



FCC Radio Test Report

FCC ID: 2BH7FBBRG5UR

This report concerns: Original Grant

Project No. : 2505G011
Equipment : 5GHz Ultra-Range Wireless Bridge
Brand Name : tp-link
Model Name : Beam Bridge 5 UR
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : May 17, 2025
Date of Test : May 19, 2025 ~ Jul. 08, 2025
Issued Date : Jul. 30, 2025
Test Sample : Engineering Sample No.: DG2025051720 for radiated, DG2025051719 for other.
Standard(s) : FCC CFR Title 47, Part 15, Subpart E

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

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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 assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 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.

Table of Contents	Page
REVISION HISTORY	5
1 . APPLICABLE STANDARDS	6
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
2.3 TEST ENVIRONMENT CONDITIONS	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 TEST MODES	11
3.3 PARAMETERS OF TEST SOFTWARE	13
3.4 DUTY CYCLE	14
3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	15
3.6 SUPPORT UNITS	15
3.7 CUSTOMER INFORMATION DESCRIPTION	15
4 . AC POWER LINE CONDUCTED EMISSIONS	16
4.1 LIMIT	16
4.2 TEST PROCEDURE	16
4.3 DEVIATION FROM TEST STANDARD	16
4.4 TEST SETUP	17
4.5 EUT OPERATION CONDITIONS	17
4.6 TEST RESULTS	17
5 . RADIATED EMISSIONS	18
5.1 LIMIT	18
5.2 TEST PROCEDURE	19
5.3 DEVIATION FROM TEST STANDARD	20
5.4 TEST SETUP	20
5.5 EUT OPERATION CONDITIONS	22
5.6 TEST RESULTS - 9 KHZ TO 30 MHZ	22
5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ	22
5.8 TEST RESULTS - ABOVE 1000 MHZ	22
6 . BANDWIDTH	23
6.1 LIMIT	23

Table of Contents	Page
6.2 TEST PROCEDURE	23
6.3 DEVIATION FROM STANDARD	23
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
7 . MAXIMUM OUTPUT POWER	25
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	25
7.4 TEST SETUP	25
7.5 EUT OPERATION CONDITIONS	25
7.6 TEST RESULTS	25
8 . POWER SPECTRAL DENSITY	26
8.1 LIMIT	26
8.2 TEST PROCEDURE	26
8.3 DEVIATION FROM STANDARD	26
8.4 TEST SETUP	27
8.5 EUT OPERATION CONDITIONS	27
8.6 TEST RESULTS	27
9 . MEASUREMENT INSTRUMENTS LIST	28
10 . EUT TEST PHOTOS	30
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS	36
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ	39
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ	44
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ	47
APPENDIX E - BANDWIDTH	82
APPENDIX F - MAXIMUM OUTPUT POWER	91
APPENDIX G - POWER SPECTRAL DENSITY	100

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2505G011	R00	Original Report.	Jul. 30, 2025	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

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

2.1 TEST FACILITY

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

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 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	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36
		26.5 ~ 40 GHz	3.58

C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	24°C	54%	PoE 48V	Hayden Chen	Jun. 10, 2025
Radiated Emissions -9kHz to 30MHz	23°C	52%	PoE 48V	Hayden Chen	May 29, 2025
Radiated Emissions -30MHz to 1000MHz	23°C	52%	PoE 48V	Jensen Zhou	May 23, 2025
Radiated Emissions -Above 1000 MHz	23°C	52%	PoE 48V	Jensen Zhou	May 30, 2025
	23°C	42%	PoE 48V	Drew Tan	Jul. 01, 2025
Bandwidth	25°C	51%	PoE 48V	Newnar Wang	Jun. 04, 2025
Maximum Output Power	23-25°C	56-60%	PoE 48V	Alex Yin	May 29, 2025 - Jul. 03, 2025
Power Spectral Density	25°C	51%	PoE 48V	Newnar Wang	Jun. 04, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	5GHz Ultra-Range Wireless Bridge
Brand Name	tp-link
Test Model	Beam Bridge 5 UR
Model Name	Beam Bridge 5 UR
Model Difference(s)	N/A
Software Version	V1
Hardware Version	V1
Power Source	1# Supplied from 802.3af PoE. 2# Supplied from PoE Adapter. Model: POE2412G
Power Rating	802.3af PoE: 36-57V --- 0.36A Passive PoE: 24V --- 0.5A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps
Maximum Output Power UNII-1	IEEE 802.11a: 24.68 dBm (0.2940 W)
Maximum Output Power UNII-3	IEEE 802.11ac(VHT40): 28.71 dBm (0.7423 W)

Note:

- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or 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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	TP-Link Systems Inc.	N/A	Dipole	IPEX	15.97	UNII-1
2	TP-Link Systems Inc.	N/A	Dipole	IPEX	18.04	
1	TP-Link Systems Inc.	N/A	Dipole	IPEX	17.64	UNII-3
2	TP-Link Systems Inc.	N/A	Dipole	IPEX	18.96	

Note:

- 1) The device is Fixed point-to-point access points device and the antenna gain of UNII-1 and UNII-3 do not exceed 23dBi, so there is no need to fallback the limits for power and PSD.

4. Table for Antenna Configuration:

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

3.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 5	TX A Mode Channel 149/157/165 (UNII-3)
Mode 6	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 7	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 8	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 9	TX AC(VHT40) Mode Channel 151(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 9	TX AC(VHT40) Mode Channel 151(UNII-3)

Radiated Emissions Test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 9	TX AC(VHT40) Mode Channel 151(UNII-3)

Radiated Emissions Test - 1 GHz - 18 GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48(UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40/48(UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46(UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42(UNII-1)
Mode 5	TX A Mode Channel 149/157/165(UNII-3)
Mode 6	TX AC(VHT20) Mode Channel 149/157/165(UNII-3)
Mode 7	TX AC(VHT40) Mode Channel 151/159(UNII-3)
Mode 8	TX AC(VHT80) Mode Channel 155(UNII-3)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48(UNII-1)
Mode 2	TX AC(VHT20) Mode Channel 36/40/48(UNII-1)
Mode 3	TX AC(VHT40) Mode Channel 38/46(UNII-1)
Mode 4	TX AC(VHT80) Mode Channel 42(UNII-1)
Mode 5	TX A Mode Channel 149/157/165(UNII-3)
Mode 6	TX AC(VHT20) Mode Channel 149/157/165(UNII-3)
Mode 7	TX AC(VHT40) Mode Channel 151/159(UNII-3)
Mode 8	TX AC(VHT80) Mode Channel 155(UNII-3)

Note:

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT40) Mode Channel 151(UNII-3) is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) For radiated emission Harmonic 18-40GHz test, only tested the worst case and recorded.
- (4) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (5) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

3.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software Version	QDART-Connectivity100040		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	10	11	22
IEEE 802.11ac(VHT20)	11	12	21
Frequency (MHz)	5190	5230	
IEEE 802.11ac(VHT40)	9	14	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	5		

UNII-3			
Test Software Version	QDART-Connectivity100040		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	24	20	22
IEEE 802.11ac(VHT20)	24	25	25
Frequency (MHz)	5755	5795	
IEEE 802.11ac(VHT40)	25	25	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	16		

3.4 DUTY CYCLE

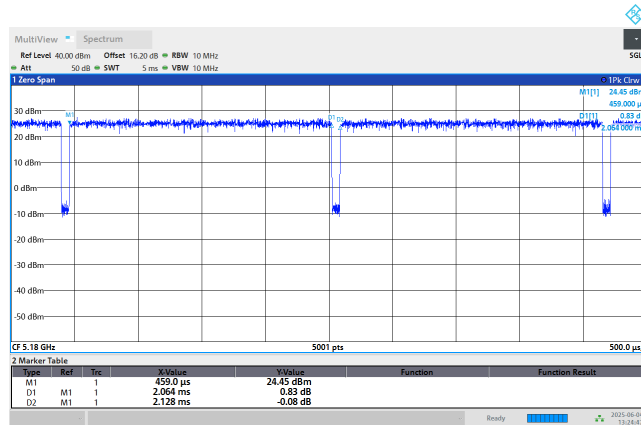
If duty cycle is $\geq 98\%$, duty factor is not required.

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.

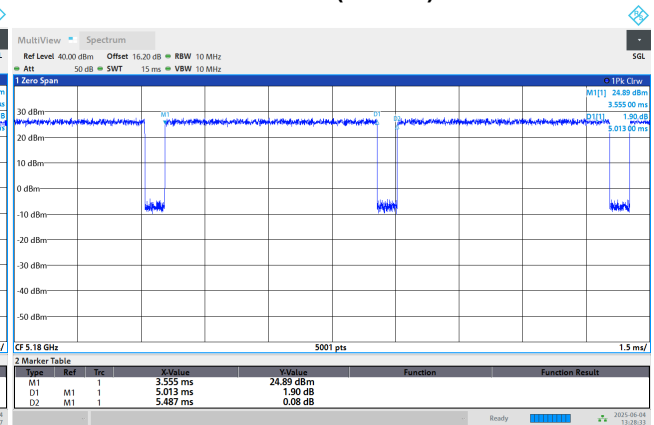
802.11a



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Duty cycle = $2.064 \text{ ms} / 2.128 \text{ ms} = 96.99\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.13 \text{ dB}$

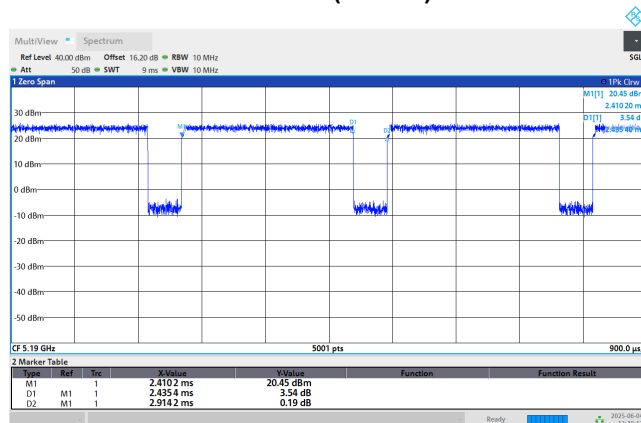
802.11ac(VHT20)



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Duty cycle = $5.013 \text{ ms} / 5.487 \text{ ms} = 91.36\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.39 \text{ dB}$

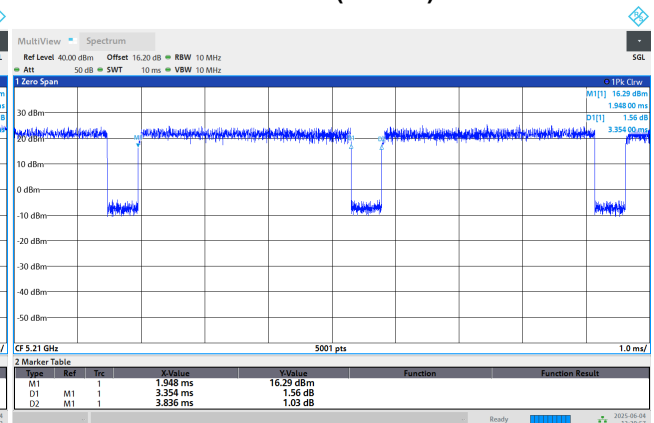
802.11ac(VHT40)



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Duty cycle = $2.435 \text{ ms} / 2.914 \text{ ms} = 83.56\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.78 \text{ dB}$

802.11ac(VHT80)



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Duty cycle = $3.354 \text{ ms} / 3.836 \text{ ms} = 87.43\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.58 \text{ dB}$

NOTE:

For IEEE 802.11a:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 484 Hz (Duty cycle $< 98\%$).

For IEEE 802.11ac(VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 199 Hz (Duty cycle $< 98\%$).

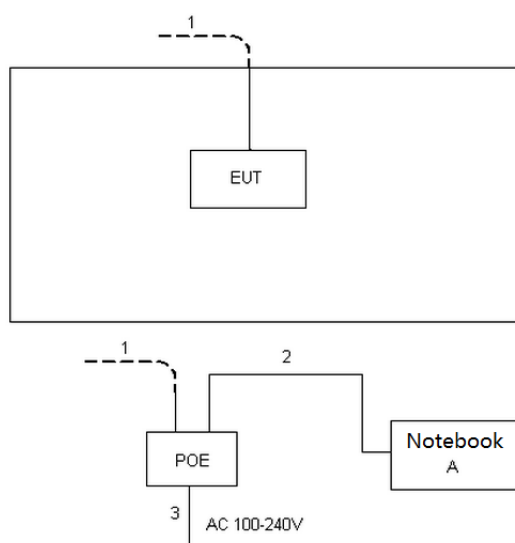
For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 411 Hz (Duty cycle $< 98\%$).

For IEEE 802.11ac(VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 298 Hz (Duty cycle $< 98\%$).

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 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
2	Network Cable	NO	NO	1m
3	AC Cable	NO	NO	1.5m

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

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

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value – Limit Value

4.2 TEST PROCEDURE

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

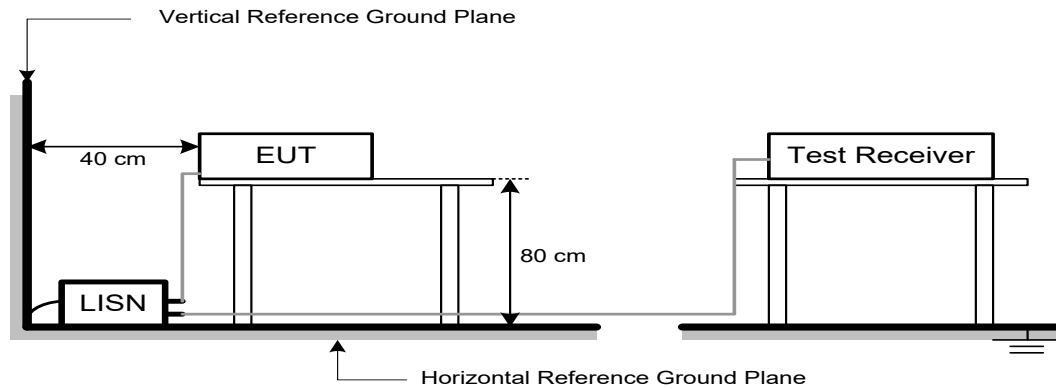
The following table is the setting of the receiver:

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

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 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.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS

5.1 LIMIT

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

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

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

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

Frequency (MHz)	EIRP Limit (dBm/MHz)	Band edge at 3m (dBμV/m)	Harmonic at 1m (dBμV/m)
5150-5250	-27	68.2	77.7 (Note 3)
5250-5350	-27	68.2	77.7 (Note 3)
5470-5725	-27	68.2	77.7 (Note 3)
5725-5850 NOTE (2)	-27	68.2	77.7 (Note 3)
	10	105.2	114.7 (Note 3)
	15.6	110.8	120.3 (Note 3)
	27	122.2	131.7 (Note 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)

$$FS_{\text{limit}} = FS_{\text{max}} - 20\log\left(\frac{d_{\text{limit}}}{d_{\text{measure}}}\right)$$

20log (d_{limit}/d_{measure})=20log (3/1)=9.5 dB.

FS_{limit}: Harmonic at 3m Peak and Average limit.

FS_{max}: Harmonic at 1m Peak and Average Maximum value.

d_{limit}: Harmonic at 3m test distance.

d_{measure}: Harmonic Actual test distance.

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

The following table is the setting of the receiver:

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

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

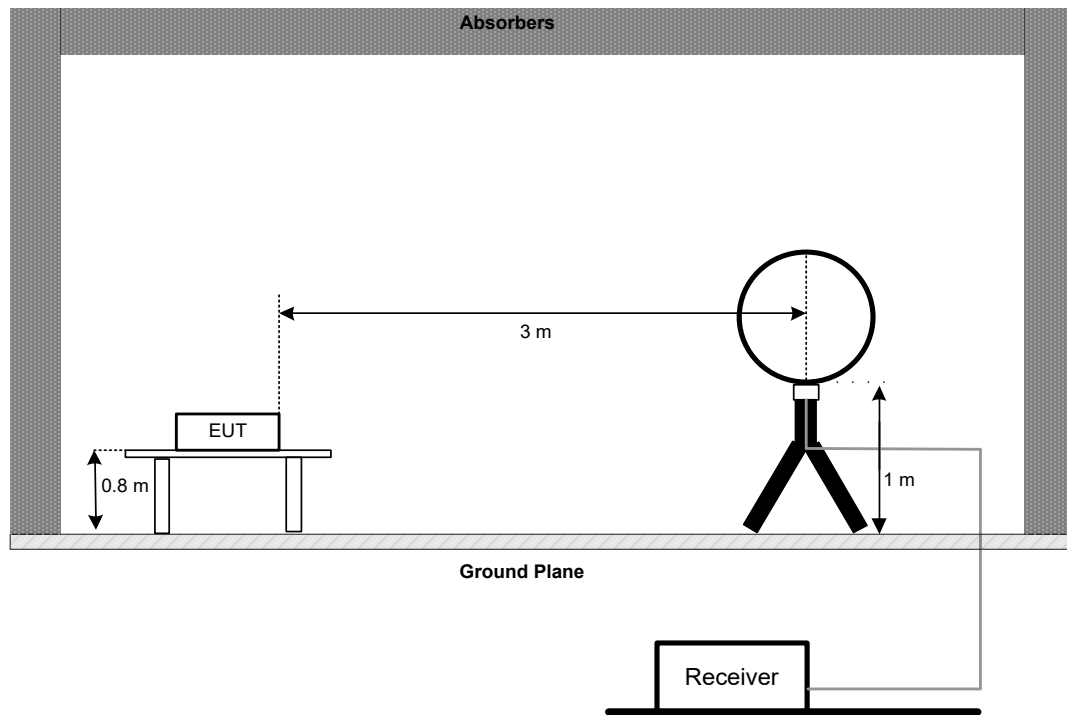
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

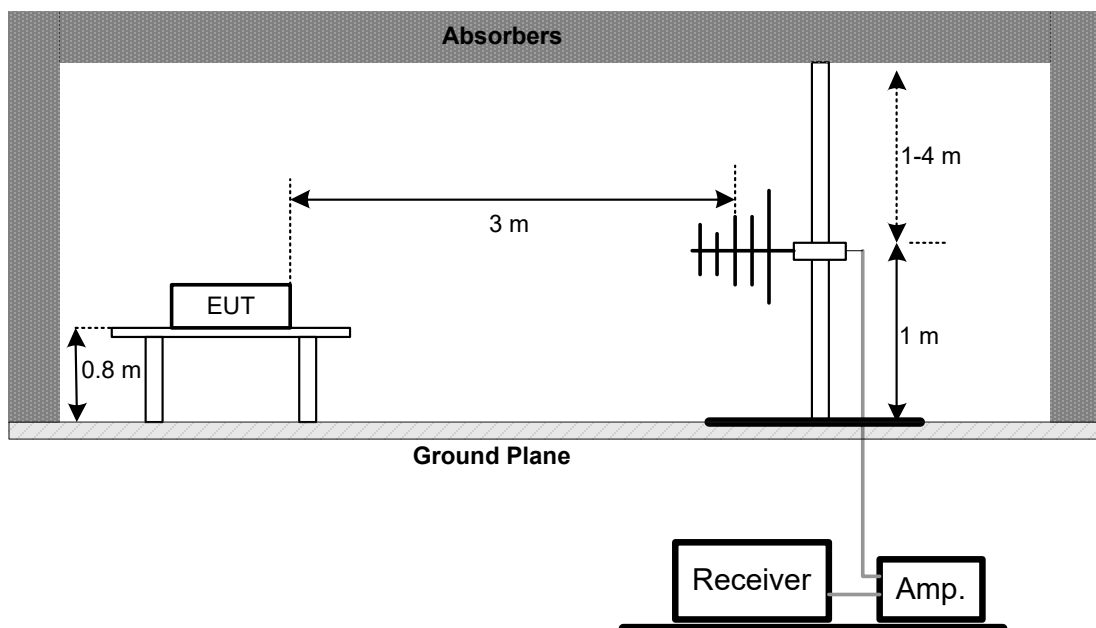
No deviation.

5.4 TEST SETUP

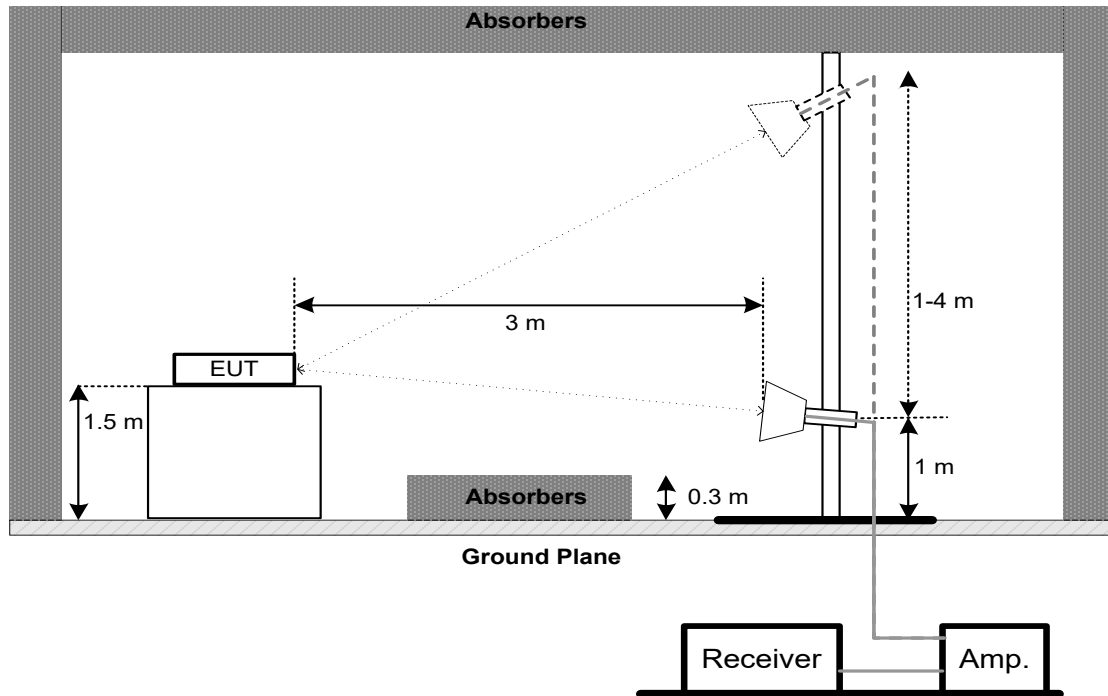
9 kHz to 30 MHz



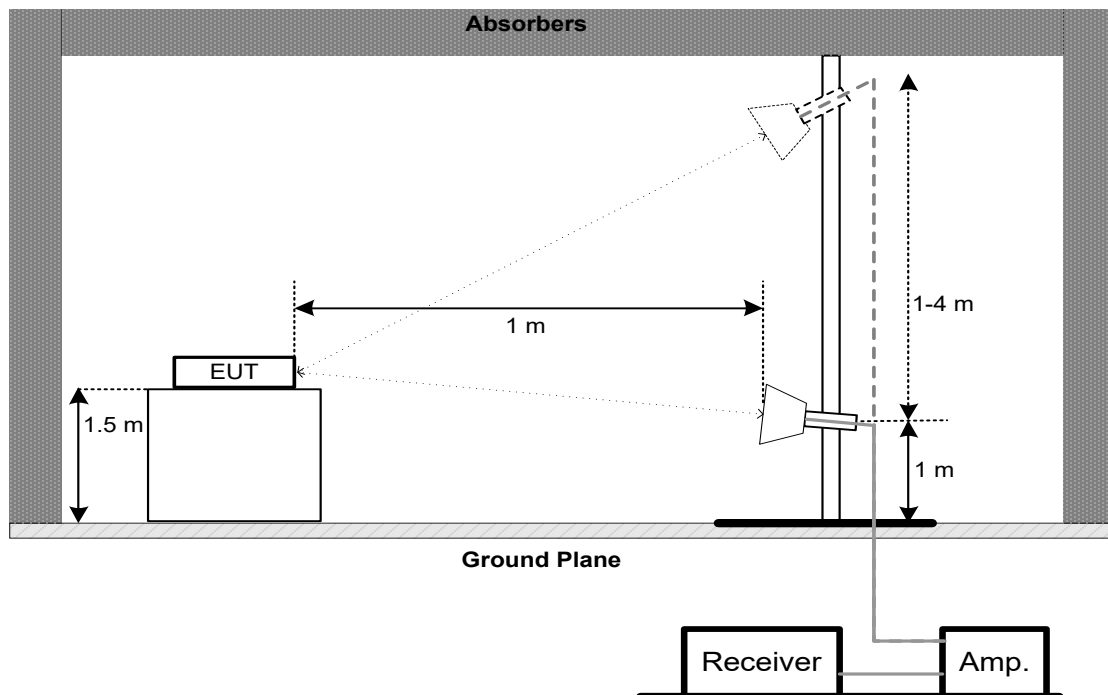
30 MHz to 1 GHz



Above 1 GHz Band edge & Harmonic(1 GHz to 18 GHz)



Harmonic(18 GHz to 40 GHz)



5.5 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.

