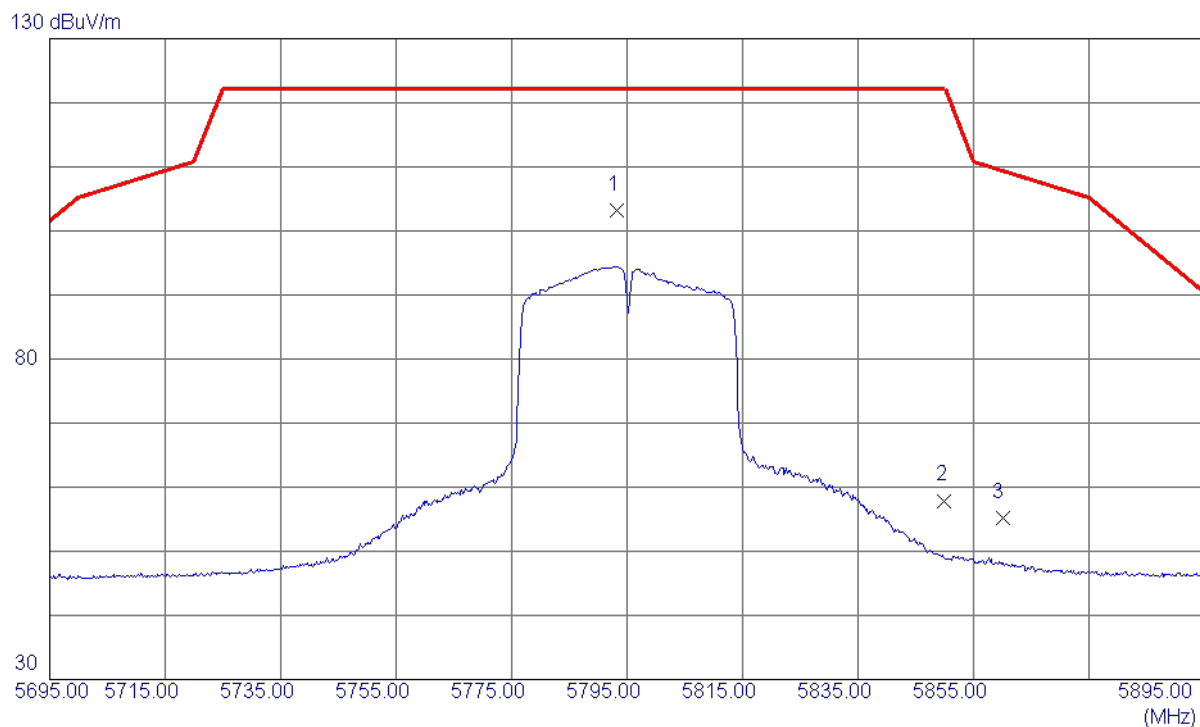
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11586.3200	46.87	14.57	61.44	74.00	-12.56	Peak	
2 *	11590.1800	36.54	14.57	51.11	54.00	-2.89	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5793.2000	85.40	17.86	103.26	122.20	-18.94	Peak	No Limit
2	5850.0000	39.88	18.02	57.90	122.20	-64.30	Peak	
3	5860.0000	37.06	18.05	55.11	109.40	-54.29	Peak	

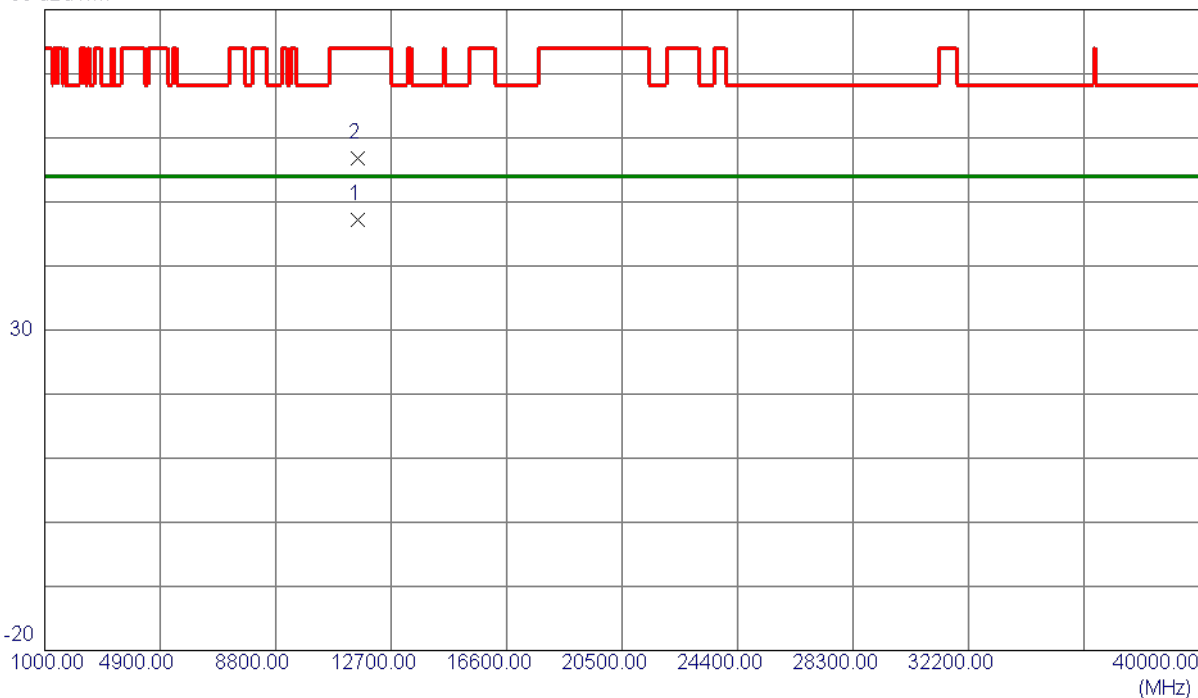
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal

