

TEST REPORT

Application No.: KSCR2506001399AT
FCC ID: 2BFQD-LYNXM20
Applicant: Hangzhou Yunshenchu Technology Co., Ltd.
Address of Applicant: Building 3, Zijin Dream Plaza, No.36 Xinran Street, Sandun Town,Xihu District, Hangzhou, Zhejiang, China
Manufacturer: Hangzhou Yunshenchu Technology Co., Ltd.
Address of Manufacturer: Building 3, Zijin Dream Plaza, No.36 Xinran Street, Sandun Town,Xihu District, Hangzhou, Zhejiang, China
Factory: Hangzhou Yunshenchu Technology Co., Ltd.
Address of Factory: Building 3, Zijin Dream Plaza, No.36 Xinran Street, Sandun Town, Xihu District, Hangzhou, Zhejiang, China
Equipment Under Test (EUT):
EUT Name: Wheeled-legged Quadruped Robot
Model No.: Lynx M20 Pro,Lynx M20 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: DEEPRobotics
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-06-26
Date of Test: 2025-08-22 to 2025-10-10
Date of Issue: 2025-10-10

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Revision Record			
Version	Description	Date	Remark
00	Original	2025-10-10	/

Authorized for issue by:				
Tested By		Damon Zhou		
		Damon_Zhou/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (Below 1GHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Note: There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model Lynx M20 Pro was tested since their differences are model number, number of circuit boards, number of interfaces.

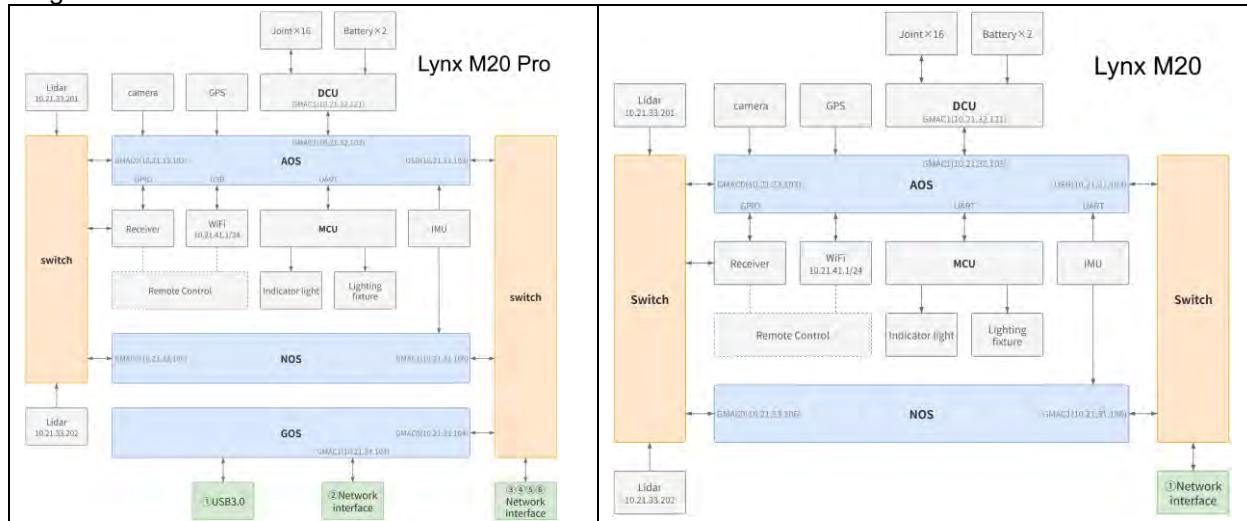
details are as follows

Number of circuit boards: Lynx M20 Pro Contains three circuit system: AOS,NOS and GOS,Lynx M20 Contains two circuit system: AOS and NOS.

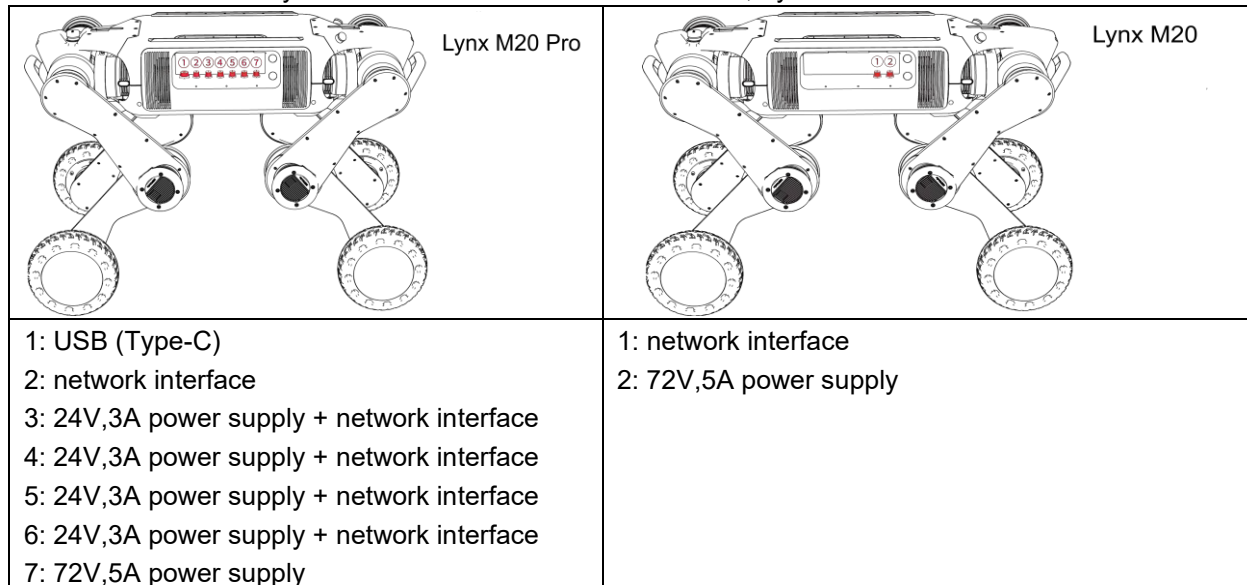
AOS (Motion Host AOS): Responsible for motion control, system monitoring, and other core platform functions.

Nos (Navigation Host Nos): Responsible for perception – related tasks such as mapping, localization and navigation, obstacle avoidance, and autonomous charging.

GOS (General Host GOS): Deploys a basic image system that allows users to develop applications on the general host.



Number of interfaces: Lynx M20 Pro Contains seven interfaces, Lynx M20 Contains two interfaces.



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100-240 V; 47-63Hz; 5A Max. Battery model: DP72-045-b Nominal voltage: DC 72V Rated capacity: 4.5Ah (324Wh) Typical capacity: 4.7Ah (338.4Wh) Charging voltage: DC84V Standard charge current: 2.25A Maximum charge current: 5A Standard discharge current: 0.9A Maximum discharge current: 15A
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels) U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels) U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel) U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
Antenna Type:	Omni-Directional Antenna
Antenna Gain:	U-NII-1: -4.45dBi (Provided by the manufacturer) U-NII-3: -2.14dBi (Provided by the manufacturer)

4.2 Power level setting using in test:

Channel	802.11a	802.11ac(VHT20)
	Ant 1	Ant 1
36	52	52
40	52	52
48	52	52
149	50	50
157	52	52
165	54	54
Channel	802.11ac(VHT40)	
	Ant 1	
38	50	
46	50	
151	50	
159	51	
Channel	802.11ac(VHT80)	
	Ant 1	
42	52	
155	50	

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	/	/
DC Power Supply	/	/	/

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.		