5.6 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.

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.8 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.

6. BANDWIDTH

6.1 LIMIT

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

6.2 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
Span	> 26 dB Bandwidth
RBW	Appromiximately 1% of the emission bandwidth
VBW	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

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

For 99% Occupied Bandwidth:

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

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

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 E.

7. MAXIMUM OUTPUT POWER

7.1 LIMIT

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

Note:

- a. For fixed point-to-point access points 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. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

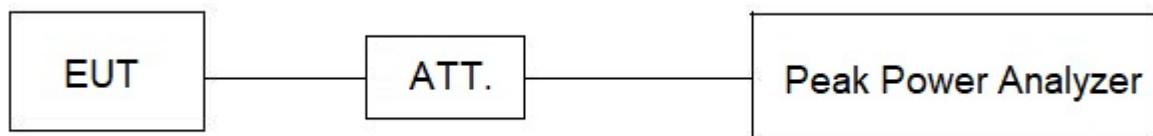
7.2 TEST PROCEDURE

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

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 F.

8. POWER SPECTRAL DENSITY

8.1 LIMIT

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

8.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

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

For UNII-3:

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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/100 \text{ kHz})$ to the measured result, i.e. 7 dB.

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 G.

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	Dec. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 11, 2025
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6 m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM -3.5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 15, 2026

Radiated Emissions - 1 GHz - 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	966 Chamber room	CM	9*6*6	N/A	May 09, 2026
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jul. 03, 2025
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jul. 03, 2025
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 02, 2026
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 29, 2025
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9969	N/A	May 27, 2026

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	May 17, 2026
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 20, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 18, 2026
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	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	FSV Signal & Spectrum Analyzer	R&S	FSV3044	101682	Oct. 17, 2025
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 17, 2026
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 17, 2026
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

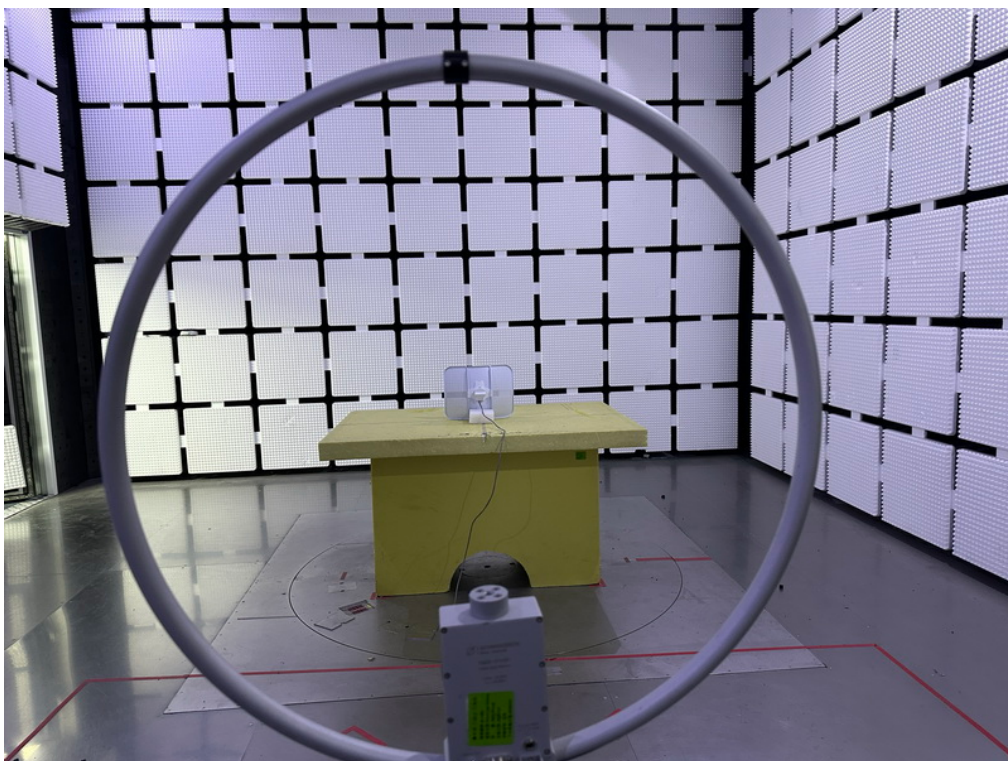
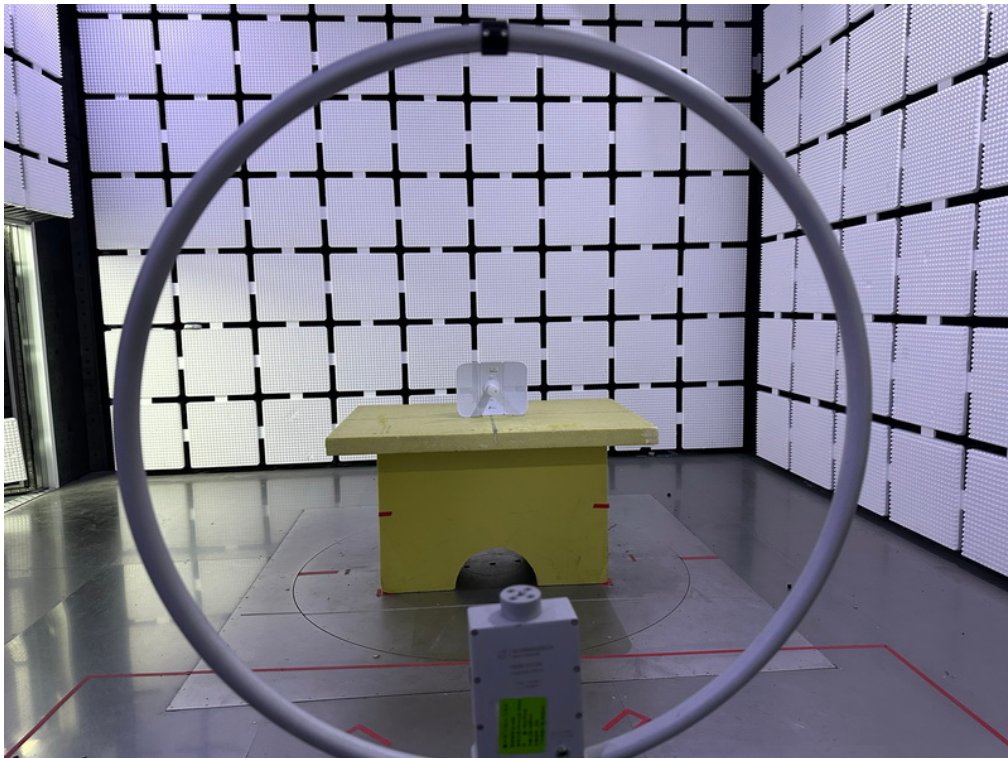
Remark: "N/A" denotes no model name, serial no. or calibration specified.

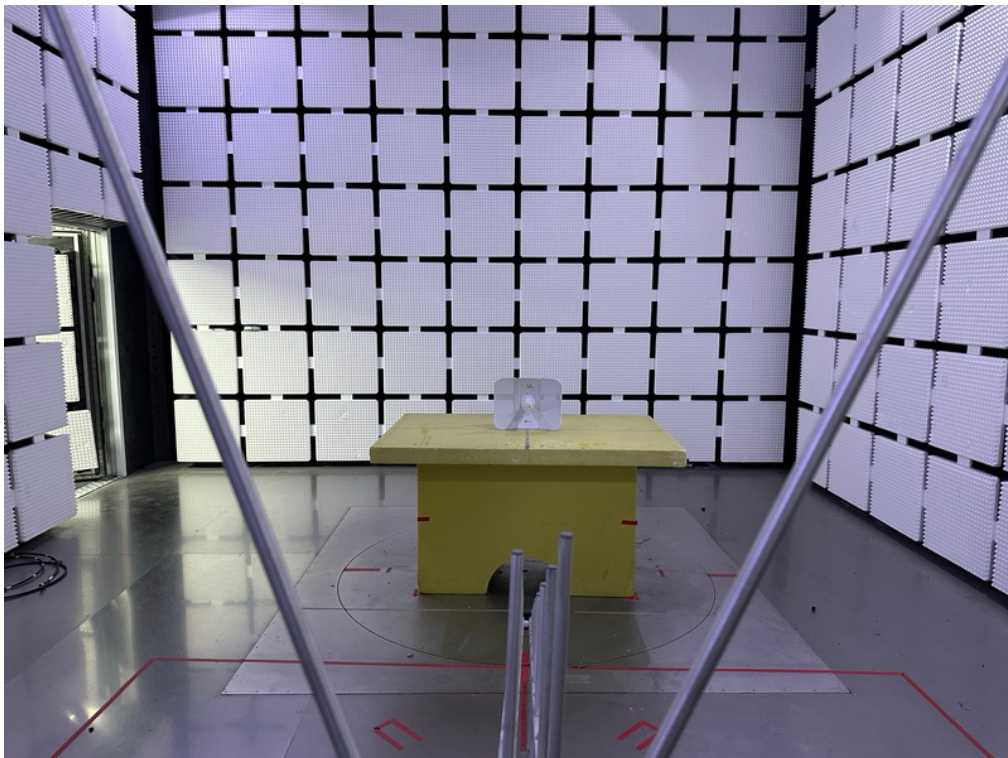
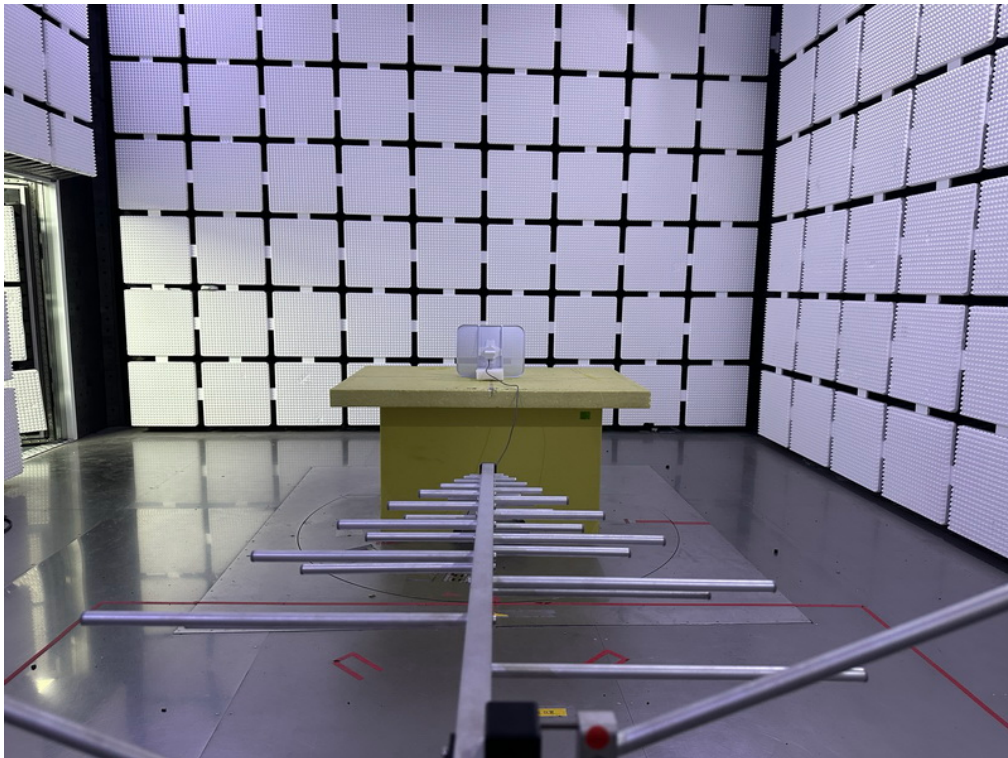
All calibration period of equipment list is one year.

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

Radiated Emissions Test Photos

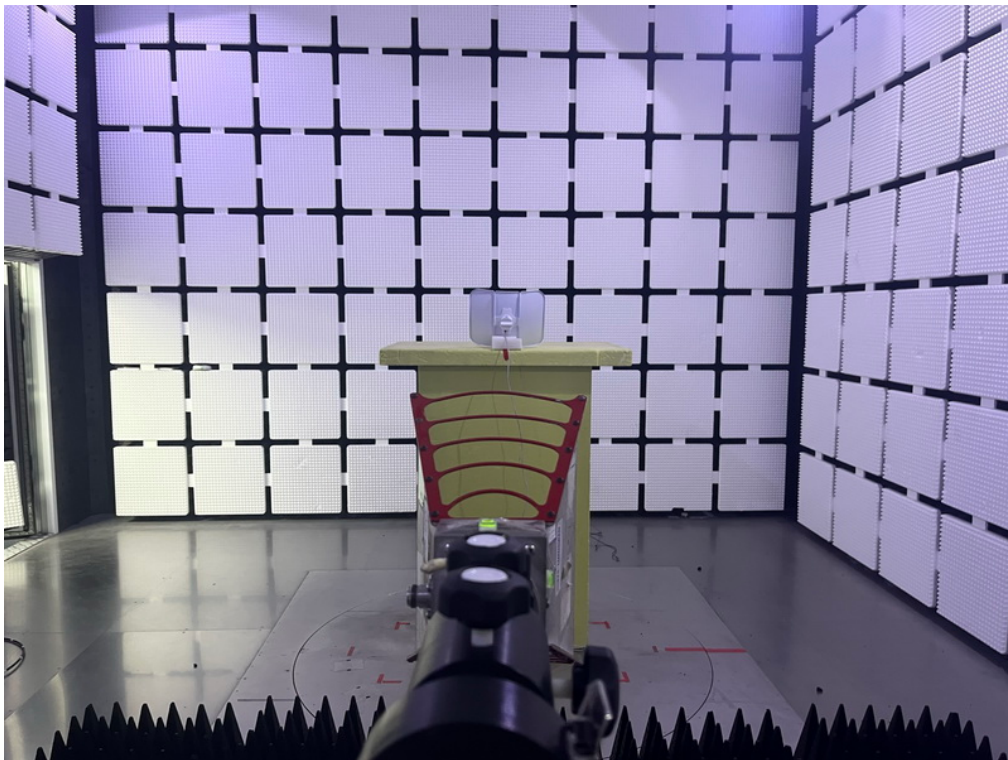
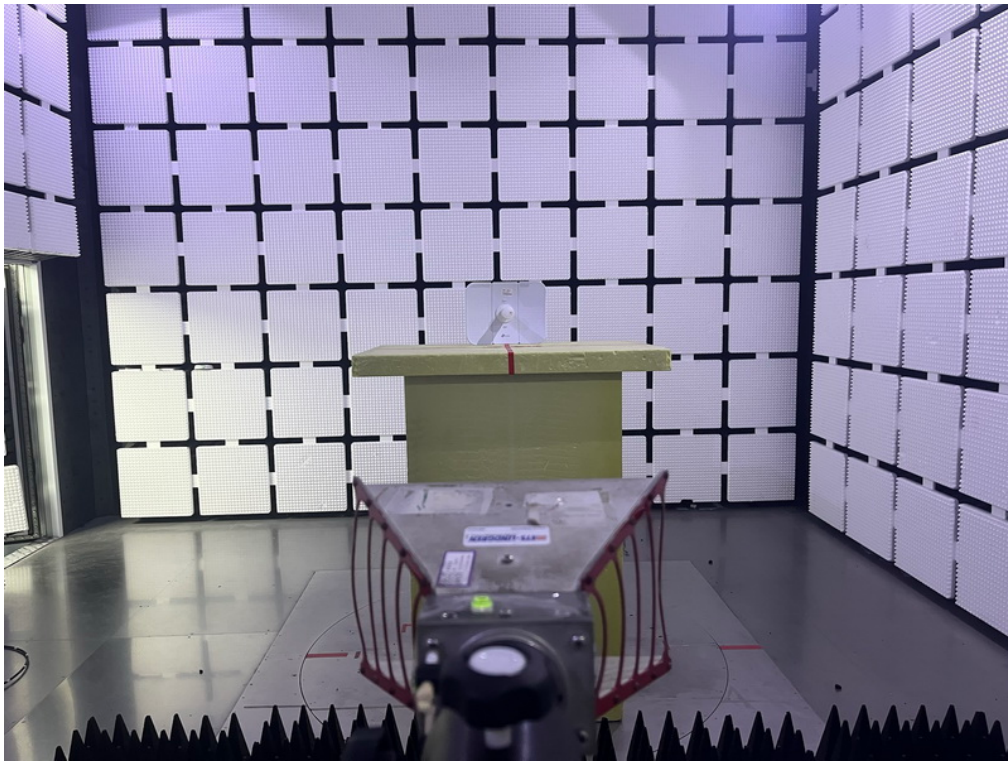
9 kHz to 30 MHz



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

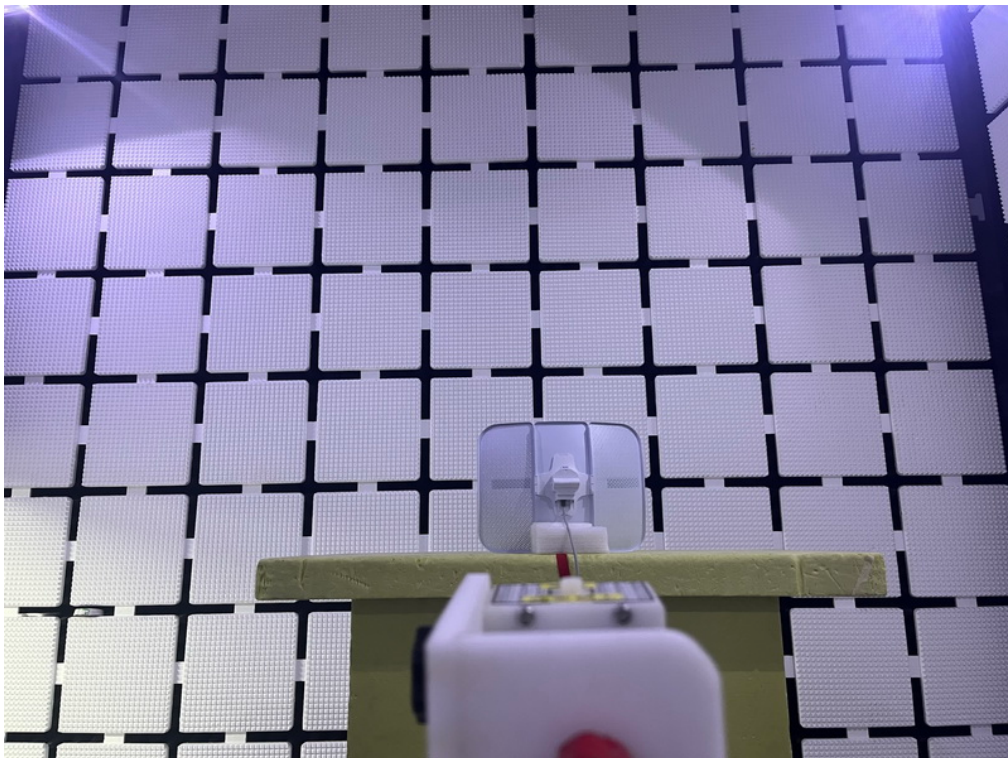
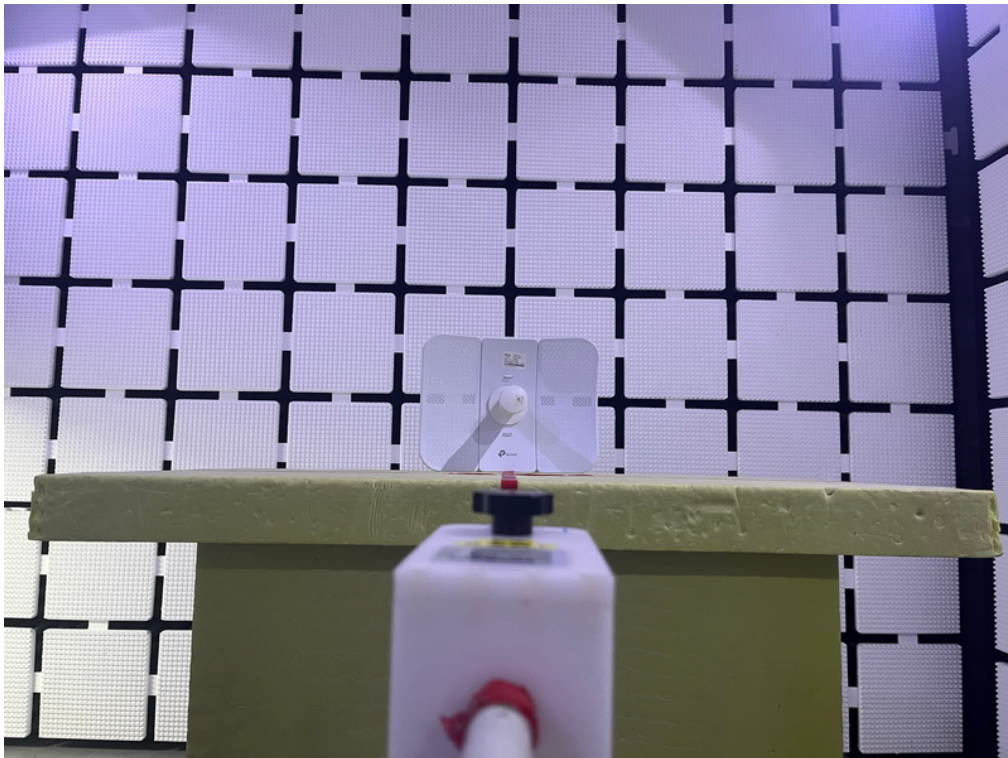
Radiated Emissions Test Photos

Band edge & Harmonic(1 GHz to 18 GHz)

