



Certificate #7130.01

FCC Radio Test Report

FCC ID: 2BH7FER605WV2

This report concerns: Original Grant

Project No. : 2502G005
Equipment : AC1200 Gigabit VPN Gateway
Brand Name : tp-link
Test Model : ER605W
Series Model : N/A
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 : Feb. 12, 2025
Date of Test : Feb. 14, 2025 ~ Jun. 10, 2025 & Sep. 11, 2025
Issued Date : Sep. 16, 2025
Test Sample : Engineering Sample No.: SSL2025021245 for power and conducted, SSL2025021244 for AC Power Line conducted, SSL2025021244 and DG20250401290 for radiated.
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).

Prepared by

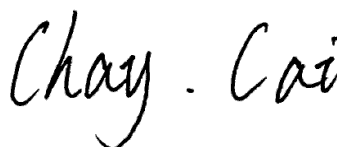
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Declaration

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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 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
6.2 TEST PROCEDURE	23

Table of Contents	Page
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-2-2502G005	R00	Original Report.	Jun. 24, 2025	Invalid
BTL-FCCP-2-2502G005	R01	It is a revision of the report BTL-FCCP-2-2502G005 R00, with the following revisions: a. Revision the 99 % Occupied Bandwidth (page 83-90). This is a newly released report, replacing the BTL-FCCP-2-2502G005 R00 report.	Sep. 16, 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

1#For radiated 1GHz to 18GHz: Room 102 & 702, Building A3, No.9, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

2#For others: 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-CB18 (3m)	CISPR	1GHz ~ 6GHz	4.48
		6GHz ~ 18GHz	3.88

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	22°C	55%	AC 120V/60Hz	Hayden Chen	Apr. 18, 2025
Radiated Emissions -9kHz to 30MHz	25°C	63%	AC 120V/60Hz	Hayden Chen	Apr. 29, 2025
Radiated Emissions -30MHz to 1000MHz	23°C	42%	AC 120V/60Hz	Chen Mo	Apr. 14, 2025
Radiated Emissions -Above 1000 MHz	23°C	42%	AC 120V/60Hz	Chen Mo	Apr. 14, 2025
	23°C	47%	AC 120V/60Hz	Allen Tong	Apr. 22, 2025
	23°C	48%	AC 120V/60Hz	Jensen Zhou	May 10, 2025
Bandwidth	24°C	48%	AC 120V/60Hz	Arvin Tong	Apr. 19, 2025
	25°C	49%	AC 120V/60Hz	Arvin Tong	May 09, 2025
	25°C	51%	AC 120V/60Hz	Steve Zhou	Sep. 11, 2025
Maximum Output Power	23-25°C	51-60%	AC 120V/60Hz	Alex Yin	Apr. 18, 2025 ~ May 14, 2025
Power Spectral Density	24°C	48%	AC 120V/60Hz	Arvin Tong	Apr. 19, 2025
	25°C	49%	AC 120V/60Hz	Arvin Tong	May 09, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Gigabit VPN Gateway
Brand Name	tp-link
Test Model	ER605W
Series Model	N/A
Model Difference(s)	N/A
Software Version	V2.0
Hardware Version	V2.0
Power Source	DC Voltage supplied from AC adapter. Model: T120100-2B1
Power Rating	I/P: 100-240V~ 50/60Hz 0.3A O/P: 12V  1A
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 802.11ac(VHT20): 24.79 dBm (0.3013 W)
Maximum Output Power UNII-3	IEEE 802.11ac(VHT20): 28.02 dBm (0.6335 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:

Antenna P/N		3101504478	3101507461
Antenna Manufacturer		TP-Link Systems Inc.	
Ant. Type		Dipole	
Ant. Connector		N/A	
Antenna No.		1	2
5G Wifi	5150~5250MHz	2.20	2.21
	5725~5850MHz	2.83	1.59
Beamforming Gain		3	

Note:

- This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$. For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the UNII-1 Directional gain=2.21, the UNII-3 Directional gain=2.83.
For power spectral density measurements, Directional gain(each angle)

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{ dB}$$
For the UNII-1 Directional gain(each angle) = $10 \log[(10^{2.2/20} + 10^{1.8/20})^2 / 2] = 5.01$.
For the UNII-3 Directional gain(each angle) = $10 \log[(10^{2.83/20} + 10^{0.98/20})^2 / 2] = 4.962$.
- Beamforming Gain: 3 dB. So the UNII-1 Directional gain=2.21+3=5.51, the UNII-3 Directional gain=2.83+3=5.83.

4. Table for Antenna Configuration:

For Non Beamforming:

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)

For Beamforming:

Operating Mode	TX Mode	2TX
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(VHT20) Mode Channel 149(UNII-3)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 9	TX AC(VHT20) Mode Channel 149(UNII-3)

Radiated Emissions Test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 9	TX AC(VHT20) Mode Channel 149(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(VHT20) Mode Channel 149(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) 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.
- (4) For radiated emission Harmonic 18-40GHz test, only tested the worst case and recorded.
- (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 Beamforming operation, the manufacturer automatically reduces power based on a factor calculated as the difference between the beamforming directional gain and the CDD directional power gain. Thus, only the CDD mode was evaluated in this report.
- (7) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

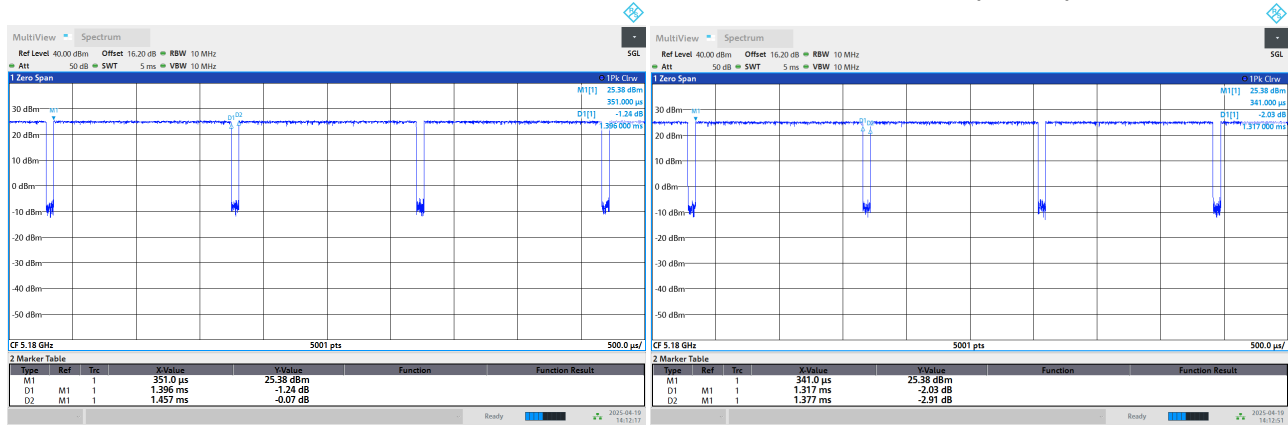
UNII-1			
Test Software Version	QATool_Dbg 0.0.2.8		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	1F	22	27
IEEE 802.11ac(VHT20)	20	28	28
Frequency (MHz)	5190	5230	
IEEE 802.11ac(VHT40)	1C	24	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	18		

UNII-3			
Test Software Version	QATool_Dbg 0.0.2.8		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	2D	30	30
IEEE 802.11ac(VHT20)	30	30	30
Frequency (MHz)	5755	5795	
IEEE 802.11ac(VHT40)	24	2A	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	20		

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.

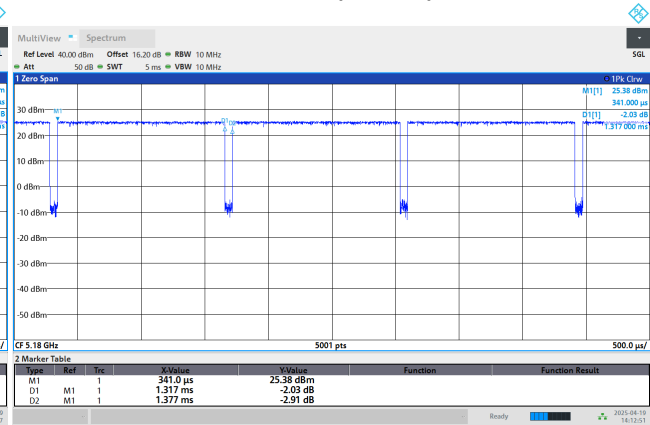
802.11a



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Duty cycle = $1.396 \text{ ms} / 1.457 \text{ ms} = 95.81\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19 \text{ dB}$

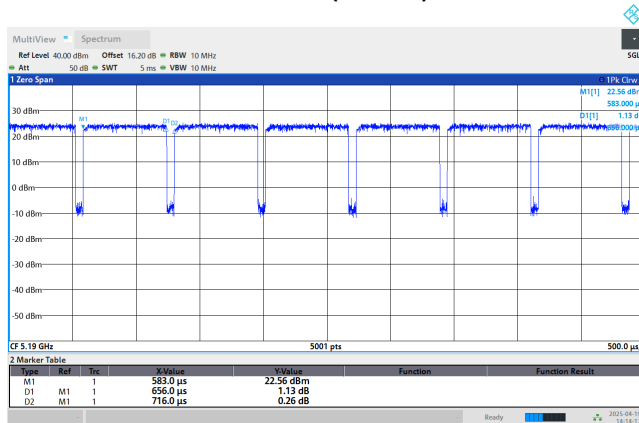
802.11ac(VHT20)



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Duty cycle = $1.317 \text{ ms} / 1.377 \text{ ms} = 95.64\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.19 \text{ dB}$

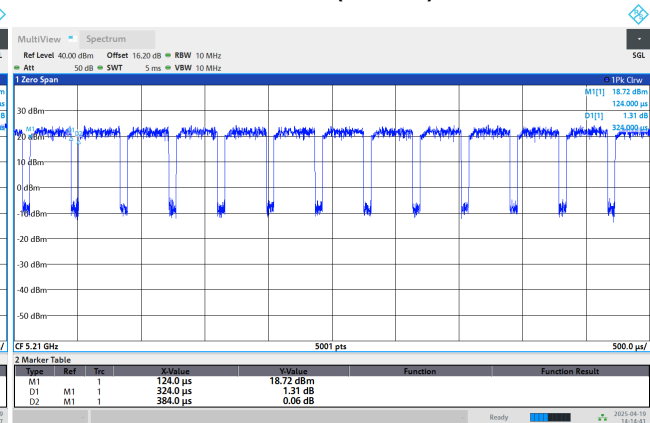
802.11ac(VHT40)



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Duty cycle = $0.656 \text{ ms} / 0.716 \text{ ms} = 91.62\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.38 \text{ dB}$

802.11ac(VHT80)



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Duty cycle = $0.324 \text{ ms} / 0.384 \text{ ms} = 84.38\%$
Duty Factor = $10 \log(1/\text{Duty cycle}) = 0.74 \text{ dB}$

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 716 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 759 Hz (Duty cycle $< 98\%$).

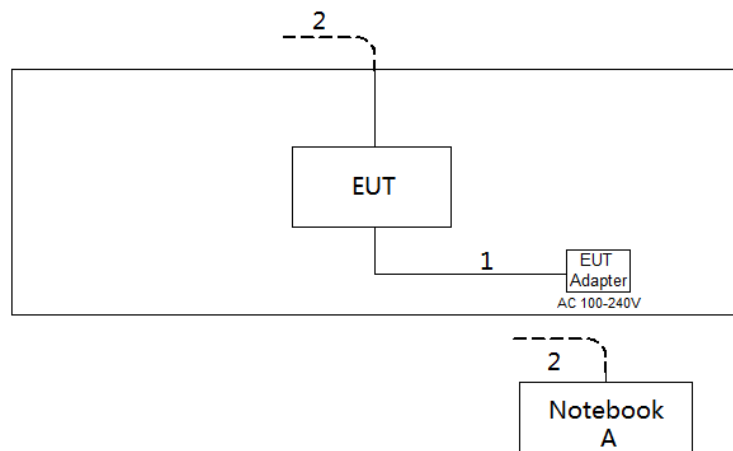
For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1524 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 3086 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	Honor	14SER5 3500	N/A

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

3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are 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 (dBμV)	
	□uasi-peak	Average
0.15 - 0.5	66 □o 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.

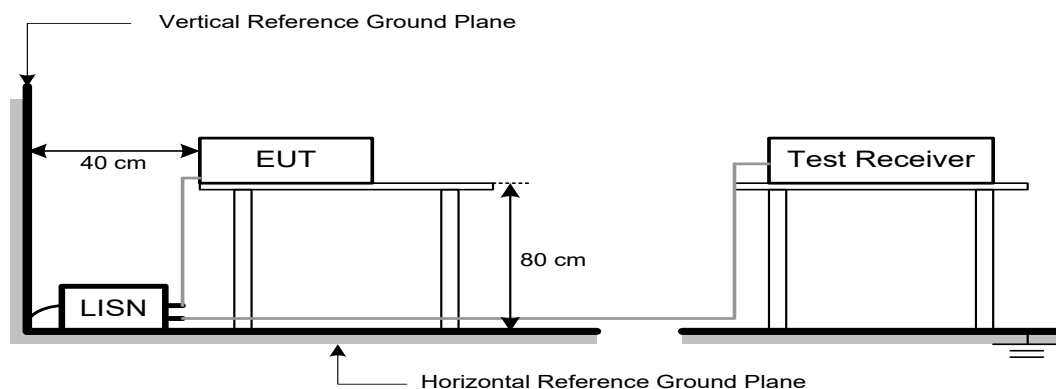
The following table is the setting of the receiver:

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)

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

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

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.

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

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

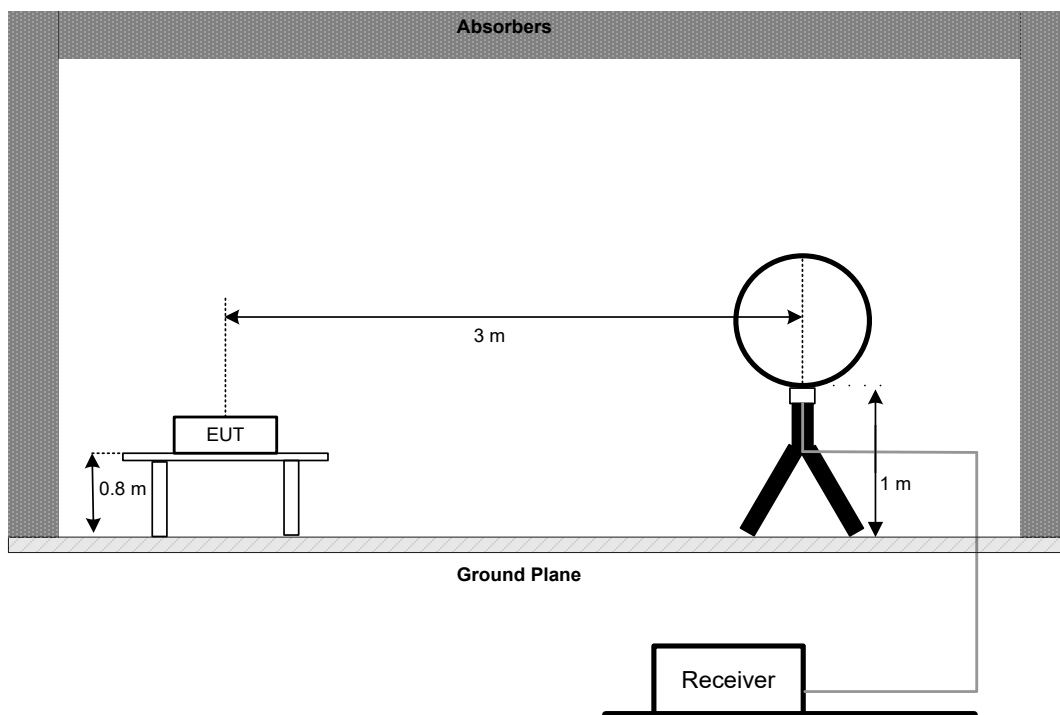
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

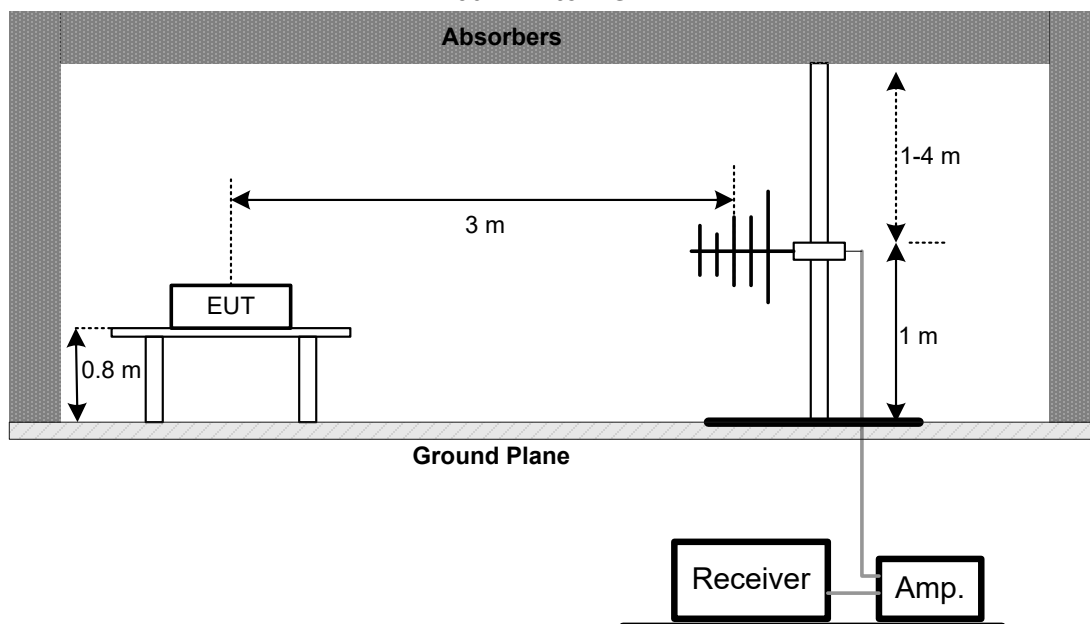
No deviation.

5.4 TEST SETUP

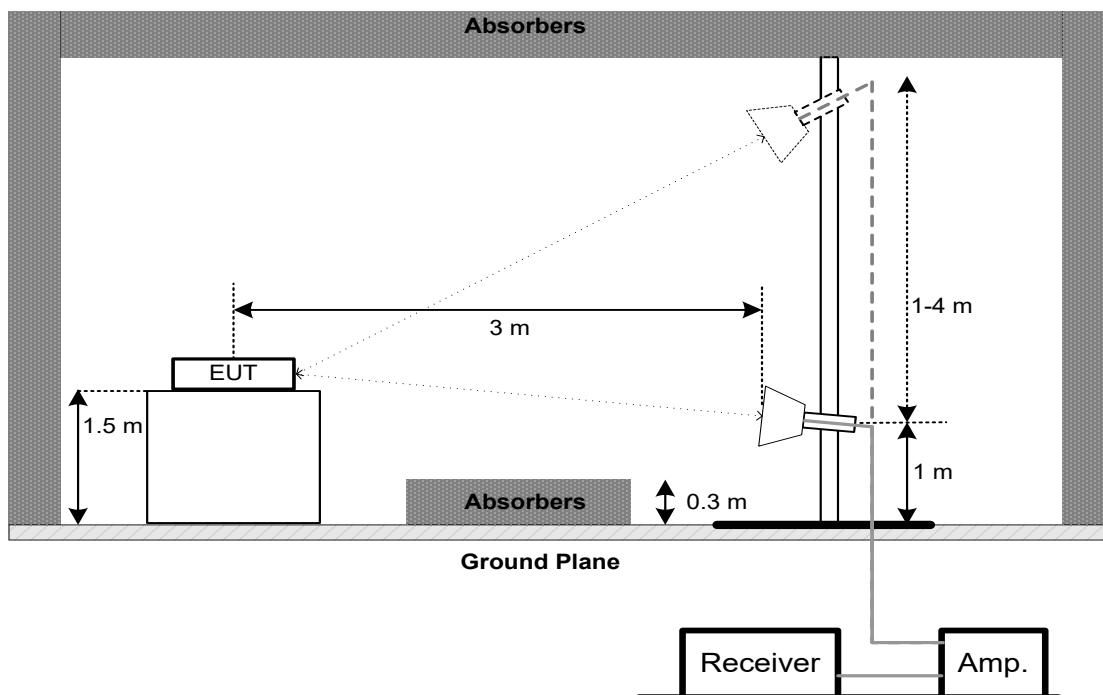
9 kHz to 30 MHz



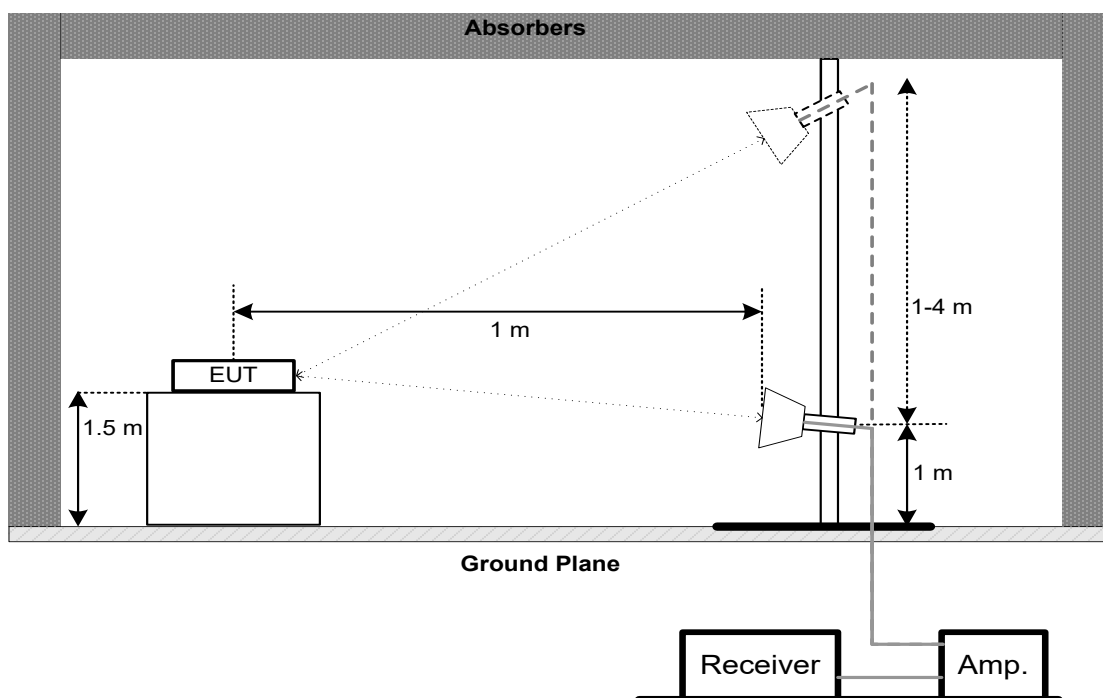
30 MHz to 1 GHz



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:

- 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.