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	07/09/2025	07/08/2026
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	07/09/2025	07/08/2026
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/15/2025	01/14/2026
4	Signal Generator	R&S	SMBV100B	KSEM032	02/19/2025	02/18/2026
5	Signal Generator	R&S	SMW200A	KSEM020-1	07/09/2025	07/08/2026
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	07/08/2025	07/07/2026
7	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
8	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	07/09/2025	07/08/2026
9	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	02/19/2025	02/18/2026
10	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	07/08/2025	07/07/2026
11	Switcher	TST	FY562	KUS2001M001-4	01/15/2025	01/14/2026
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	01/14/2025	01/13/2026
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	07/15/2025	07/14/2026
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	02/26/2025	02/25/2026
15	Software	BST	TST-PASS	/	NCR	NCR
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	07/09/2025	07/08/2026
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	02/18/2025	02/17/2026
3	Signal Generator	Agilent	E8257C	KS301066	07/22/2025	07/21/2026
4	Loop Antenna (9KHz-30MHz)	COM-POWER	AL-130R	KUS1806E001	07/11/2025	07/10/2026
5	Bilog Antenna (30MHz-1GHz)	TESEQ	CBL 6112D	KUS1806E005	07/12/2025	07/11/2026
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	03/23/2024	03/22/2026
7	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	01/07/2024	01/06/2026
8	Amplifier(30MHz~1GHz)	TST	LNA009100G30	KSEM061	01/15/2025	01/14/2026
9	Amplifier(400MHz~8GHz)	TST	LNA004080G30	KSEM062	01/15/2025	01/14/2026
10	Amplifier(1GHz~18GHz)	TST	LNA010180G45	KSEM039	07/09/2025	07/08/2026
11	Amplifier(18~40GHz)	TST	LNA180400G40	KSEM038	07/09/2025	07/08/2026
12	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	02/26/2025	02/25/2026
13	Software	Faratronic	EZ_EMV-v 3A1	/	NCR	NCR
14	Software	ESE	E3_V 6.111221a	/	NCR	NCR

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Omni-Directional antenna on the main PCB and no consideration of replacement. The best case gain of the antenna are U-NII-1: -4.45dBi and U-NII-3: -2.14dBi.

Antenna location: Refer to Internal photo.

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.

7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3M

Limit:

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
960-1000	500	3

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

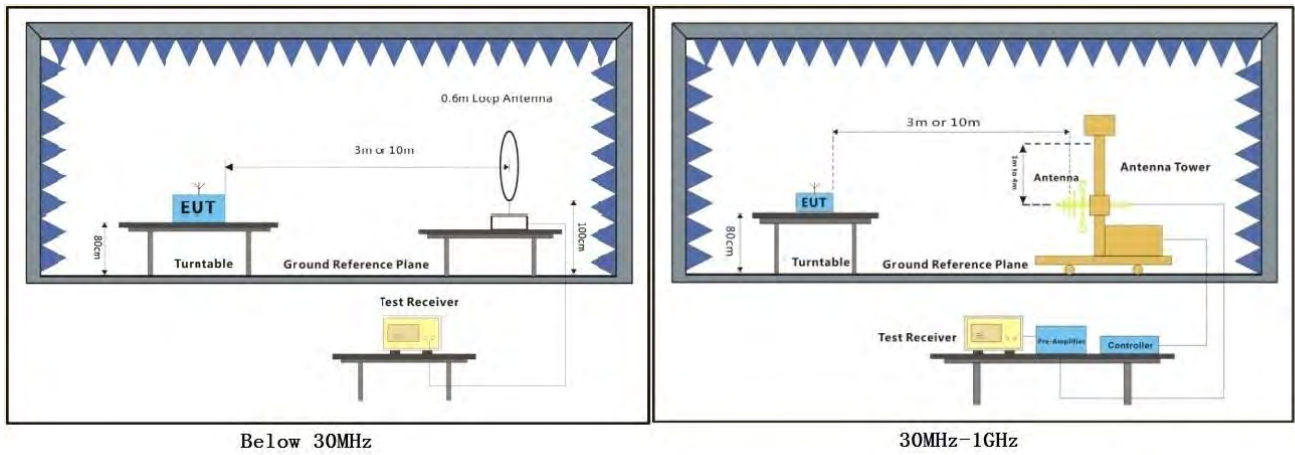
Humidity: 45.2 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

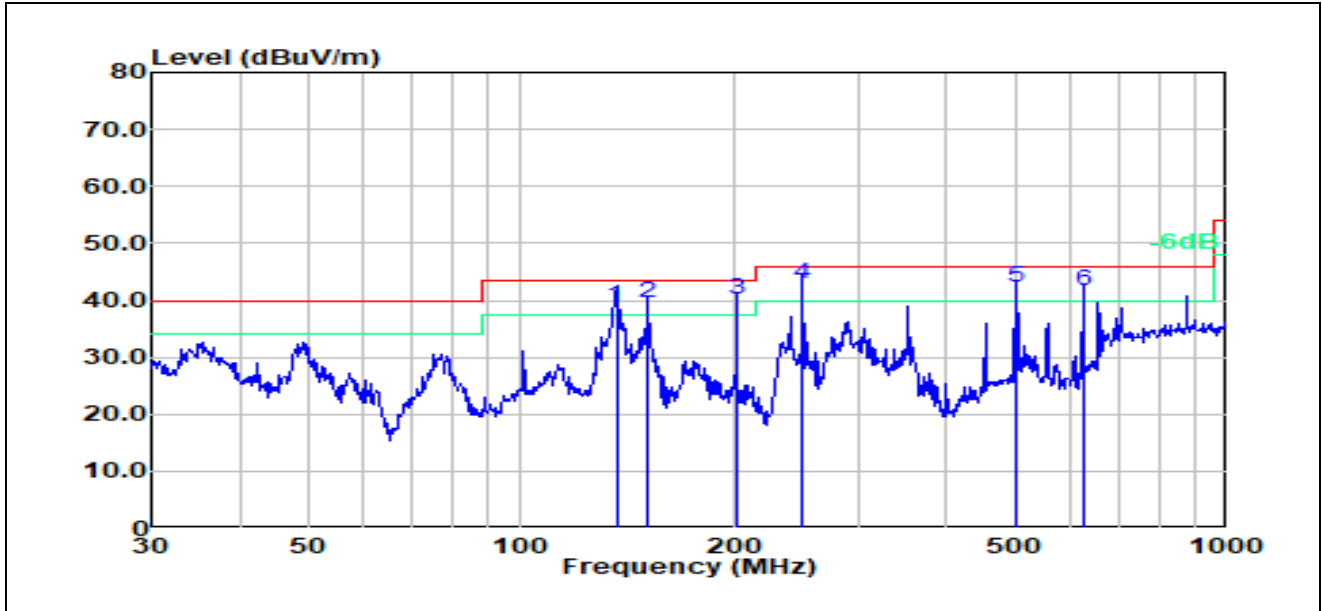
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test Mode: 01; Polarity: Horizontal