80 dBuV/m



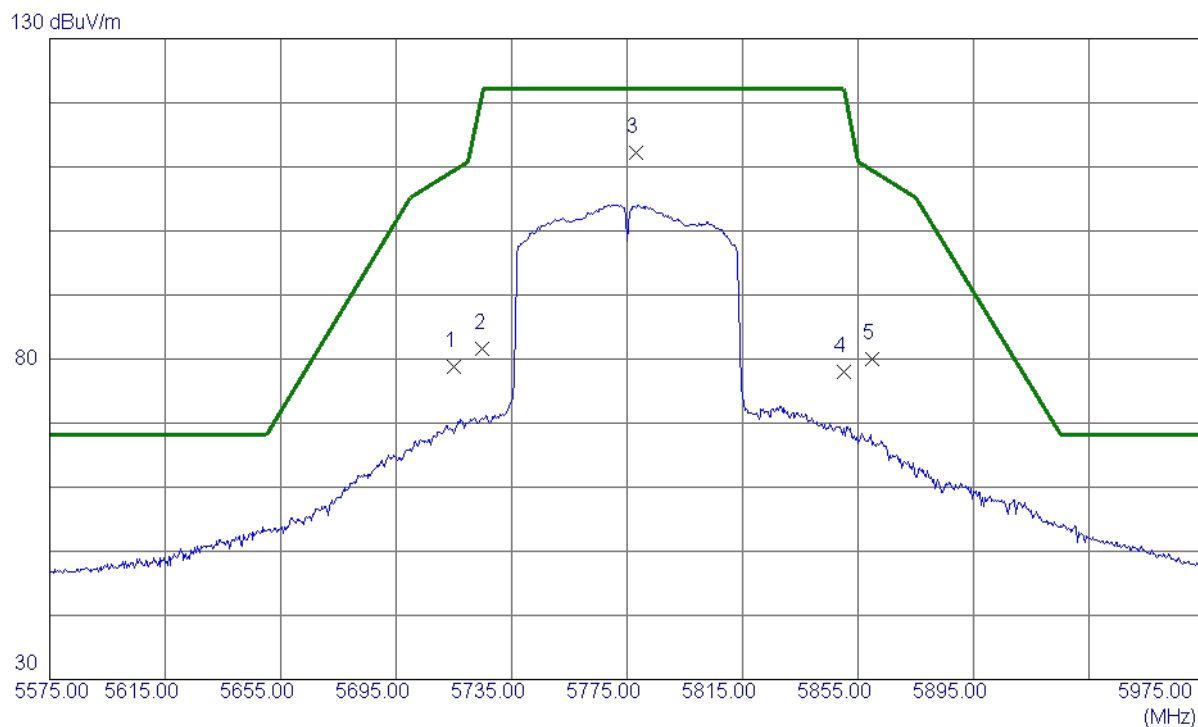
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11590.0599	32.54	14.57	47.11	54.00	-6.89	AVG	
2	11590.1000	42.25	14.57	56.82	74.00	-17.18	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	61.23	17.62	78.85	109.40	-30.55	Peak	
2	5725.0000	63.91	17.65	81.56	122.20	-40.64	Peak	
3 *	5778.2000	94.44	17.81	112.25	122.20	-9.95	Peak	No Limit
4	5850.0000	60.05	18.02	78.07	122.20	-44.13	Peak	
5	5860.0000	61.95	18.05	80.00	109.40	-29.40	Peak	