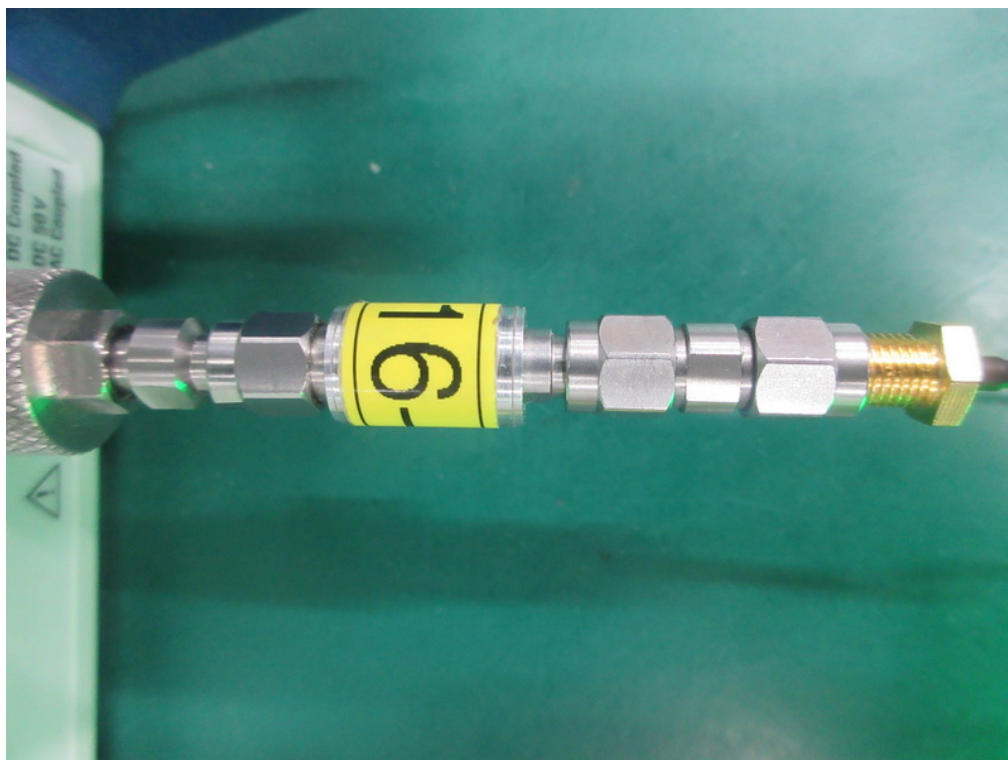
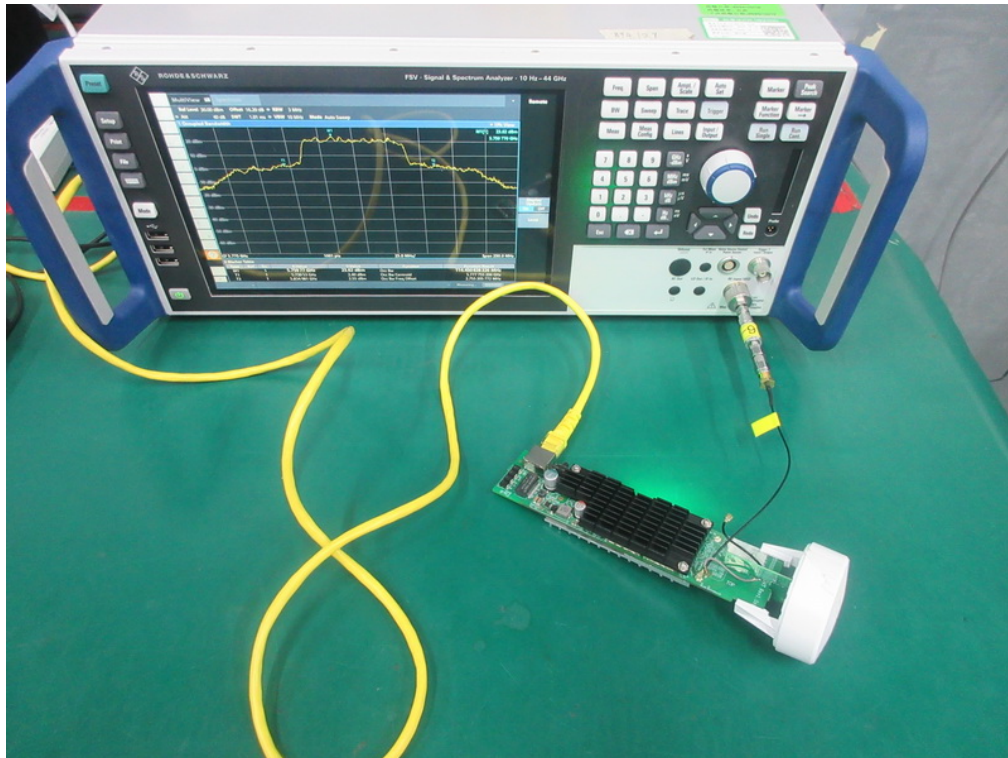


Radiated Emissions Test Photos

Harmonic(18 GHz to 40 GHz)



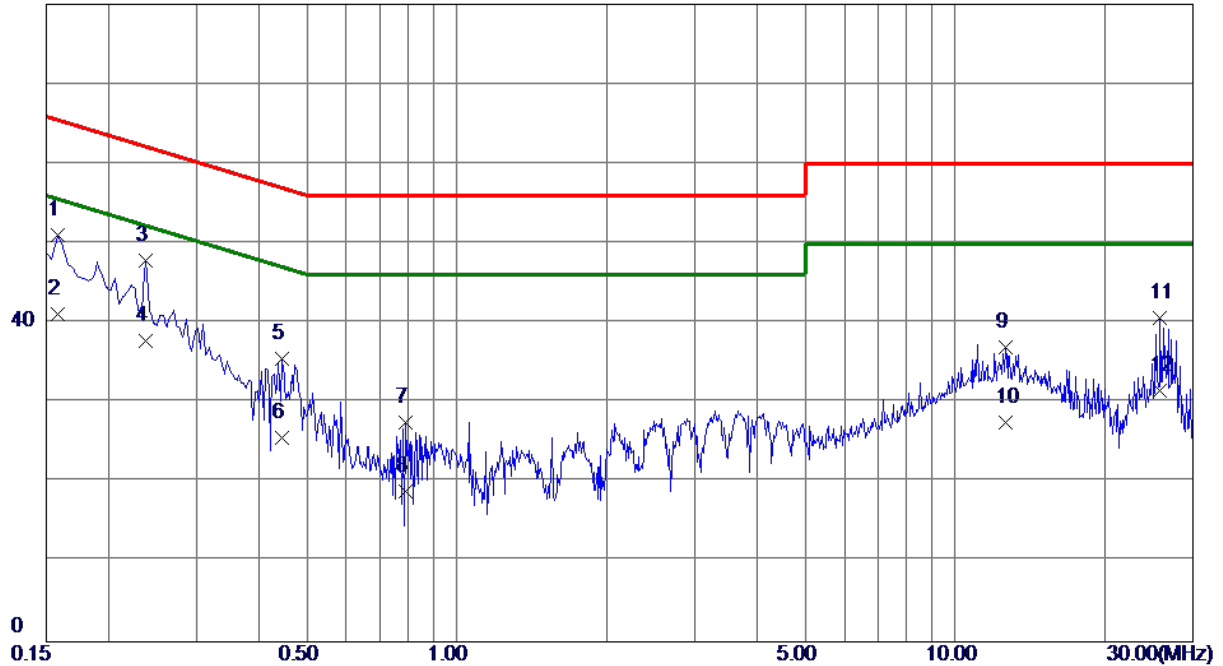
Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Phase	Line
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80 dBuV



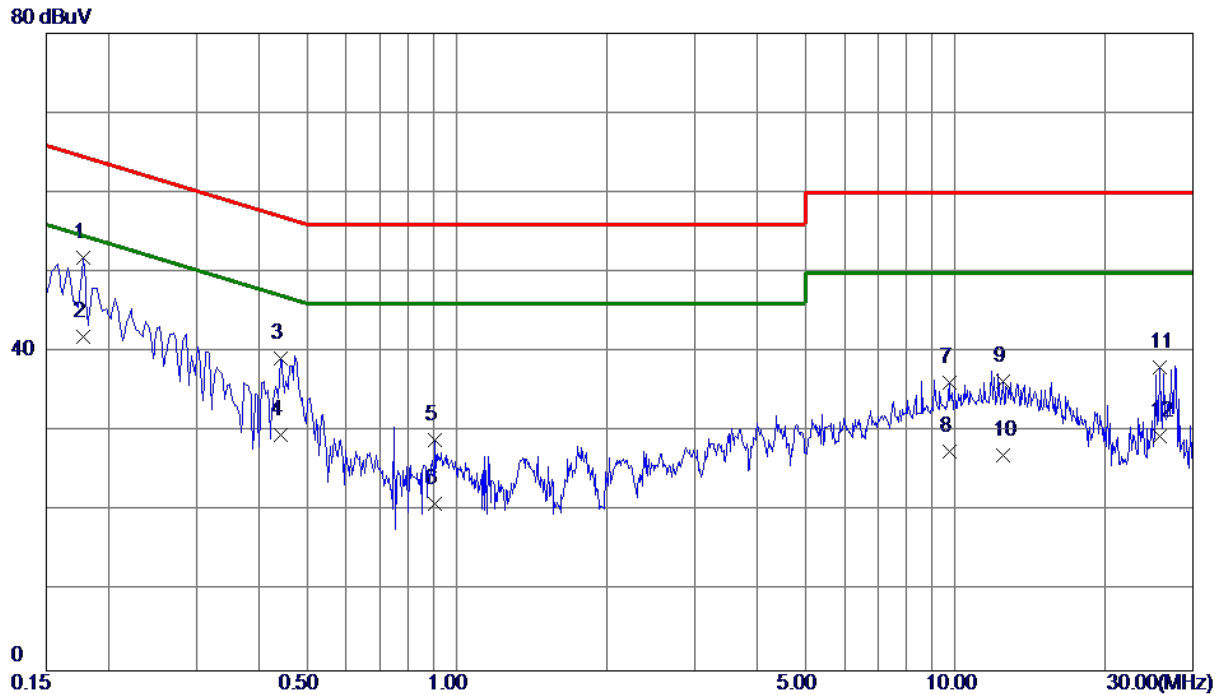
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1580	41.07	9.91	50.98	65.57	-14.59	QP	
2	0.1580	31.20	9.91	41.11	55.57	-14.46	AVG	
3 *	0.2380	37.93	9.90	47.83	62.17	-14.34	QP	
4	0.2380	27.90	9.90	37.80	52.17	-14.37	AVG	
5	0.4460	25.63	9.95	35.58	56.95	-21.37	QP	
6	0.4460	15.59	9.95	25.54	46.95	-21.41	AVG	
7	0.7900	17.48	10.03	27.51	56.00	-28.49	QP	
8	0.7900	8.91	10.03	18.94	46.00	-27.06	AVG	
9	12.6020	24.11	12.86	36.97	60.00	-23.03	QP	
10	12.6020	14.60	12.86	27.46	50.00	-22.54	AVG	
11	25.7860	24.93	15.64	40.57	60.00	-19.43	QP	
12	25.7860	15.90	15.64	31.54	50.00	-18.46	AVG	

REMARKS:

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

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

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Phase	Neutral
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No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1780	41.93	9.97	51.90	64.58	-12.68	QP	
2	0.1780	31.90	9.97	41.87	54.58	-12.71	AVG	
3	0.4420	29.23	10.02	39.25	57.02	-17.77	QP	
4	0.4420	19.59	10.02	29.61	47.02	-17.41	AVG	
5	0.9060	18.91	10.07	28.98	56.00	-27.02	QP	
6	0.9060	10.90	10.07	20.97	46.00	-25.03	AVG	
7	9.7180	24.34	11.88	36.22	60.00	-23.78	QP	
8	9.7180	15.61	11.88	27.49	50.00	-22.51	AVG	
9	12.4580	23.58	12.77	36.35	60.00	-23.65	QP	
10	12.4580	14.20	12.77	26.97	50.00	-23.03	AVG	
11	25.7620	22.49	15.61	38.10	60.00	-21.90	QP	
12	25.7620	13.90	15.61	29.51	50.00	-20.49	AVG	

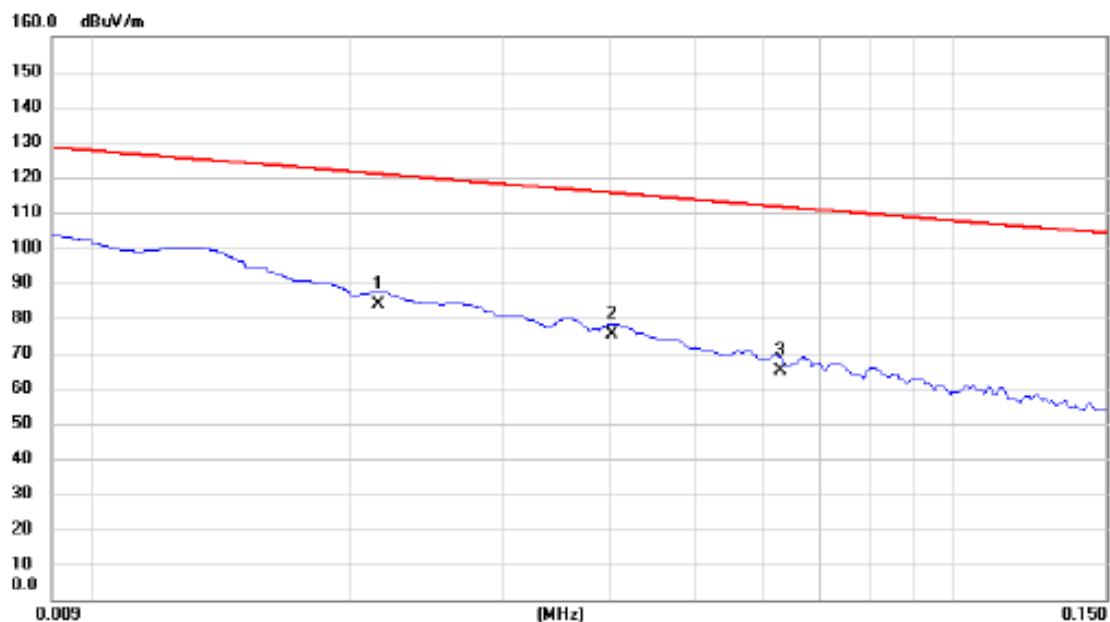
REMARKS:

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

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Ant 0°
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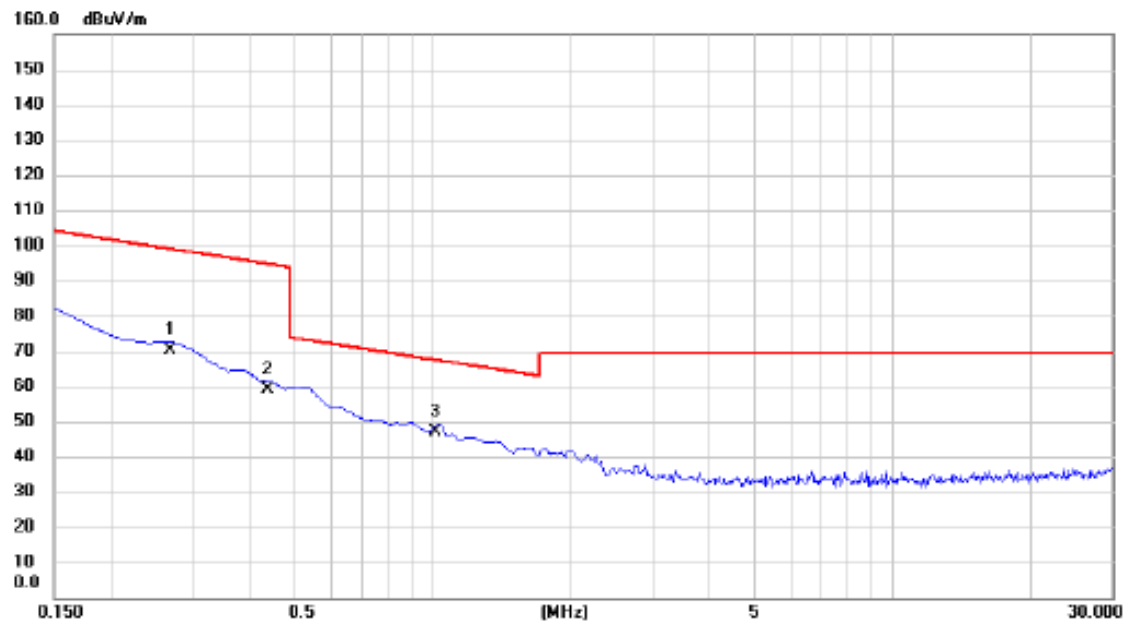
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.021	63.45	20.31	83.76	120.96	-37.20	AVG	
2		0.040	55.09	20.14	75.23	115.54	-40.31	AVG	
3		0.063	44.84	20.14	64.98	111.62	-46.64	AVG	

REMARKS:

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

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

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Ant 0°
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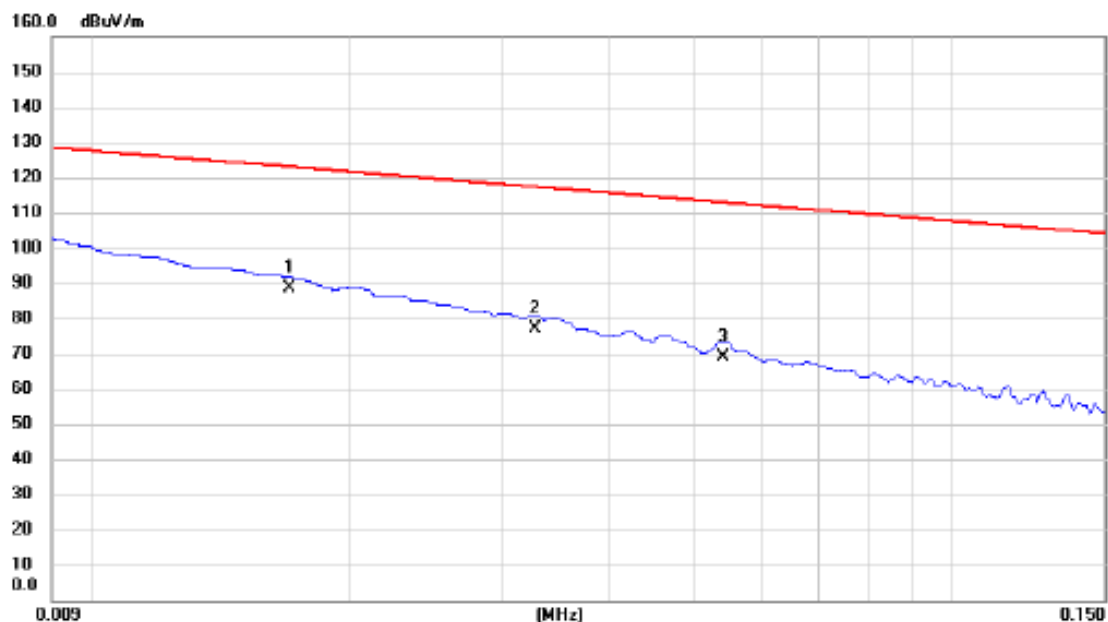


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.269	50.31	19.81	70.12	99.00	-28.88	AVG	
2		0.437	38.94	19.96	58.90	94.79	-35.89	AVG	
3	*	1.016	26.84	20.00	46.84	67.47	-20.63	QP	

REMARKS:

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

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Ant 90°
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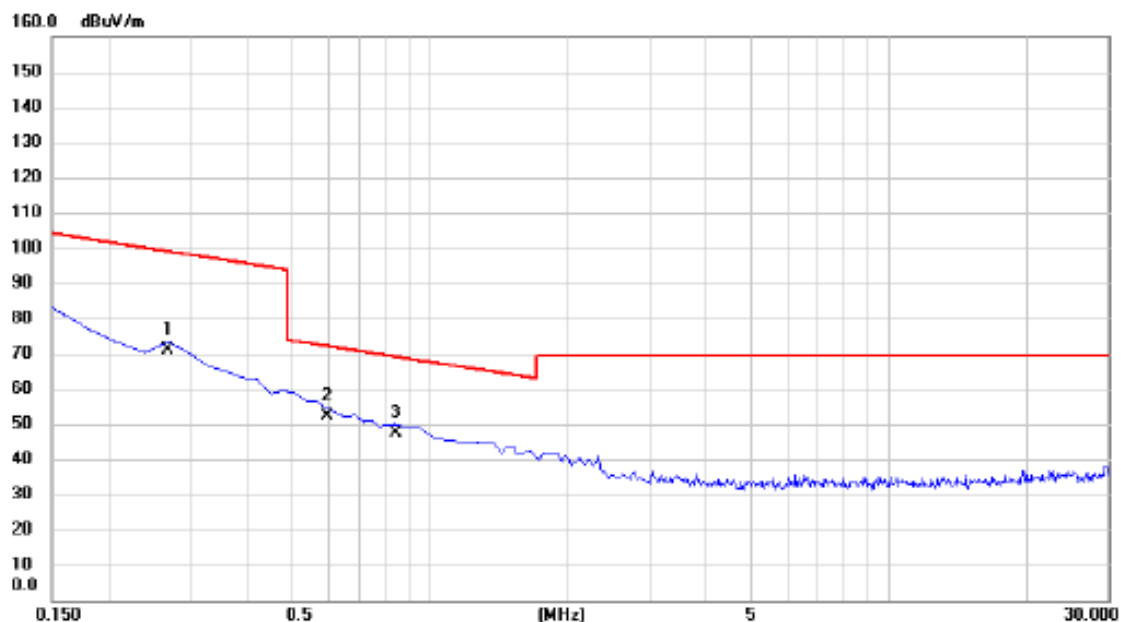
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.017	68.16	20.40	88.56	123.00	-34.44	AVG	
2	0.033	56.79	20.14	76.93	117.29	-40.36	AVG	
3	0.054	48.95	20.14	69.09	112.94	-43.85	AVG	

REMARKS:

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

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

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Ant 90°
-----------	--	--------------	---------



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.269	51.32	19.81	71.13	99.00	-27.87	AVG	
2	*	0.598	32.19	20.03	52.22	72.07	-19.85	QP	
3		0.844	27.45	19.97	47.42	69.08	-21.66	QP	