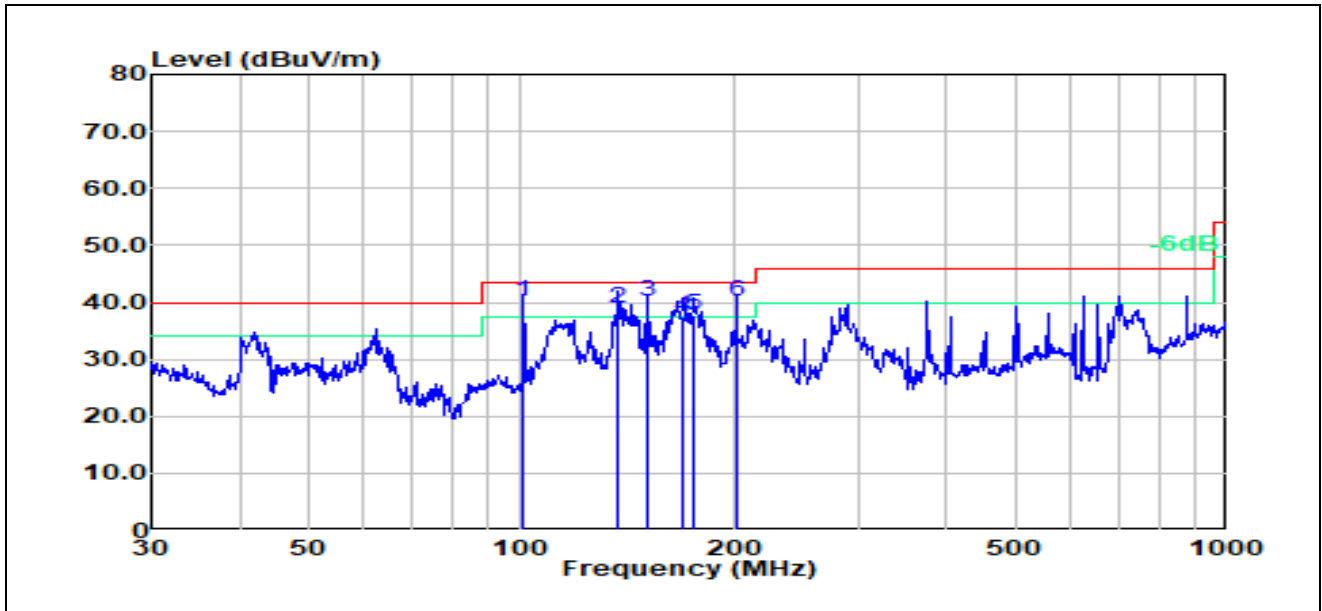
Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	136.46	18.81	20.21	39.02	43.50	-4.48	100	0	QP
2	151.60	21.12	18.33	39.45	43.50	-4.05	200	360	QP
3	202.10	22.84	17.17	40.01	43.50	-3.49	100	197	QP
4	250.30	22.67	20.24	42.91	46.00	-3.09	100	334	QP
5	501.18	15.58	26.71	42.29	46.00	-3.71	100	280	QP
6	625.08	12.92	28.71	41.63	46.00	-4.37	200	203	QP

Test Mode: 01; Polarity: Vertical

Test Data :



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	100.93	21.76	18.47	40.23	43.50	-3.27	100	287	QP
2	137.42	18.62	20.40	39.02	43.50	-4.48	100	115	QP
3	151.60	21.82	18.33	40.15	43.50	-3.35	100	60	QP
4	169.60	20.59	16.99	37.58	43.50	-5.92	100	233	QP
5	175.65	20.00	17.62	37.62	43.50	-5.88	100	274	QP
6	202.10	23.02	17.17	40.19	43.50	-3.31	100	322	QP

7.2 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3M

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 45.3 % RH

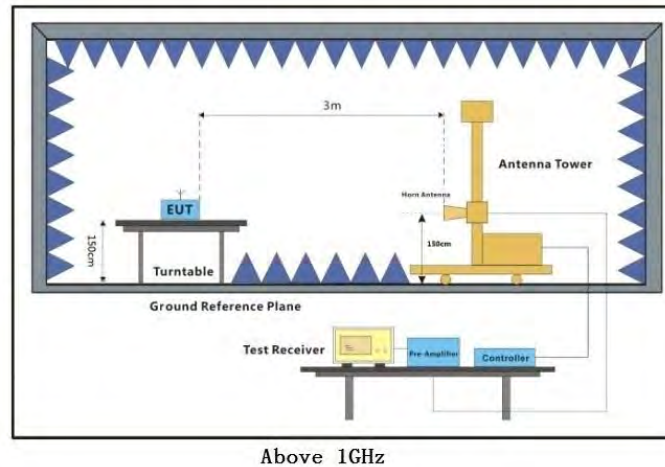
Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is

		recorded in the report.
Final test	02	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



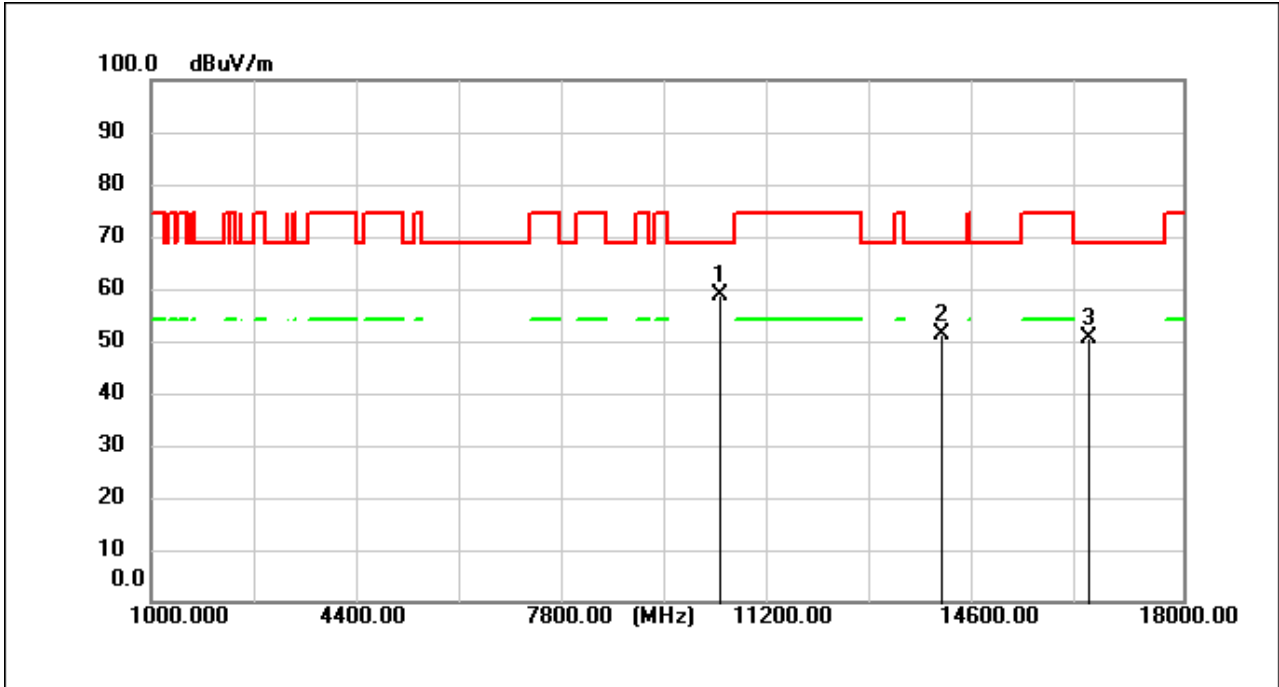
7.2.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. 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 from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