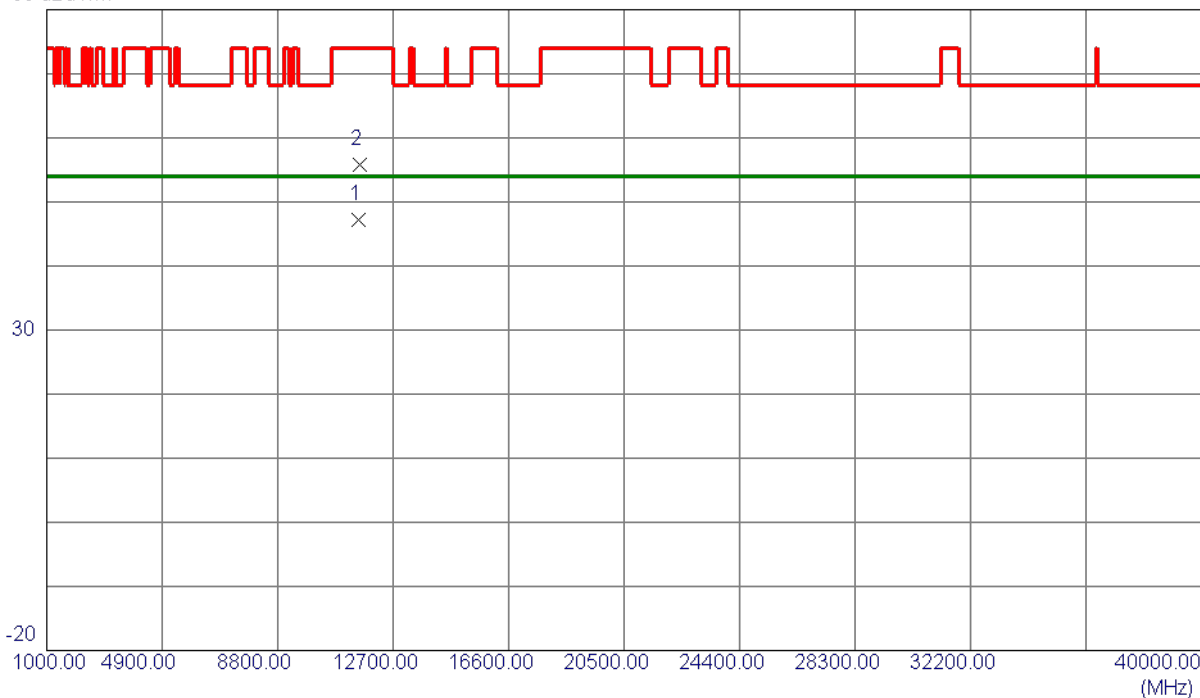
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical

80 dBuV/m



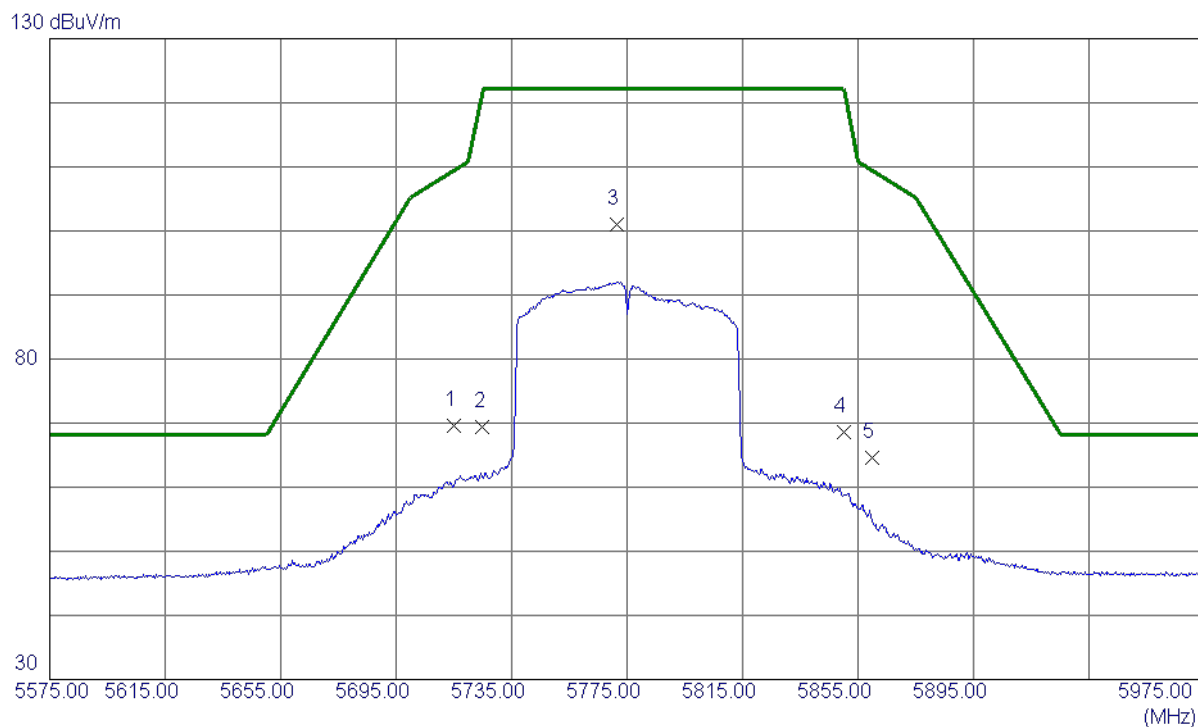
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11550.2400	32.71	14.57	47.28	54.00	-6.72	AVG	
2	11556.9200	41.17	14.57	55.74	74.00	-18.26	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	51.93	17.62	69.55	109.40	-39.85	Peak	
2	5725.0000	51.79	17.65	69.44	122.20	-52.76	Peak	
3 *	5771.4000	83.21	17.79	101.00	122.20	-21.20	Peak	No Limit
4	5850.0000	50.59	18.02	68.61	122.20	-53.59	Peak	
5	5860.0000	46.55	18.05	64.60	109.40	-44.80	Peak	