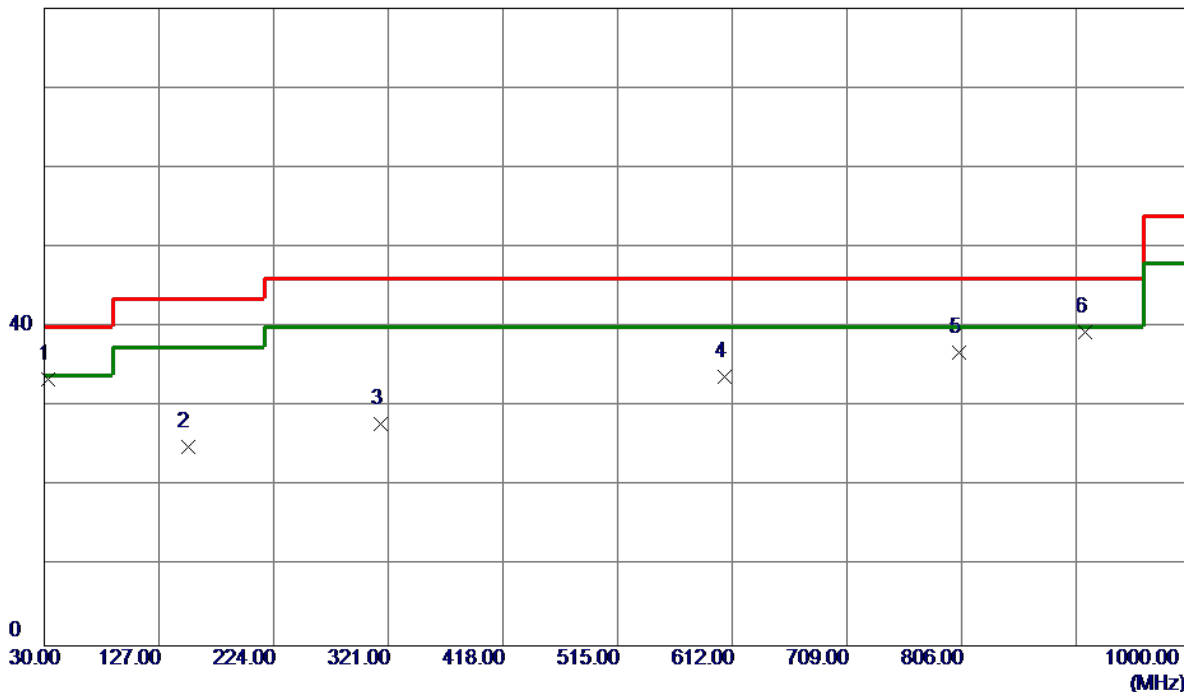
REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Vertical
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80 dBuV/m



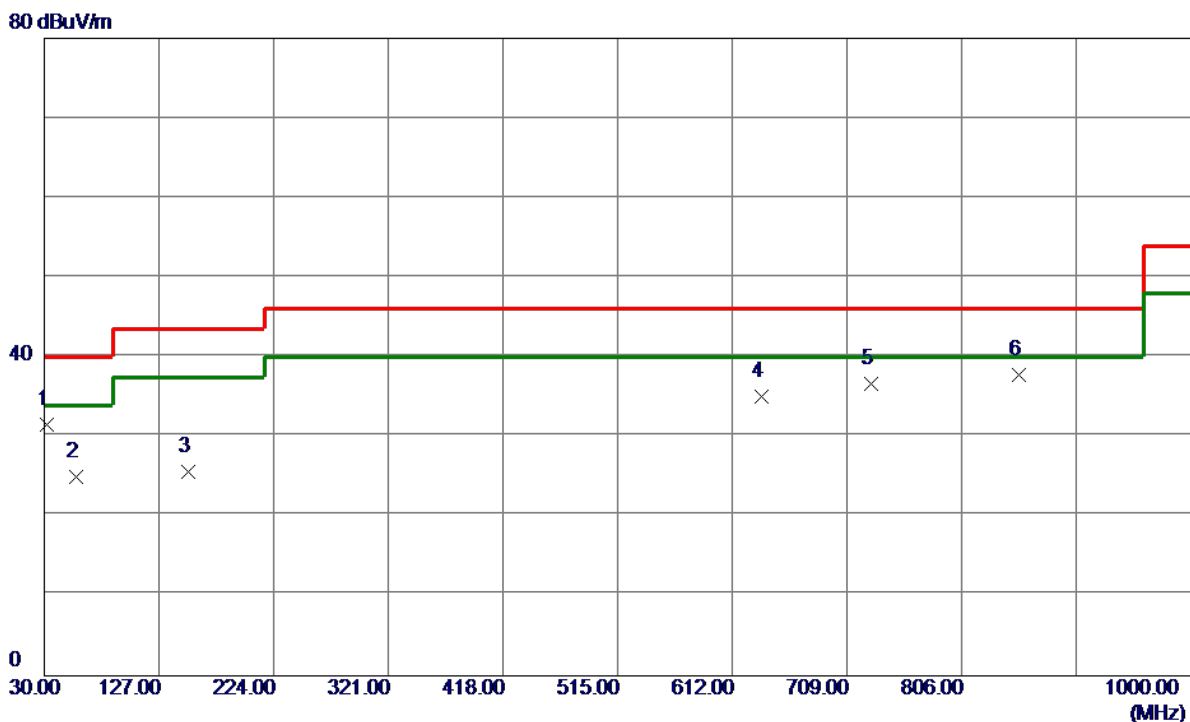
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	32.9100	46.14	-12.69	33.45	40.00	-6.55	Peak	
2	151.2500	36.04	-11.10	24.94	43.52	-18.58	Peak	
3	314.2100	37.97	-10.06	27.91	46.02	-18.11	Peak	
4	605.6950	37.35	-3.55	33.80	46.02	-12.22	Peak	
5	804.0600	37.57	-0.84	36.73	46.02	-9.29	Peak	
6	910.2750	38.79	0.57	39.36	46.02	-6.66	Peak	

REMARKS:

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

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

Test Mode	TX AC(VHT40) Mode Channel 151 (UNII-3)	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	32.4250	44.24	-12.78	31.46	40.00	-8.54	Peak	
2	57.1600	36.60	-11.60	25.00	40.00	-15.00	Peak	
3	152.2200	36.75	-11.09	25.66	43.52	-17.86	Peak	
4	637.2199	37.83	-2.84	34.99	46.02	-11.03	Peak	
5	729.3700	38.12	-1.54	36.58	46.02	-9.44	Peak	
6 *	854.9850	38.11	-0.39	37.72	46.02	-8.30	Peak	

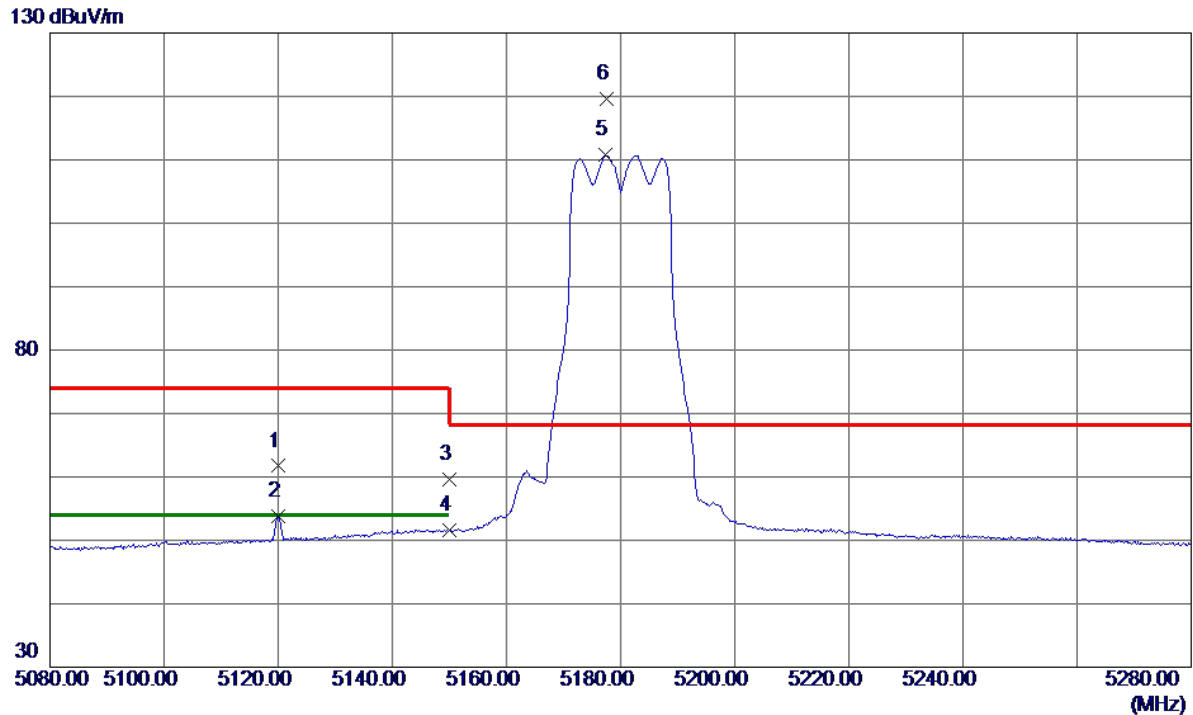
REMARKS:

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

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal
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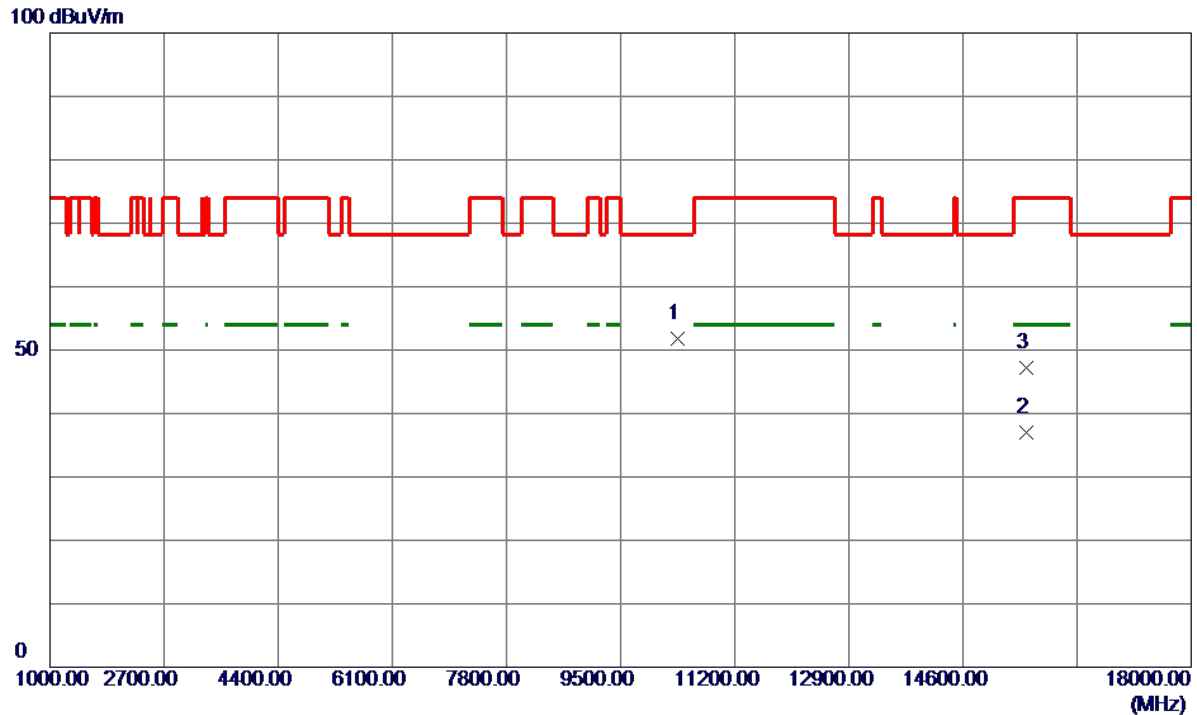
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5120.0000	46.89	14.81	61.70	74.00	-12.30	Peak	
2	5120.0000	39.06	14.81	53.87	54.00	-0.13	AVG	
3	5150.0000	44.64	14.90	59.54	74.00	-14.46	Peak	
4	5150.0000	36.63	14.90	51.53	54.00	-2.47	AVG	
5	5177.4000	95.76	14.97	110.73	999.00	-888.27	AVG	No Limit
6 *	5177.6000	104.70	14.97	119.67	68.20	51.47	Peak	No Limit

REMARKS:

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

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

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal
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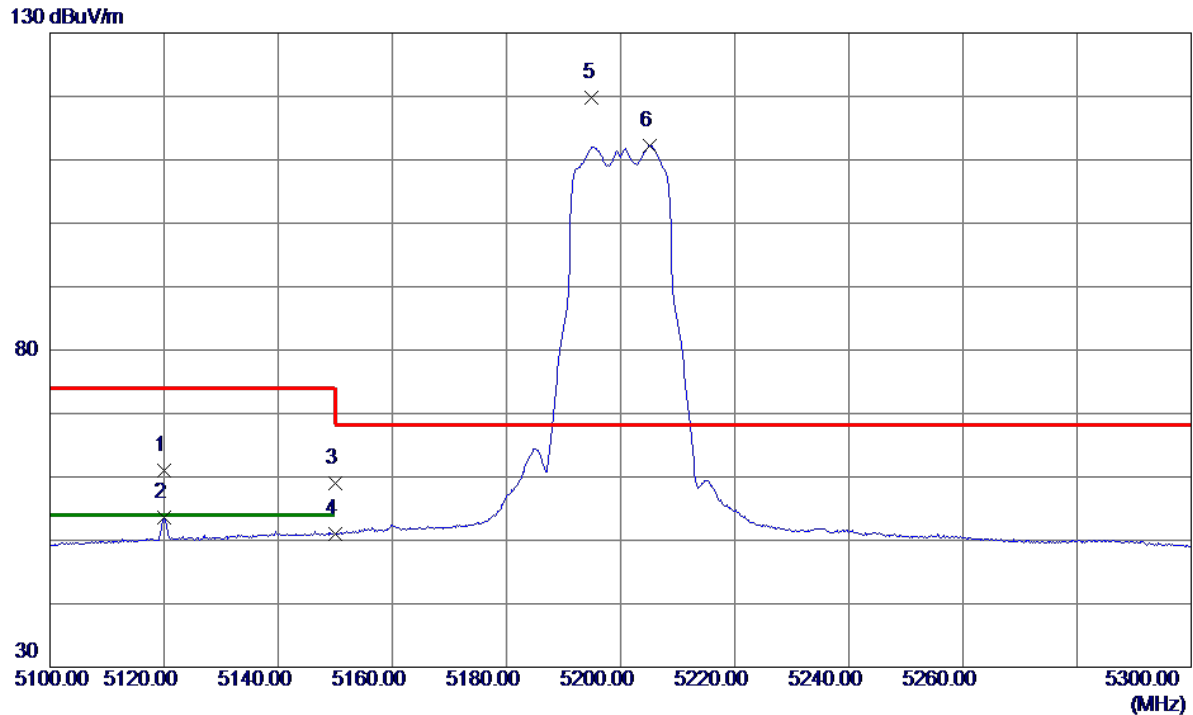
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10354.6500	42.94	8.79	51.73	68.20	-16.47	Peak	
2	15537.6000	27.92	9.16	37.08	54.00	-16.92	AVG	
3	15550.2500	38.08	9.18	47.26	74.00	-26.74	Peak	

REMARKS:

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

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal
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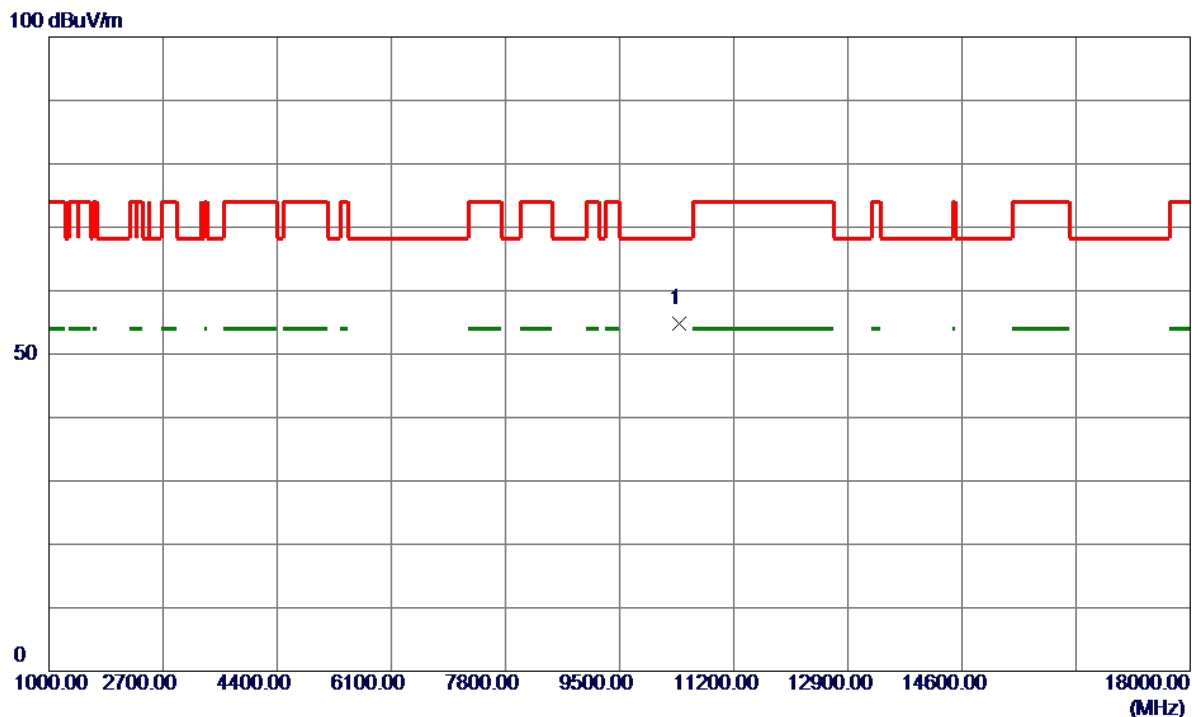
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5120.0000	46.24	14.81	61.05	74.00	-12.95	Peak	
2	5120.0000	38.82	14.81	53.63	54.00	-0.37	AVG	
3	5150.0000	44.08	14.90	58.98	74.00	-15.02	Peak	
4	5150.0000	36.17	14.90	51.07	54.00	-2.93	AVG	
5 *	5195.0000	104.81	15.02	119.83	68.20	51.63	Peak	No Limit
6	5205.2000	97.20	15.05	112.25	999.00	-886.75	AVG	No Limit

REMARKS:

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

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

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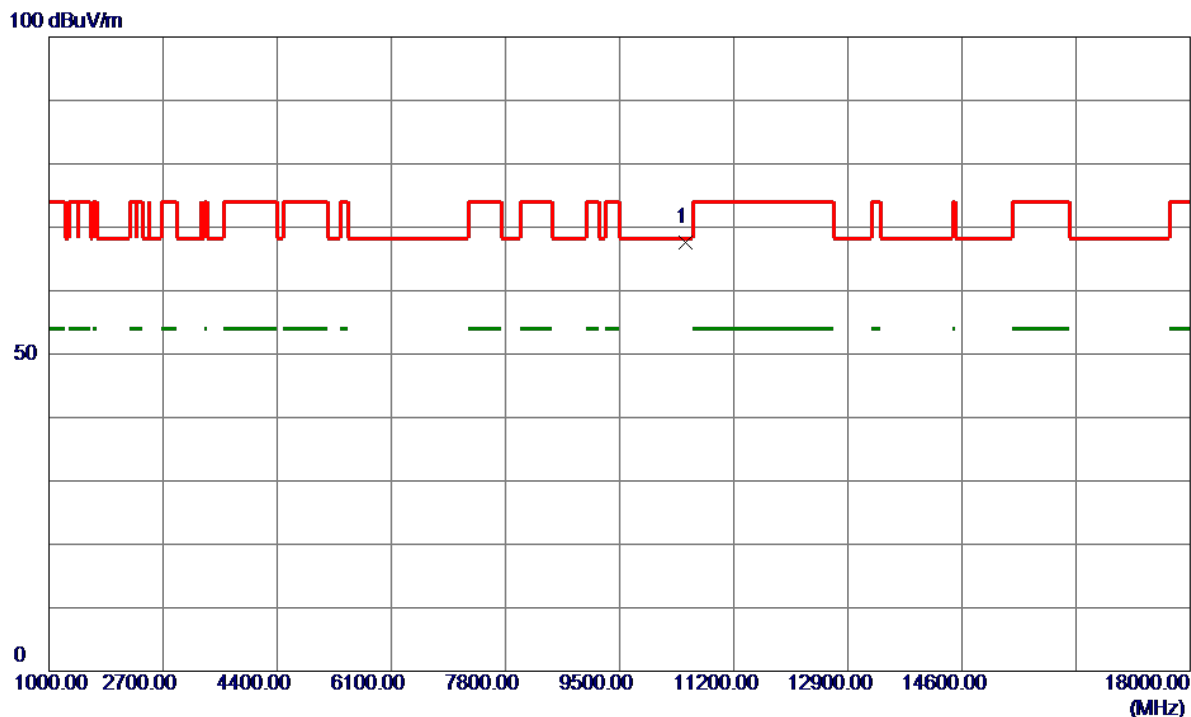


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10396.5500	45.92	8.87	54.79	68.20	-13.41	Peak	

REMARKS:

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

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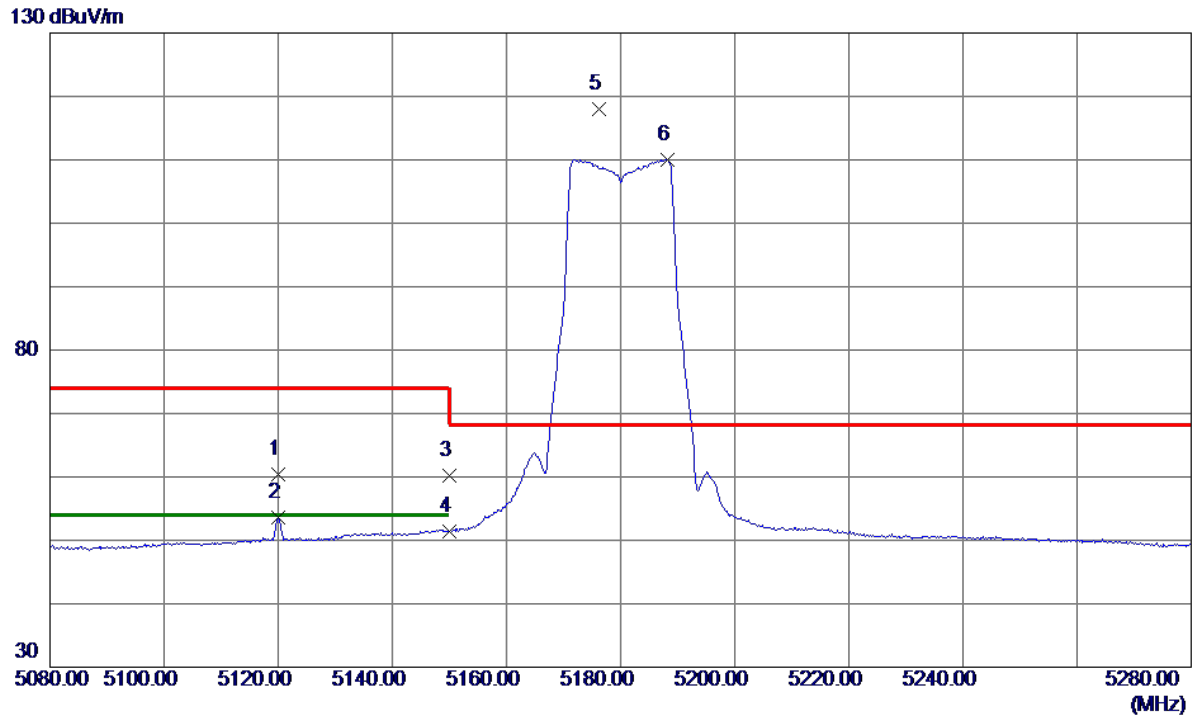