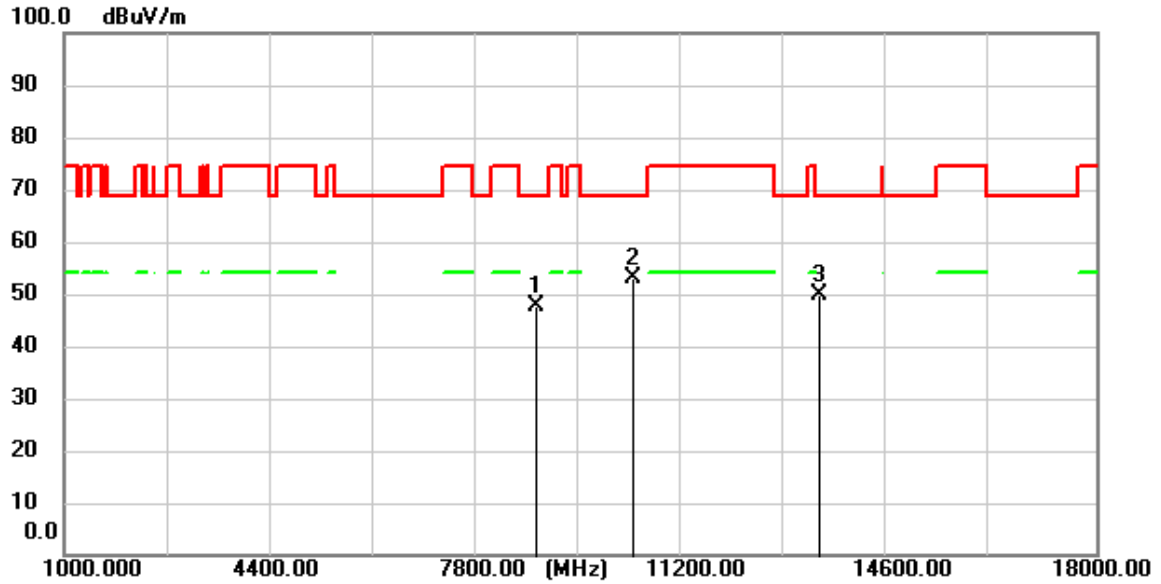
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal



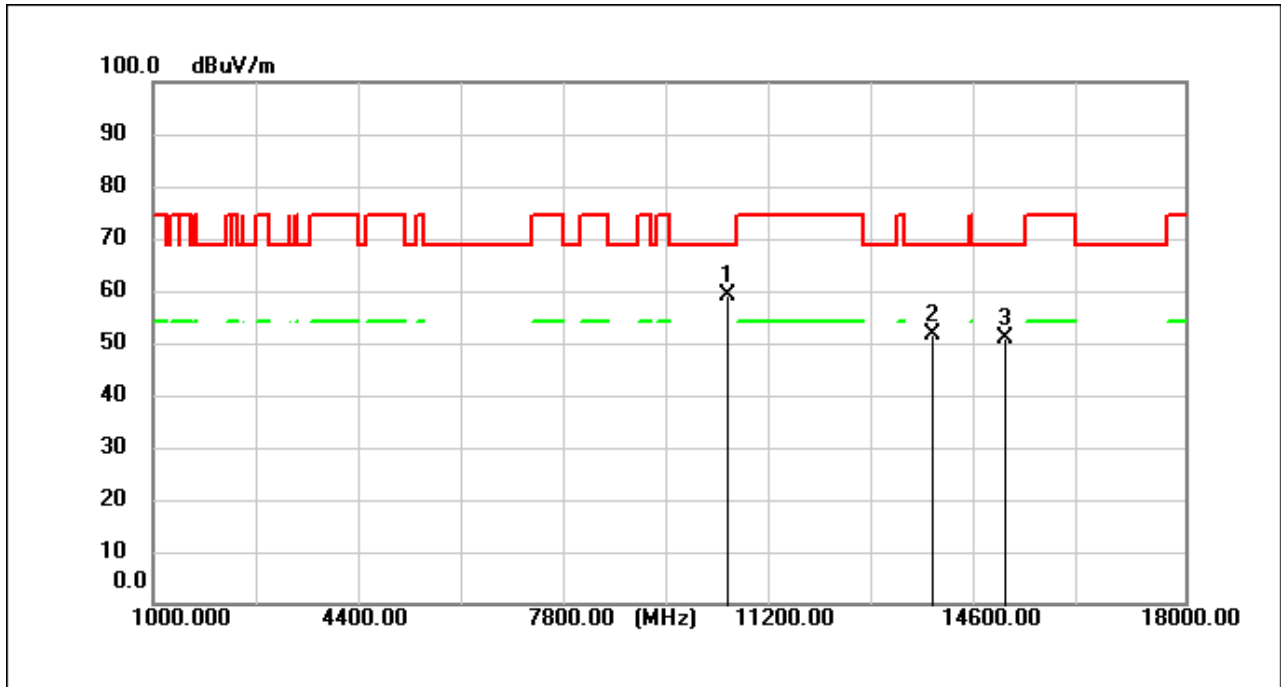
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10361.900	65.05	-6.24	58.81	68.30	-9.49	peak
2	14023.700	54.46	-3.37	51.09	68.30	-17.21	peak
3	16439.400	52.93	-2.46	50.47	68.30	-17.83	peak