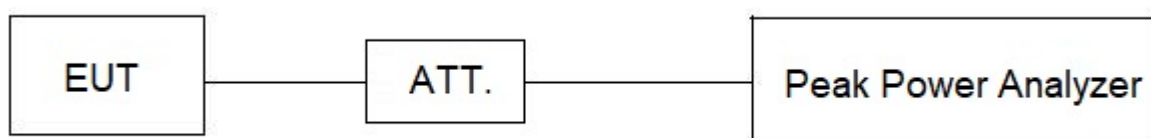
7.2 TEST PROCEDURE

- The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- 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-6m	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 16, 2025

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-3m	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 16, 2025

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	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct. 29, 2025
4	Cable	RegalWay	RWLP50-4.0A-SMS M-1.3M	N/A	Apr. 06, 2026
5	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MRA-3M	N/A	Apr. 06, 2026
6	Cable	RegalWay	RWLP50-4.0A-SMS M-9M	N/A	Apr. 06, 2026
7	966 Chamber room	ETS	RFD-100 (SVSWR)	Q2179	Jan. 07, 2026
8	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 31, 2025
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9969	N/A	Oct. 29, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
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(3m)	9170-319	Jun. 16, 2025
6	966 Chamber room	CM	9*6*6	N/A	Dec. 28, 2025
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 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

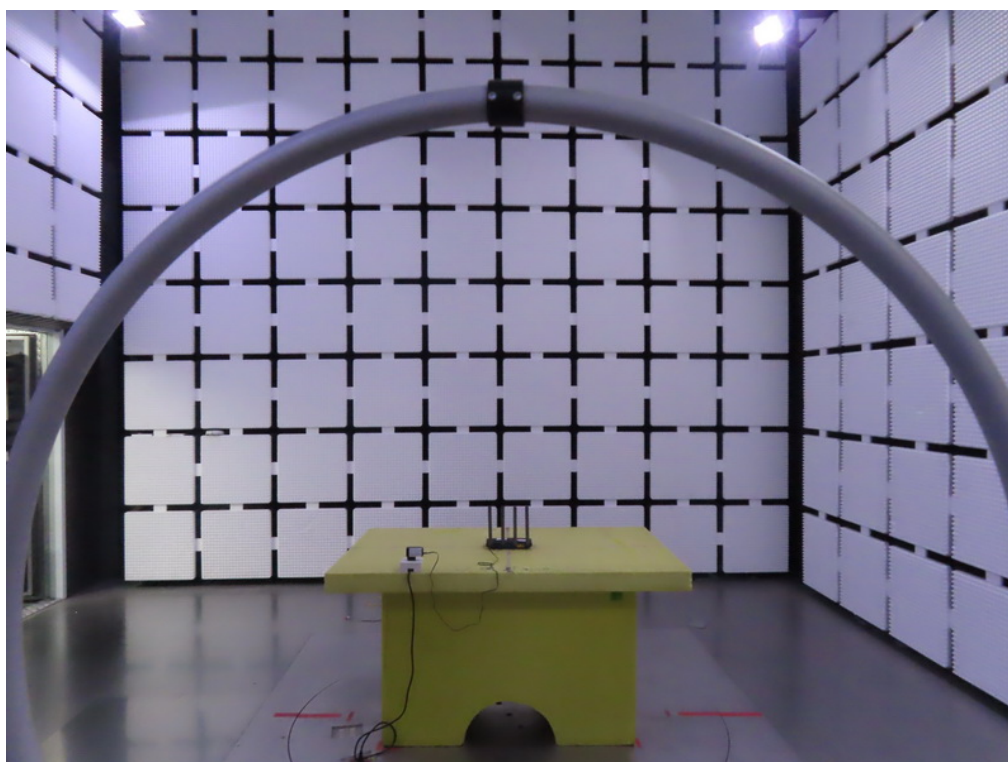
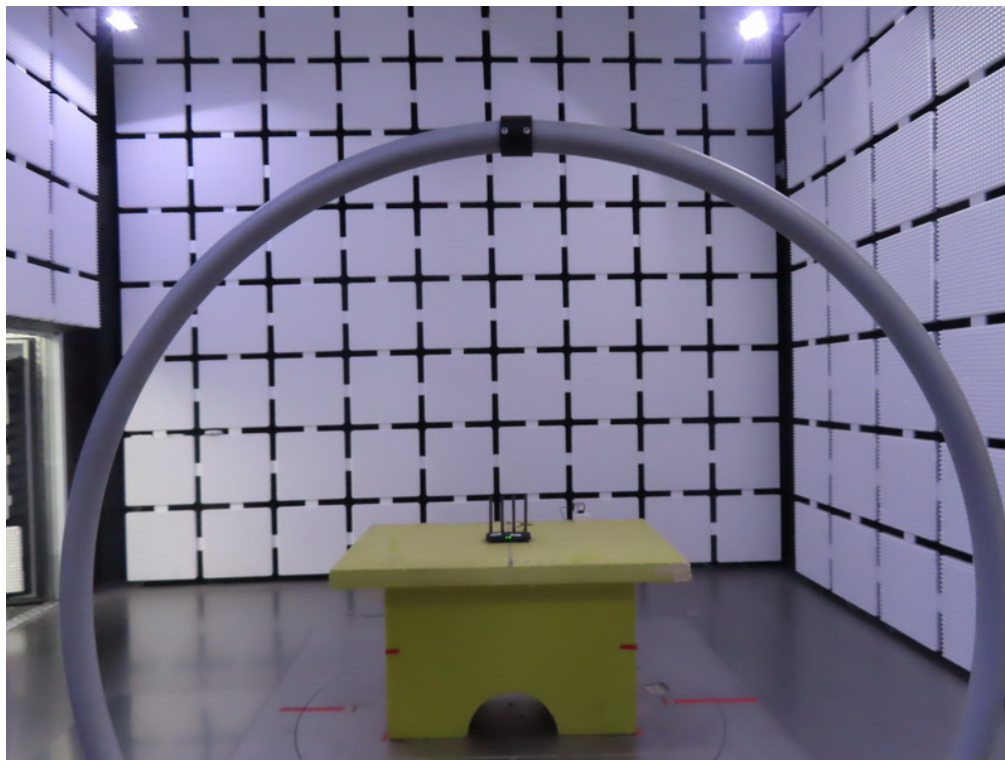
Remark: "N/A" denotes no model name, serial no. or calibration specified.

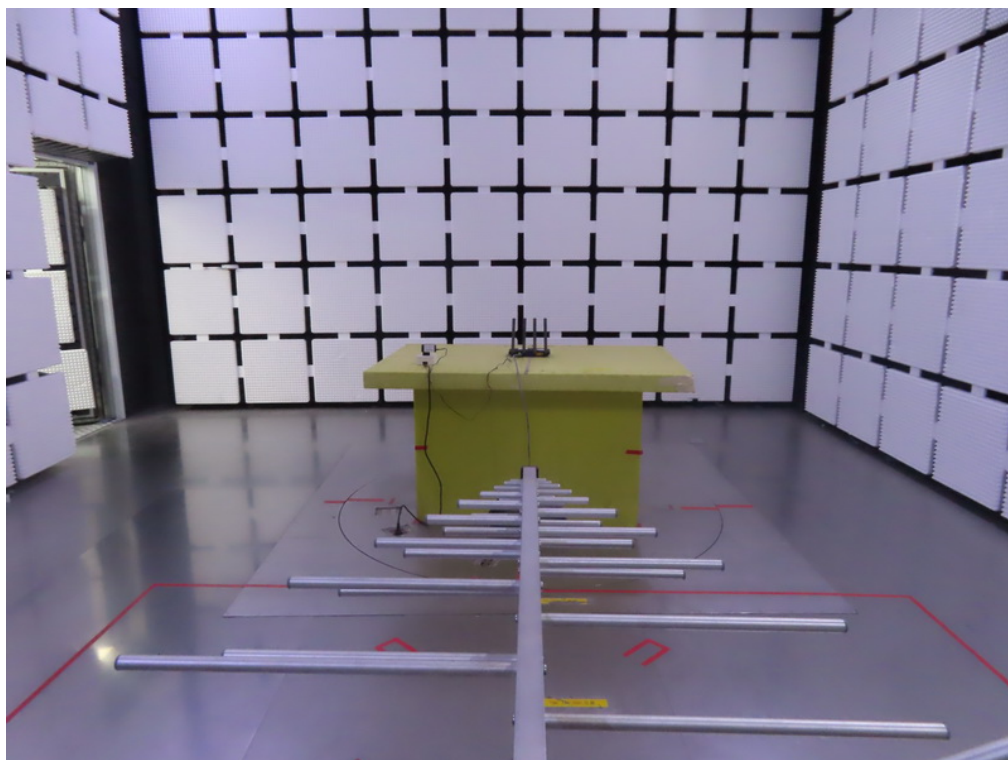
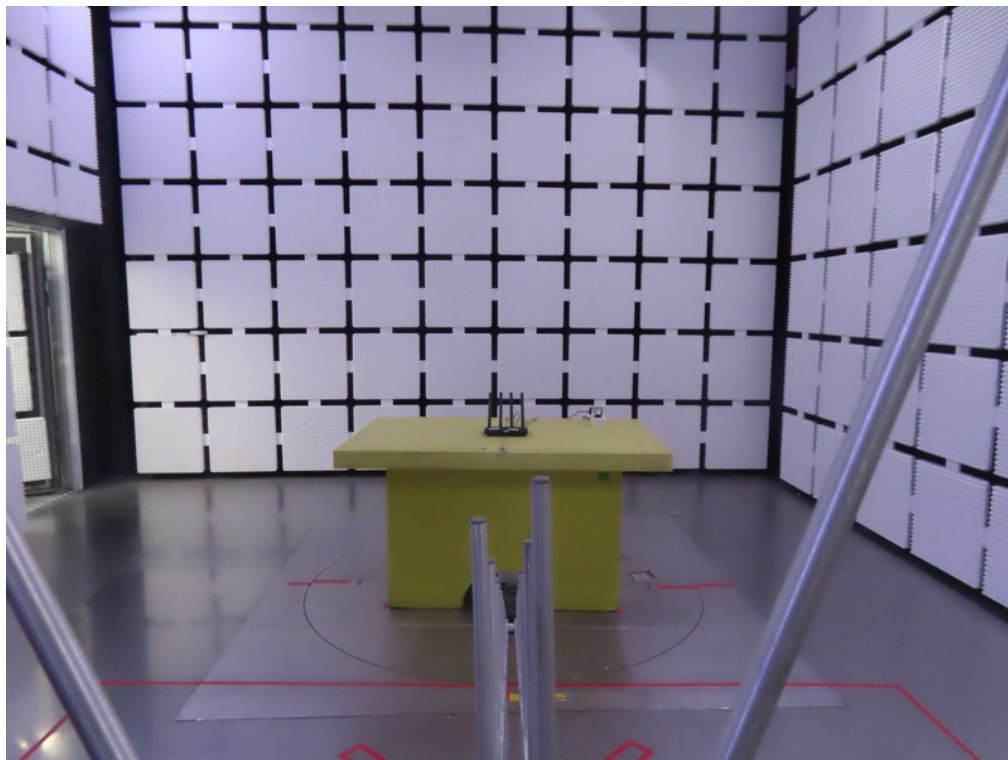
All calibration period of equipment list is one year.

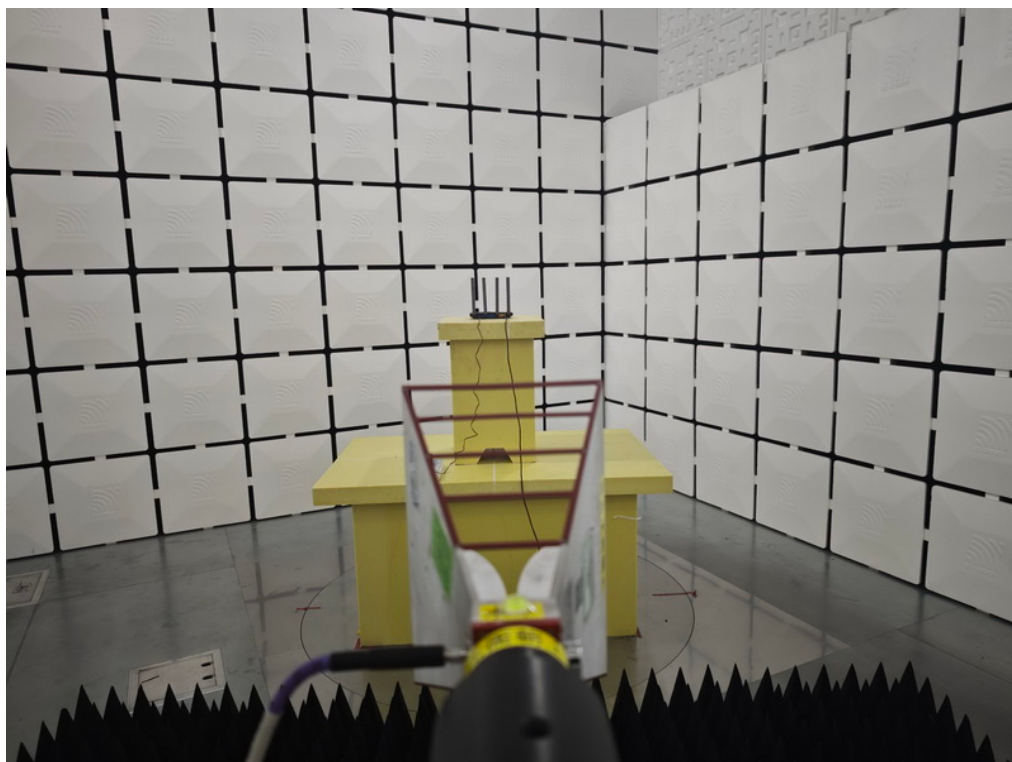
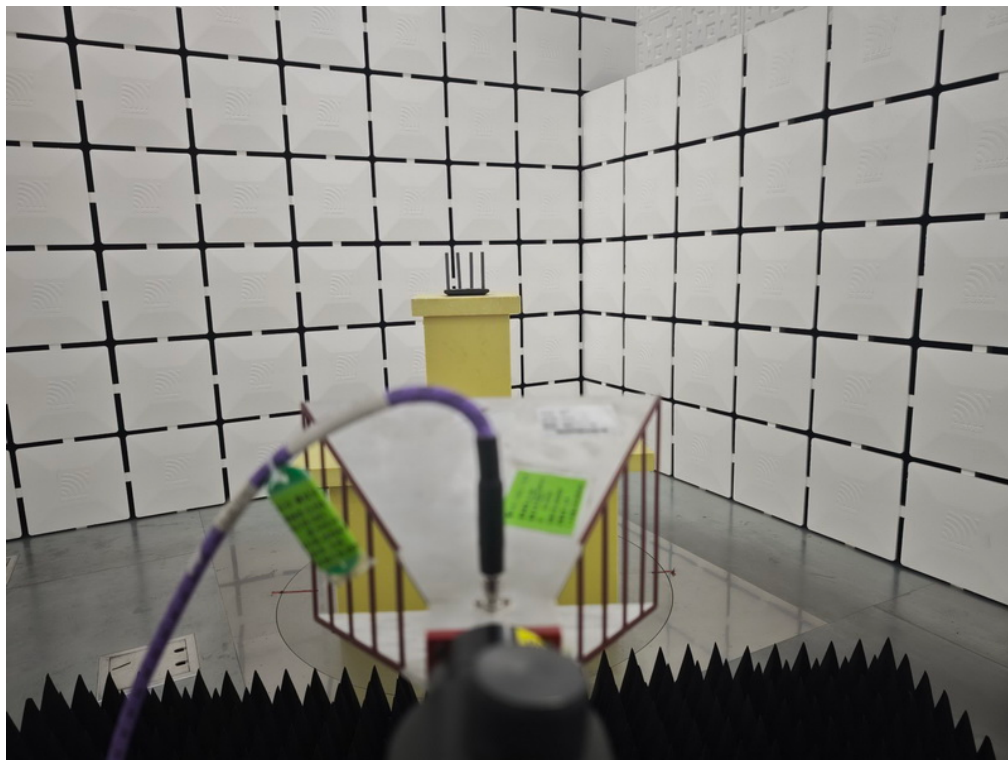
10. EUT TEST PHOTOS

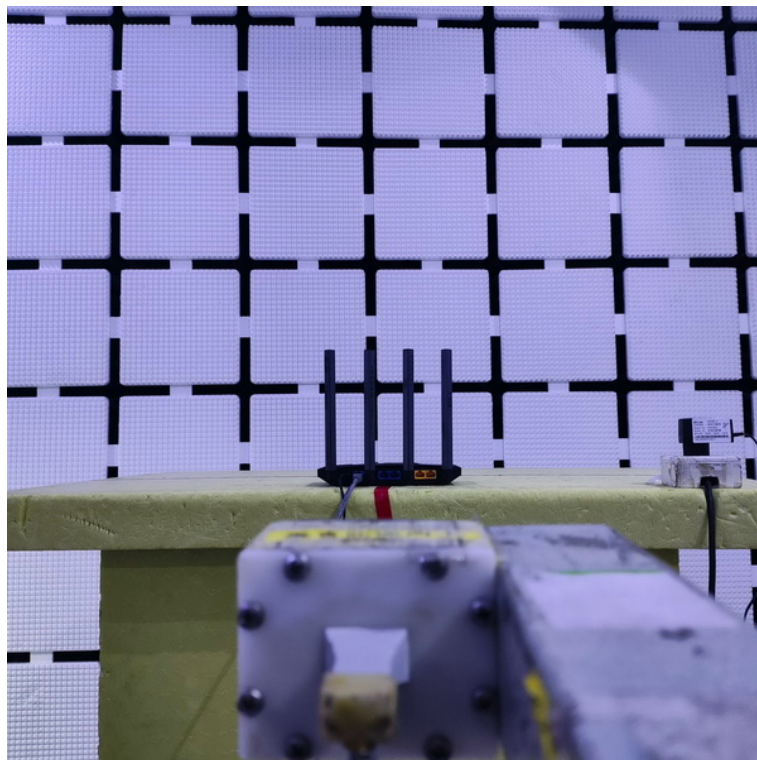
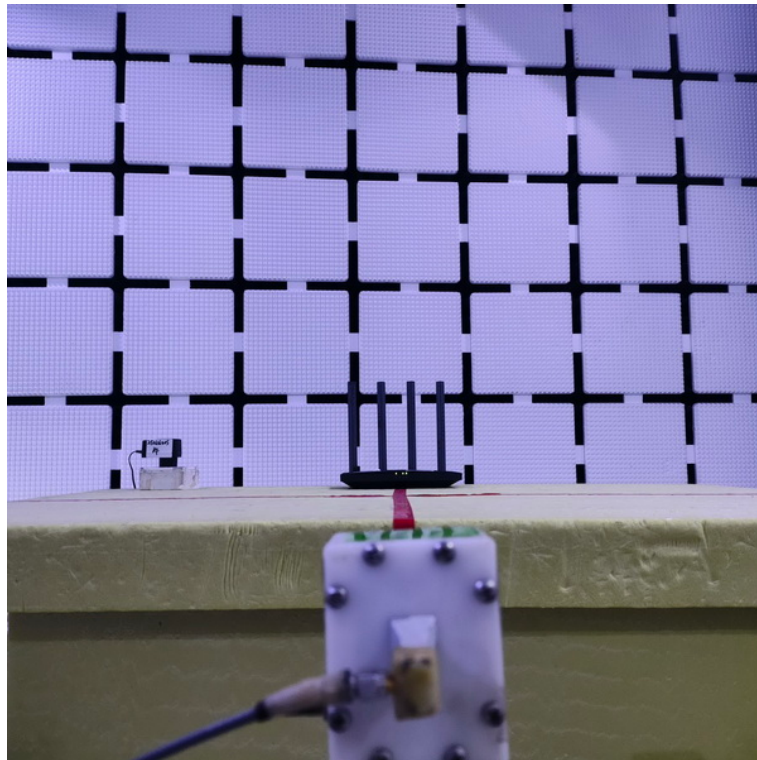
AC Power Line Conducted Emissions Test Photos