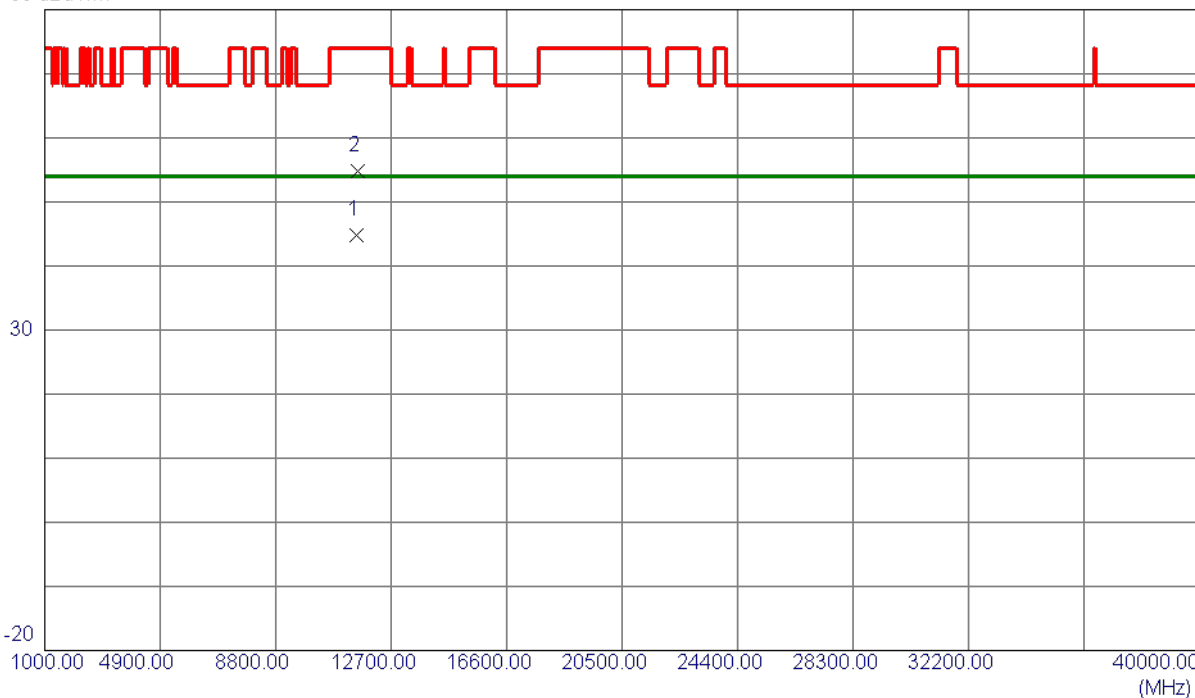
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

80 dBuV/m



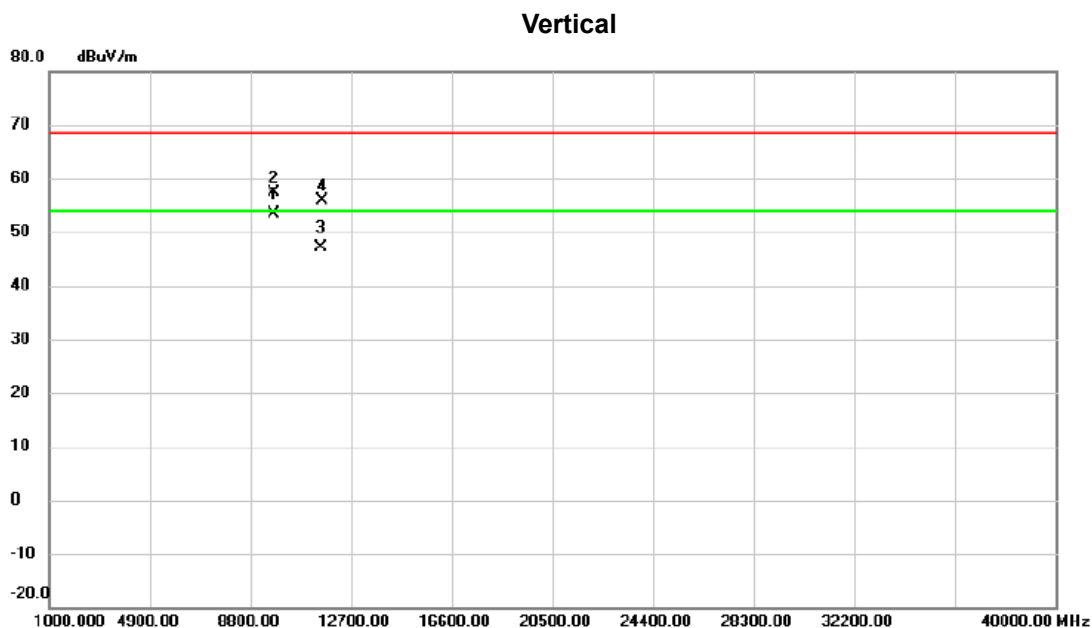
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11550.2000	30.25	14.57	44.82	54.00	-9.18	AVG	
2	11554.3800	40.21	14.57	54.78	74.00	-19.22	Peak	