11a_TX_CH_36_Vertical



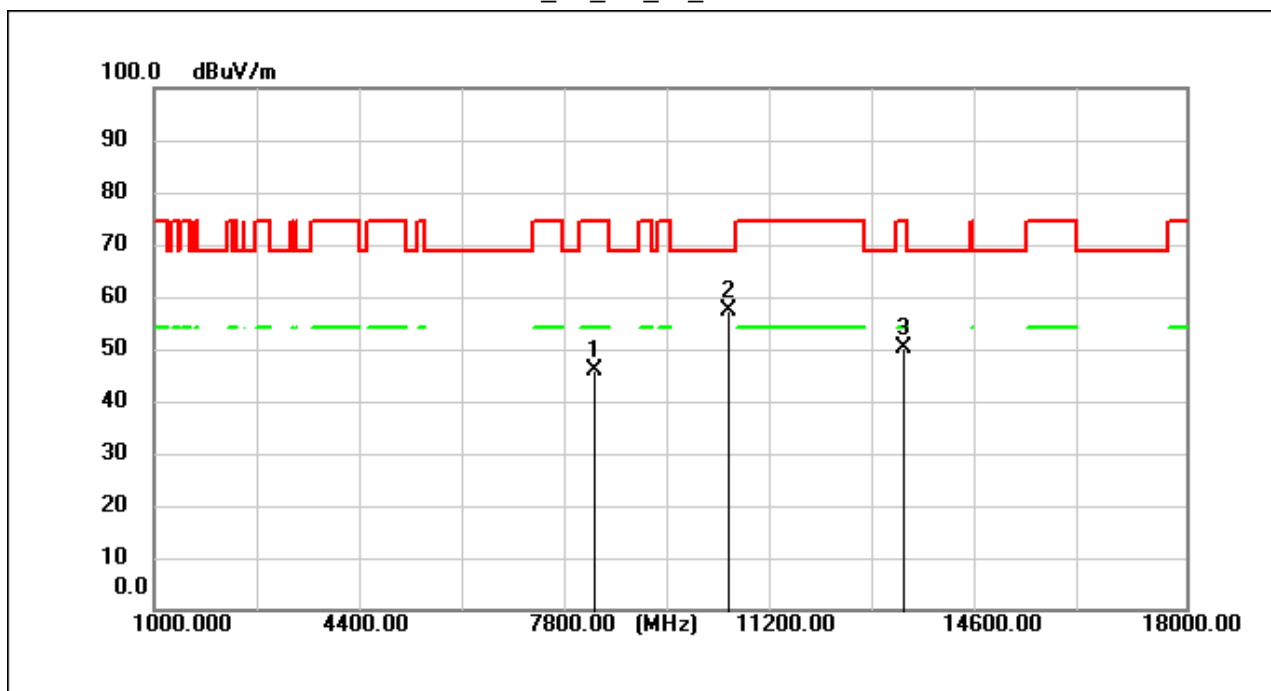
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8767.300	56.52	-8.81	47.71	68.30	-20.59	peak
2	10371.250	59.25	-6.22	53.03	68.30	-15.27	peak
3	13438.900	53.94	-3.98	49.96	68.30	-18.34	peak

11a_TX_CH_44_Horizontal



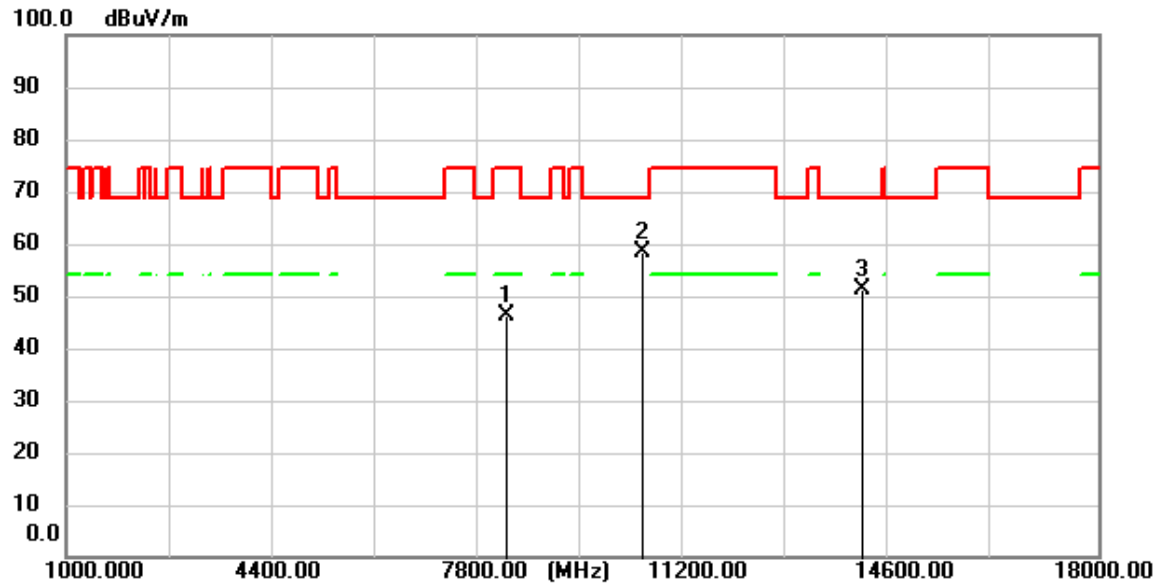
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10440.100	65.38	-6.15	59.23	68.30	-9.07	peak
2	13826.500	55.00	-3.52	51.48	68.30	-16.82	peak
3	15025.850	54.43	-3.64	50.79	68.30	-17.51	peak

11a_TX_CH_44_Vertical



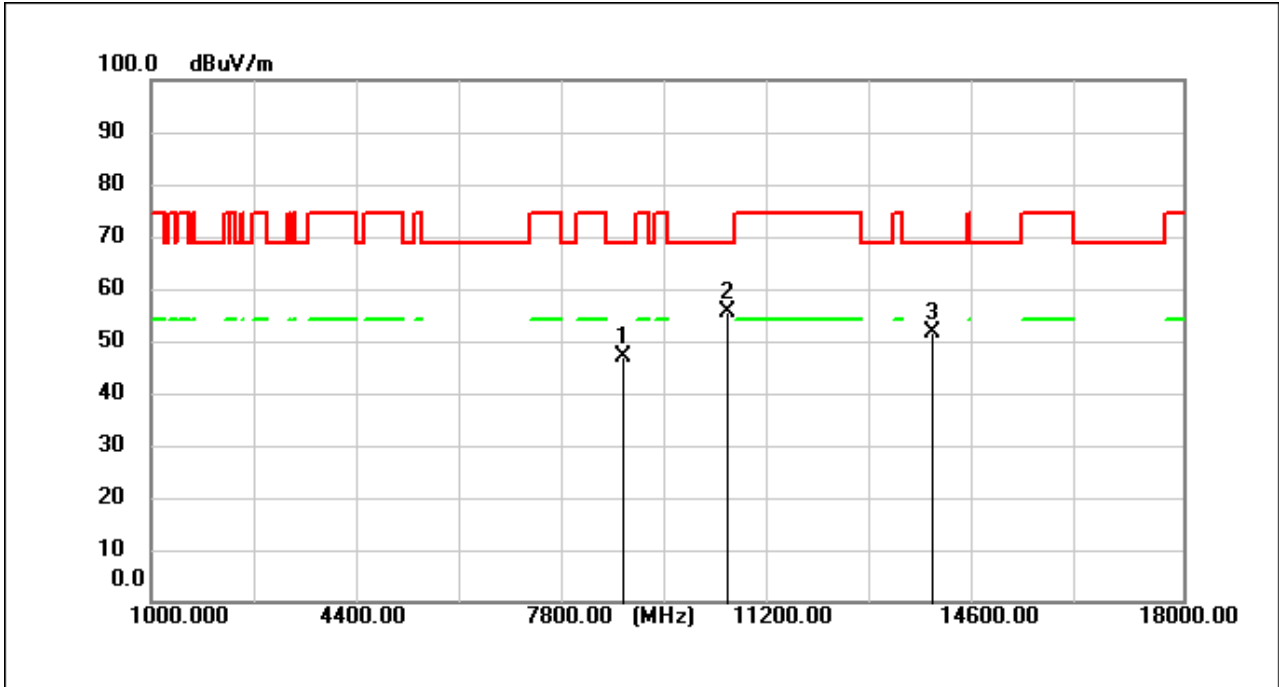
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8234.350	55.62	-9.63	45.99	74.00	-28.01	peak
2	10437.550	63.33	-6.16	57.17	68.30	-11.13	peak
3	13340.300	54.39	-4.21	50.18	74.00	-23.82	peak