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10481.2000	58.66	9.02	67.68	68.20	-0.52	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal
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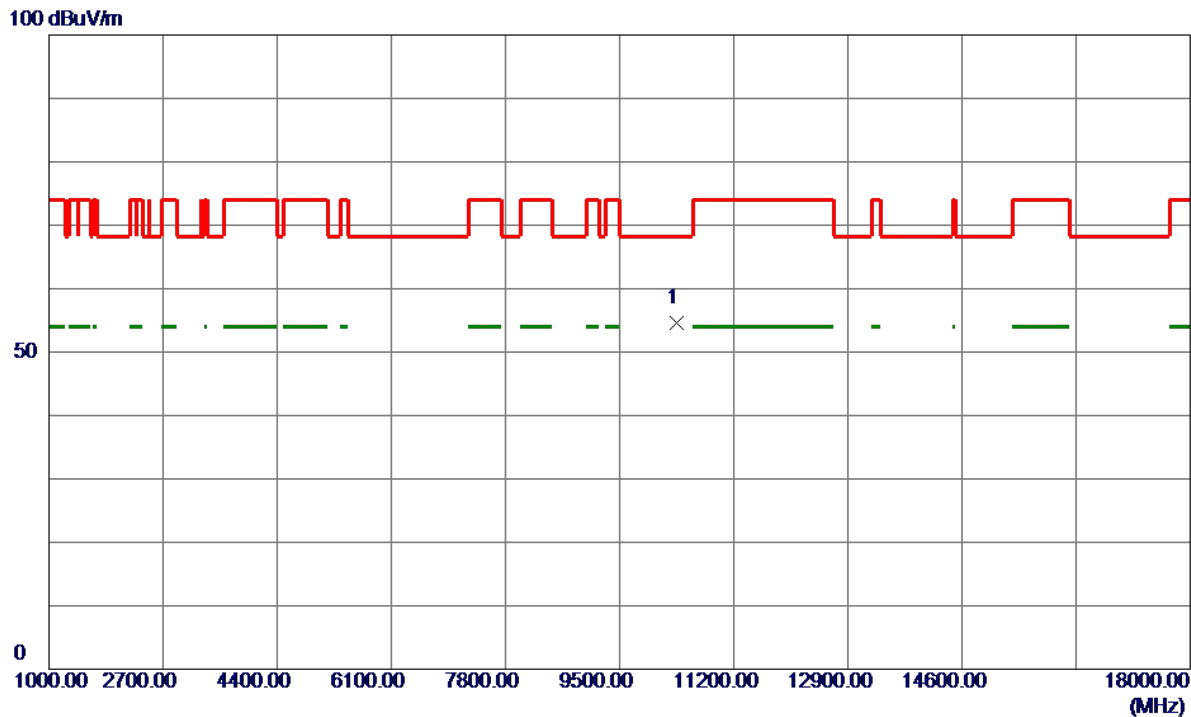
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5120.0000	45.51	14.81	60.32	74.00	-13.68	Peak	
2	5120.0000	38.72	14.81	53.53	54.00	-0.47	AVG	
3	5150.0000	45.24	14.90	60.14	74.00	-13.86	Peak	
4	5150.0000	36.46	14.90	51.36	54.00	-2.64	AVG	
5 *	5176.2000	103.05	14.97	118.02	68.20	49.82	Peak	No Limit
6	5188.2000	95.08	15.00	110.08	999.00	-888.92	AVG	No Limit

REMARKS:

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

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

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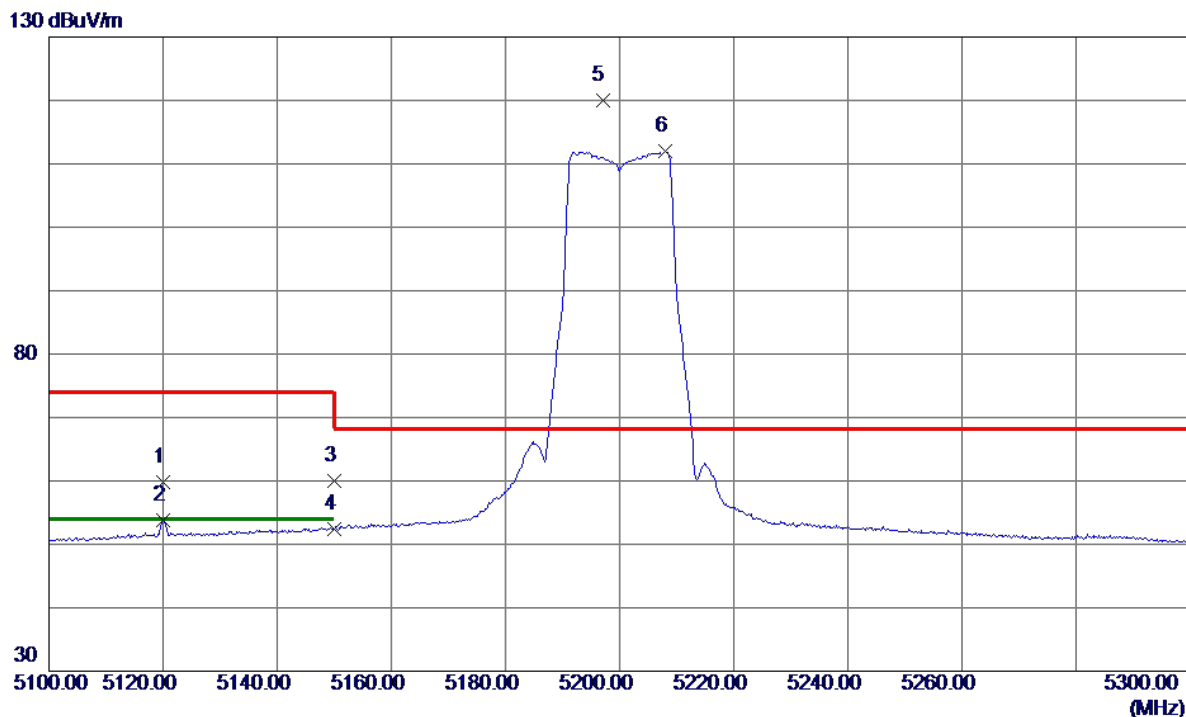


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10358.6500	45.84	8.79	54.63	68.20	-13.57	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal
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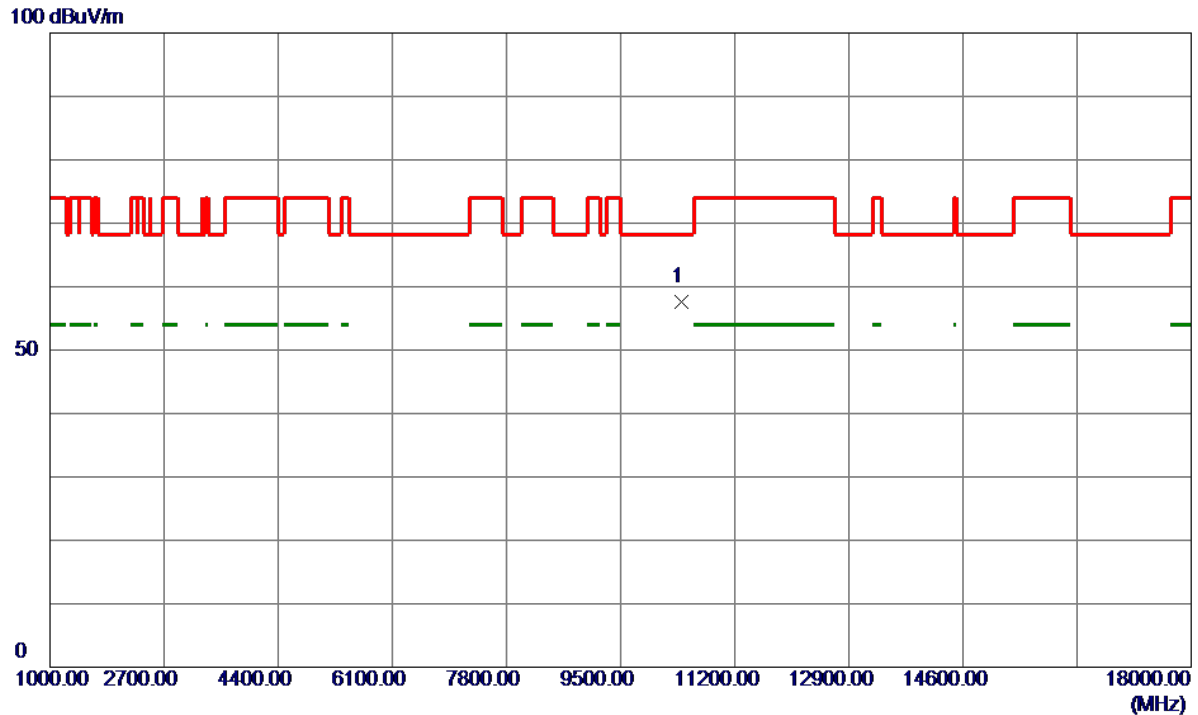
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5120.0000	44.99	14.81	59.80	74.00	-14.20	Peak	
2	5120.0000	39.06	14.81	53.87	54.00	-0.13	AVG	
3	5150.0000	45.19	14.90	60.09	74.00	-13.91	Peak	
4	5150.0000	37.48	14.90	52.38	54.00	-1.62	AVG	
5 *	5197.0000	104.93	15.03	119.96	68.20	51.76	Peak	No Limit
6	5208.0000	96.88	15.06	111.94	999.00	-887.06	AVG	No Limit

REMARKS:

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

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal
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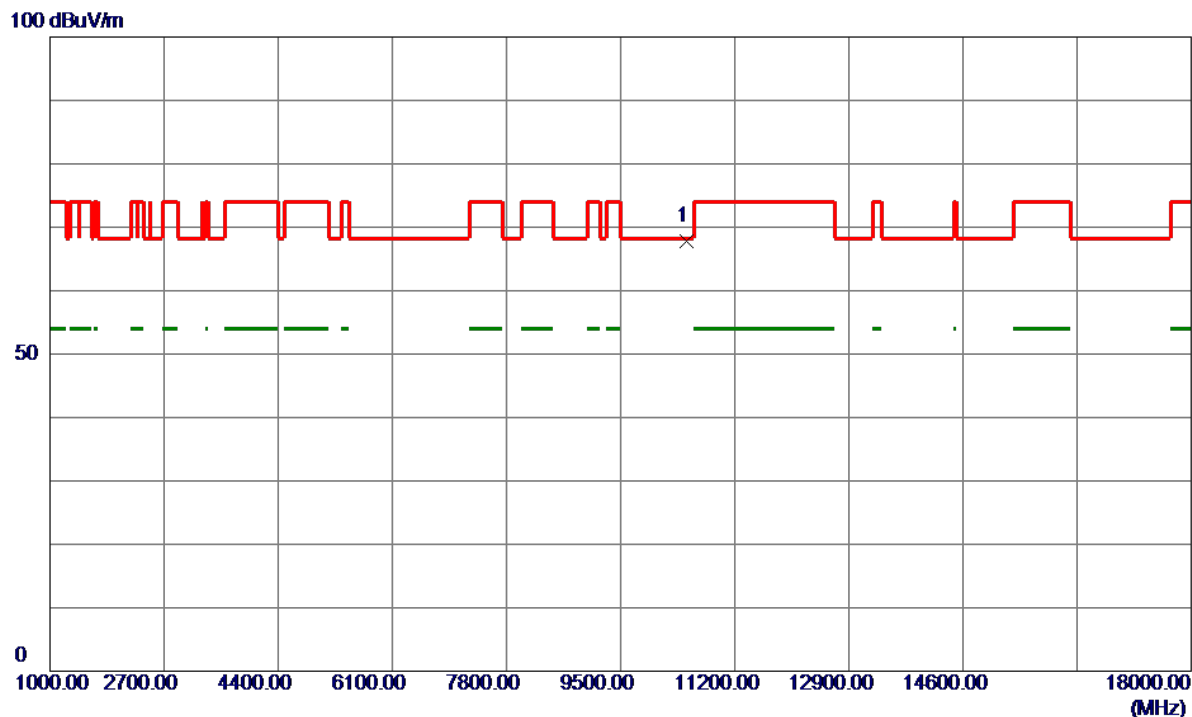
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10397.9500	48.66	8.87	57.53	68.20	-10.67	Peak	

REMARKS:

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

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal
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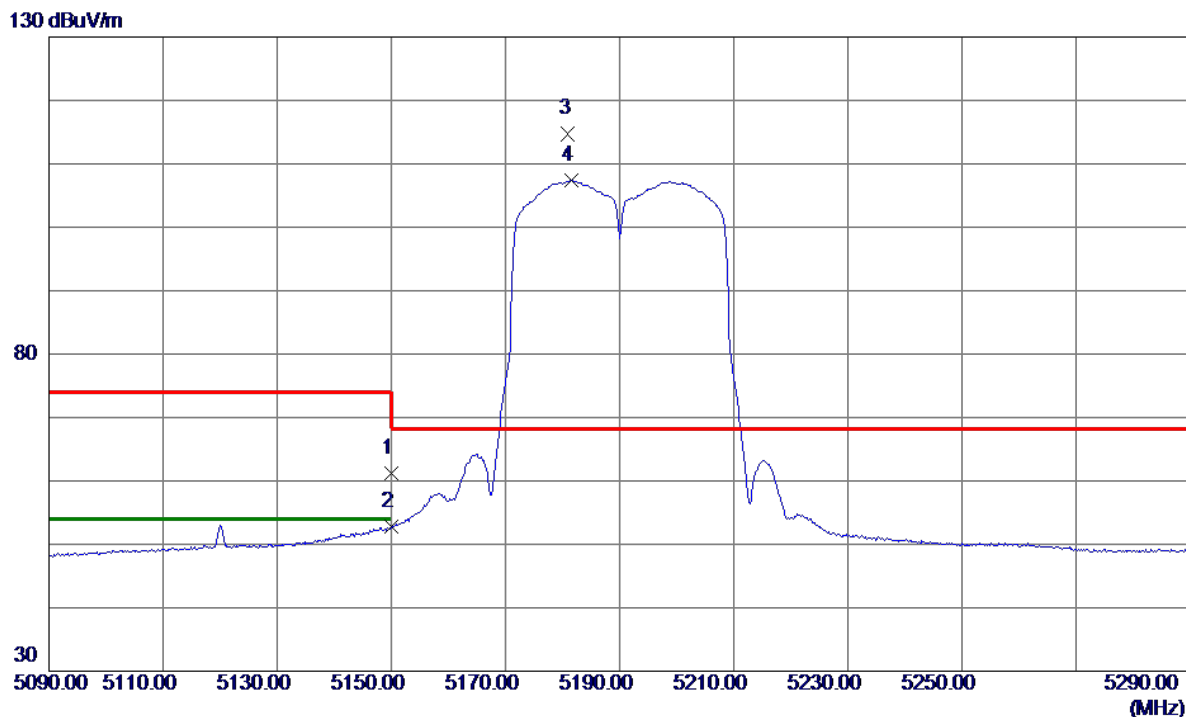
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.4500	58.77	9.02	67.79	68.20	-0.41	Peak	

REMARKS:

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

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

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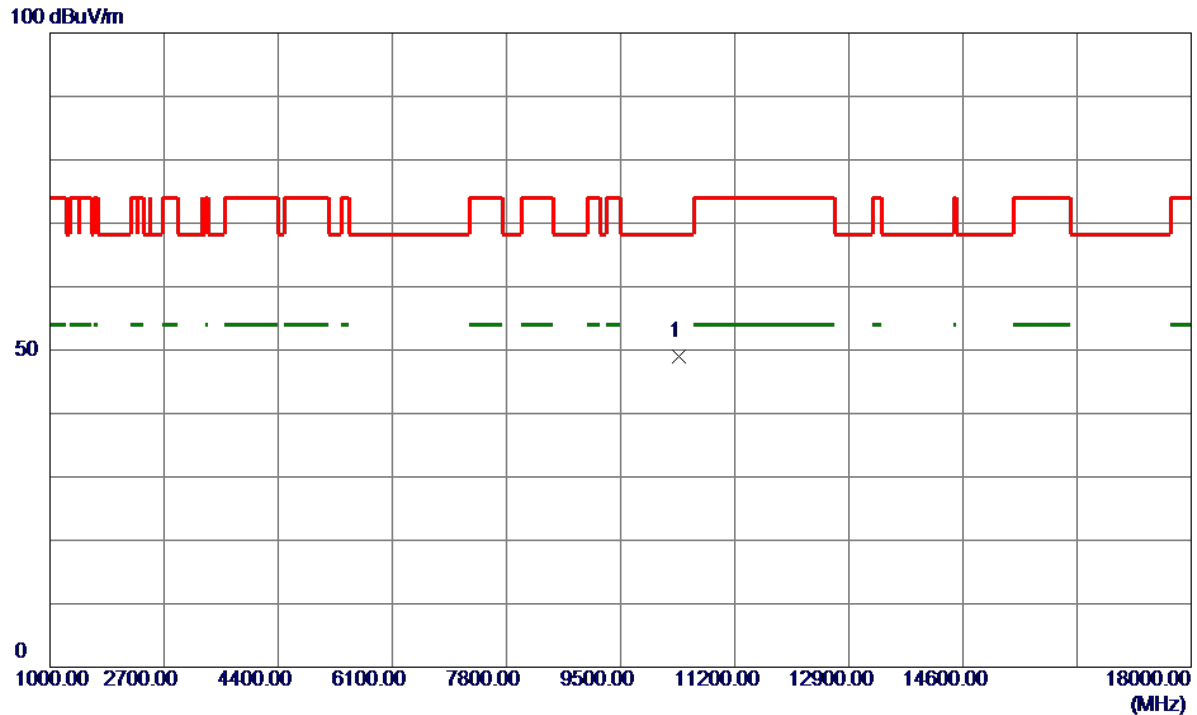


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.30	14.90	61.20	74.00	-12.80	Peak	
2	5150.0000	37.93	14.90	52.83	54.00	-1.17	AVG	
3 *	5181.0000	99.72	14.98	114.70	68.20	46.50	Peak	No Limit
4	5181.6000	92.37	14.99	107.36	999.00	-891.64	AVG	No Limit

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal
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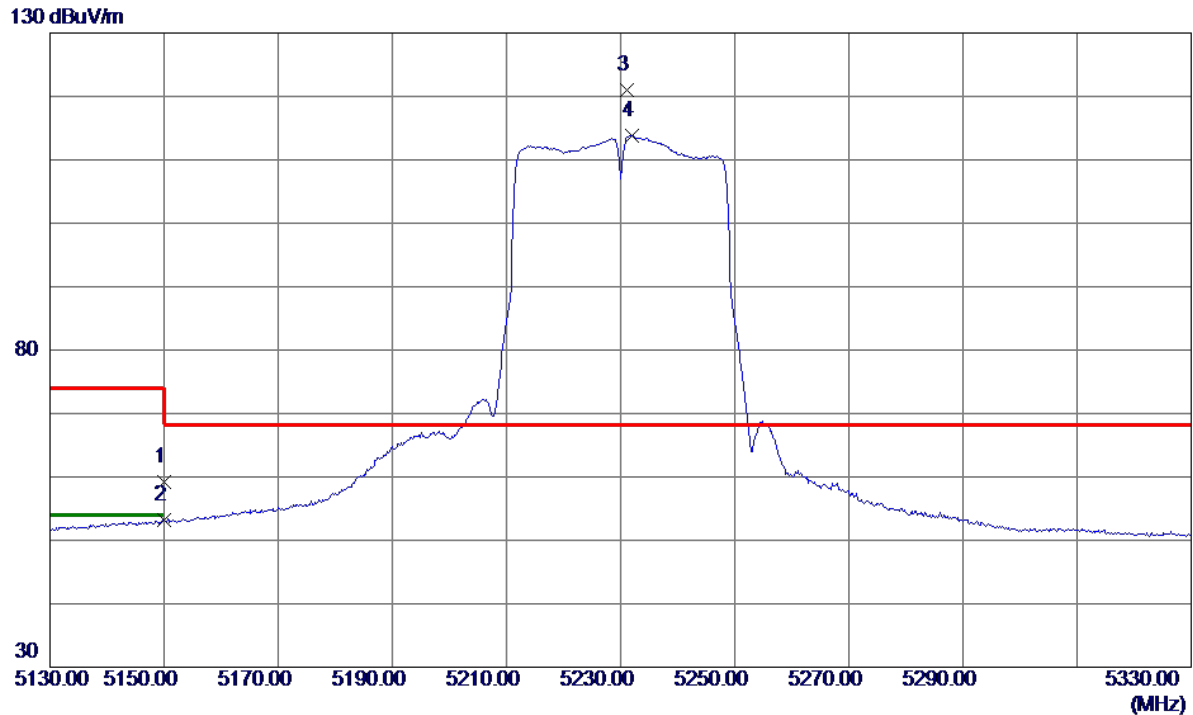
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10377.4500	40.14	8.83	48.97	68.20	-19.23	Peak	

REMARKS:

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

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal
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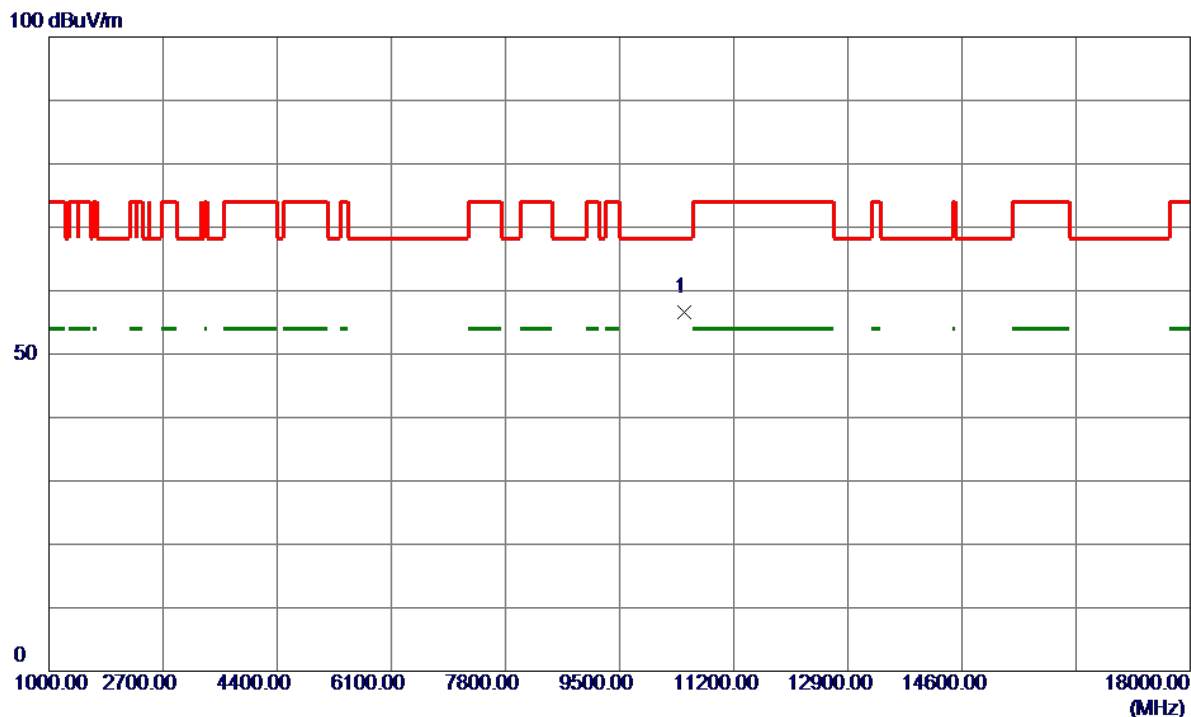
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.39	14.90	59.29	74.00	-14.71	Peak	
2	5150.0000	38.26	14.90	53.16	54.00	-0.84	AVG	
3 *	5231.2000	105.88	15.13	121.01	68.20	52.81	Peak	No Limit
4	5232.0000	98.75	15.13	113.88	999.00	-885.12	AVG	No Limit