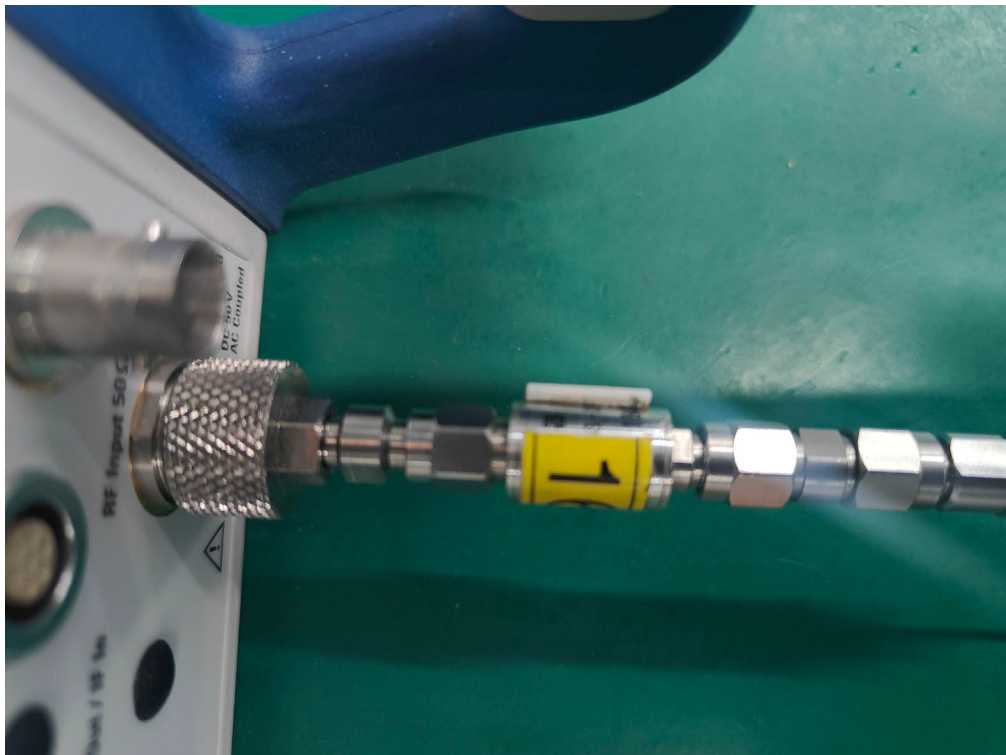
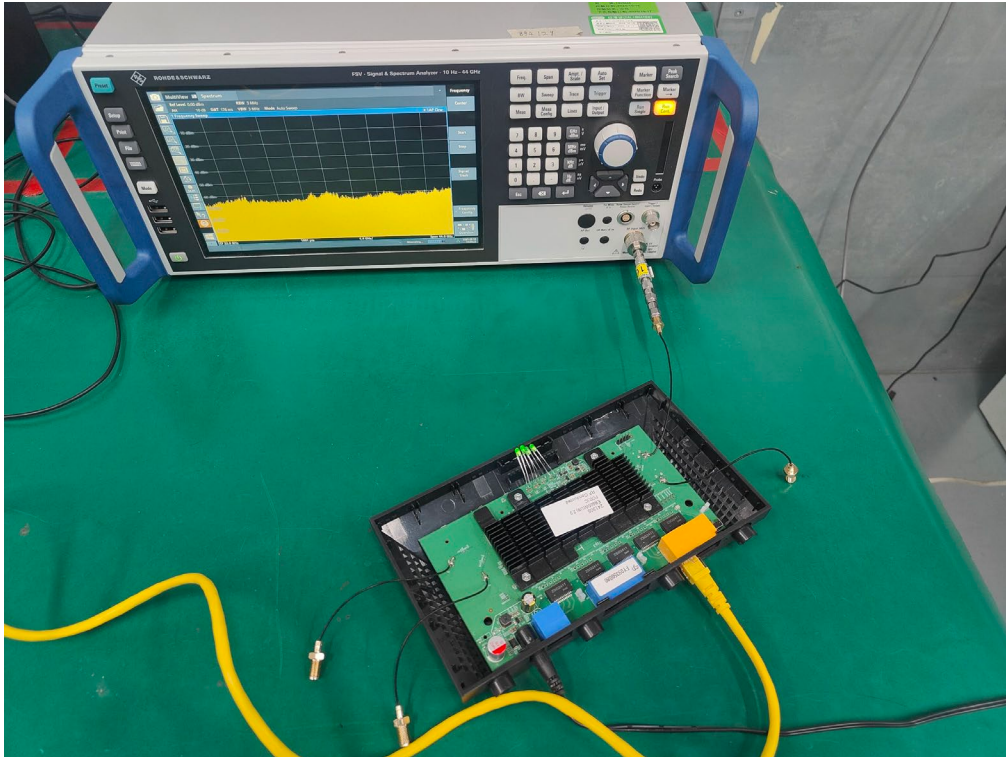
Radiated Emissions Test Photos**9 kHz to 30 MHz**

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

Radiated Emissions Test Photos**Band edge & Harmonic(1 GHz to 18 GHz)**

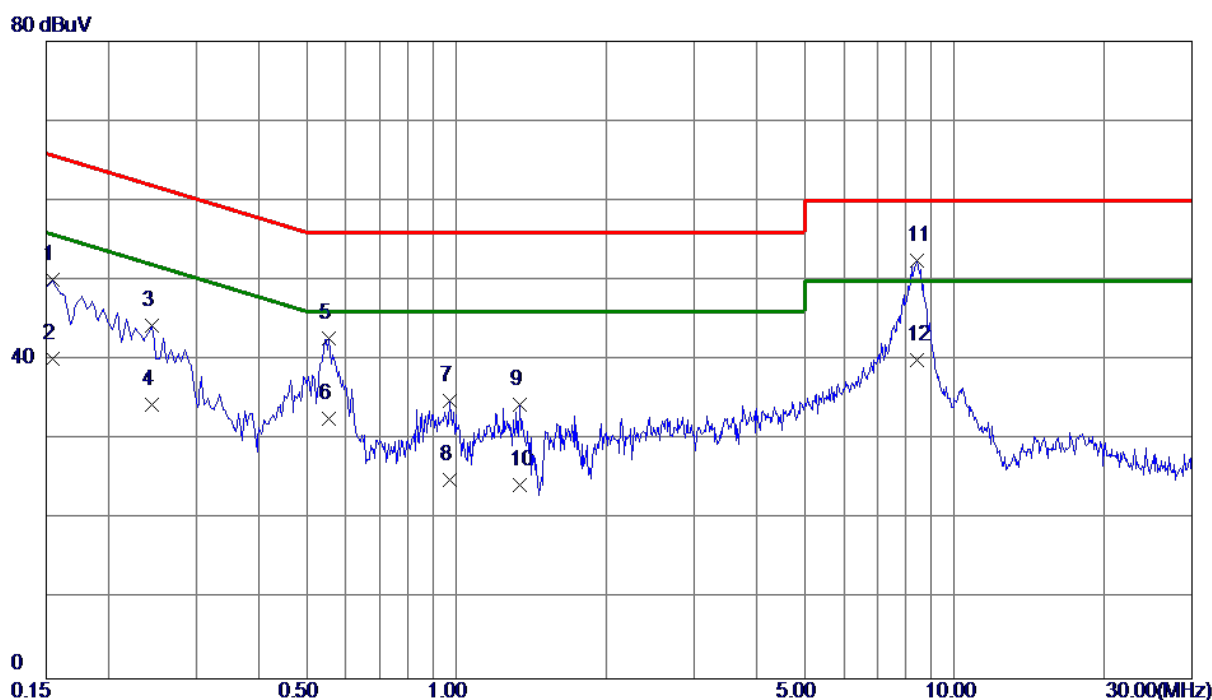
Radiated Emissions Test Photos**Harmonic(18 GHz to 26.5 GHz)**

Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AC(VHT20) Mode Channel 149 (UNII-3)	Phase	Line
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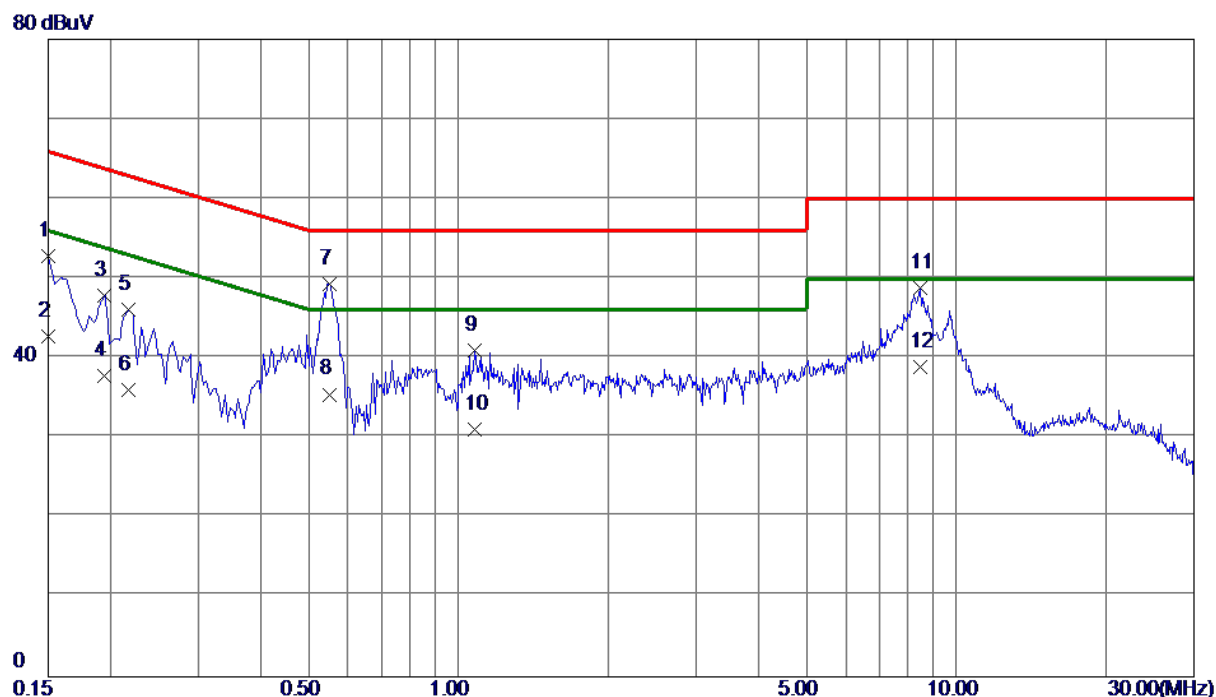


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	40.22	9.90	50.12	65.75	-15.63	QP	
2	0.1545	30.21	9.90	40.11	55.75	-15.64	AVG	
3	0.2445	34.47	9.90	44.37	61.94	-17.57	QP	
4	0.2445	24.50	9.90	34.40	51.94	-17.54	AVG	
5	0.5550	32.73	9.97	42.70	56.00	-13.30	QP	
6	0.5550	22.71	9.97	32.68	46.00	-13.32	AVG	
7	0.9690	24.90	10.04	34.94	56.00	-21.06	QP	
8	0.9690	14.90	10.04	24.94	46.00	-21.06	AVG	
9	1.3425	24.25	10.10	34.35	56.00	-21.65	QP	
10	1.3425	14.20	10.10	24.30	46.00	-21.70	AVG	
11 *	8.4345	40.94	11.54	52.48	60.00	-7.52	QP	
12	8.4345	28.40	11.54	39.94	50.00	-10.06	AVG	

REMARKS:

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

Test Mode	TX AC(VHT20) Mode Channel 149 (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	0.1500	42.88	9.97	52.85	66.00	-13.15	QP	
2	0.1500	32.80	9.97	42.77	56.00	-13.23	AVG	
3	0.1949	37.86	9.97	47.83	63.83	-16.00	QP	
4	0.1949	27.80	9.97	37.77	53.83	-16.06	AVG	
5	0.2175	36.15	9.97	46.12	62.91	-16.79	QP	
6	0.2175	26.10	9.97	36.07	52.91	-16.84	AVG	
7 *	0.5505	39.25	10.03	49.28	56.00	-6.72	QP	
8	0.5505	25.41	10.03	35.44	46.00	-10.56	AVG	
9	1.0770	30.92	10.11	41.03	56.00	-14.97	QP	
10	1.0770	20.89	10.11	31.00	46.00	-15.00	AVG	
11	8.4480	37.26	11.55	48.81	60.00	-11.19	QP	
12	8.4480	27.29	11.55	38.84	50.00	-11.16	AVG	

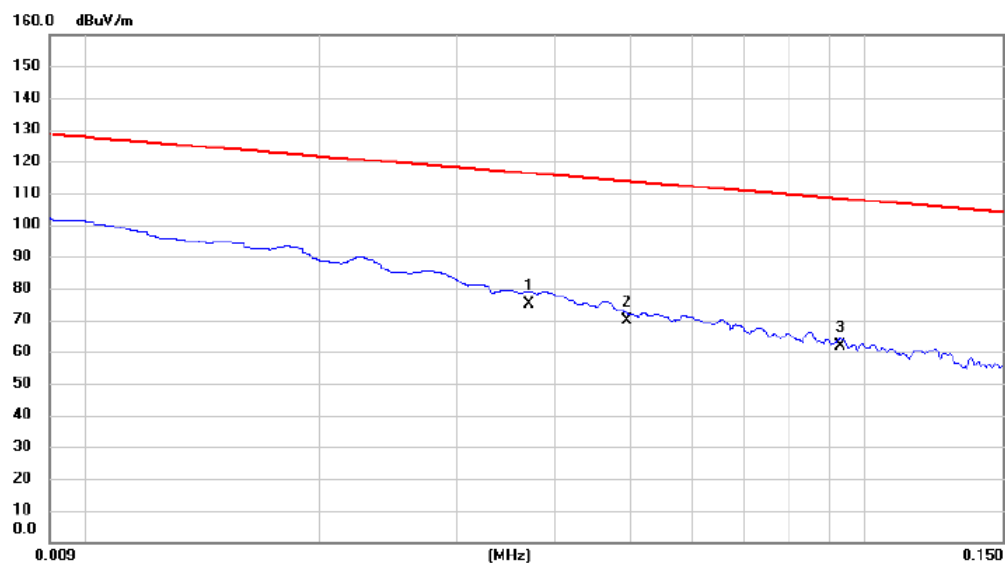
REMARKS:

(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(VHT20) Mode Channel 149 (UNII-3)	Polarization	Ant 0°
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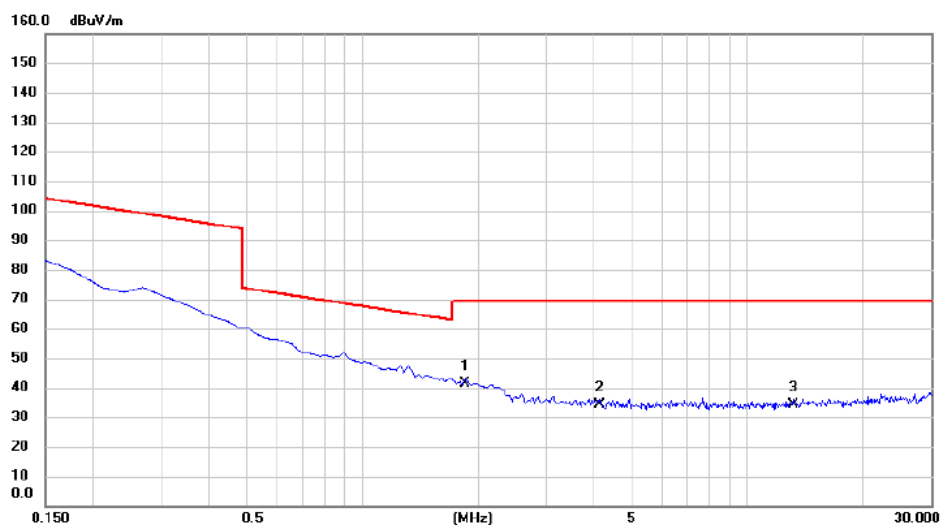


No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.037	53.62	21.28	74.90	116.22	-41.32	AVG	
2		0.050	48.62	21.34	69.96	113.71	-43.75	AVG	
3		0.093	40.36	21.34	61.70	108.24	-46.54	QP	

REMARKS:

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

Test Mode	TX AC(VHT20) Mode Channel 149 (UNII-3)	Polarization	Ant 0°
-----------	--	--------------	--------

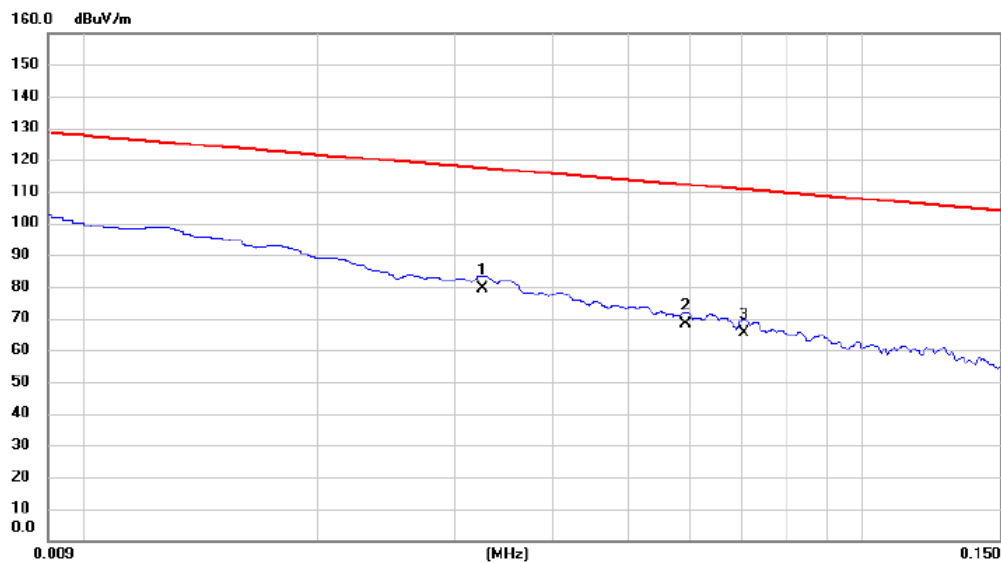


No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.851	20.36	21.21	41.57	69.54	-27.97	QP	
2		4.150	12.69	21.33	34.02	69.54	-35.52	QP	
3		13.194	12.41	21.62	34.03	69.54	-35.51	QP	

REMARKS:

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

Test Mode	TX AC(VHT20) Mode Channel 149 (UNII-3)	Polarization	Ant 90°
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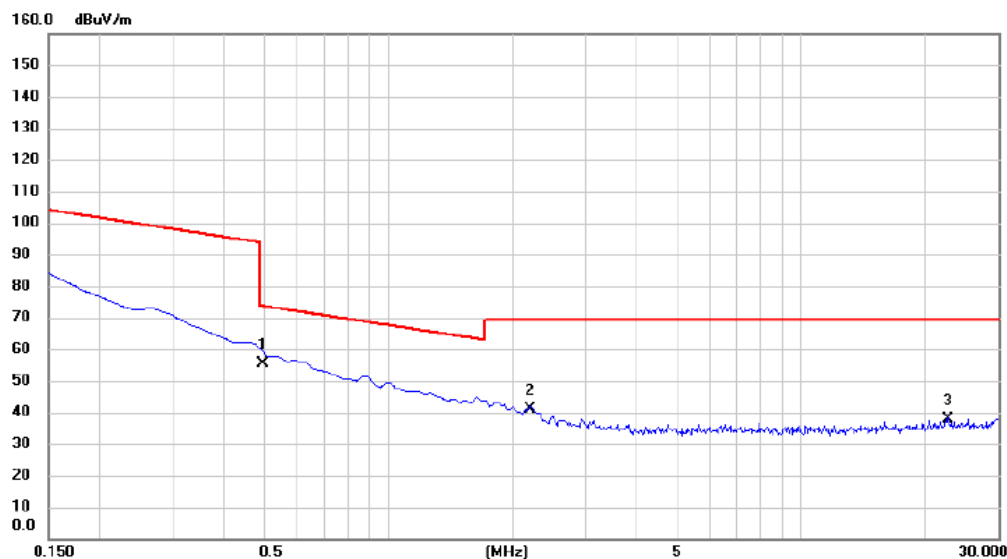


No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.033	58.32	21.25	79.57	117.37	-37.80	AVG	
2	0.059	46.96	21.34	68.30	112.16	-43.86	AVG	
3	0.070	44.21	21.34	65.55	110.65	-45.10	AVG	

REMARKS:

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

Test Mode	TX AC(VHT20) Mode Channel 149 (UNII-3)	Polarization	Ant 90°
-----------	--	--------------	---------



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.497	34.26	21.16	55.42	73.68	-18.26	QP	
2		2.210	19.64	21.22	40.86	69.54	-28.68	QP	
3		22.657	15.72	21.98	37.70	69.54	-31.84	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(VHT20) Mode Channel 149 (UNII-3)	Polarization	Vertical
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80 dBuV/m



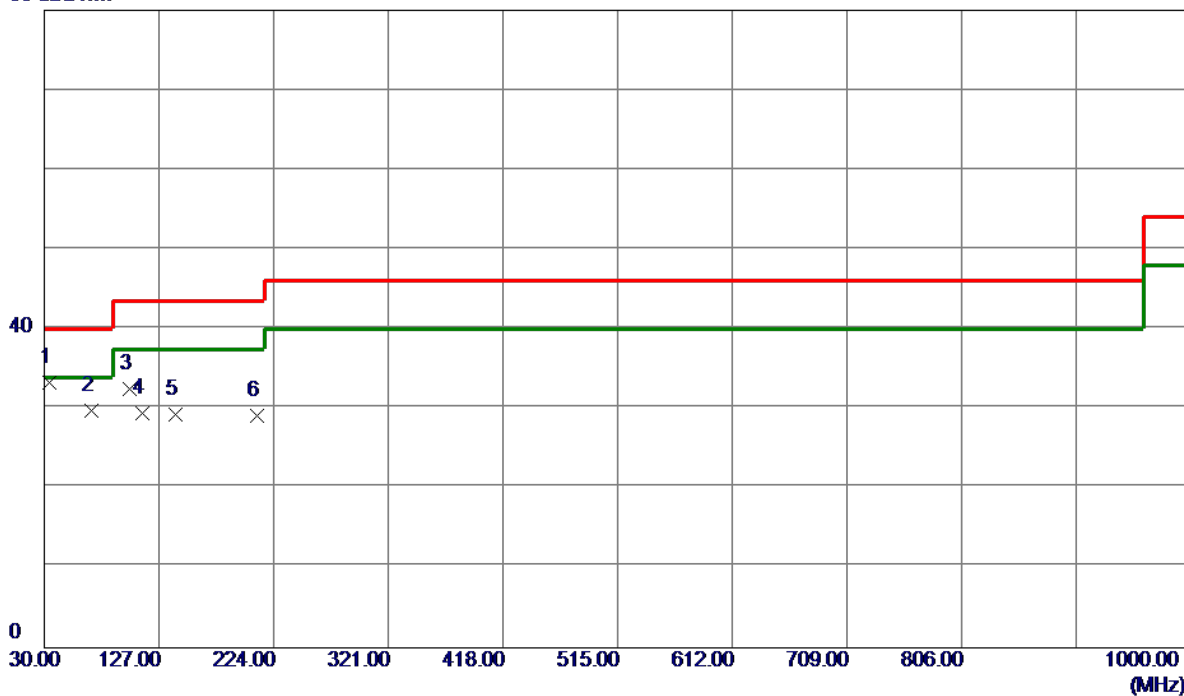
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	36.7900	49.07	-12.20	36.87	40.00	-3.13	QP	
2	47.4600	47.40	-11.33	36.07	40.00	-3.93	Peak	
3 *	69.7699	51.40	-13.24	38.16	40.00	-1.84	QP	
4	102.7500	45.85	-15.39	30.46	43.50	-13.04	Peak	
5	138.6400	47.16	-11.79	35.37	43.50	-8.13	Peak	
6	160.9500	44.16	-11.07	33.09	43.50	-10.41	Peak	