11a_TX_CH_48_Horizontal



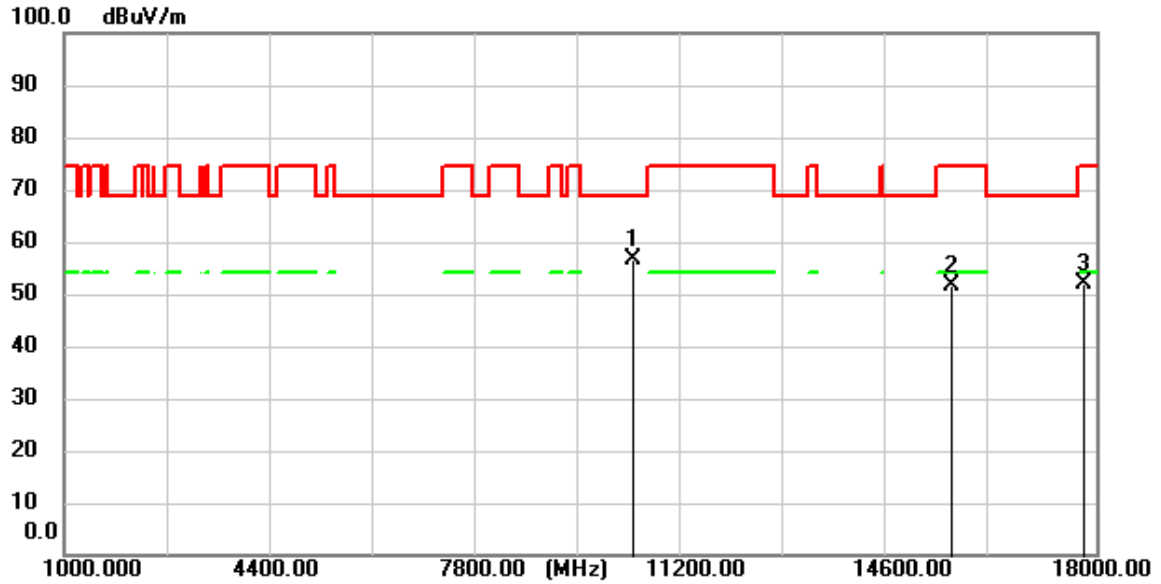
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8236.050	55.79	-9.63	46.16	74.00	-27.84	peak
2	10478.350	64.40	-6.12	58.28	68.30	-10.02	peak
3	14106.150	54.65	-3.43	51.22	68.30	-17.08	peak

11a_TX_CH_48_Veritical



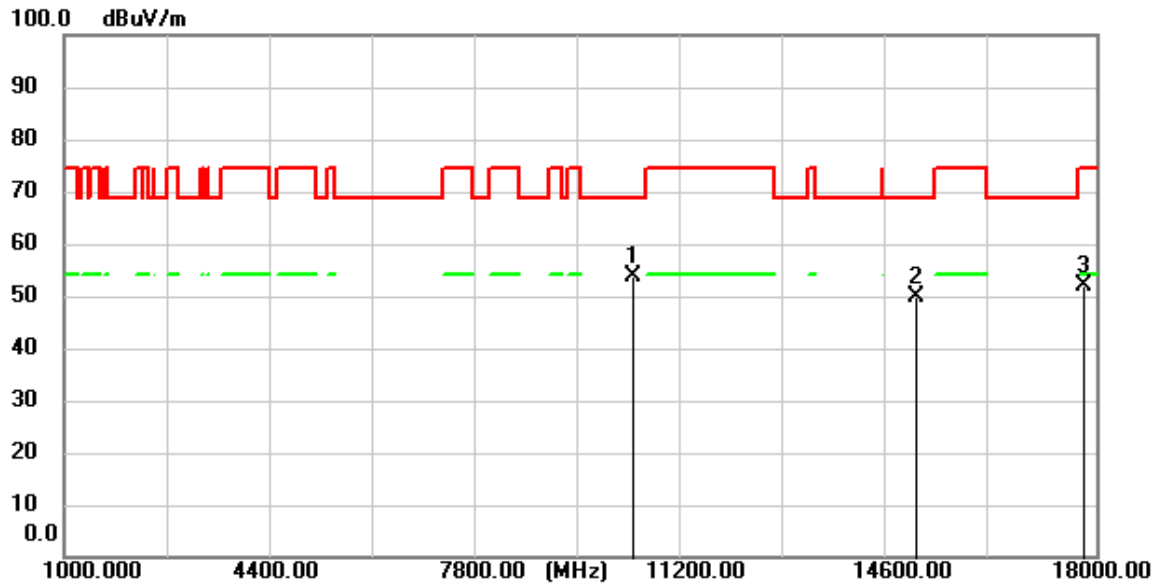
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8785.150	55.55	-8.75	46.80	68.30	-21.50	peak
2	10481.750	61.48	-6.11	55.37	68.30	-12.93	peak
3	13875.800	55.02	-3.47	51.55	68.30	-16.75	peak

11ac(VHT20)_TX_CH_36_Horizontal



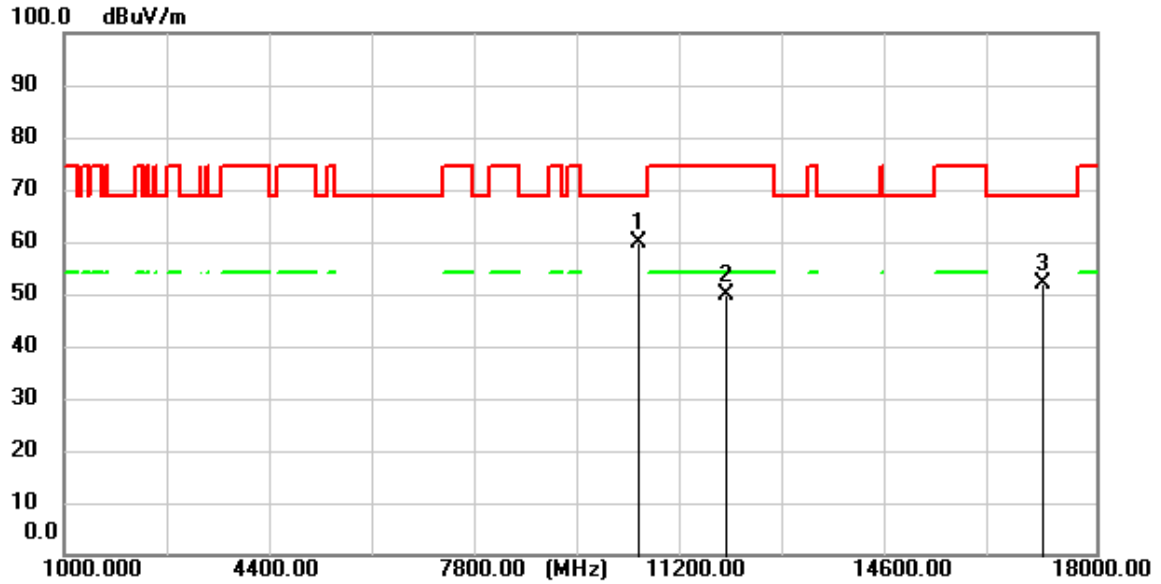
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10361.050	62.36	-5.88	56.48	68.30	-11.82	peak
2	15626.800	55.36	-3.71	51.65	74.00	-22.35	peak
3	17789.200	53.30	-1.35	51.95	74.00	-22.05	peak