REMARKS:

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

The worst case of simultaneous transmission:

Test Mode: TX WLAN 2.4G N40 Mode 2422MHz + WLAN 5G AC80 Mode 5775MHz

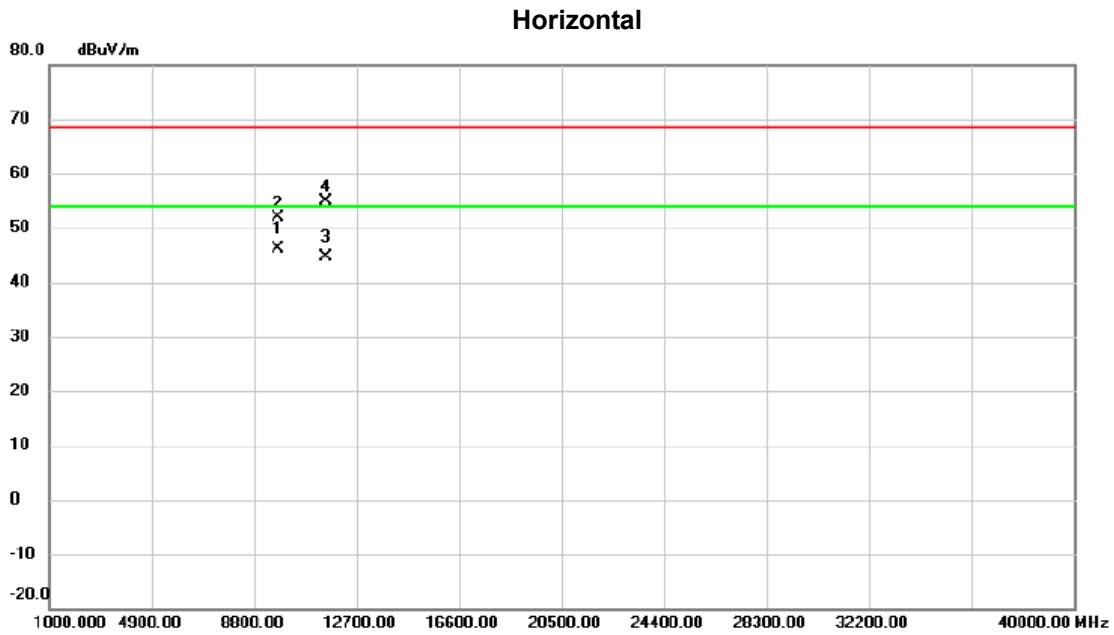


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	9687.960	40.37	12.91	53.28	54.00	-0.72	AVG	
2		9688.560	44.56	12.91	57.47	68.30	-10.83	peak	
3		11550.260	32.64	14.57	47.21	54.00	-6.79	AVG	
4		11556.930	41.22	14.57	55.79	68.30	-12.51	peak	

REMARKS:

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

Test Mode: TX WLAN 2.4G N40 Mode 2422MHz + WLAN 5G AC80 Mode 5775MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	9687.940	33.34	12.91	46.25	54.00	-7.75	AVG	
2		9688.420	38.94	12.91	51.85	68.30	-16.45	peak	
3		11550.250	30.11	14.57	44.68	54.00	-9.32	AVG	
4		11554.380	40.35	14.57	54.92	68.30	-13.38	peak	

REMARKS:

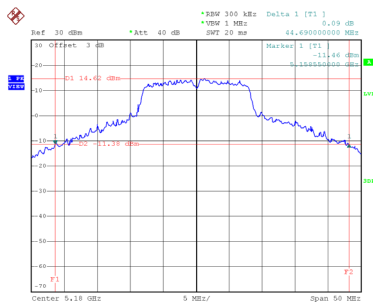
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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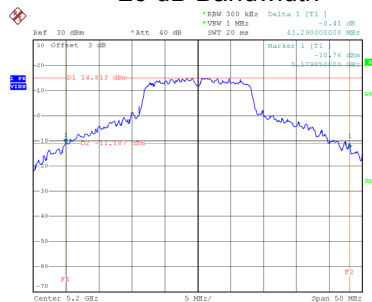
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	44.69	28.50
40	5200	43.29	27.50
48	5240	31.09	17.40