REMARKS:

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

Test Mode	TX AC(VHT20) Mode Channel 149 (UNII-3)	Polarization	Horizontal
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80 dBuV/m



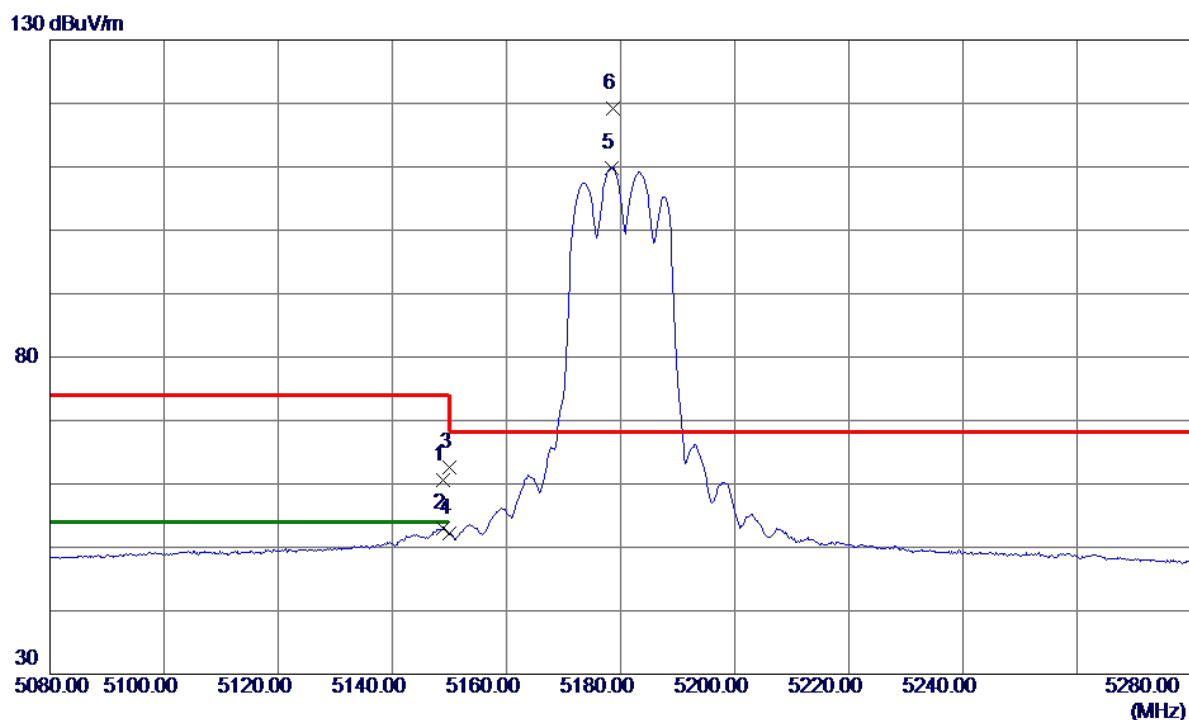
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	33.8800	45.84	-12.51	33.33	40.00	-6.67	Peak	
2	69.7699	43.07	-13.24	29.83	40.00	-10.17	Peak	
3	101.7800	47.97	-15.53	32.44	43.50	-11.06	Peak	
4	113.4200	43.53	-14.09	29.44	43.50	-14.06	Peak	
5	140.5800	40.93	-11.63	29.30	43.50	-14.20	Peak	
6	210.4200	43.57	-14.48	29.09	43.50	-14.41	Peak	

REMARKS:

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical
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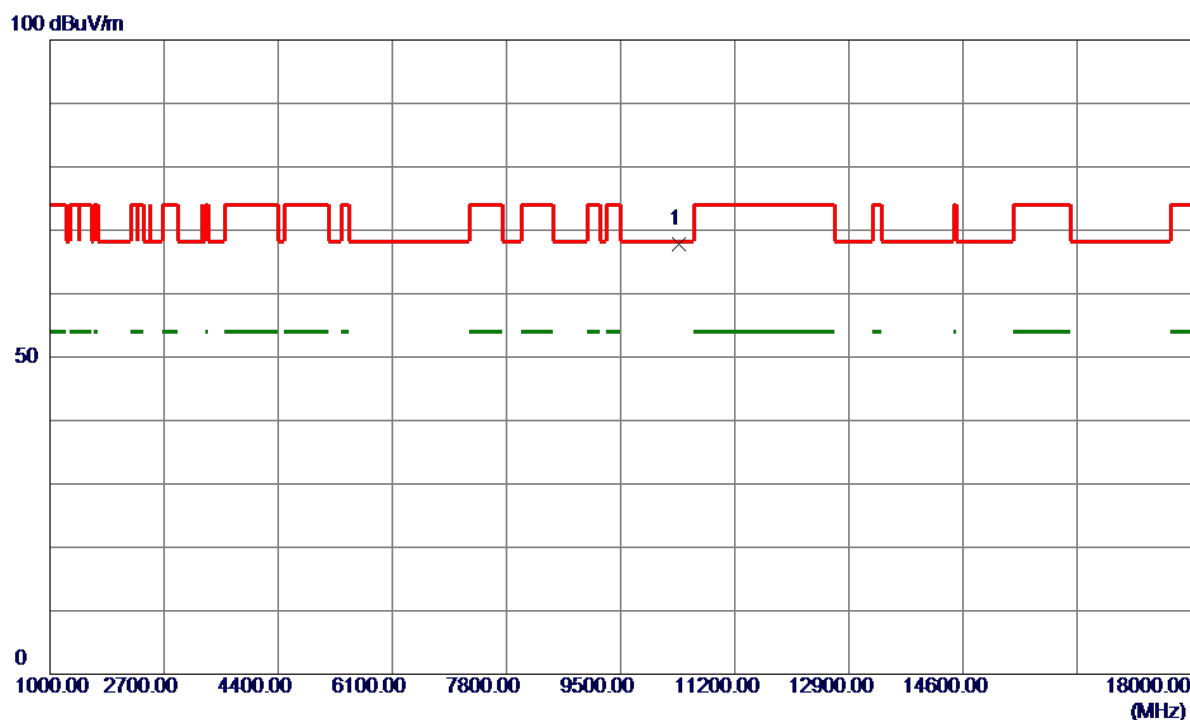
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5148.8000	46.32	14.31	60.63	74.00	-13.37	Peak	
2	5148.8000	38.69	14.31	53.00	54.00	-1.00	AVG	
3	5150.0000	48.27	14.31	62.58	74.00	-11.42	Peak	
4	5150.0000	37.93	14.31	52.24	54.00	-1.76	AVG	
5	5178.4000	95.58	14.31	109.89	999.00	-889.11	AVG	No Limit
6 *	5178.6000	104.85	14.31	119.16	68.20	50.96	Peak	No Limit

REMARKS:

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

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

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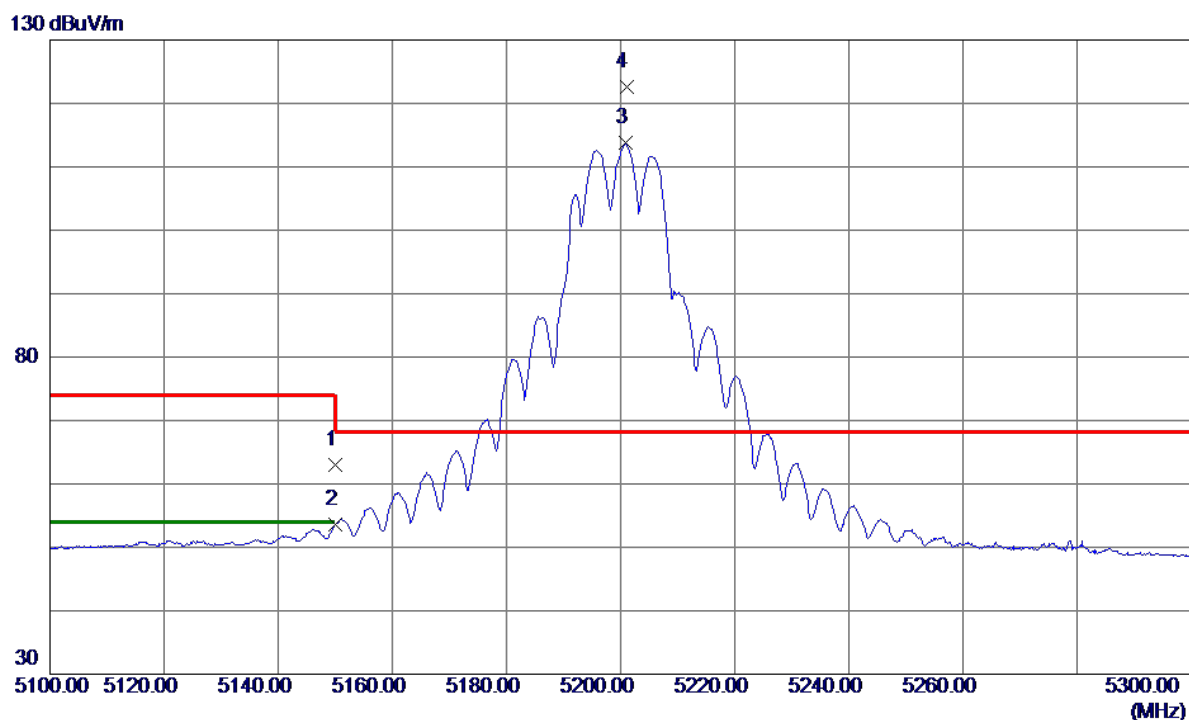


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10366.4000	57.01	10.76	67.77	68.20	-0.43	Peak	

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	Vertical
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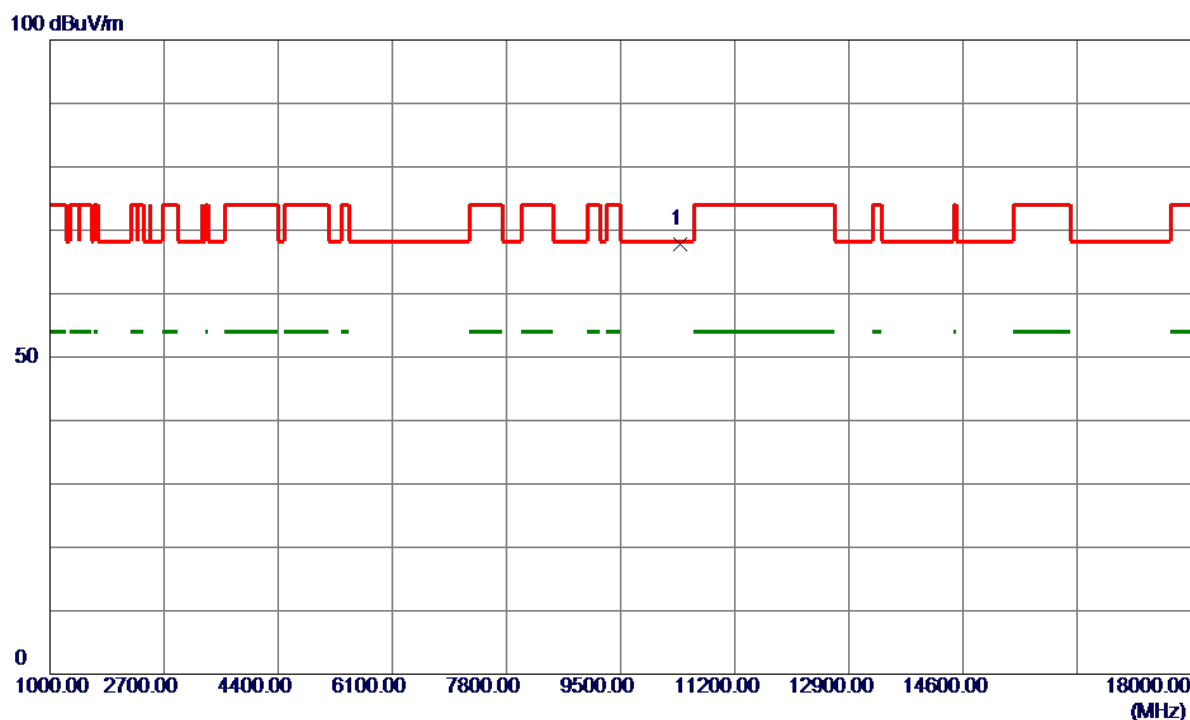
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.74	14.31	63.05	74.00	-10.95	Peak	
2	5150.0000	39.24	14.31	53.55	54.00	-0.45	AVG	
3	5200.8000	99.43	14.30	113.73	999.00	-885.27	AVG	No Limit
4 *	5201.0000	108.38	14.30	122.68	68.20	54.48	Peak	No Limit

REMARKS:

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

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical
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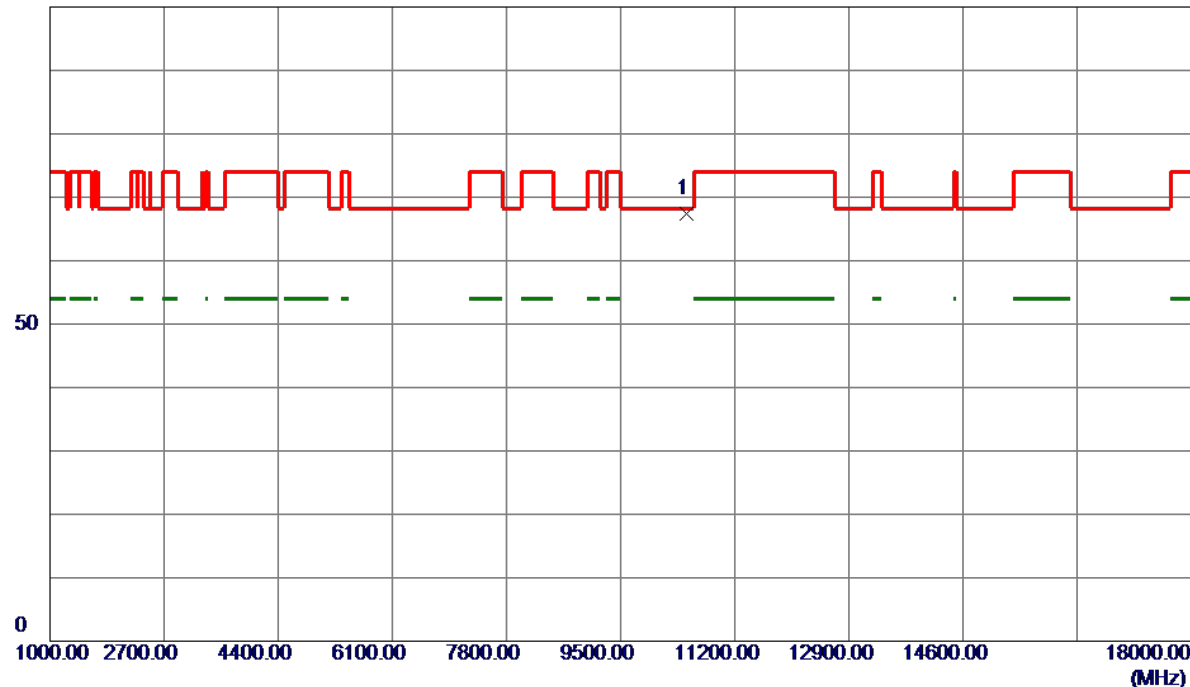
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10391.5000	57.02	10.77	67.79	68.20	-0.41	Peak	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10482.4000	56.69	10.80	67.49	68.20	-0.71	Peak	

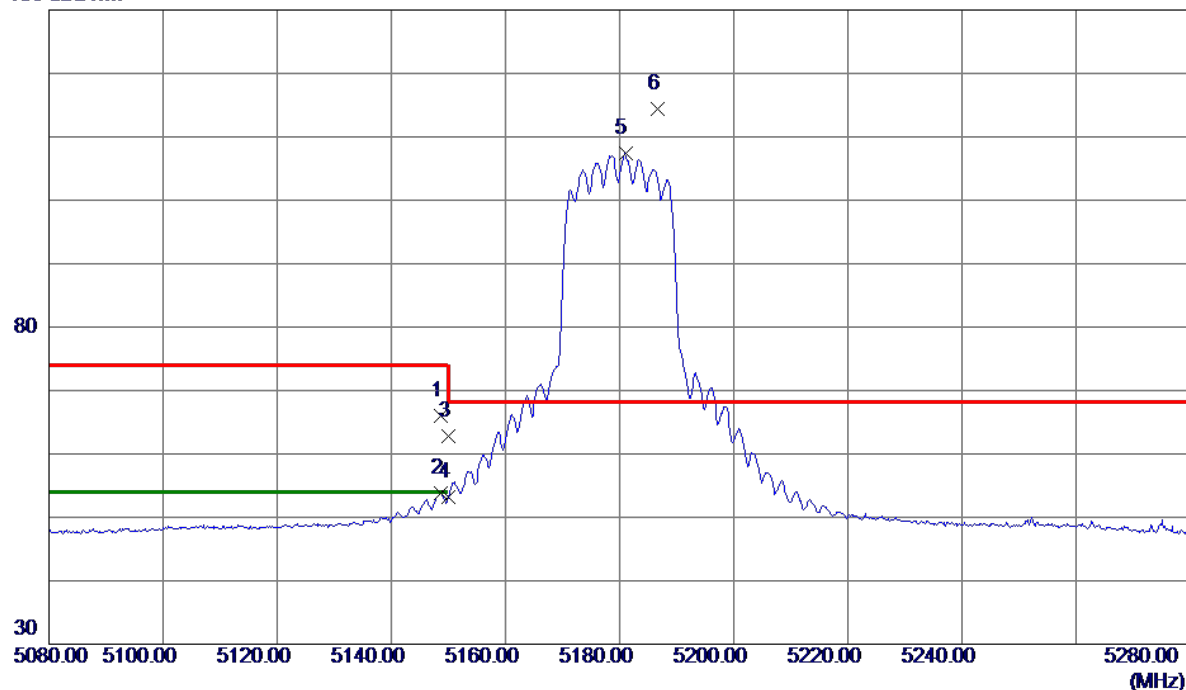
REMARKS:

(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	Vertical
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130 dBuV/m



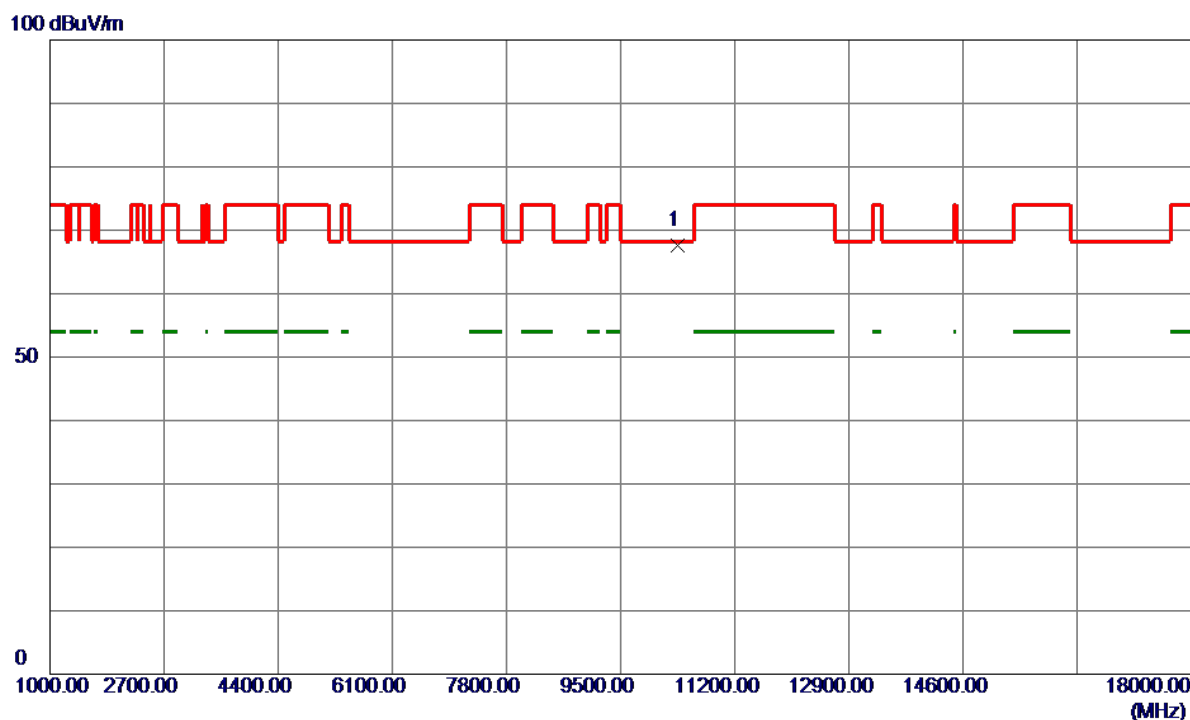
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5148.6000	51.78	14.31	66.09	74.00	-7.91	Peak	
2	5148.6000	39.56	14.31	53.87	54.00	-0.13	AVG	
3	5150.0000	48.40	14.31	62.71	74.00	-11.29	Peak	
4	5150.0000	38.84	14.31	53.15	54.00	-0.85	AVG	
5	5181.0000	93.03	14.31	107.34	999.00	-891.66	AVG	No Limit
6 *	5186.6000	100.19	14.30	114.49	68.20	46.29	Peak	No Limit