11ac(VHT20)_TX_CH_36_Verical



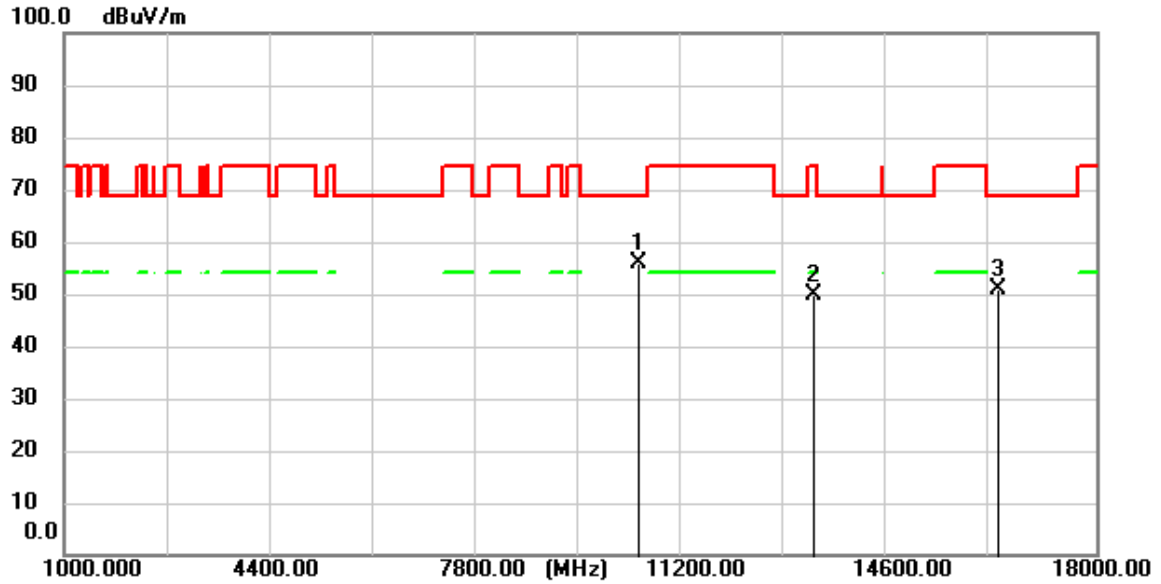
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.150	59.60	-5.88	53.72	68.30	-14.58	peak
2	15034.350	54.35	-4.70	49.65	68.30	-18.65	peak
3	17801.100	53.35	-1.35	52.00	74.00	-22.00	peak

11ac(VHT20)_TX_CH_44_Horizontal



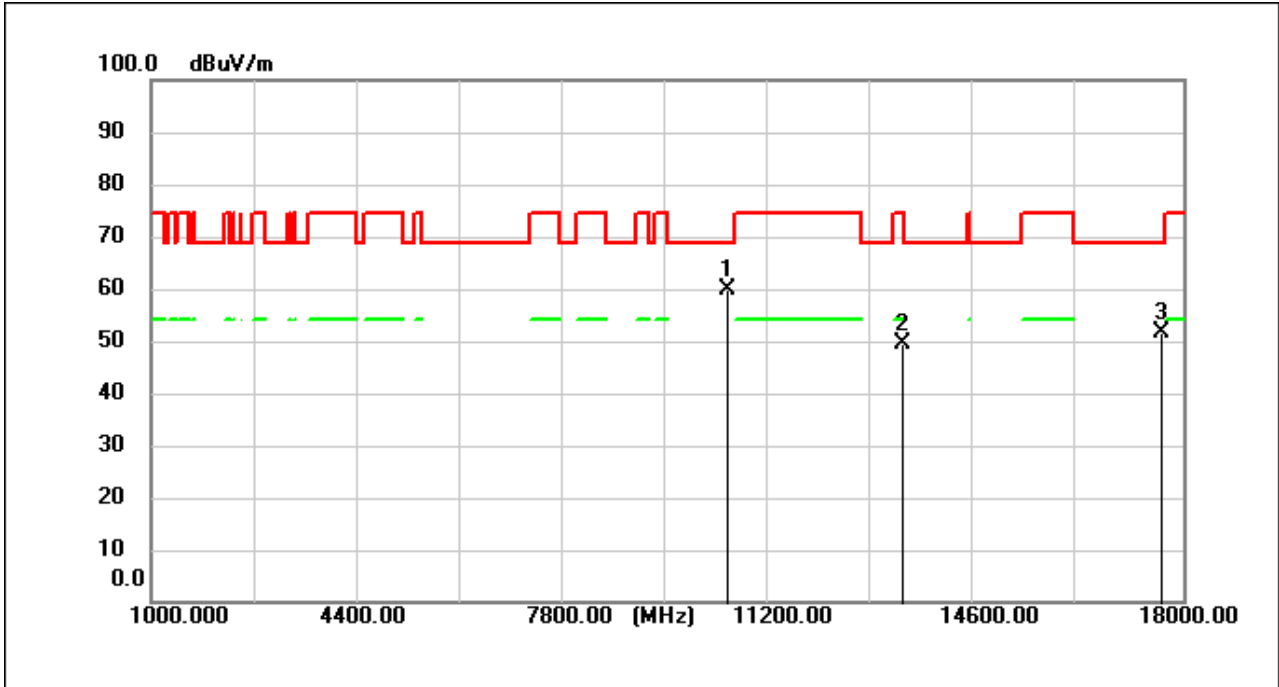
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10435.850	65.78	-5.94	59.84	68.30	-8.46	peak
2	11914.000	56.14	-6.48	49.66	74.00	-24.34	peak
3	17109.200	53.66	-1.70	51.96	68.30	-16.34	peak