REMARKS:

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

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

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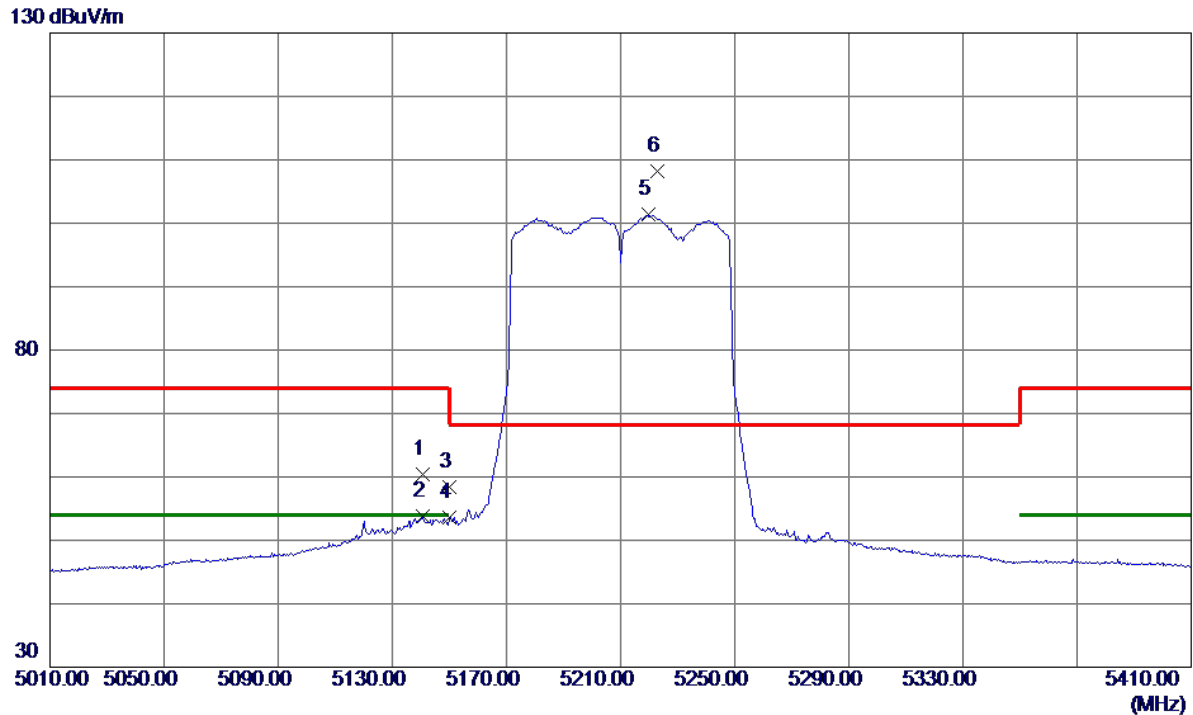


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10456.8500	47.54	8.98	56.52	68.20	-11.68	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal
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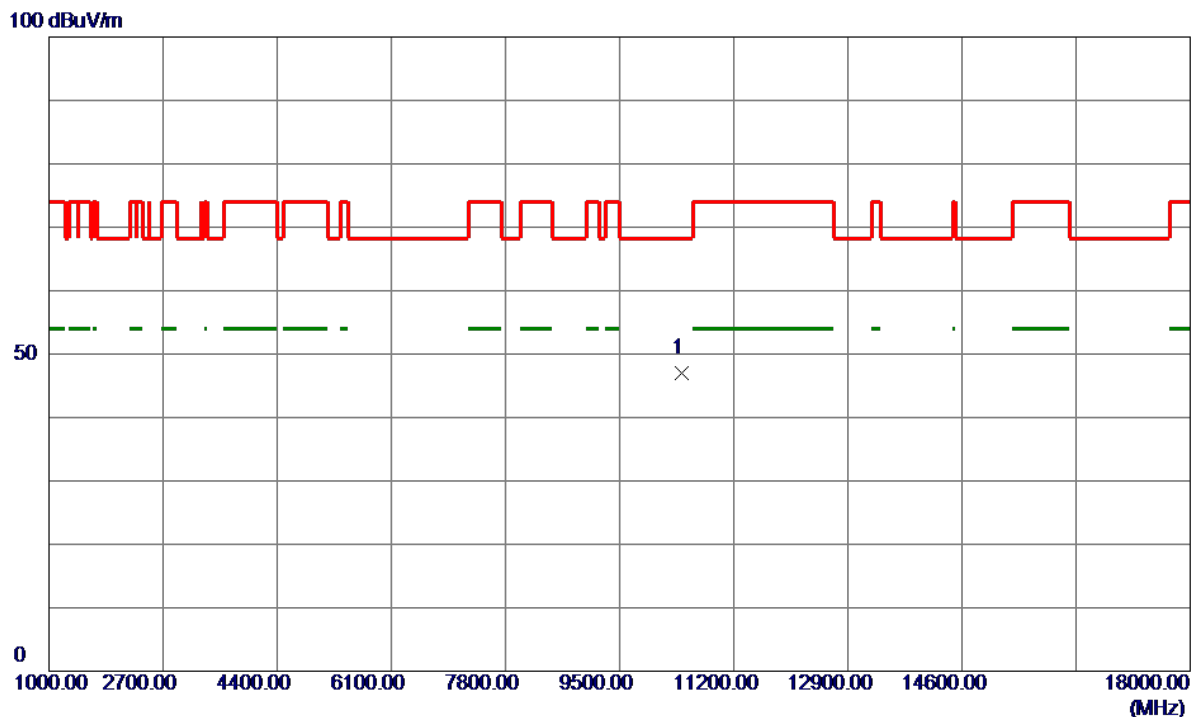
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5140.8000	45.45	14.87	60.32	74.00	-13.68	Peak	
2	5140.8000	38.91	14.87	53.78	54.00	-0.22	AVG	
3	5150.0000	43.57	14.90	58.47	74.00	-15.53	Peak	
4	5150.0000	38.78	14.90	53.68	54.00	-0.32	AVG	
5	5219.6000	86.22	15.09	101.31	999.00	-897.69	AVG	No Limit
6 *	5222.8000	93.11	15.10	108.21	68.20	40.01	Peak	No Limit

REMARKS:

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

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

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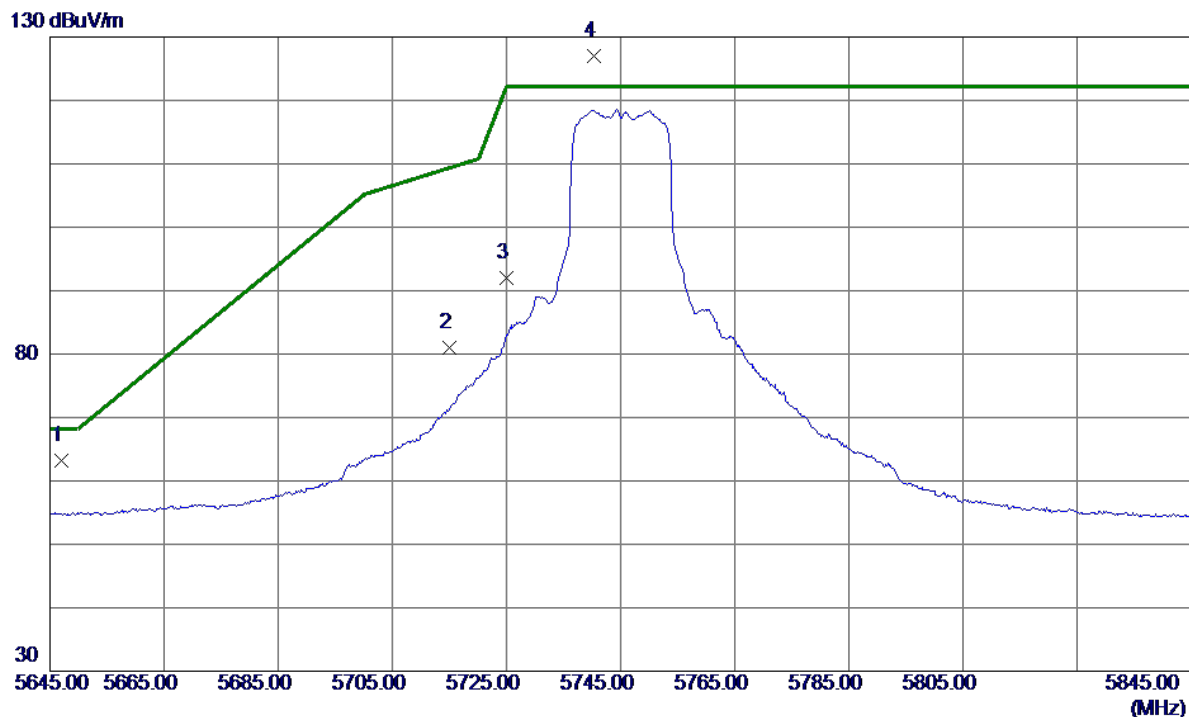


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420.2400	38.14	8.91	47.05	68.20	-21.15	Peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Horizontal
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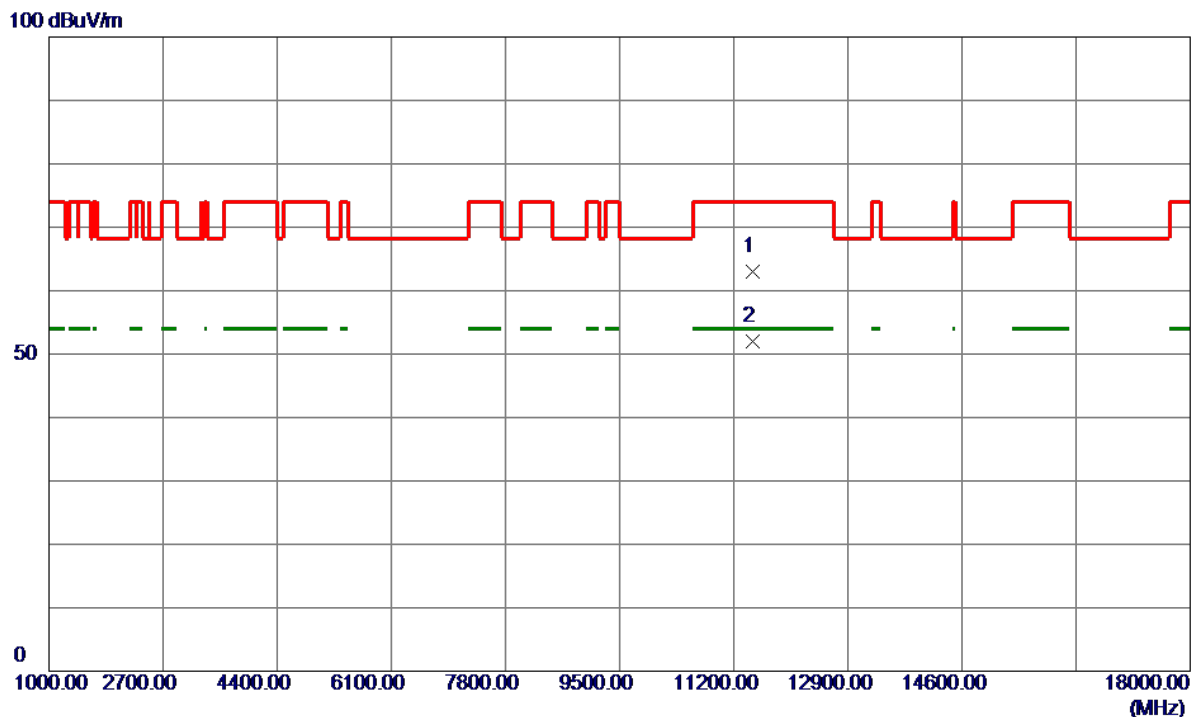
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5647.0000	46.71	16.43	63.14	68.20	-5.06	Peak	
2	5715.0000	64.31	16.69	81.00	109.40	-28.40	Peak	
3	5725.0000	75.26	16.72	91.98	122.20	-30.22	Peak	
4 *	5740.4000	110.21	16.78	126.99	122.20	4.79	Peak	No Limit

REMARKS:

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

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

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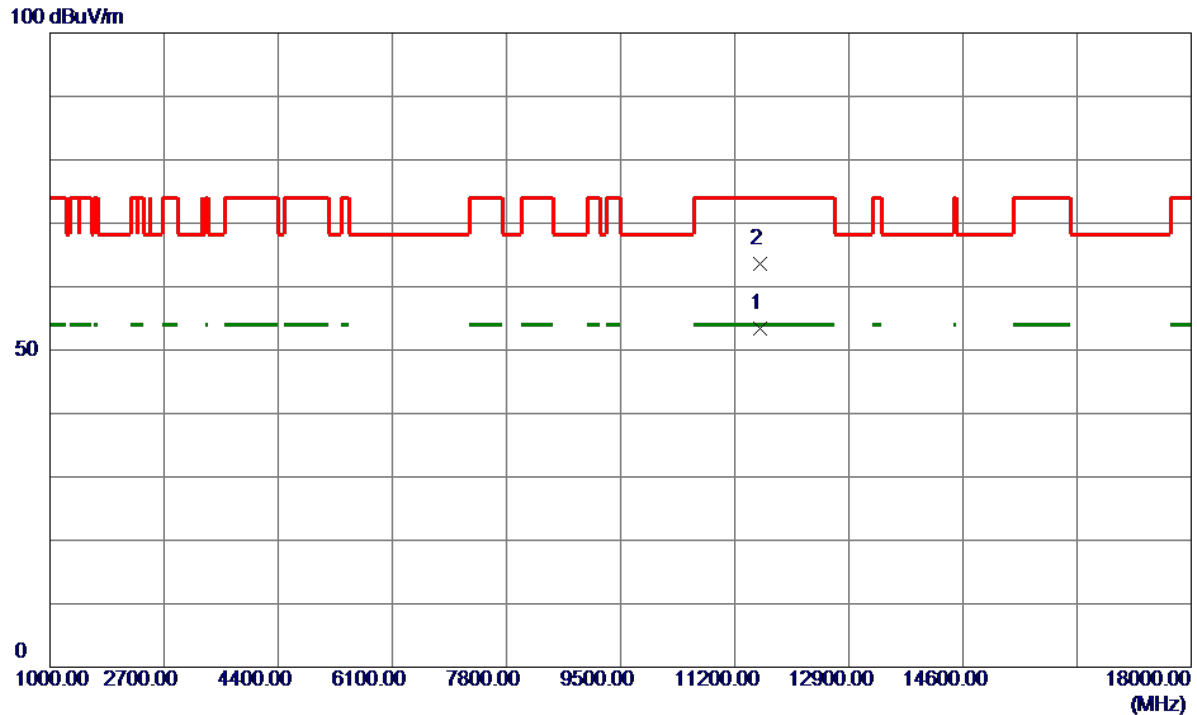


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11492.0500	53.85	9.08	62.93	74.00	-11.07	Peak	
2 *	11492.0500	42.84	9.08	51.92	54.00	-2.08	AVG	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Horizontal
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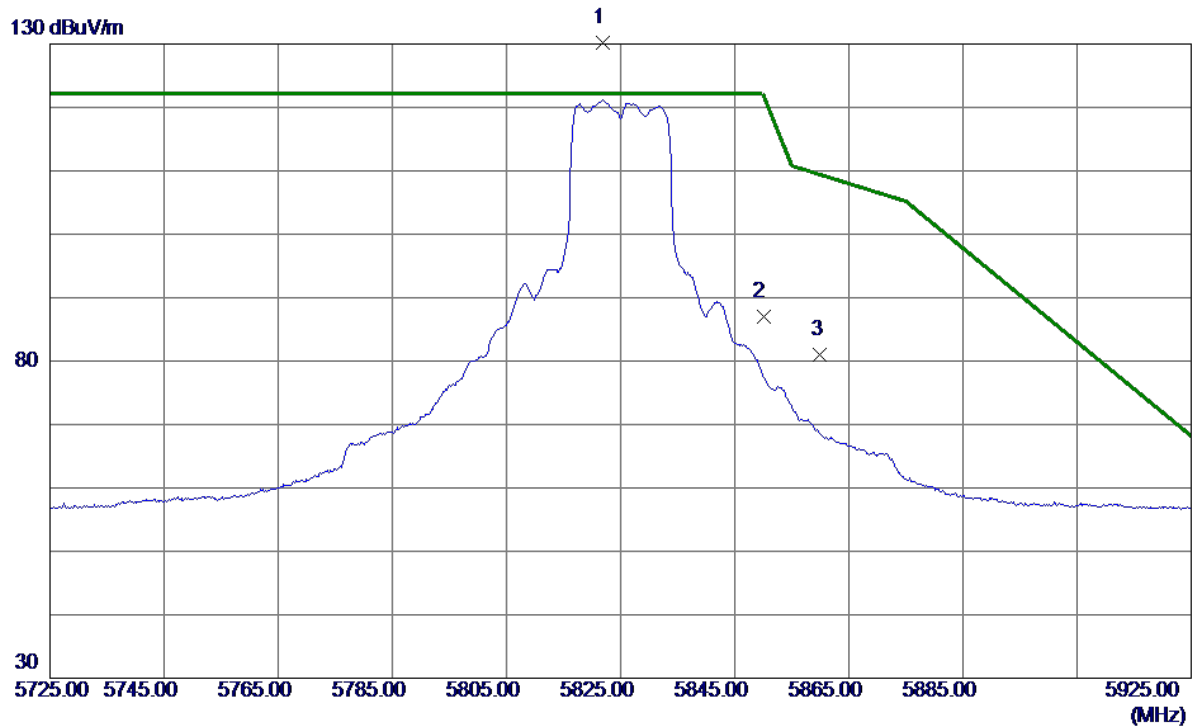
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.4000	44.20	9.20	53.40	54.00	-0.60	AVG	
2	11570.6000	54.44	9.20	63.64	74.00	-10.36	Peak	

REMARKS:

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

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

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Horizontal
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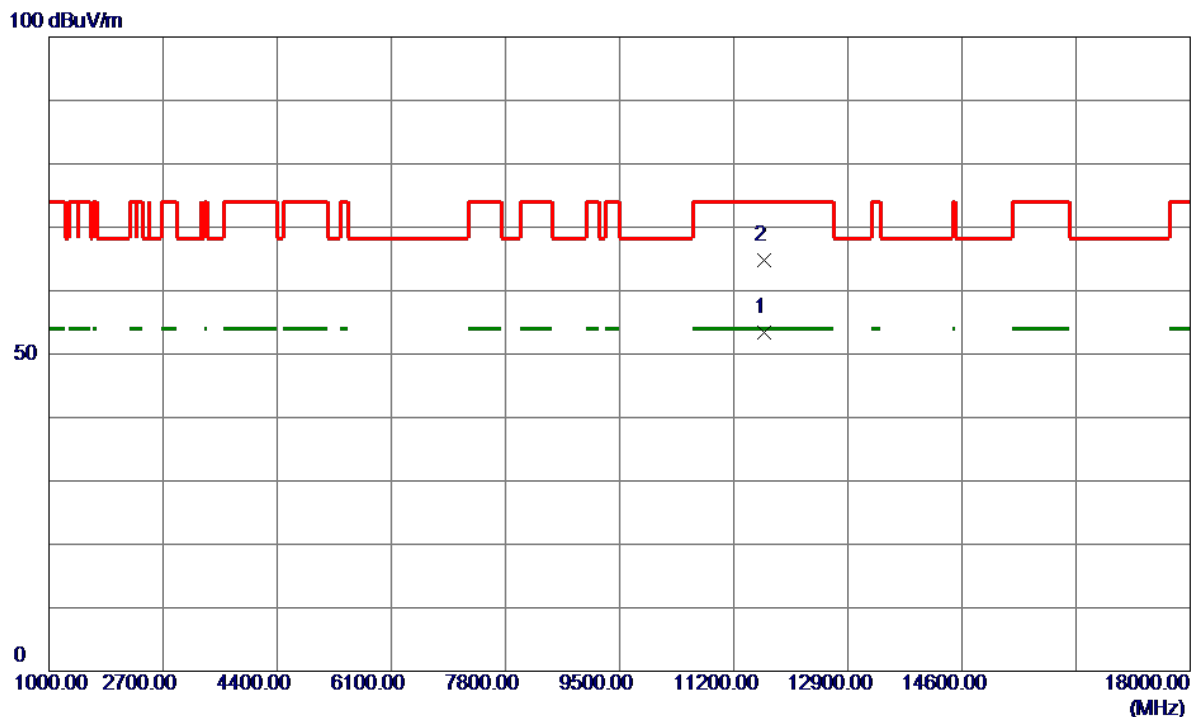
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5821.8000	113.10	17.08	130.18	122.20	7.98	Peak	No Limit
2	5850.0000	69.79	17.18	86.97	122.20	-35.23	Peak	
3	5860.0000	63.85	17.22	81.07	109.40	-28.33	Peak	

REMARKS:

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

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

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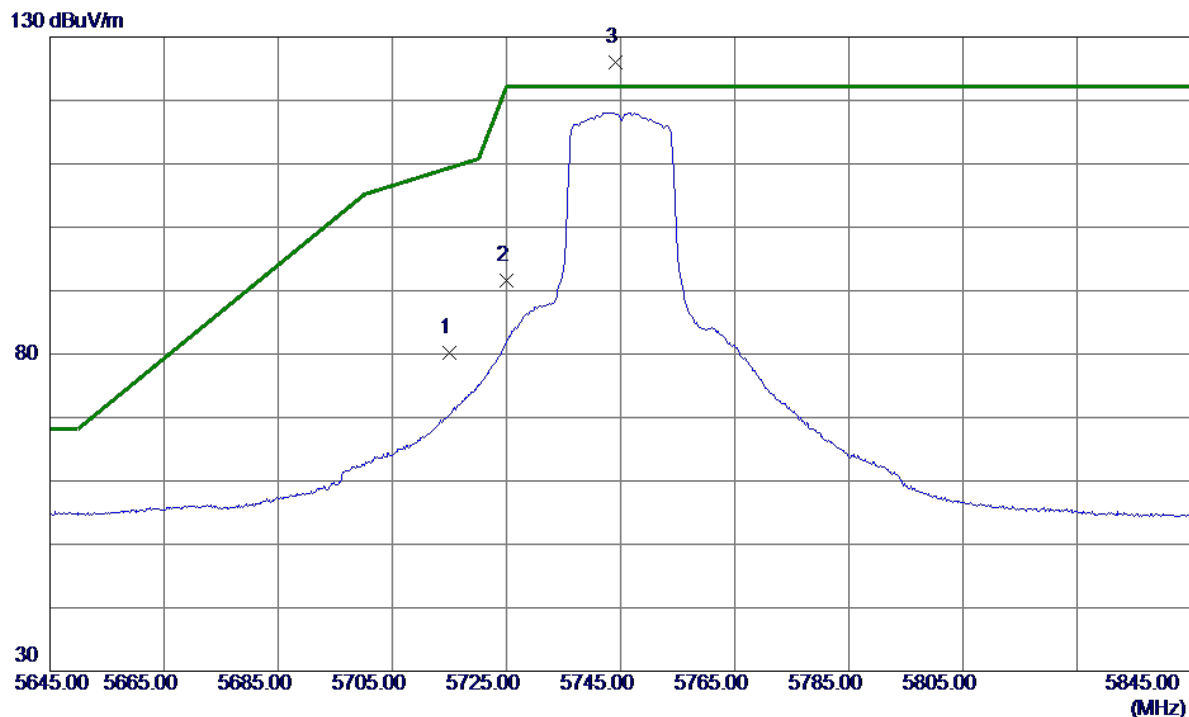