CH36



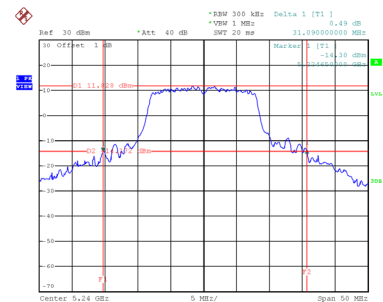
Date: 9.JUL.2020 20:26:47

CH40
26 dB Bandwidth



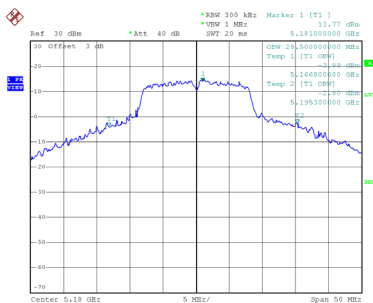
Date: 9.JUL.2020 20:28:40

CH48

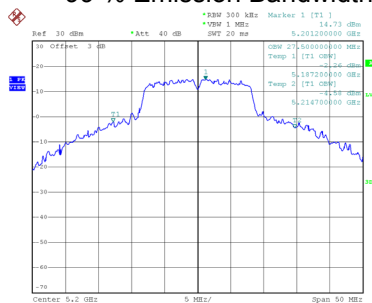


Date: 14.JUL.2020 19:21:47

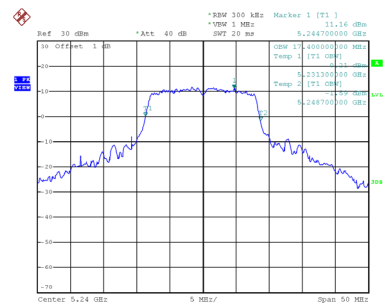
99 % Emission Bandwidth



Date: 9.JUL.2020 20:26:26



Date: 9.JUL.2020 20:28:22

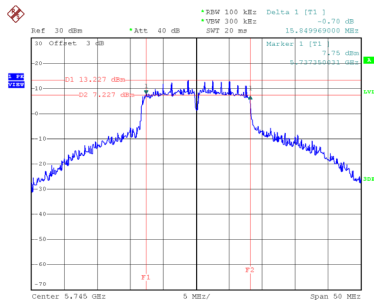


Date: 14.JUL.2020 19:21:29

Test Mode	UNII-3_TX A Mode
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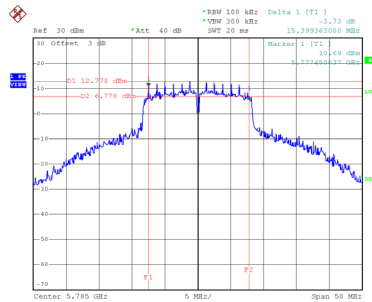
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	15.85	24.40	500	Complies
157	5785	15.40	24.50	500	Complies
165	5825	15.75	24.60	500	Complies

CH149



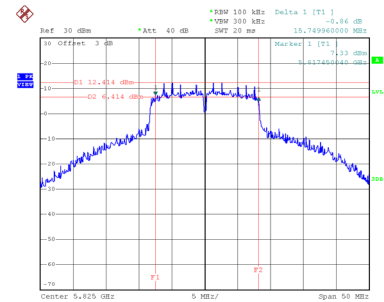
Date: 9.JUL.2020 20:31:34

CH157
6 dB Bandwidth



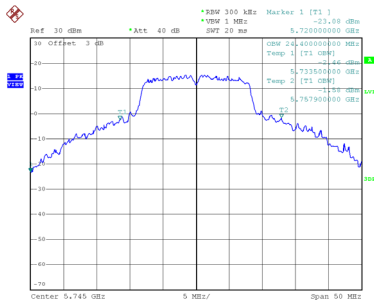
Date: 9.JUL.2020 20:33:09

CH165

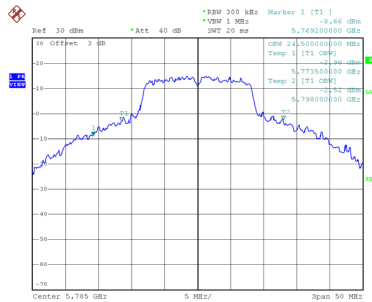


Date: 9.JUL.2020 20:36:52

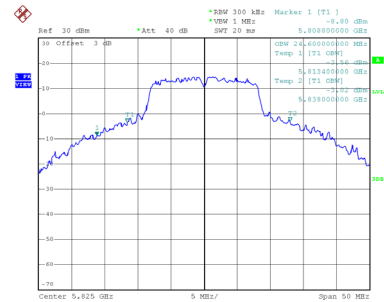
99 % Emission Bandwidth



Date: 9.JUL.2020 20:31:35



Date: 9.JUL.2020 20:32:09

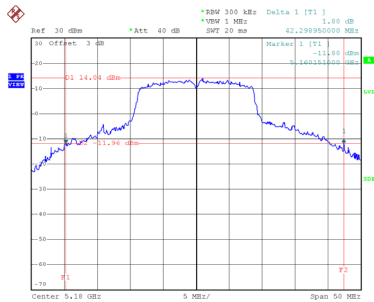


Date: 9.JUL.2020 20:35:53

Test Mode	UNII-1_TX AC (VHT20) Mode
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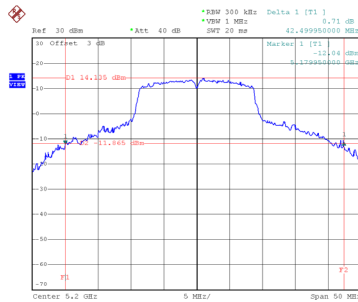
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	42.30	24.50
40	5200	42.50	25.20
48	5240	23.10	18.00