REMARKS:

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

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

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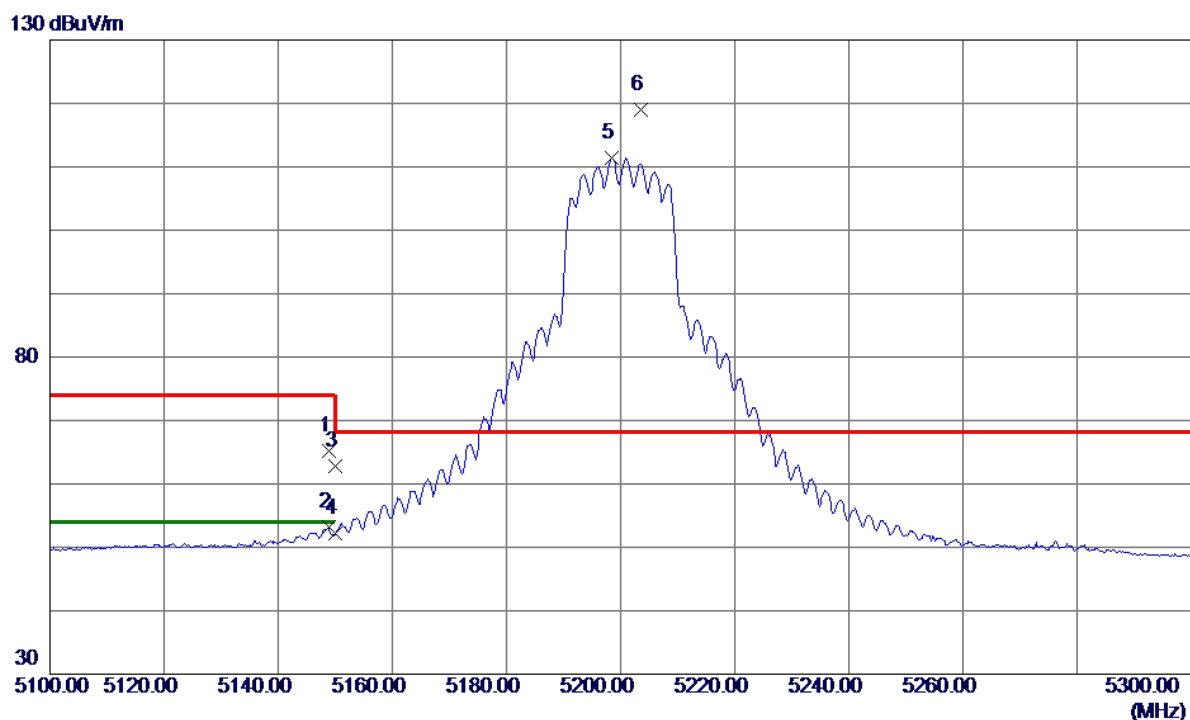


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10358.2000	56.80	10.76	67.56	68.20	-0.64	Peak	

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	Vertical
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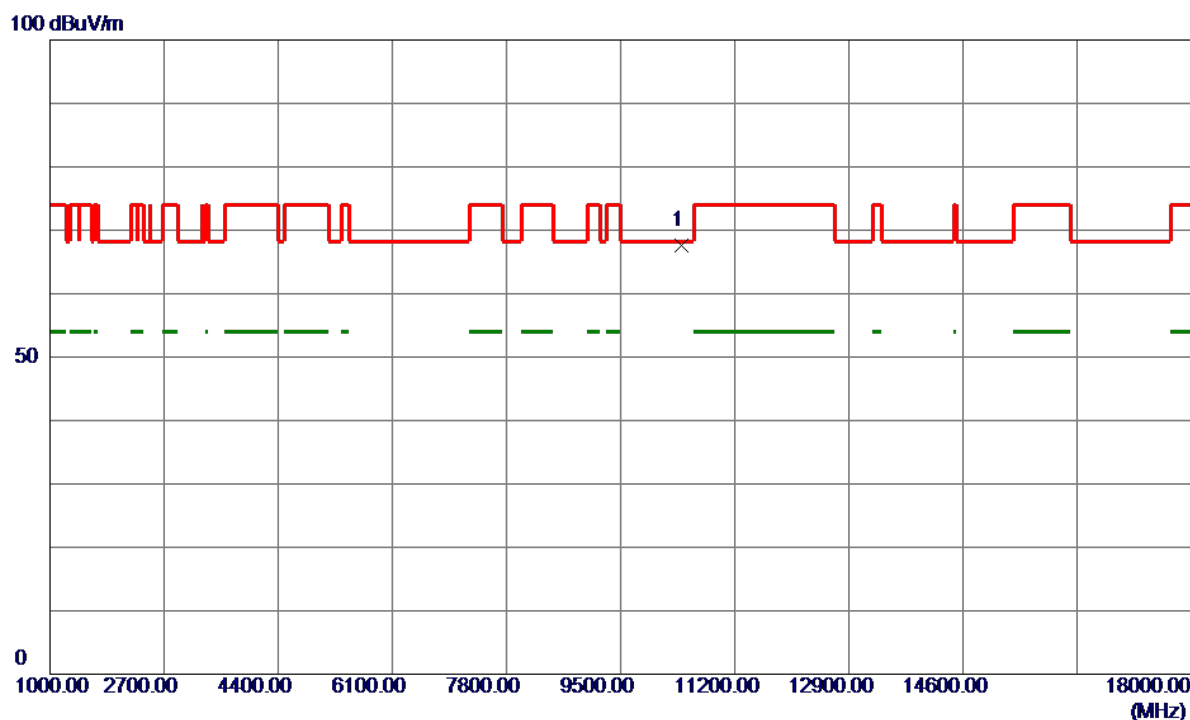
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5148.8000	50.93	14.31	65.24	74.00	-8.76	Peak	
2	5148.8000	38.88	14.31	53.19	54.00	-0.81	AVG	
3	5150.0000	48.47	14.31	62.78	74.00	-11.22	Peak	
4	5150.0000	37.82	14.31	52.13	54.00	-1.87	AVG	
5	5198.4000	97.07	14.30	111.37	999.00	-887.63	AVG	No Limit
6 *	5203.6000	104.73	14.30	119.03	68.20	50.83	Peak	No Limit

REMARKS:

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

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical
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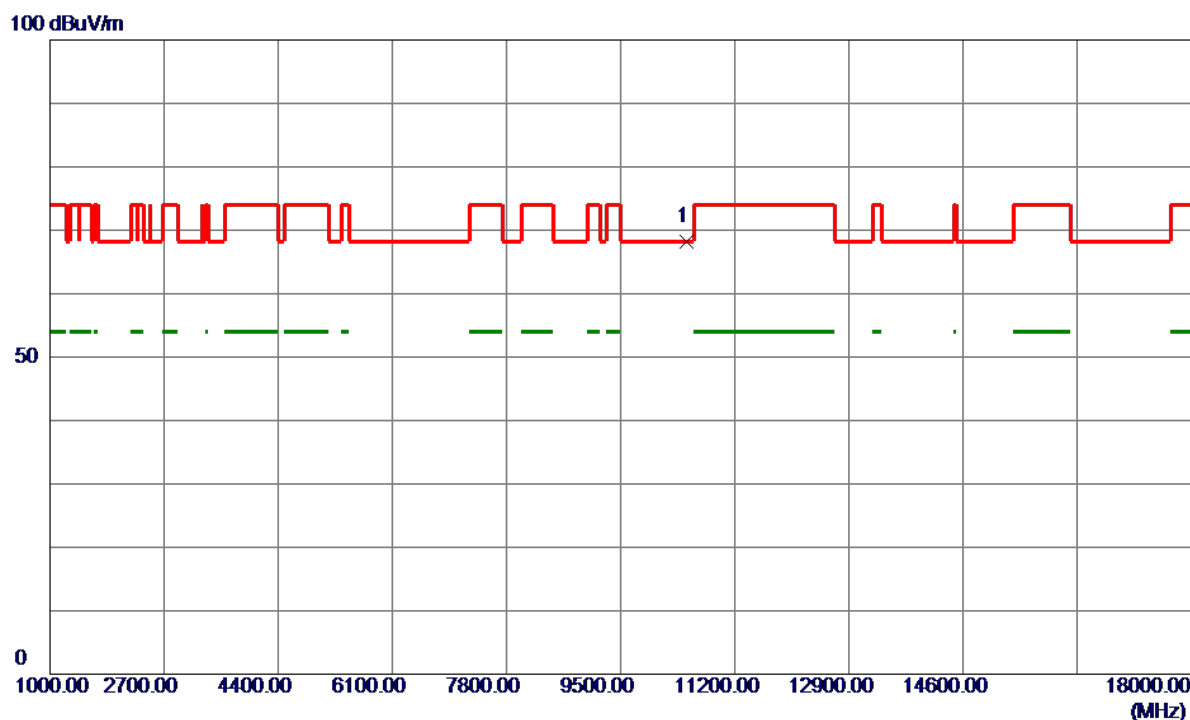
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10402.9000	56.81	10.77	67.58	68.20	-0.62	Peak	

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	Vertical
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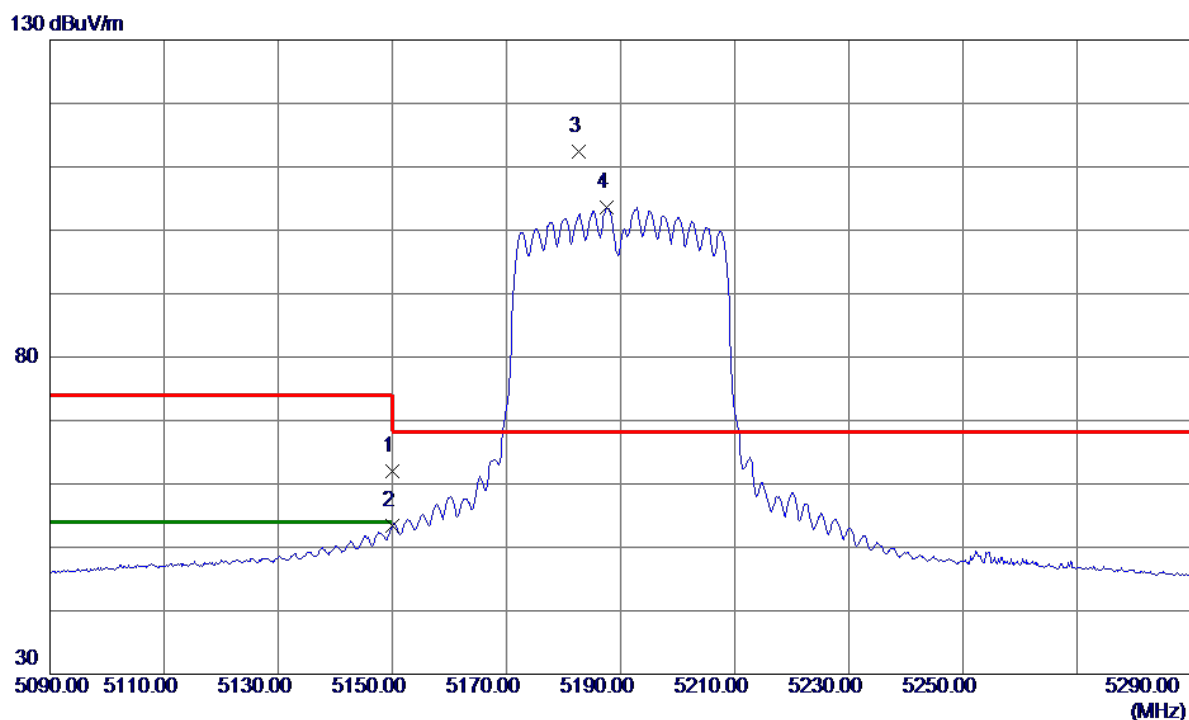


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10474.3000	57.38	10.80	68.18	68.20	-0.02	Peak	

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	Vertical
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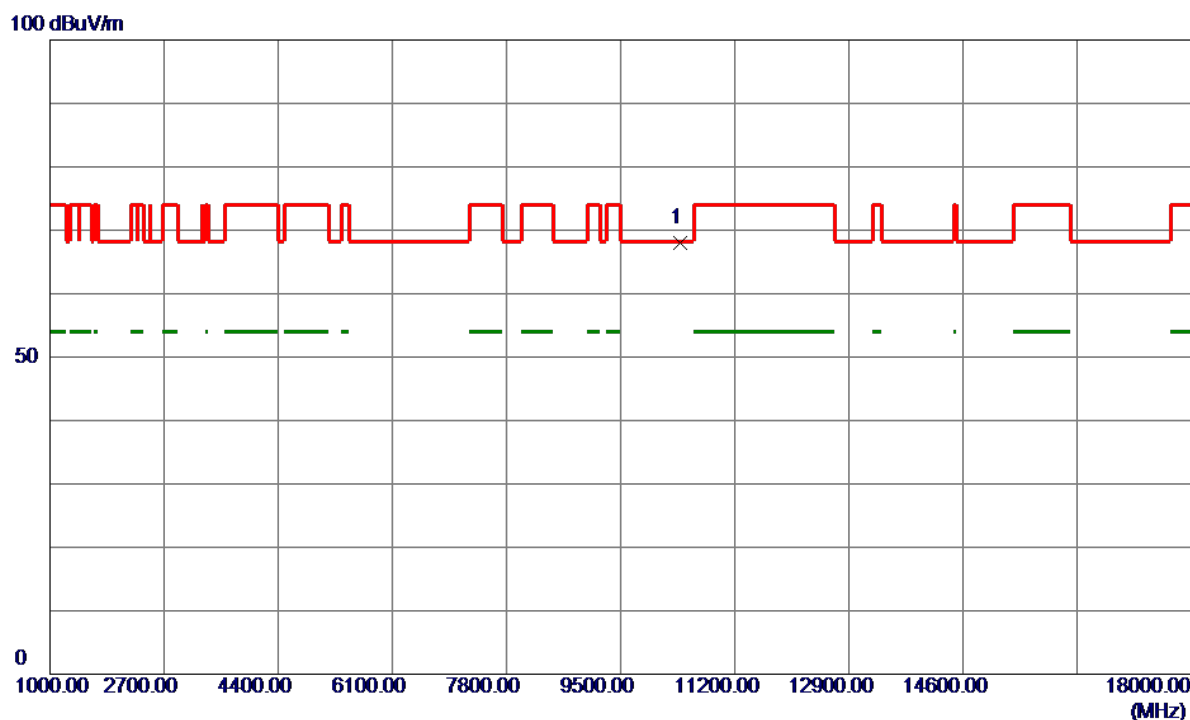


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.66	14.31	61.97	74.00	-12.03	Peak	
2	5150.0000	39.00	14.31	53.31	54.00	-0.69	AVG	
3 *	5182.6000	98.05	14.31	112.36	68.20	44.16	Peak	No Limit
4	5187.6000	89.30	14.30	103.60	999.00	-895.40	AVG	No Limit

REMARKS:

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

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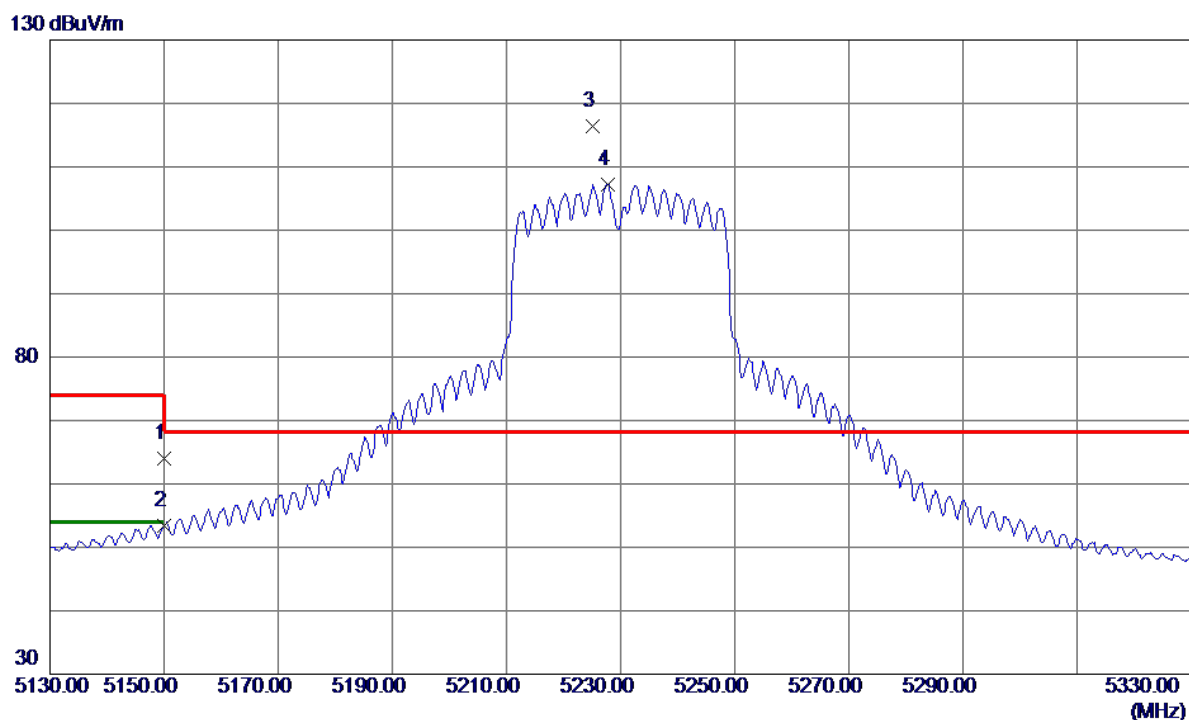


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10381.4000	57.21	10.76	67.97	68.20	-0.23	Peak	

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	Vertical
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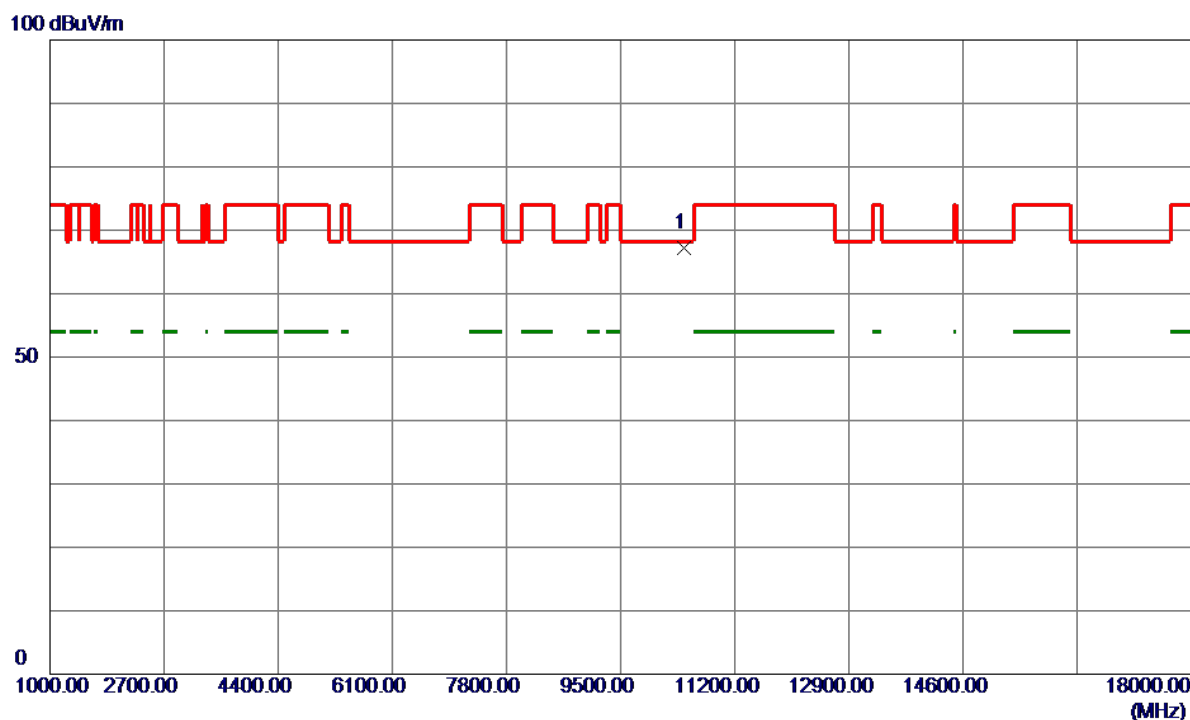


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	49.78	14.31	64.09	74.00	-9.91	Peak	
2	5150.0000	39.17	14.31	53.48	54.00	-0.52	AVG	
3 *	5225.2000	102.13	14.30	116.43	68.20	48.23	Peak	No Limit
4	5227.8000	92.92	14.30	107.22	999.00	-891.78	AVG	No Limit

REMARKS:

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

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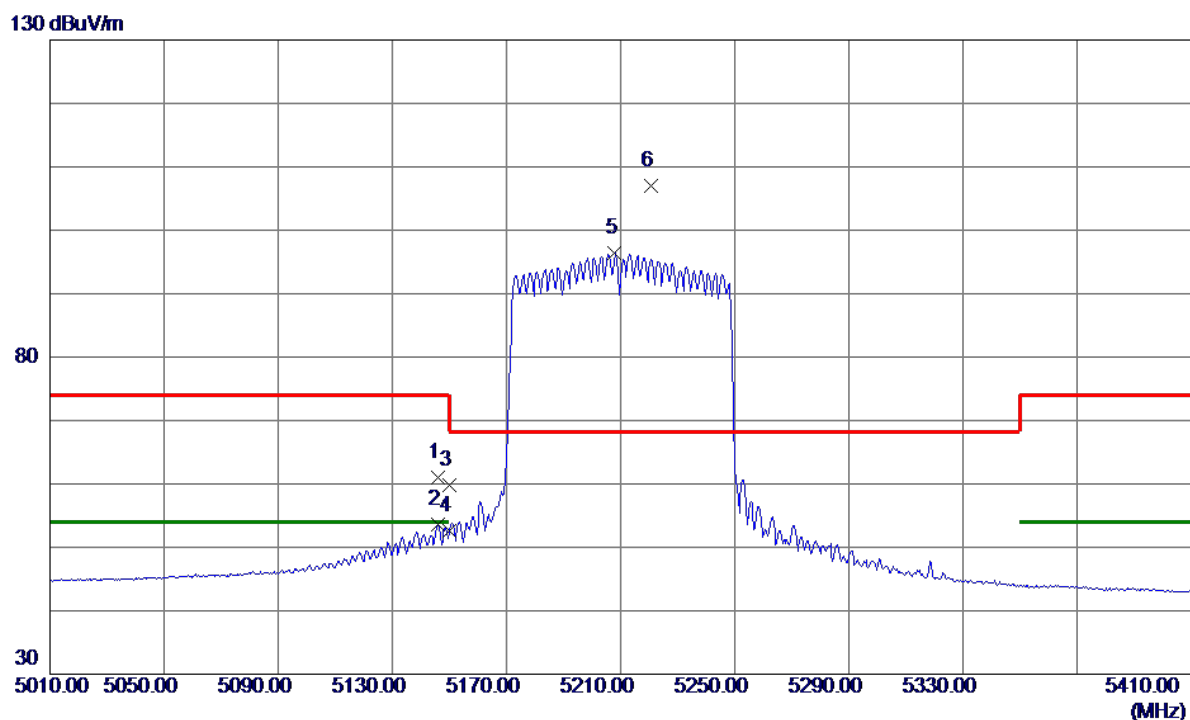


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10443.8000	56.49	10.79	67.28	68.20	-0.92	Peak	

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	Vertical
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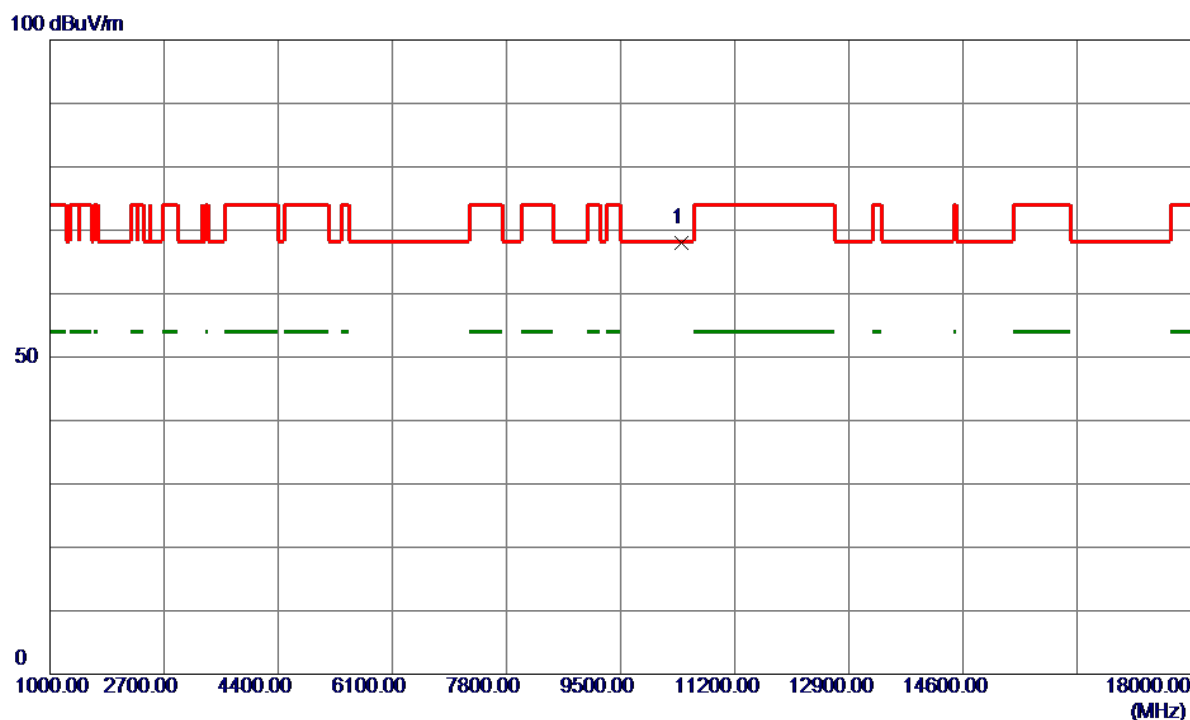


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5146.0000	46.65	14.31	60.96	74.00	-13.04	Peak	
2	5146.0000	39.24	14.31	53.55	54.00	-0.45	AVG	
3	5150.0000	45.55	14.31	59.86	74.00	-14.14	Peak	
4	5150.0000	38.36	14.31	52.67	54.00	-1.33	AVG	
5	5208.0000	82.01	14.30	96.31	999.00	-902.69	AVG	No Limit
6 *	5220.8000	92.68	14.30	106.98	68.20	38.78	Peak	No Limit

REMARKS:

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

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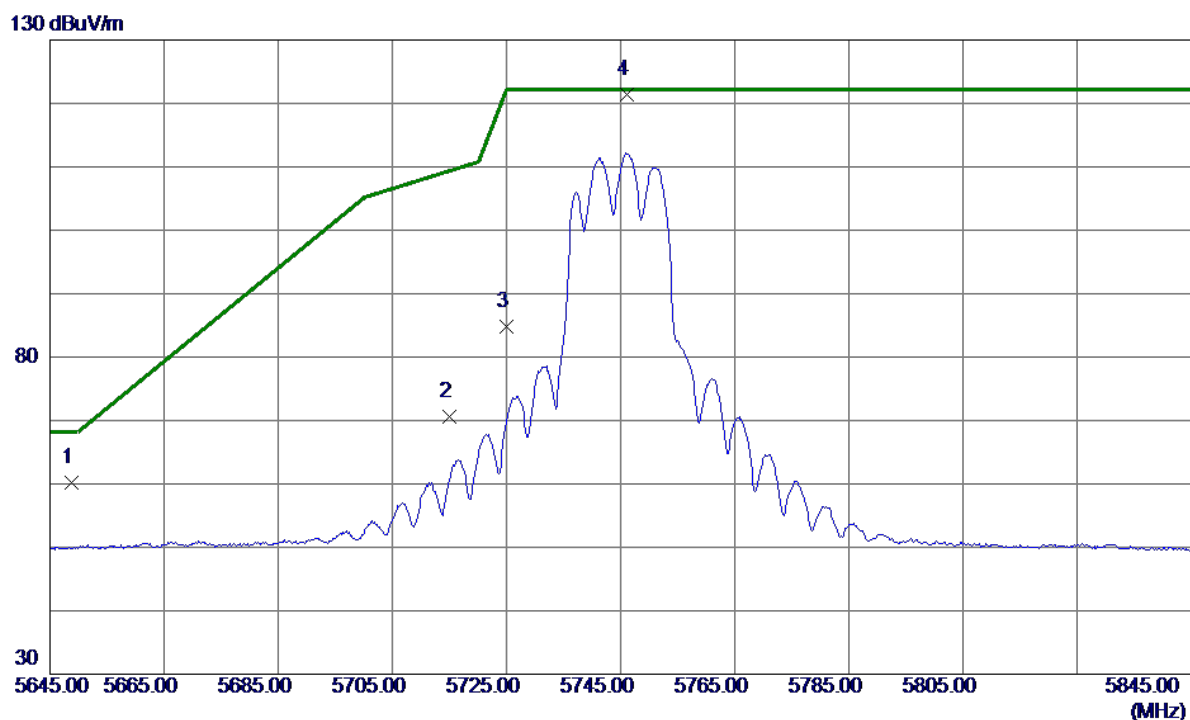


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10411.0000	57.14	10.78	67.92	68.20	-0.28	Peak	

REMARKS:

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

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5648.8000	45.56	14.60	60.16	68.20	-8.04	Peak	
2	5715.0000	55.80	14.75	70.55	109.40	-38.85	Peak	
3	5725.0000	70.06	14.77	84.83	122.20	-37.37	Peak	
4 *	5746.2000	106.54	14.82	121.36	122.20	-0.84	Peak	No Limit

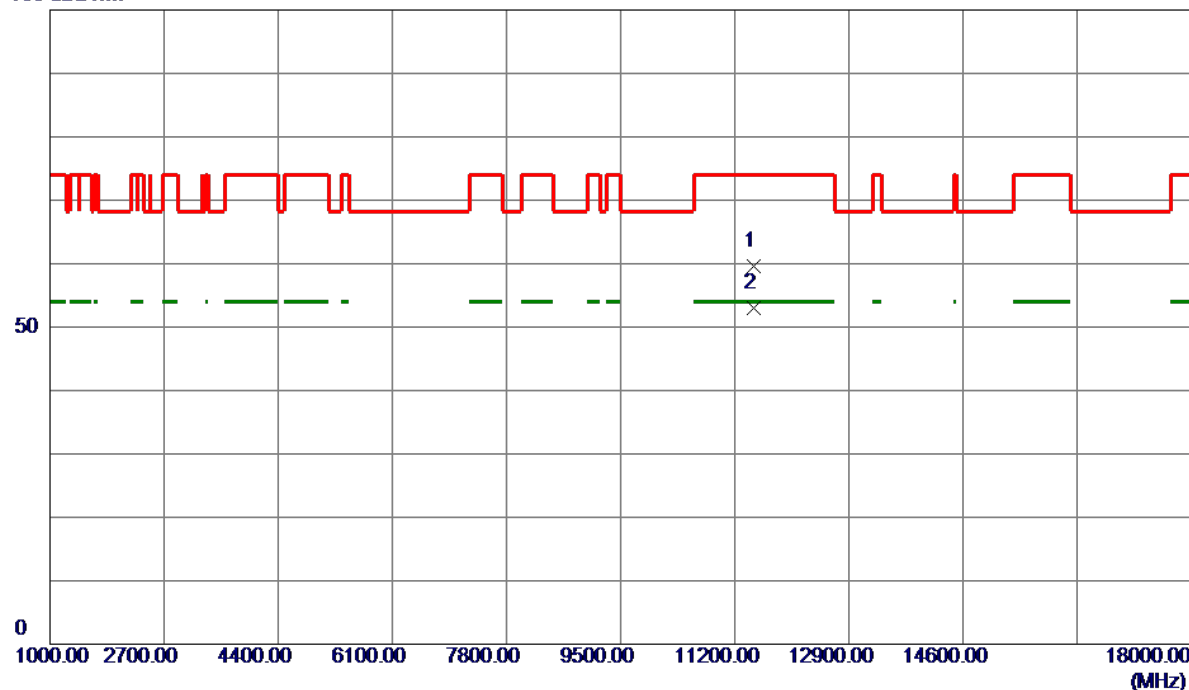
REMARKS:

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

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

Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical
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100 dBuV/m



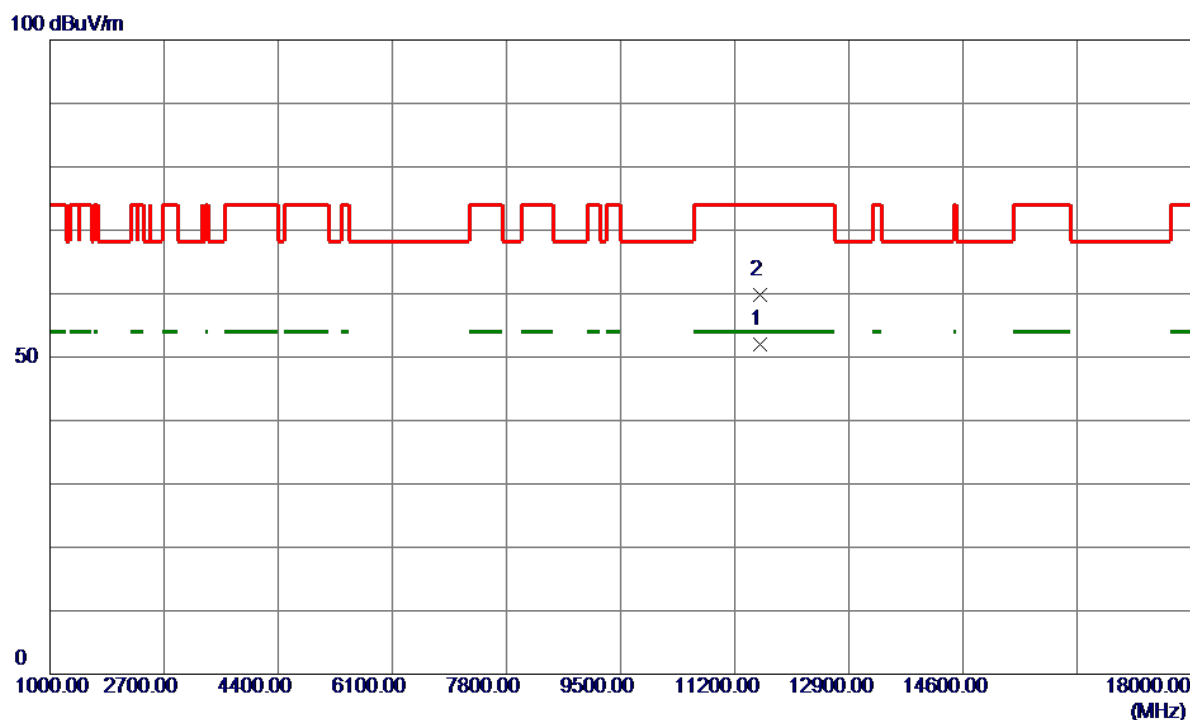
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11490.1600	48.59	11.10	59.69	74.00	-14.31	Peak	
2 *	11490.6400	41.81	11.10	52.91	54.00	-1.09	AVG	

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	Vertical
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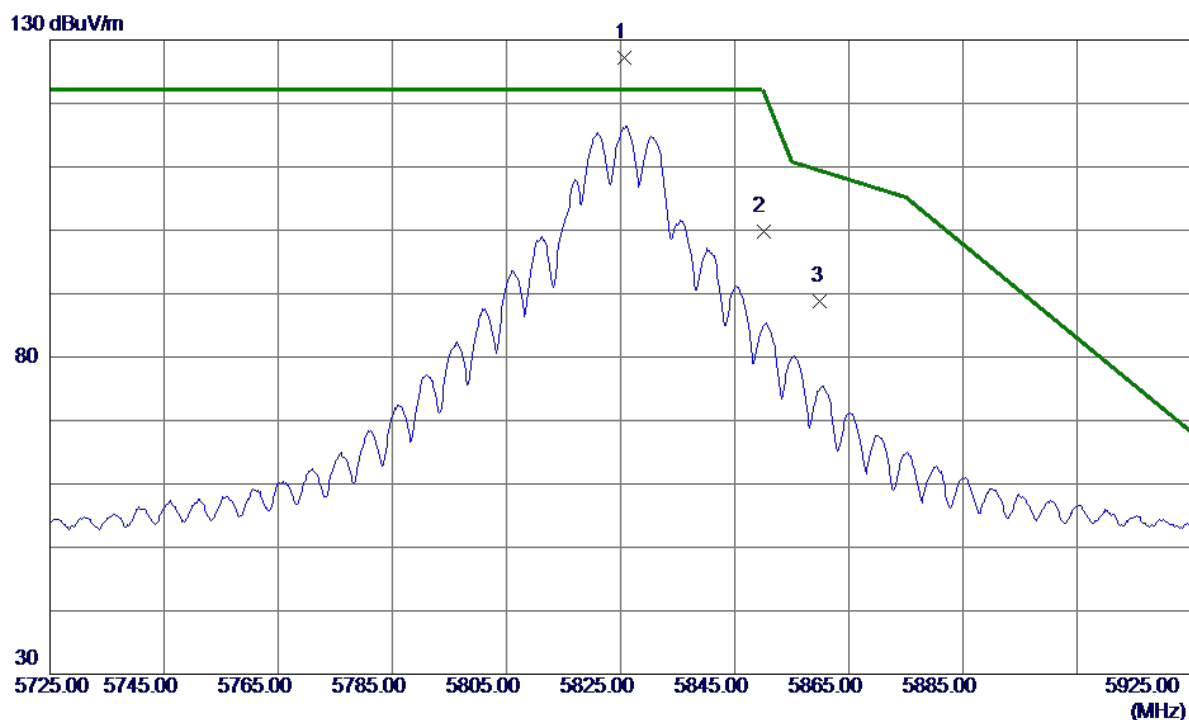
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.2800	40.86	11.10	51.96	54.00	-2.04	AVG	
2	11574.4800	48.70	11.10	59.80	74.00	-14.20	Peak	

REMARKS:

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

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

Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical
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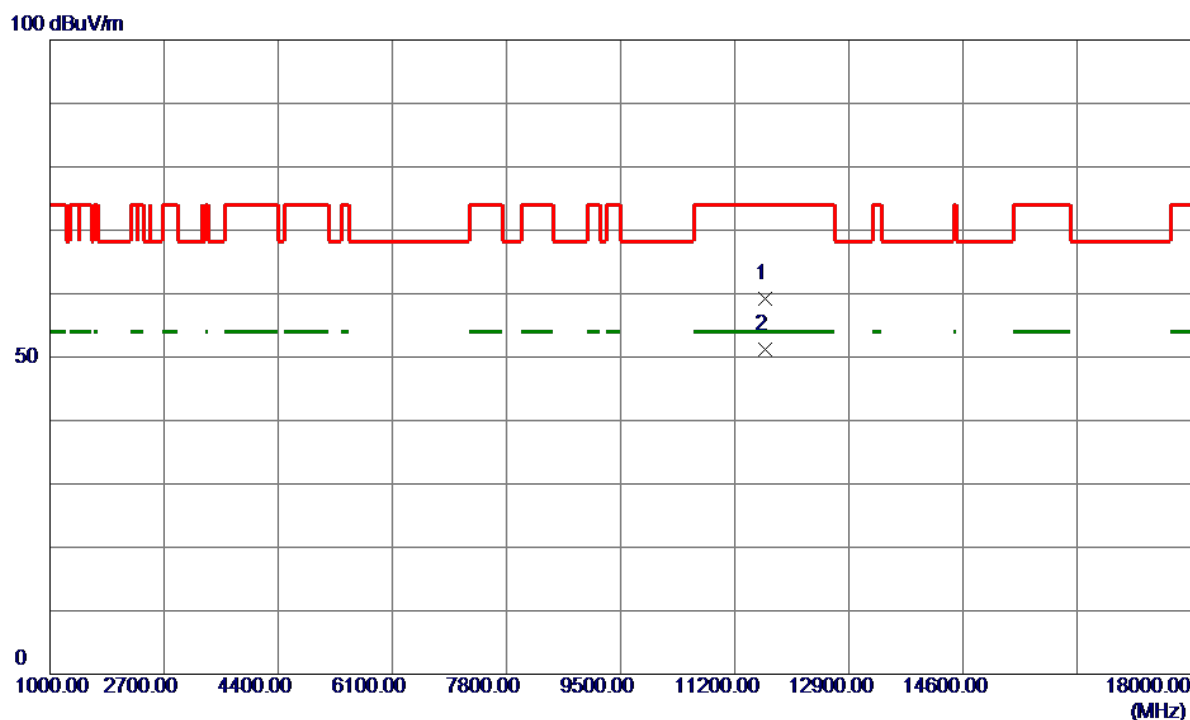
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5825.6000	112.20	14.99	127.19	122.20	4.99	Peak	No Limit
2	5850.0000	84.71	15.04	99.75	122.20	-22.45	Peak	
3	5860.0000	73.68	15.06	88.74	109.40	-20.66	Peak	

REMARKS:

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

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

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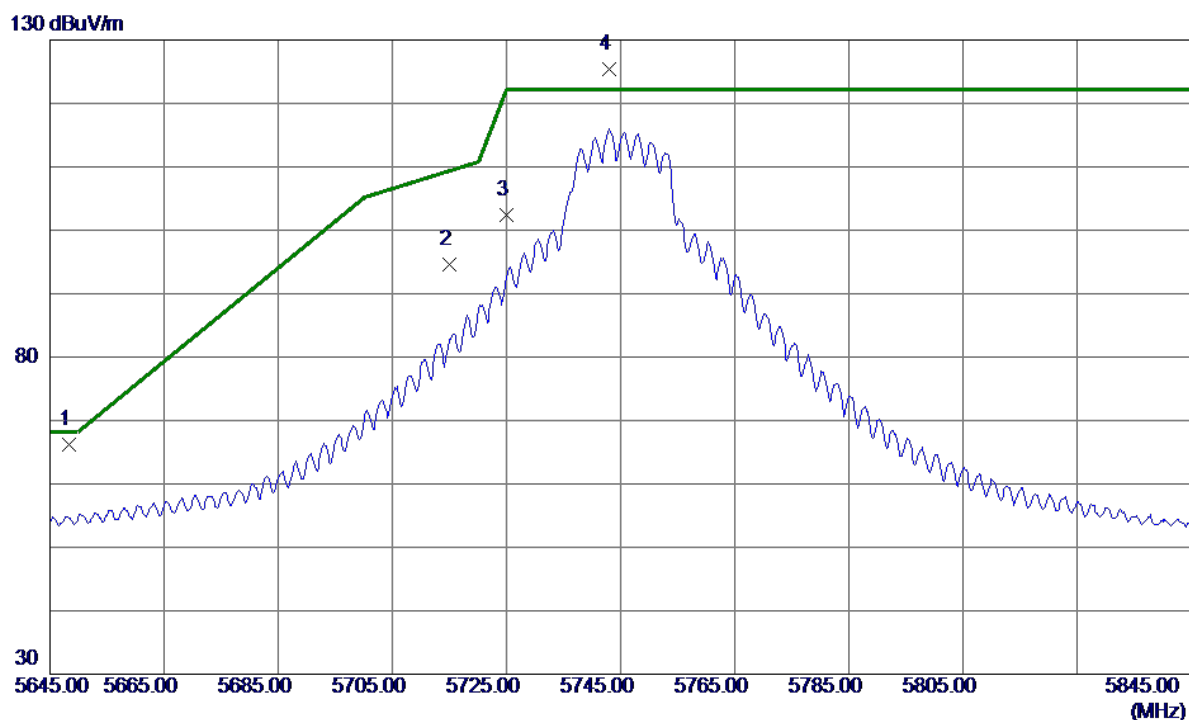