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.6000	44.12	9.35	53.47	54.00	-0.53	AVG	
2	11650.7000	55.37	9.35	64.72	74.00	-9.28	Peak	

REMARKS:

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

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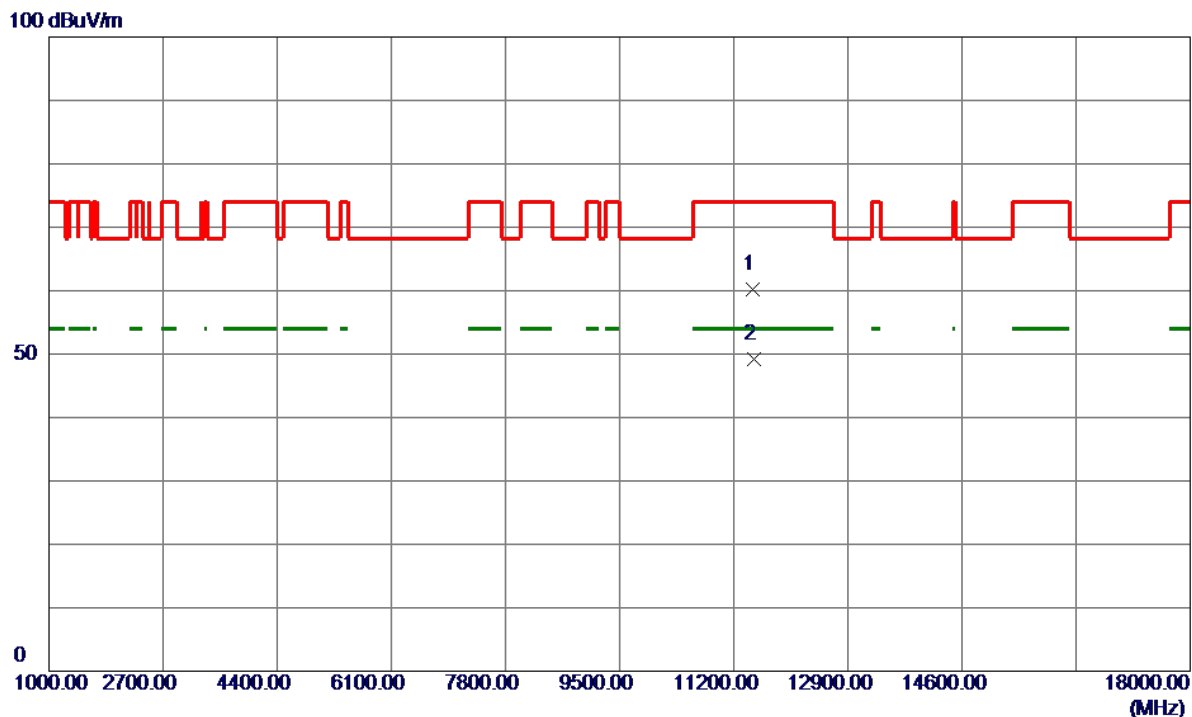


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	63.57	16.69	80.26	109.40	-29.14	Peak	
2	5725.0000	74.83	16.72	91.55	122.20	-30.65	Peak	
3 *	5744.2000	109.15	16.79	125.94	122.20	3.74	Peak	No Limit

REMARKS:

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

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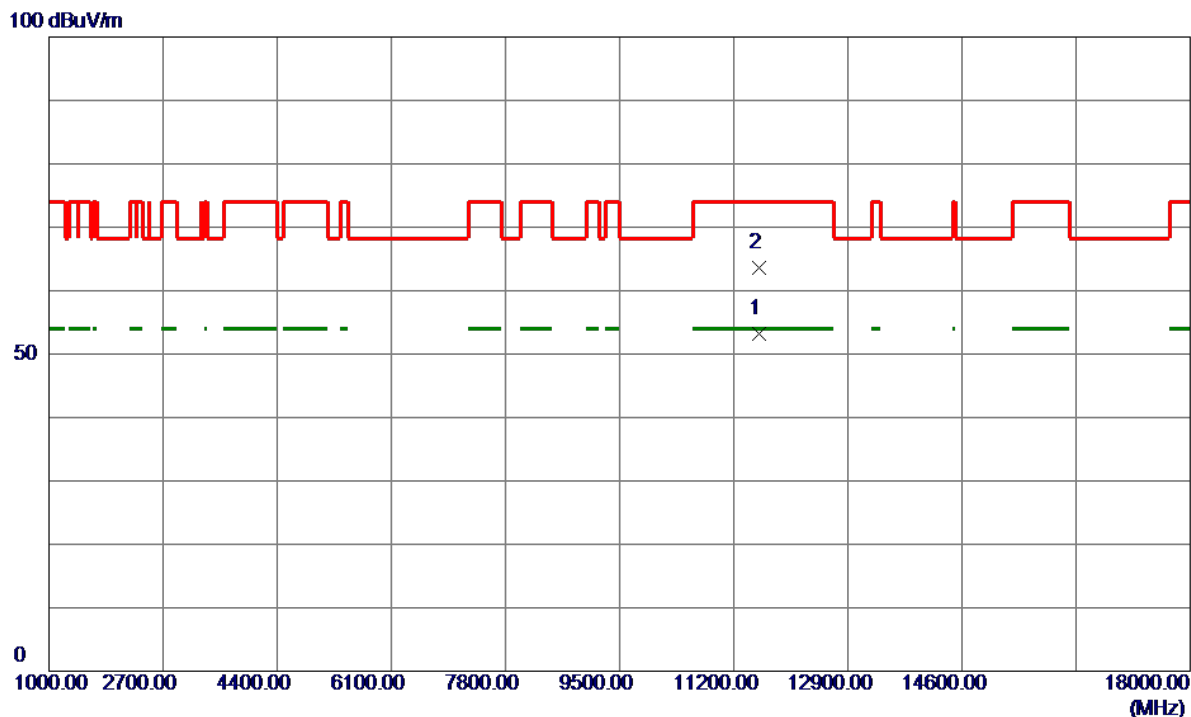


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11486.1500	51.15	9.09	60.24	74.00	-13.76	Peak	
2 *	11493.7000	40.12	9.08	49.20	54.00	-4.80	AVG	

REMARKS:

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

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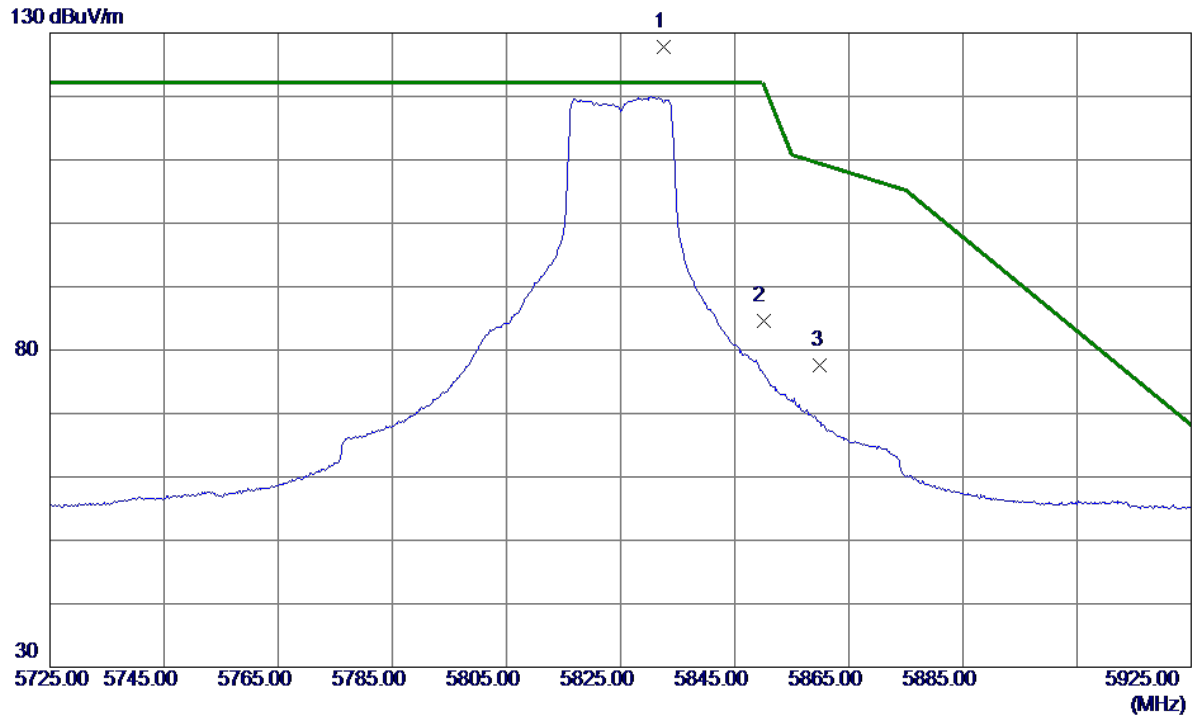


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11573.1000	44.08	9.21	53.29	54.00	-0.71	AVG	
2	11574.7000	54.44	9.21	63.65	74.00	-10.35	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal
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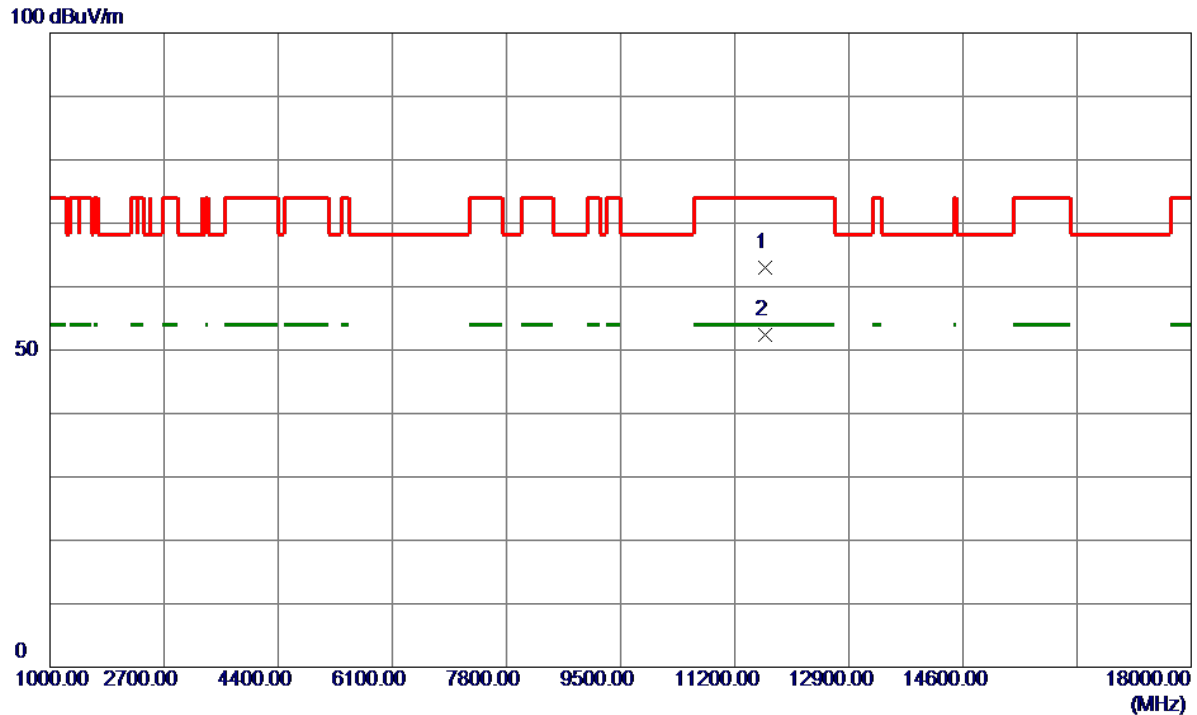
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5832.6000	110.76	17.12	127.88	122.20	5.68	Peak	No Limit
2	5850.0000	67.34	17.18	84.52	122.20	-37.68	Peak	
3	5860.0000	60.36	17.22	77.58	109.40	-31.82	Peak	

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal
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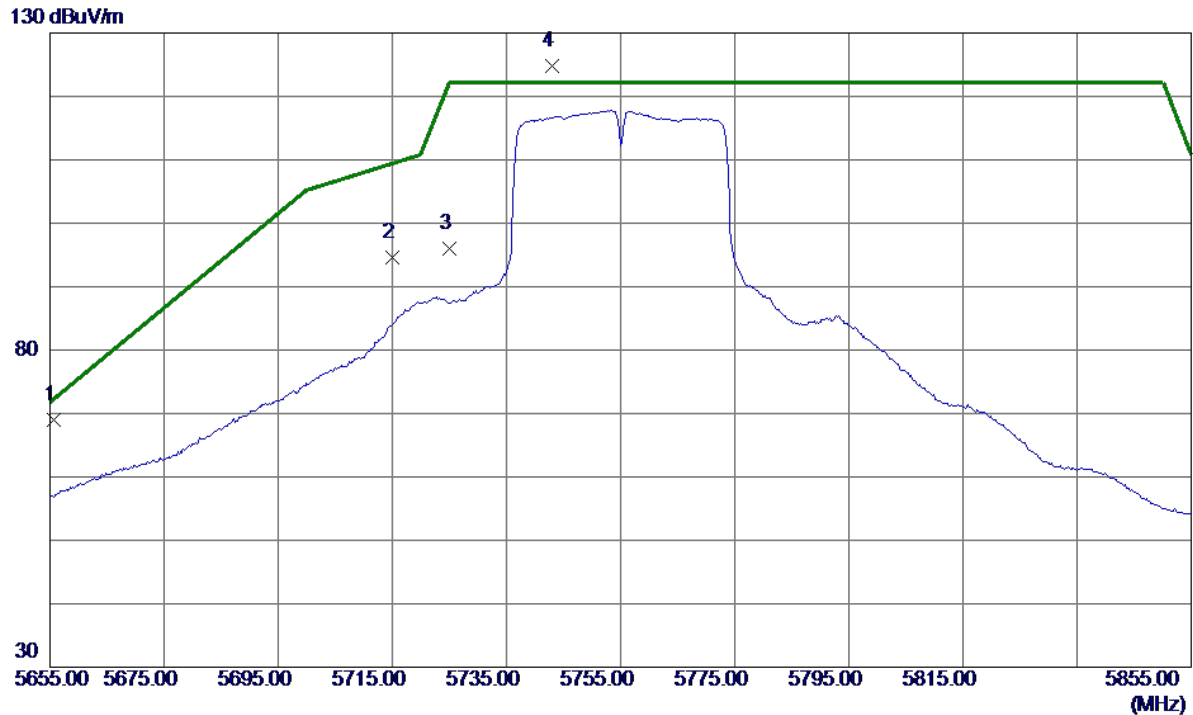
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11652.9000	53.69	9.36	63.05	74.00	-10.95	Peak	
2 *	11653.2000	43.10	9.36	52.46	54.00	-1.54	AVG	

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal
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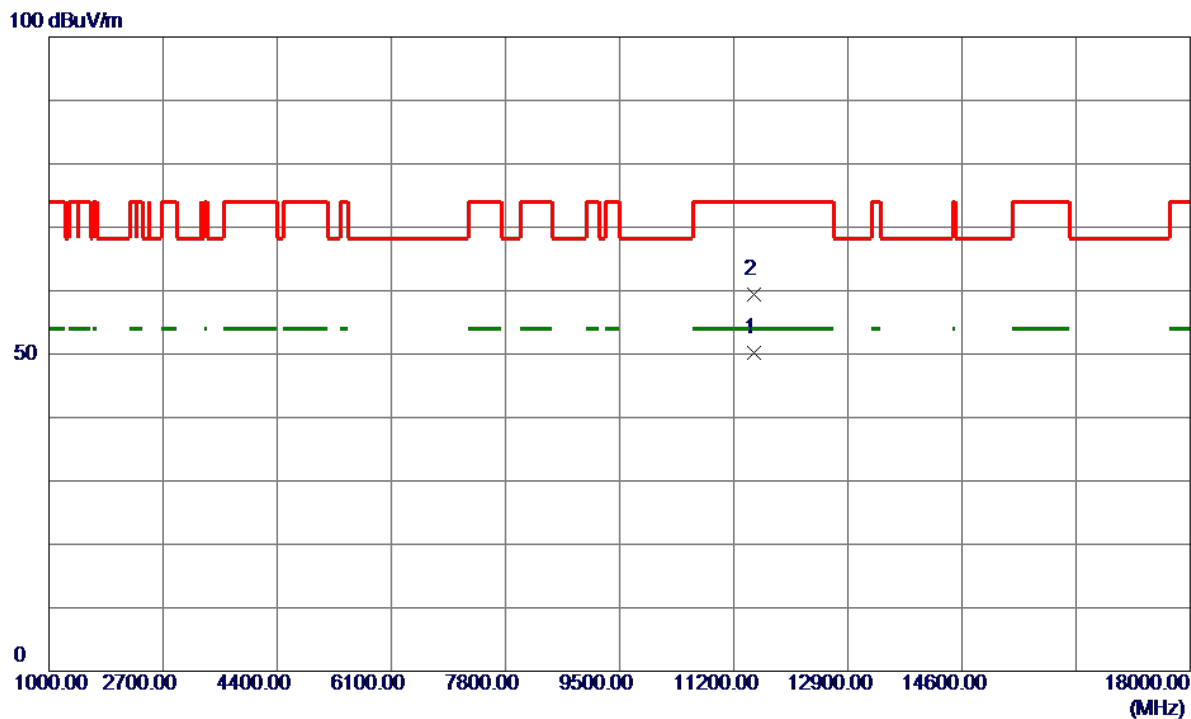
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5655.6000	52.46	16.47	68.93	72.34	-3.41	Peak	
2	5715.0000	77.84	16.69	94.53	109.40	-14.87	Peak	
3	5725.0000	79.33	16.72	96.05	122.20	-26.15	Peak	
4 *	5743.0000	107.96	16.79	124.75	122.20	2.55	Peak	No Limit

REMARKS:

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

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

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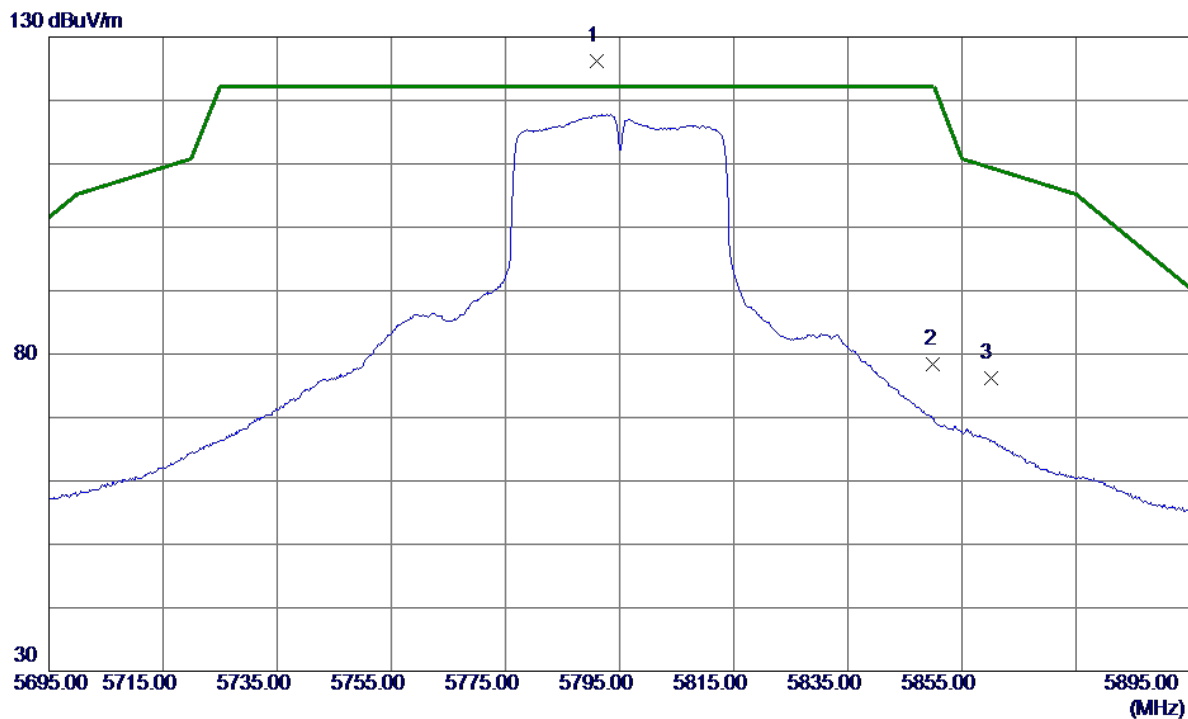


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11510.3200	41.15	9.09	50.24	54.00	-3.76	AVG	
2	11511.5199	50.38	9.09	59.47	74.00	-14.53	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Horizontal
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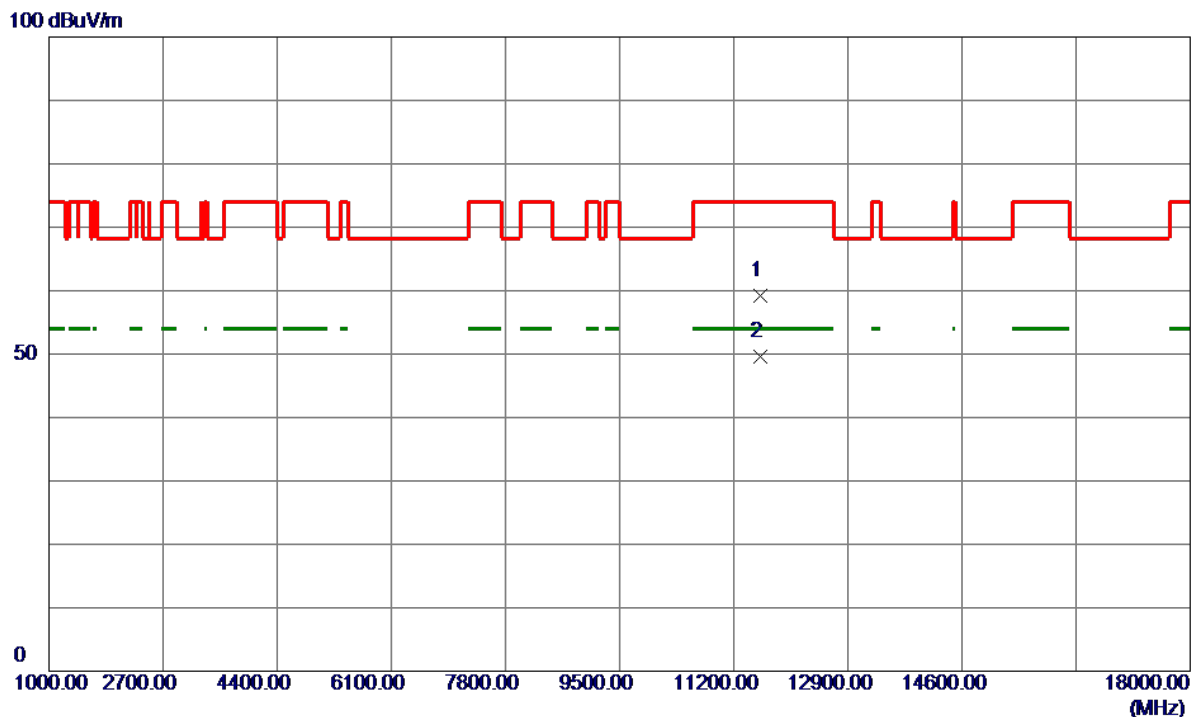
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5791.0000	109.20	16.97	126.17	122.20	3.97	Peak	No Limit
2	5850.0000	61.27	17.18	78.45	122.20	-43.75	Peak	
3	5860.0000	59.06	17.22	76.28	109.40	-33.12	Peak	