CH36



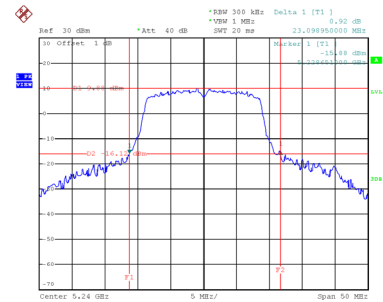
Date: 11.JUL.2020 14:27:06

CH40
26 dB Bandwidth



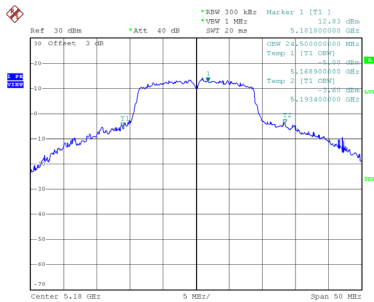
Date: 11.JUL.2020 14:29:02

CH48

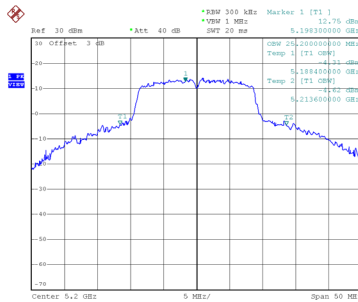


Date: 14.JUL.2020 19:23:17

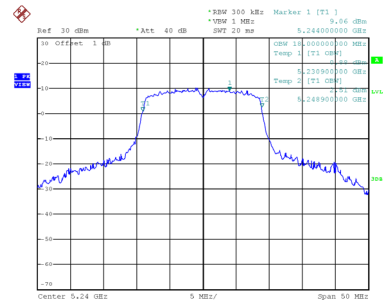
99 % Emission Bandwidth



Date: 11.JUL.2020 14:26:49



Date: 11.JUL.2020 14:28:40

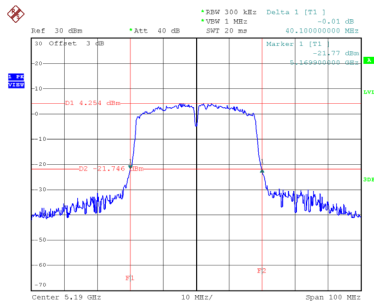


Date: 14.JUL.2020 19:22:54

Test Mode	UNII-1_TX AC (VHT40) Mode
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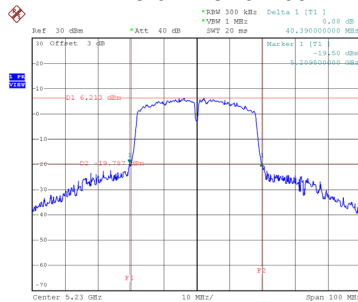
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	40.10	36.20
46	5230	40.39	36.40

CH38



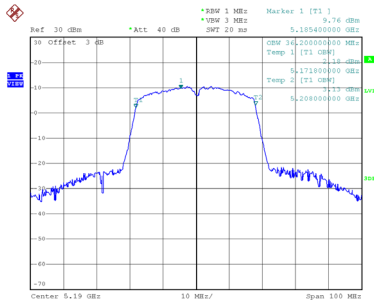
Date: 11.JUL.2020 15:19:51

CH46
26 dB Bandwidth

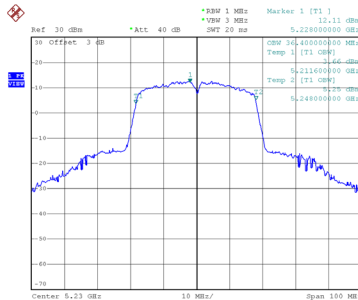


Date: 11.JUL.2020 15:22:08

99 % Emission Bandwidth



Date: 11.JUL.2020 15:19:08

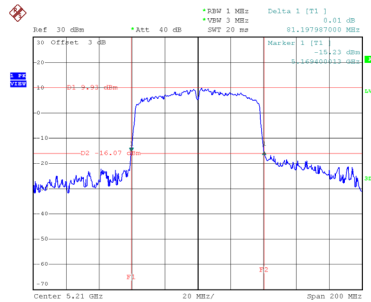


Date: 11.JUL.2020 15:21:22

Test Mode	UNII-1_TX AC (VHT80) Mode
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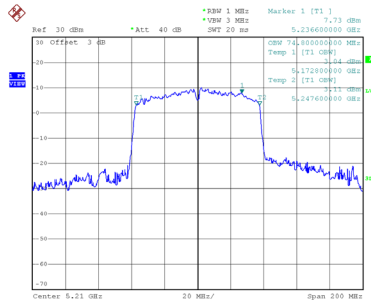
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	81.20	74.80