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.2800	48.07	11.09	59.16	74.00	-14.84	Peak	
2 *	11649.7600	40.15	11.09	51.24	54.00	-2.76	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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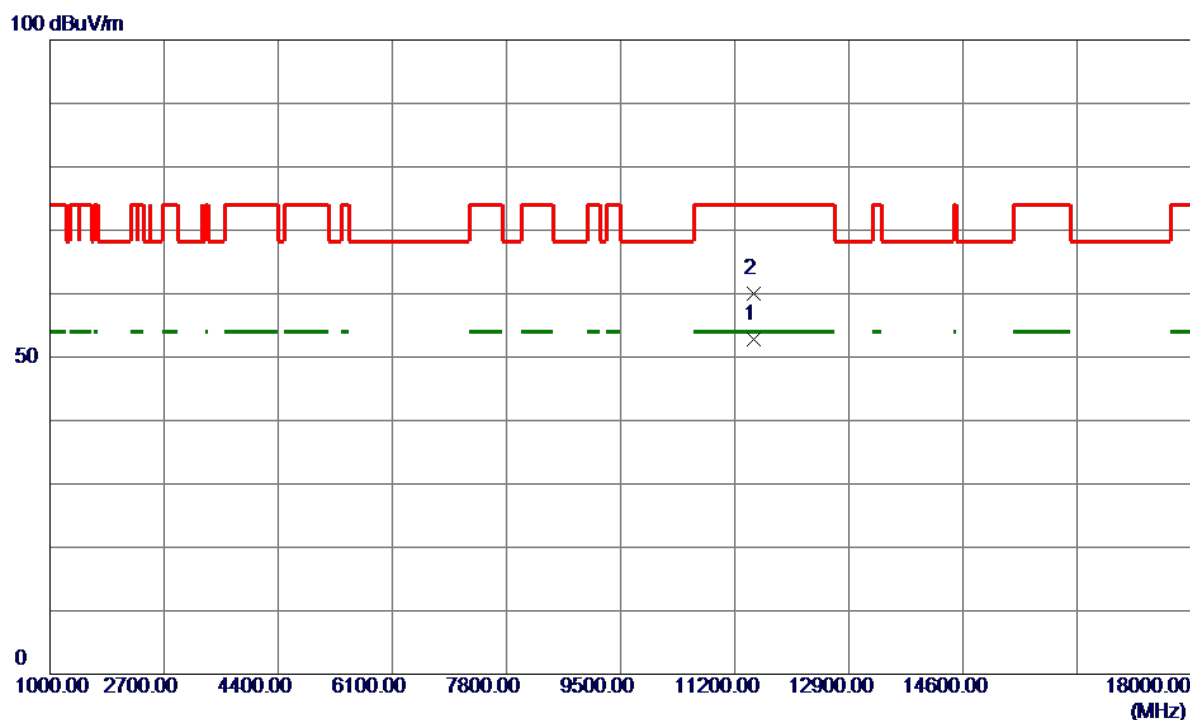
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5648.4000	51.64	14.60	66.24	68.20	-1.96	Peak	
2	5715.0000	79.79	14.75	94.54	109.40	-14.86	Peak	
3	5725.0000	87.66	14.77	102.43	122.20	-19.77	Peak	
4 *	5743.0000	110.68	14.81	125.49	122.20	3.29	Peak	No Limit

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical
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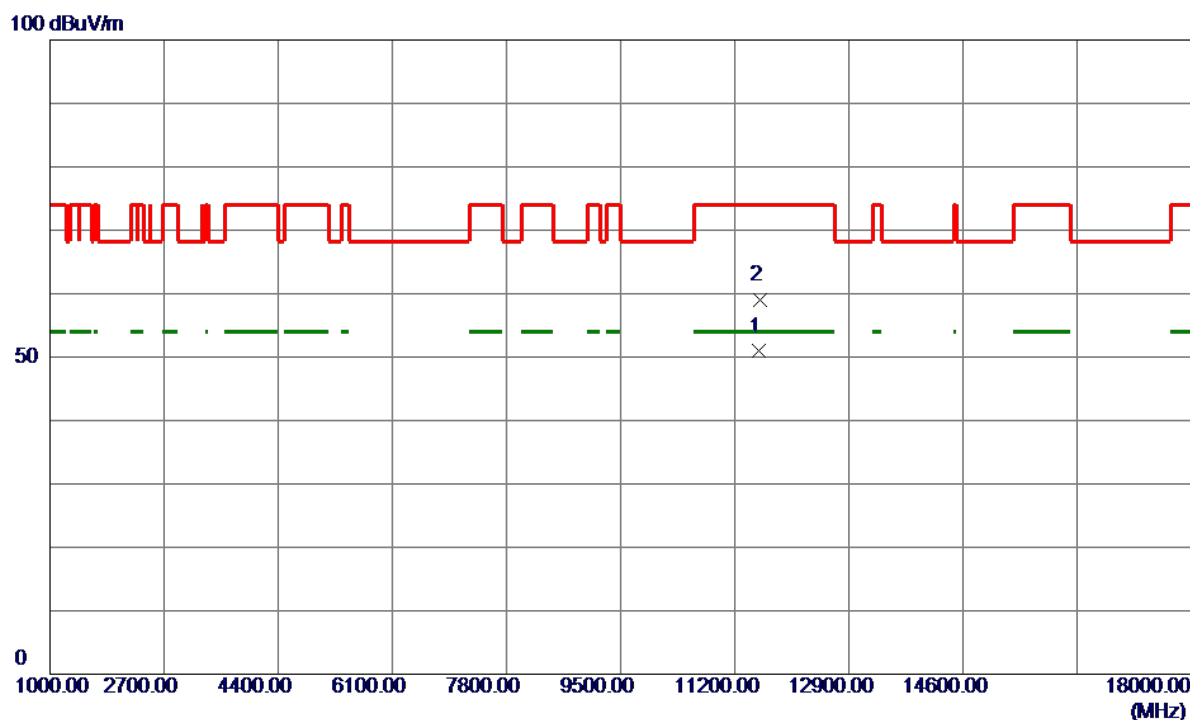
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11487.5199	41.76	11.10	52.86	54.00	-1.14	AVG	
2	11492.3200	48.98	11.10	60.08	74.00	-13.92	Peak	

REMARKS:

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

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

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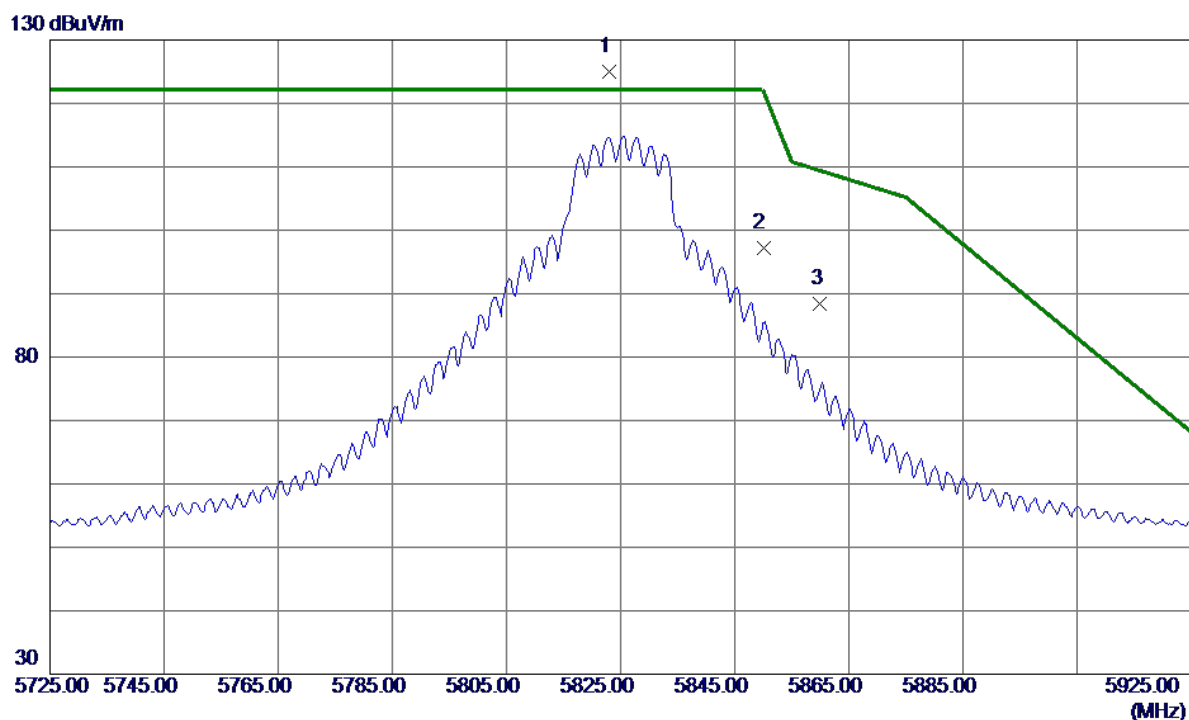


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11567.3600	39.80	11.10	50.90	54.00	-3.10	AVG	
2	11572.4000	47.85	11.10	58.95	74.00	-15.05	Peak	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5823.0000	109.97	14.98	124.95	122.20	2.75	Peak	No Limit
2	5850.0000	82.12	15.04	97.16	122.20	-25.04	Peak	
3	5860.0000	73.25	15.06	88.31	109.40	-21.09	Peak	

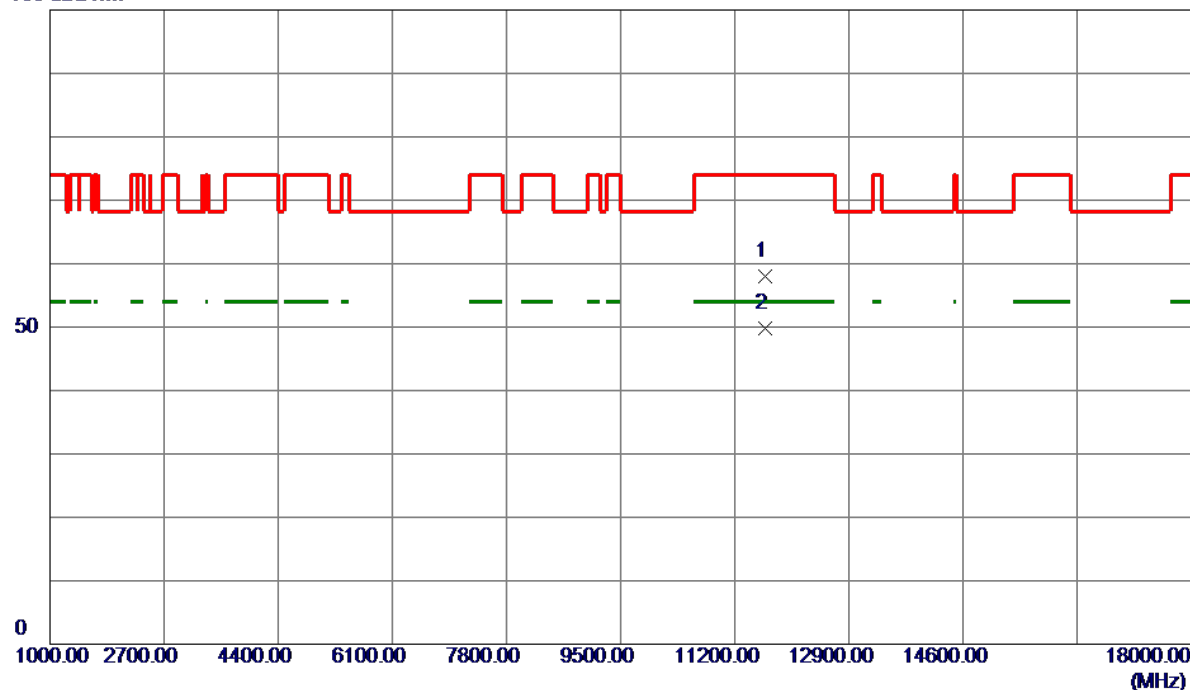
REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical
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100 dBuV/m



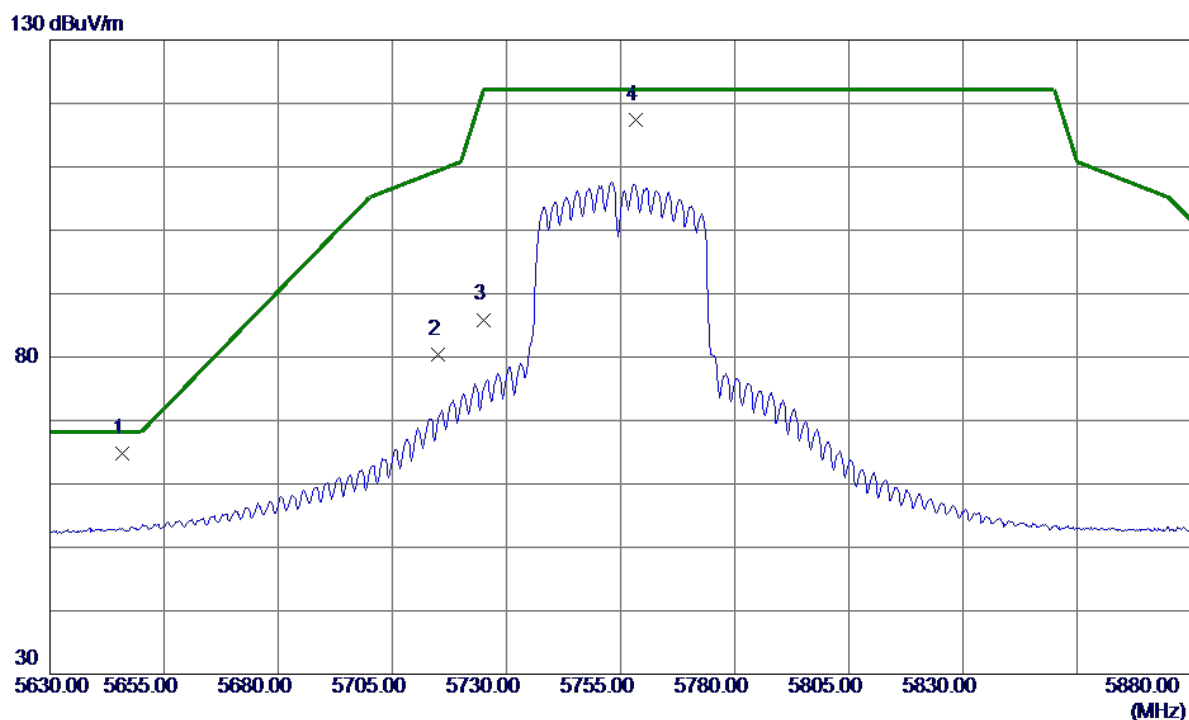
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11647.2800	46.88	11.09	57.97	74.00	-16.03	Peak	
2 *	11649.7600	38.74	11.09	49.83	54.00	-4.17	AVG	

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical
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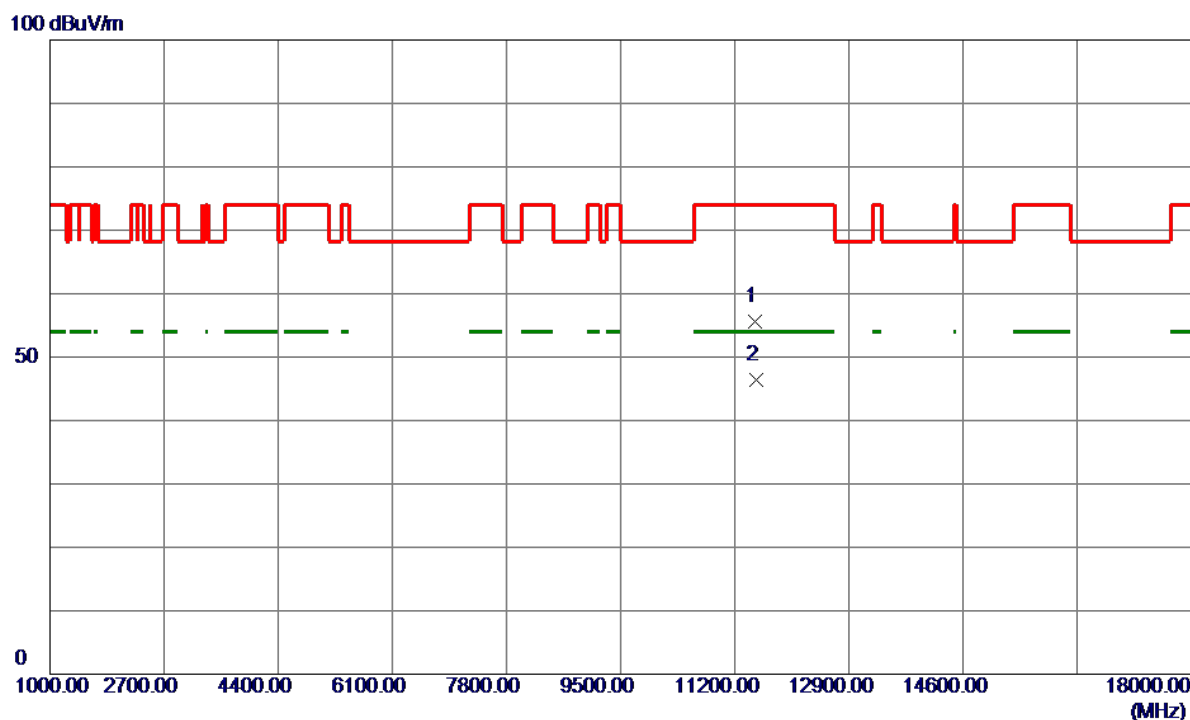
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5645.7500	50.28	14.60	64.88	68.20	-3.32	Peak	
2	5715.0000	65.74	14.75	80.49	109.40	-28.91	Peak	
3	5725.0000	71.13	14.77	85.90	122.20	-36.30	Peak	
4	5758.2500	102.60	14.84	117.44	122.20	-4.76	Peak	No Limit

REMARKS:

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

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

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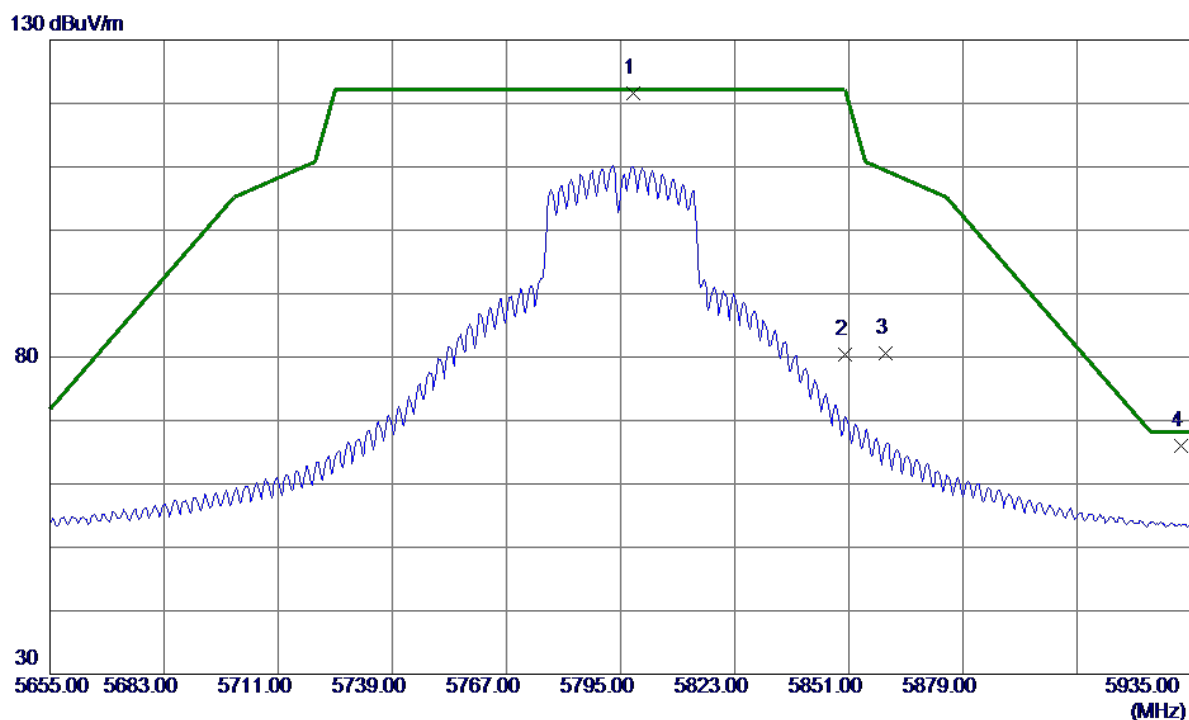


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11507.1000	44.41	11.10	55.51	74.00	-18.49	Peak	
2 *	11514.8000	35.30	11.10	46.40	54.00	-7.60	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5798.0800	106.67	14.93	121.60	122.20	-0.60	Peak	No Limit
2	5850.0000	65.30	15.04	80.34	122.20	-41.86	Peak	
3	5860.0000	65.63	15.06	80.69	109.40	-28.71	Peak	
4	5932.5200	50.70	15.22	65.92	68.20	-2.28	Peak	