REMARKS:

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

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

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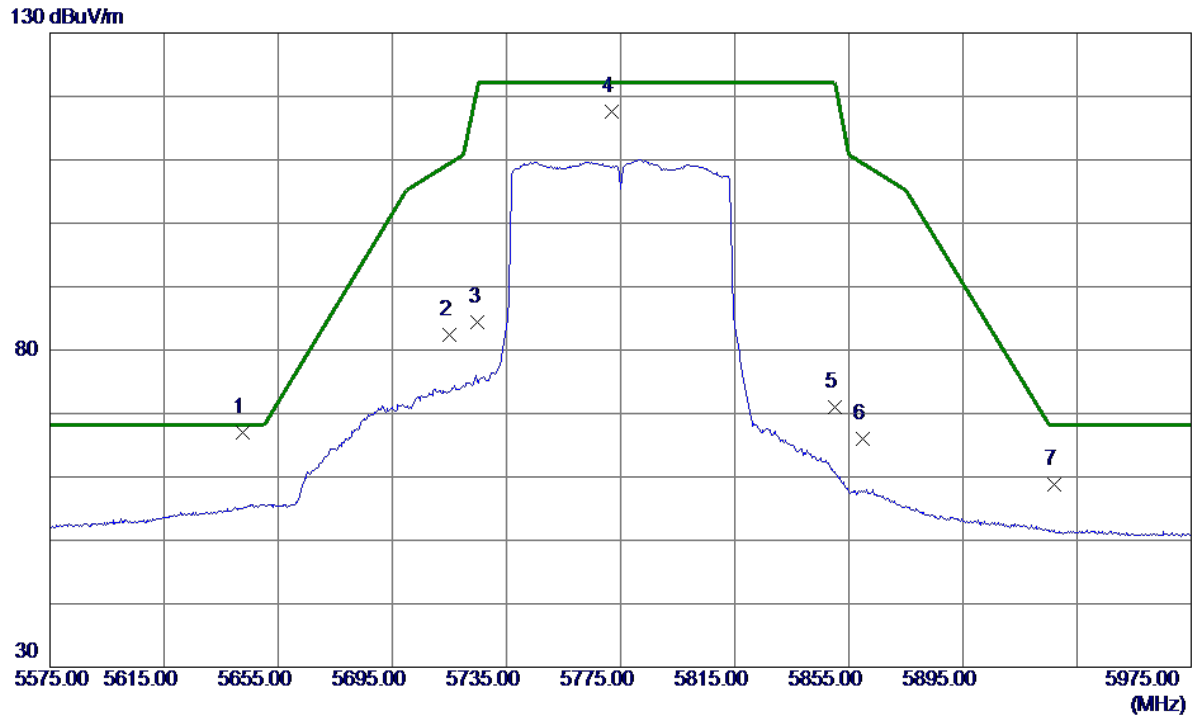


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11589.4400	49.94	9.24	59.18	74.00	-14.82	Peak	
2 *	11590.1600	40.29	9.24	49.53	54.00	-4.47	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Horizontal
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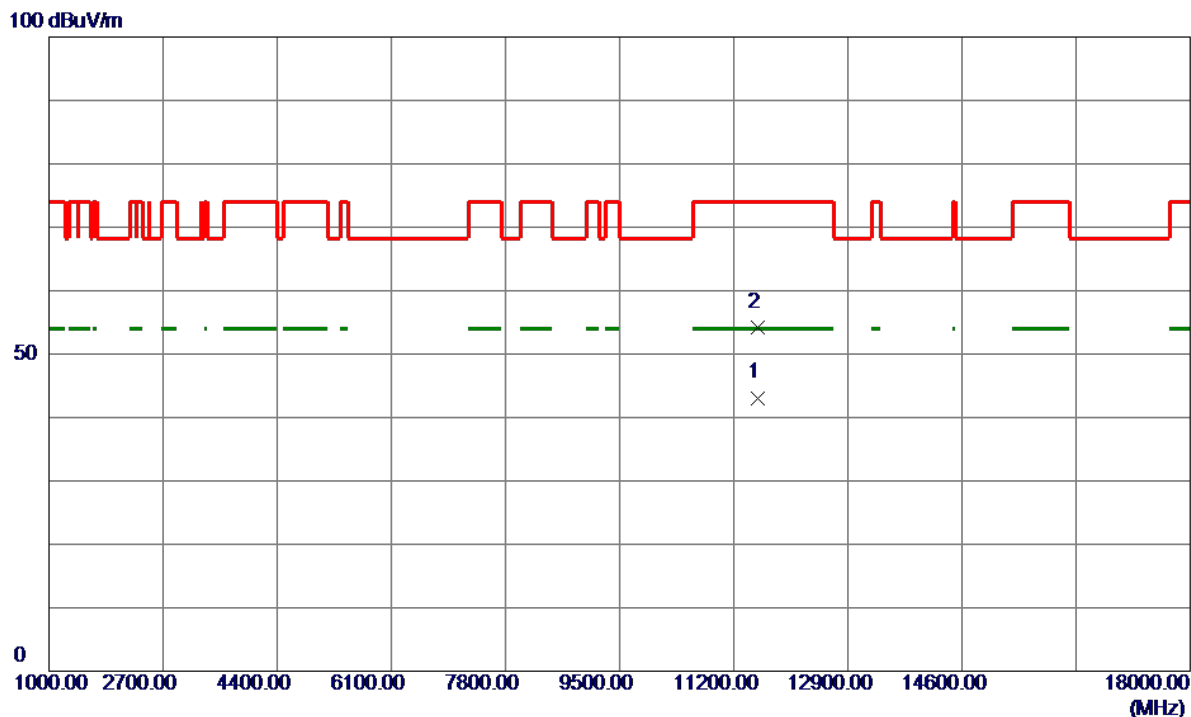
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5642.6000	50.65	16.42	67.07	68.20	-1.13	Peak	
2	5715.0000	65.70	16.69	82.39	109.40	-27.01	Peak	
3	5725.0000	67.63	16.72	84.35	122.20	-37.85	Peak	
4	5771.8000	100.61	16.90	117.51	122.20	-4.69	Peak	No Limit
5	5850.0000	53.79	17.18	70.97	122.20	-51.23	Peak	
6	5860.0000	48.72	17.22	65.94	109.40	-43.46	Peak	
7	5927.0000	41.42	17.47	58.89	68.20	-9.31	Peak	

REMARKS:

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

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

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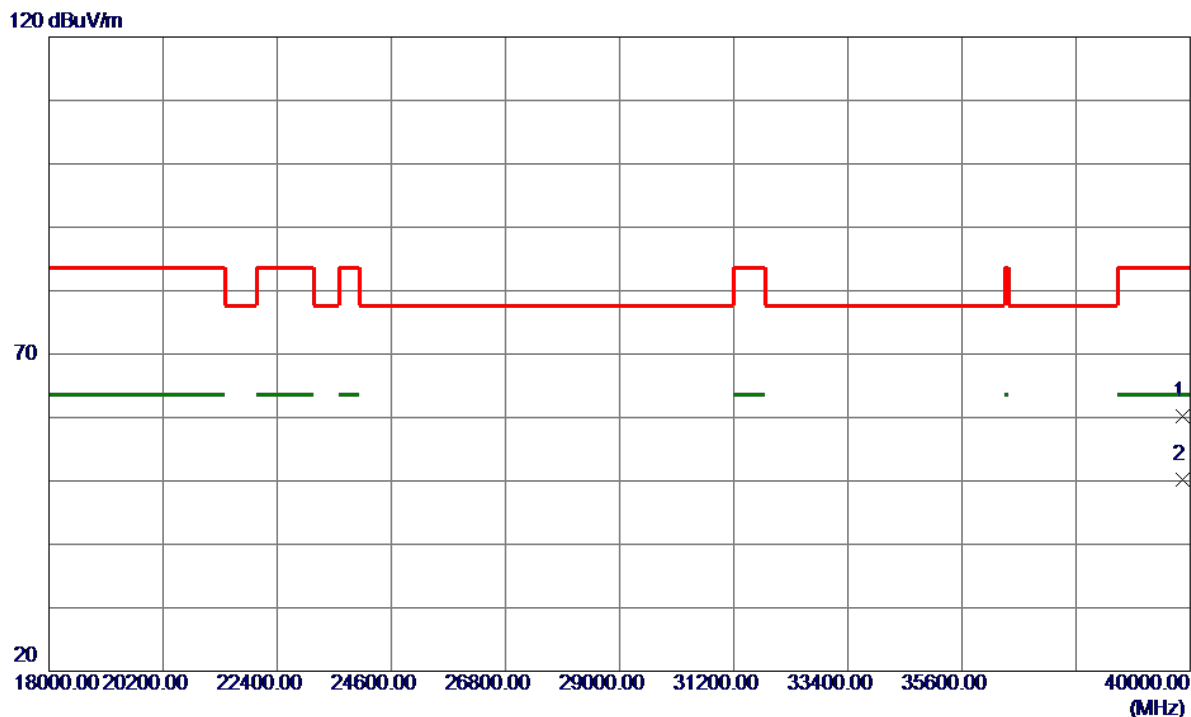


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11550.5599	33.93	9.17	43.10	54.00	-10.90	AVG	
2	11566.6400	45.07	9.20	54.27	74.00	-19.73	Peak	

REMARKS:

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

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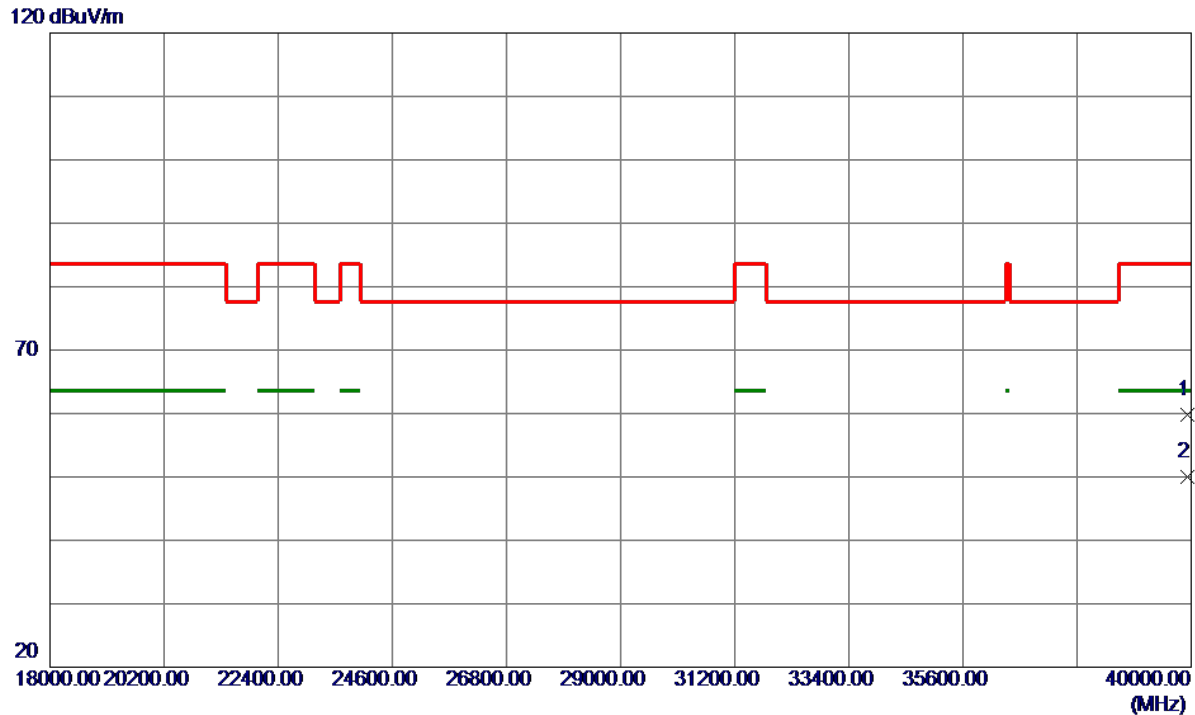


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	39846.0000	49.64	10.51	60.15	83.50	-23.35	Peak	
2 *	39846.0000	39.77	10.51	50.28	63.50	-13.22	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	39923.0000	49.28	10.55	59.83	83.50	-23.67	Peak	
2 *	39923.0000	39.48	10.55	50.03	63.50	-13.47	AVG	

REMARKS:

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

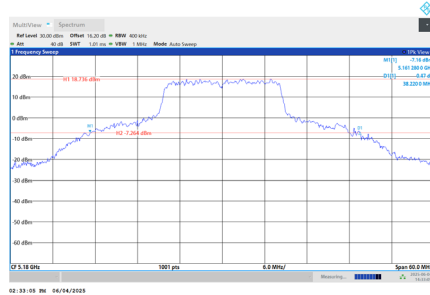
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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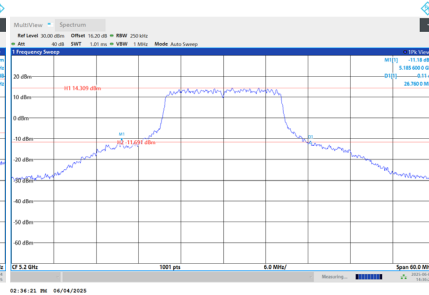
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	38.220	21.067
40	5200	26.760	16.808
48	5240	22.920	16.785

CH36



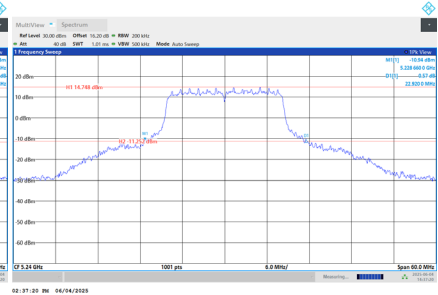
02:33:08 PM 04/04/2020

CH40
26 dB Bandwidth



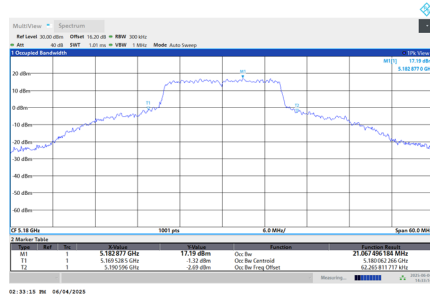
02:34:21 PM 04/04/2020

CH48

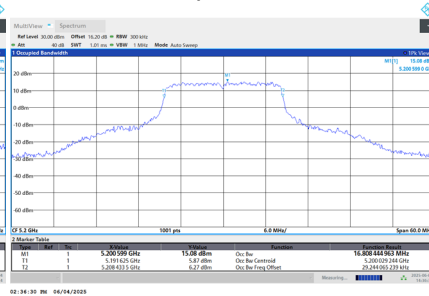


02:37:20 PM 04/04/2020

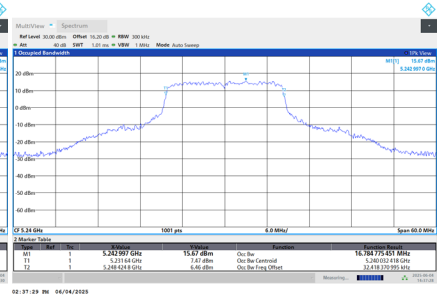
99 % Occupied Bandwidth



02:33:15 PM 04/04/2020



02:34:30 PM 04/04/2020



02:37:29 PM 04/04/2020

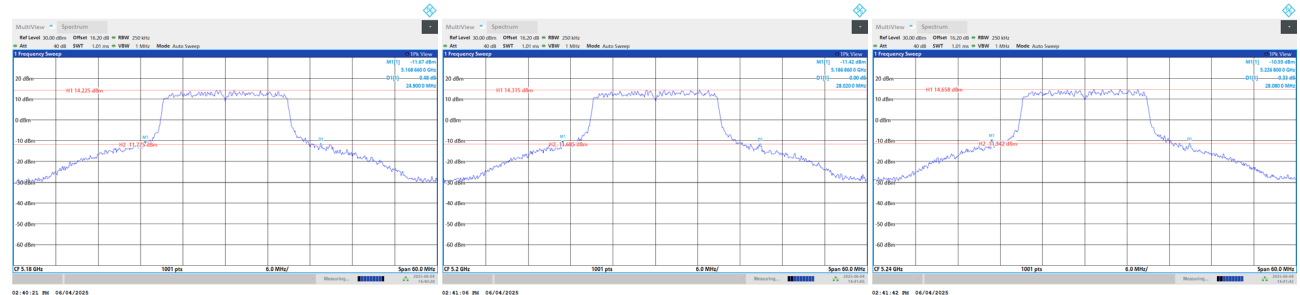
Test Mode	UNII-1_TX AC(VHT20) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	24.900	17.844
40	5200	28.020	17.894
48	5240	28.080	17.911

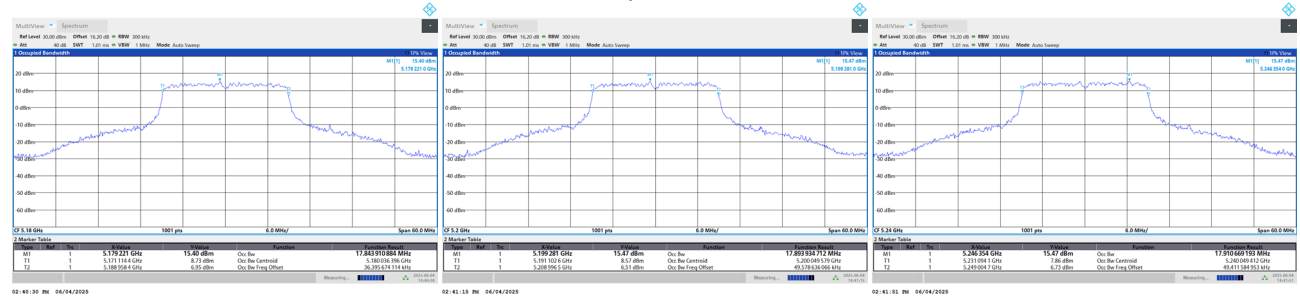
CH36

CH40
26 dB Bandwidth

CH48



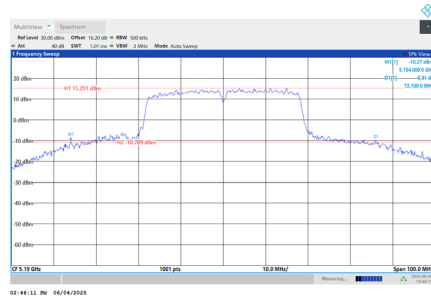
99 % Occupied Bandwidth



Test Mode	UNII-1_TX AC(VHT40) Mode
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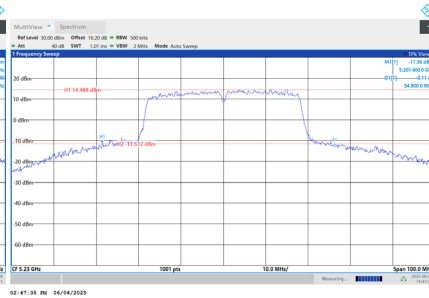
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	72.100	36.781
46	5230	54.900	36.499

CH38



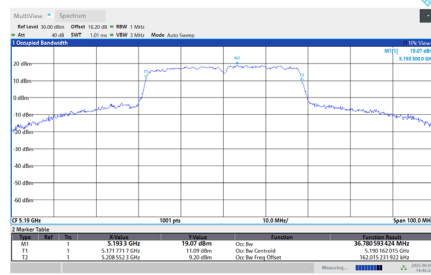
02:44:11 PM 04/04/2020

CH46
26 dB Bandwidth

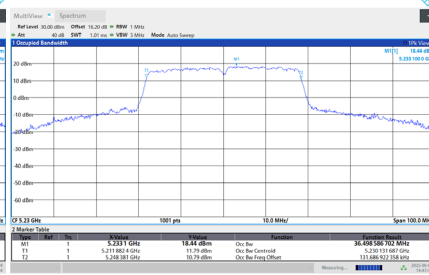


02:47:35 PM 04/04/2020

99 % Occupied Bandwidth



02:44:21 PM 04/04/2020

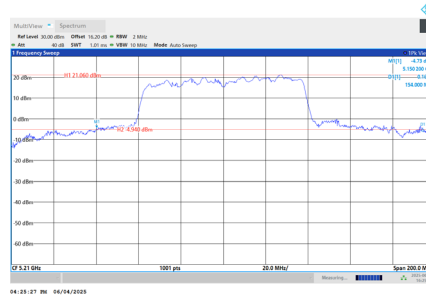


02:47:44 PM 04/04/2020

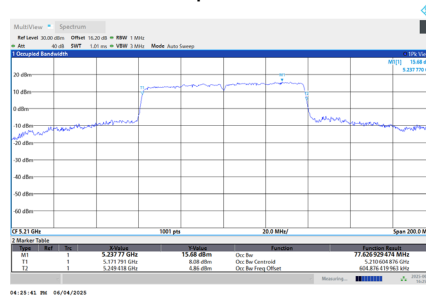
Test Mode	UNII-1_TX AC(VHT80) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	154.000	77.627

CH42 26 dB Bandwidth



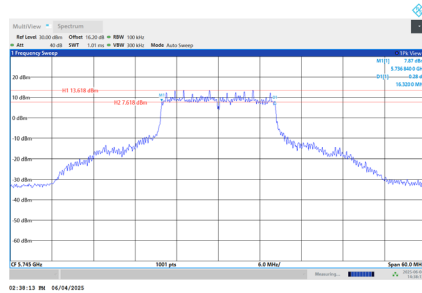
99 % Occupied Bandwidth



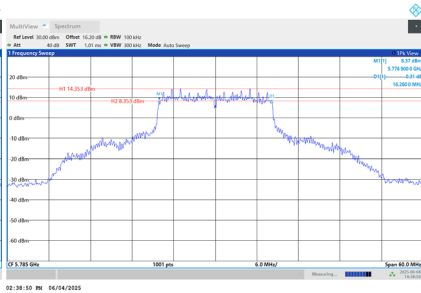
Test Mode	UNII-3_TX A Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	16.320	17.062	0.5	Pass
157	5785	16.260	18.900	0.5	Pass
165	5825	16.320	20.141	0.5	Pass

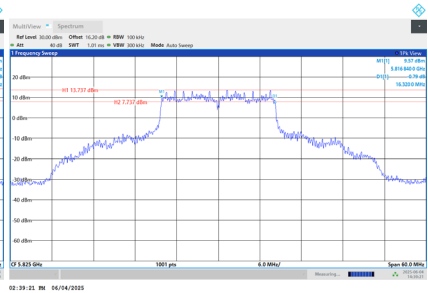
CH149



CH157
6 dB Bandwidth



CH165



99 % Occupied Bandwidth