CH42 26 dB Bandwidth



Date: 11.JUL.2020 15:40:50

99 % Emission Bandwidth

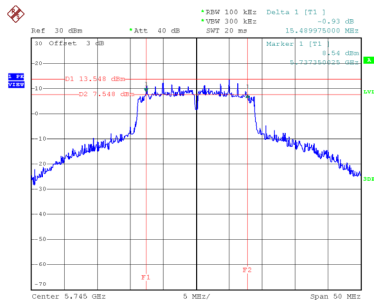


Date: 11.JUL.2020 15:39:52

Test Mode	UNII-3_TX AC (VHT20) Mode
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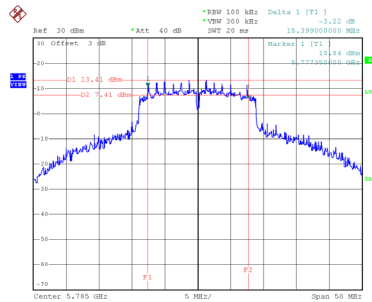
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	15.49	23.80	500	Complies
157	5785	15.40	25.90	500	Complies
165	5825	15.50	27.50	500	Complies

CH149



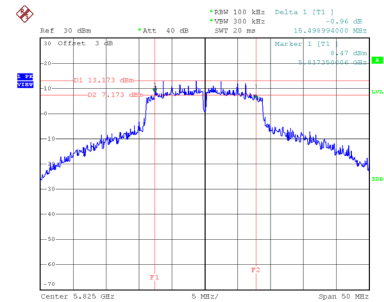
Date: 11.JUL.2020 14:37:39

CH157
6 dB Bandwidth



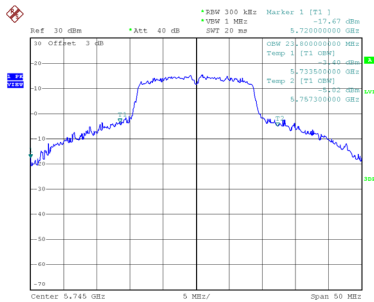
Date: 11.JUL.2020 14:39:18

CH165

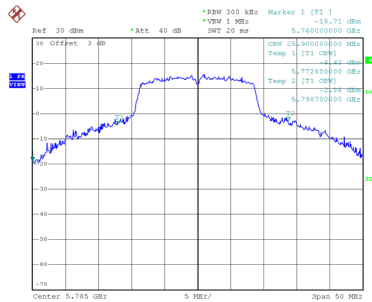


Date: 11.JUL.2020 14:40:58

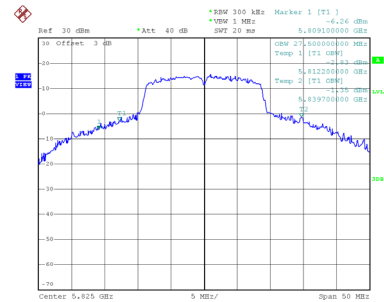
99 % Emission Bandwidth



Date: 11.JUL.2020 14:36:39



Date: 11.JUL.2020 14:38:21

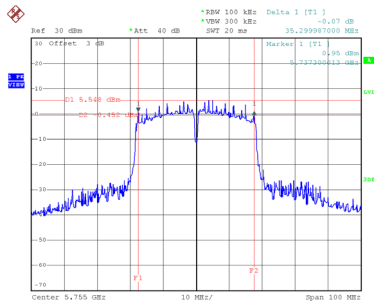


Date: 11.JUL.2020 14:40:01

Test Mode	UNII-3_TX AC (VHT40) Mode
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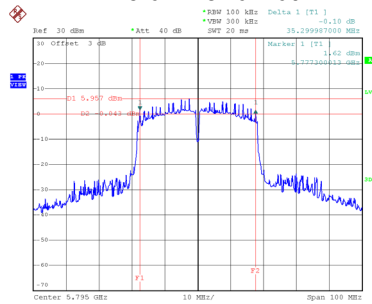
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	35.30	36.40	500	Complies
159	5795	35.30	36.80	500	Complies

CH151

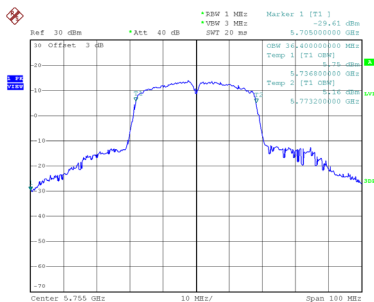


Date: 11.JUL.2020 15:23:41

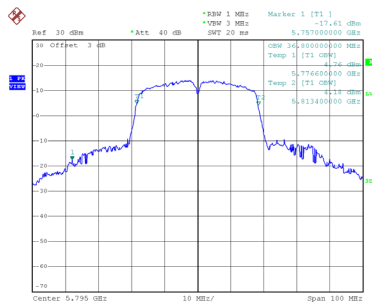
CH159
6 dB Bandwidth



Date: 11.JUL.2020 15:25:09



Date: 11.JUL.2020 15:22:53



Date: 11.JUL.2020 15:24:21