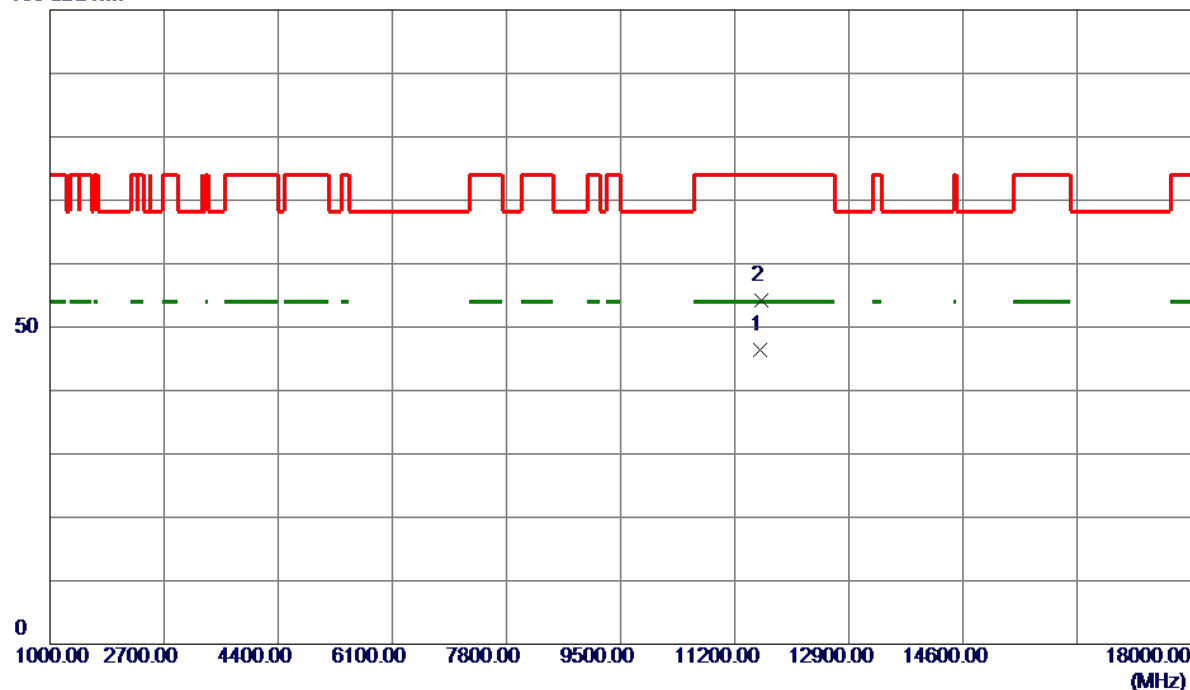
REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical
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100 dBuV/m



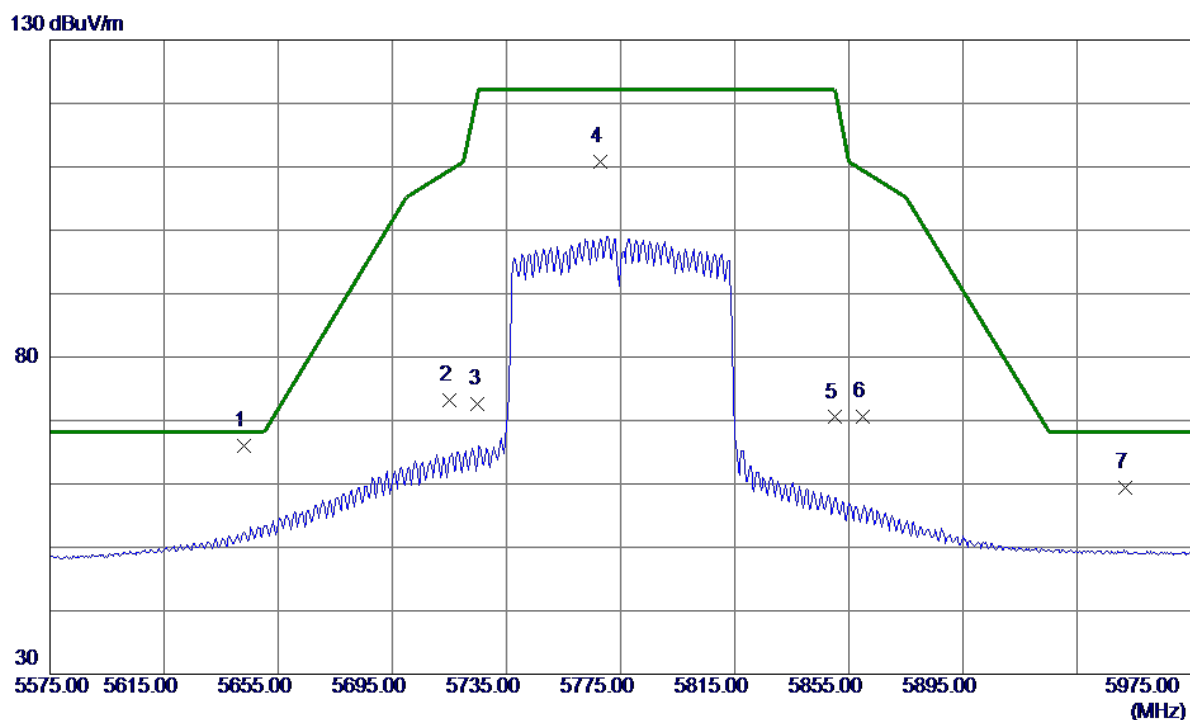
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11584.9500	35.39	11.10	46.49	54.00	-7.51	AVG	
2	11594.7000	43.14	11.09	54.23	74.00	-19.77	Peak	

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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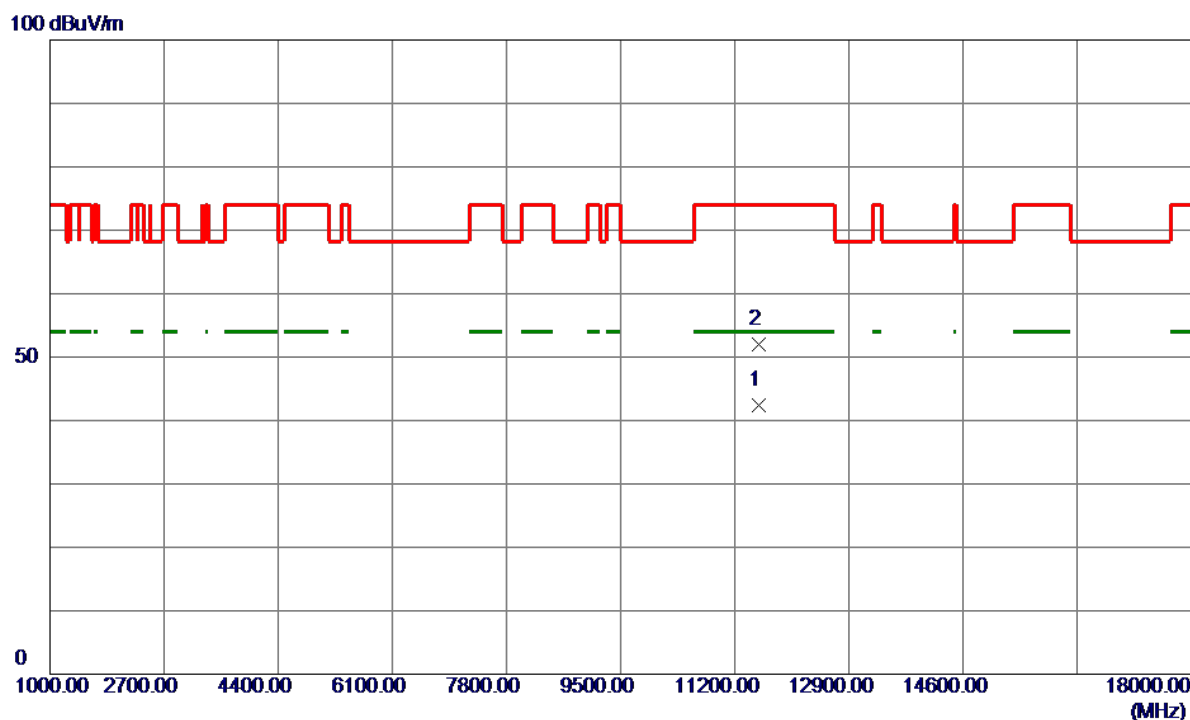
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5643.0000	51.40	14.59	65.99	68.20	-2.21	Peak	
2	5715.0000	58.50	14.75	73.25	109.40	-36.15	Peak	
3	5725.0000	57.91	14.77	72.68	122.20	-49.52	Peak	
4	5767.8000	95.96	14.86	110.82	122.20	-11.38	Peak	No Limit
5	5850.0000	55.46	15.04	70.50	122.20	-51.70	Peak	
6	5860.0000	55.51	15.06	70.57	109.40	-38.83	Peak	
7	5952.0000	44.08	15.27	59.35	68.20	-8.85	Peak	

REMARKS:

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

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical
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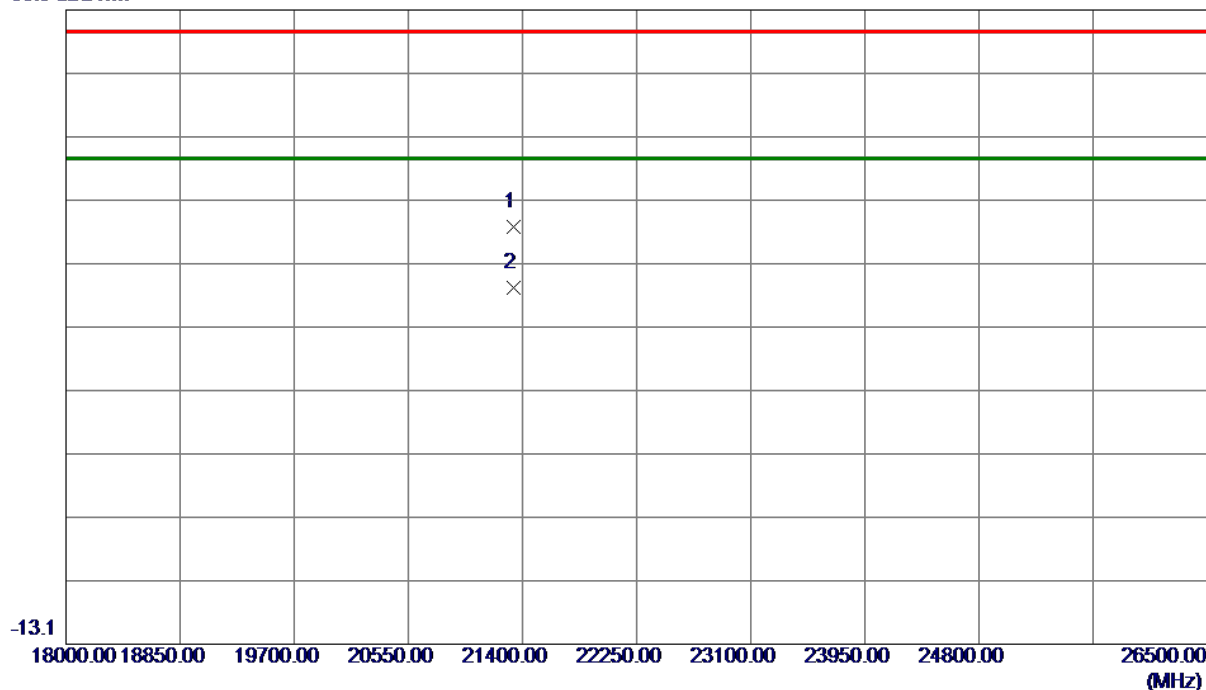
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11549.9500	31.27	11.10	42.37	54.00	-11.63	AVG	
2	11564.9000	40.95	11.10	52.05	74.00	-21.95	Peak	

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	Vertical
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86.9 dBuV/m



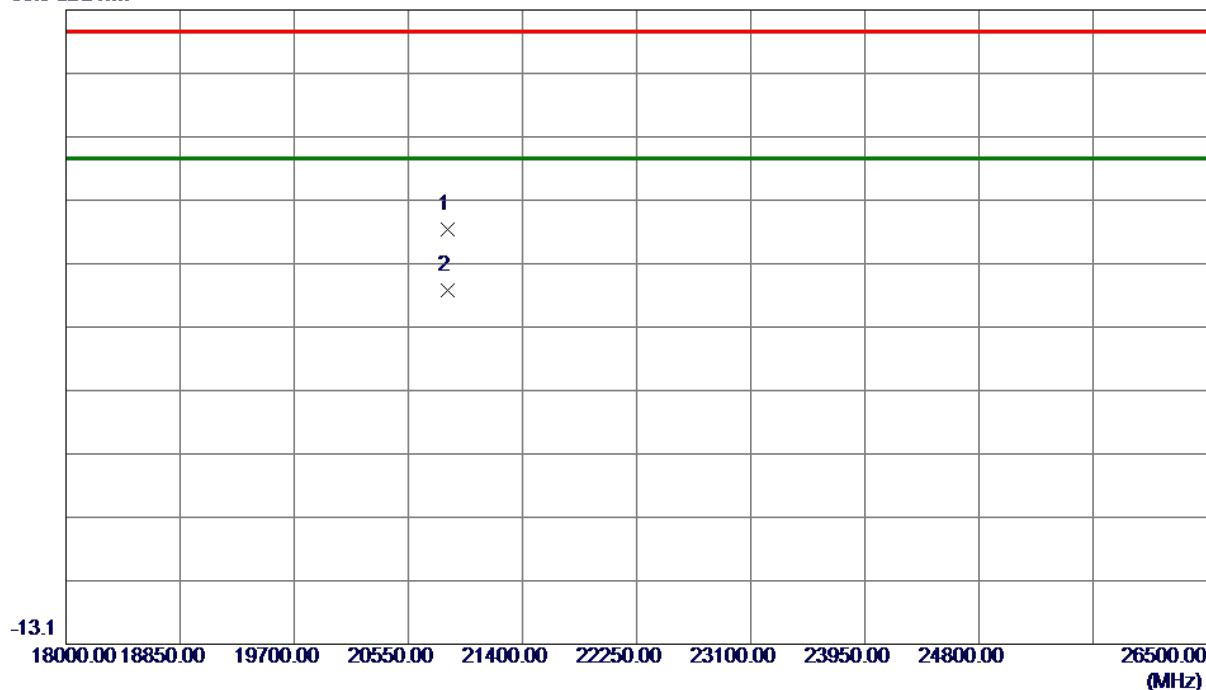
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	21332.0000	52.70	-0.05	52.65	83.50	-30.85	Peak	
2 *	21332.0000	43.10	-0.05	43.05	63.50	-20.45	AVG	

REMARKS:

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

Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Horizontal
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86.9 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	20839.0000	52.44	-0.17	52.27	83.50	-31.23	Peak	
2 *	20839.0000	42.94	-0.17	42.77	63.50	-20.73	AVG	

REMARKS:

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

APPENDIX E - BANDWIDTH

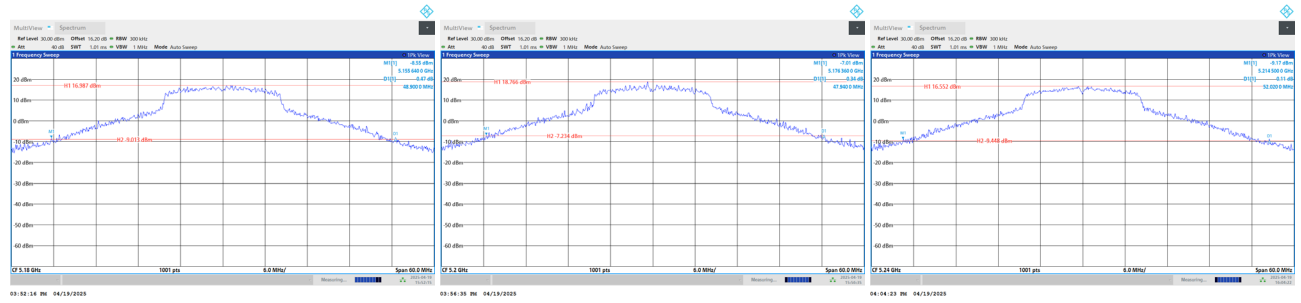
Test Mode	UNII-1_TX A Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	48.900	16.587
40	5200	47.940	16.876
48	5240	52.020	17.593

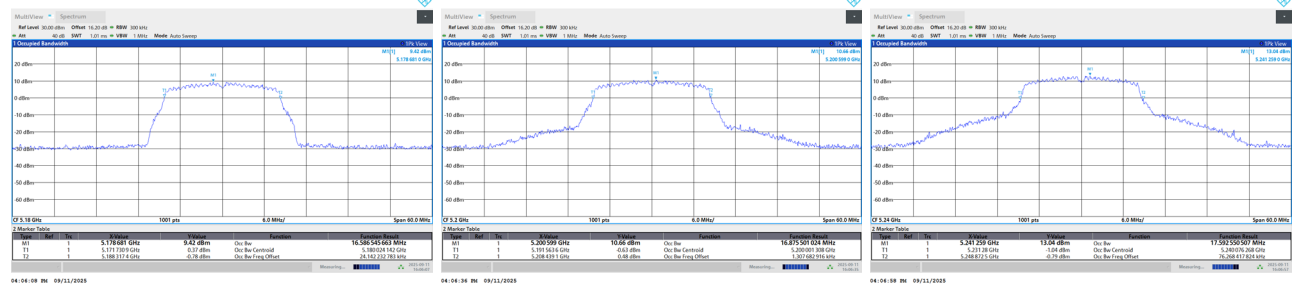
CH36

CH40
26 dB Bandwidth

CH48



99 % Occupied Bandwidth



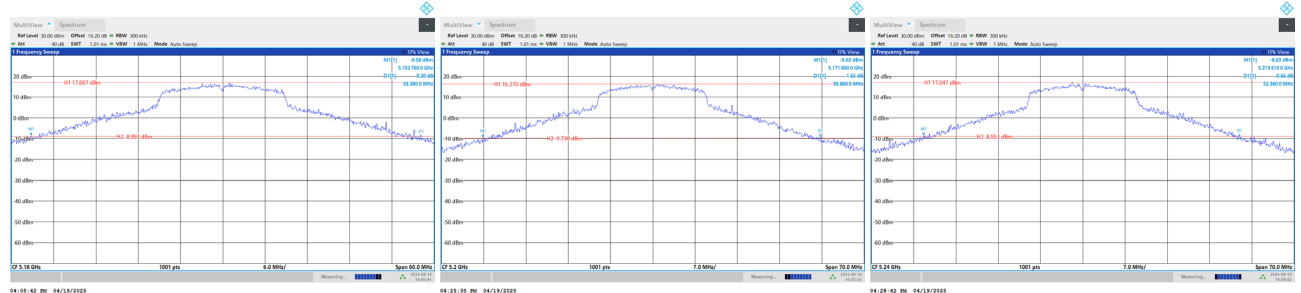
Test Mode	UNII-1_TX AC(VHT20) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	55.380	17.758
40	5200	55.860	18.703
48	5240	52.360	18.594

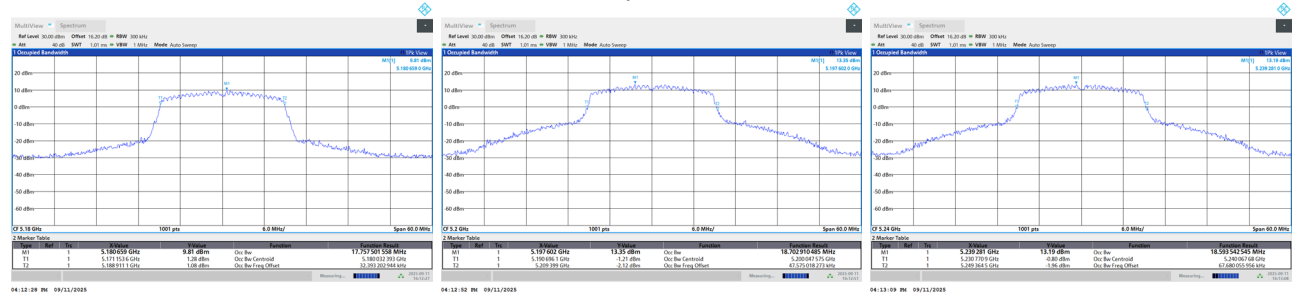
CH36

CH40
26 dB Bandwidth

CH48



99 % Occupied Bandwidth

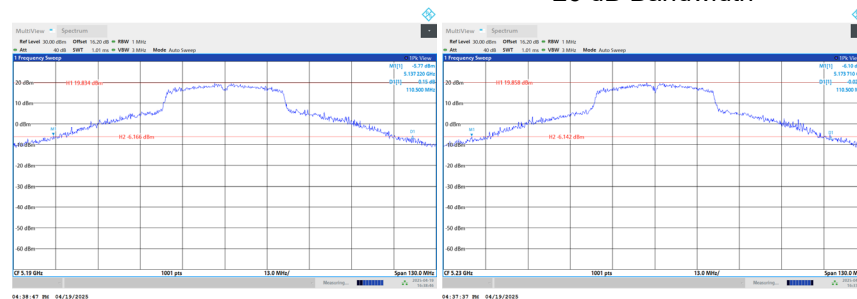


Test Mode	UNII-1_TX AC(VHT40) Mode
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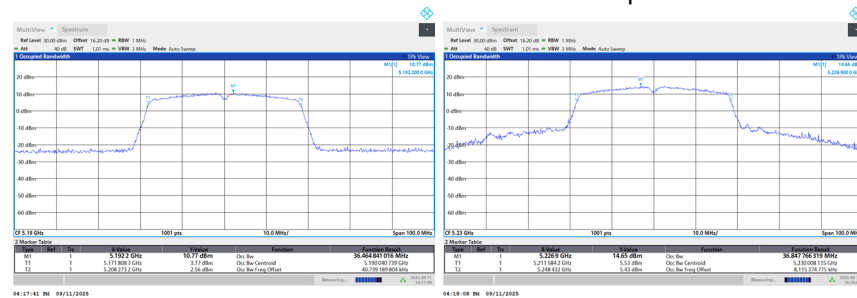
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	110.500	36.465
46	5230	110.500	36.848

CH38

CH46
26 dB Bandwidth



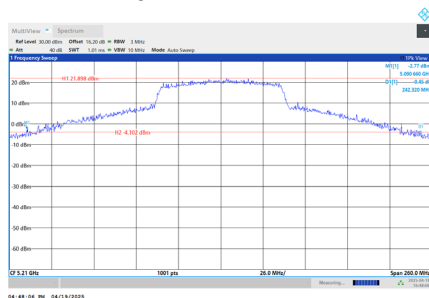
99 % Occupied Bandwidth



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	242.320	75.781

CH42 26 dB Bandwidth



99 % Occupied Bandwidth