11ac(VHT20)_TX_CH_44_Vertical



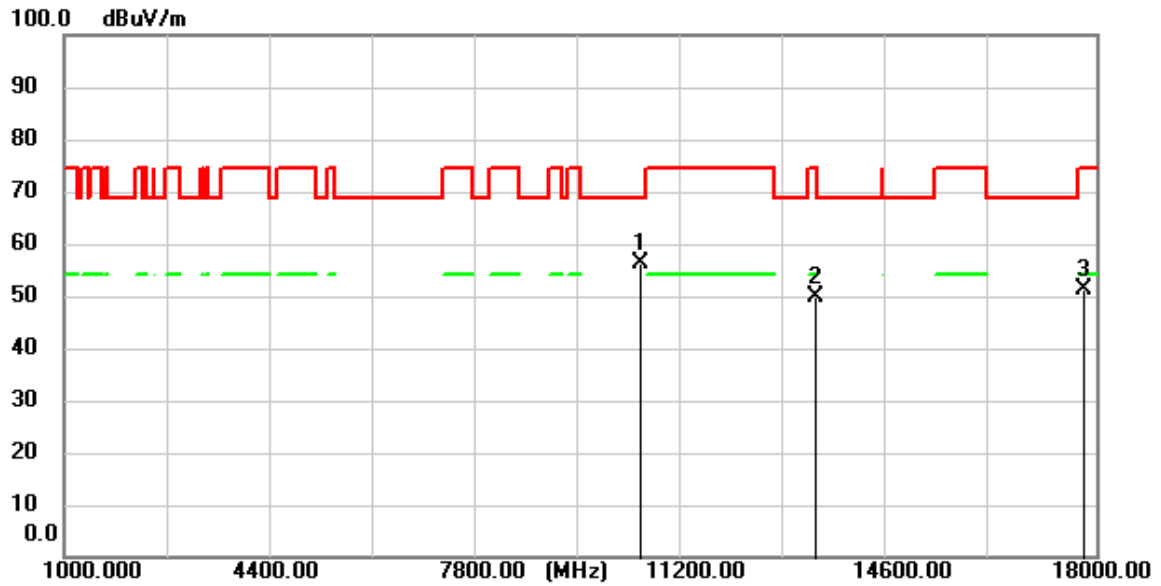
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10444.350	61.77	-5.95	55.82	68.30	-12.48	peak
2	13353.050	55.35	-5.62	49.73	74.00	-24.27	peak
3	16379.050	53.58	-2.58	51.00	68.30	-17.30	peak

11ac(VHT20)_TX_CH_48_Horizontal



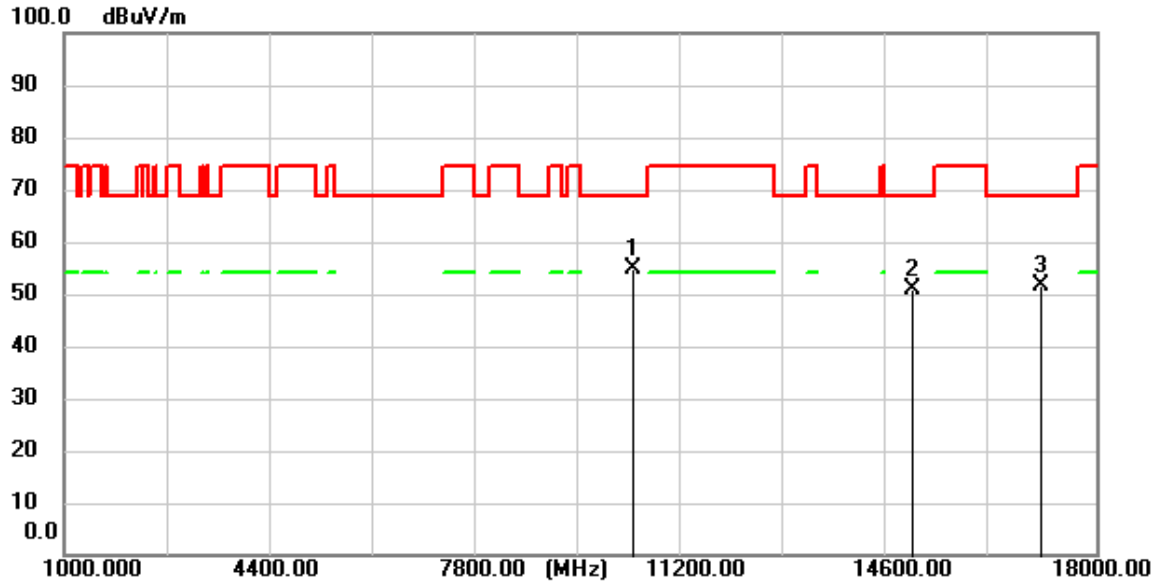
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10483.450	65.66	-5.98	59.68	68.30	-8.62	peak
2	13393.000	55.19	-5.60	49.59	74.00	-24.41	peak
3	17632.800	52.95	-1.37	51.58	68.30	-16.72	peak

11ac(VHT20)_TX_CH_48_Vertical

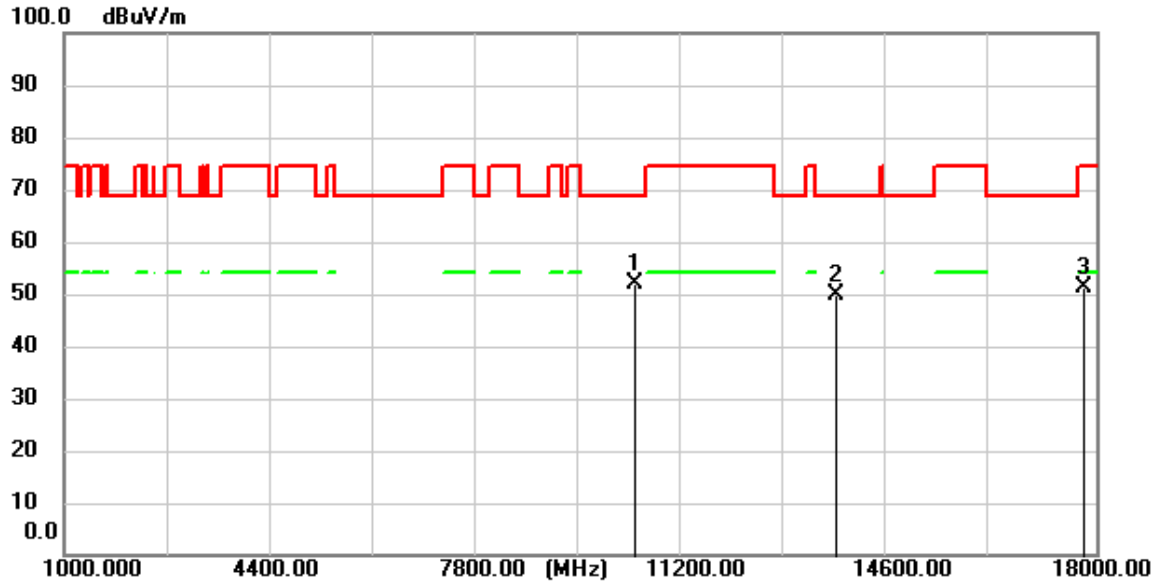


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10476.650	62.08	-5.98	56.10	68.30	-12.20	peak
2	13379.400	55.54	-5.61	49.93	74.00	-24.07	peak
3	17808.750	52.77	-1.35	51.42	74.00	-22.58	peak

11ac(VHT40)_TX_CH_38_Horizontal

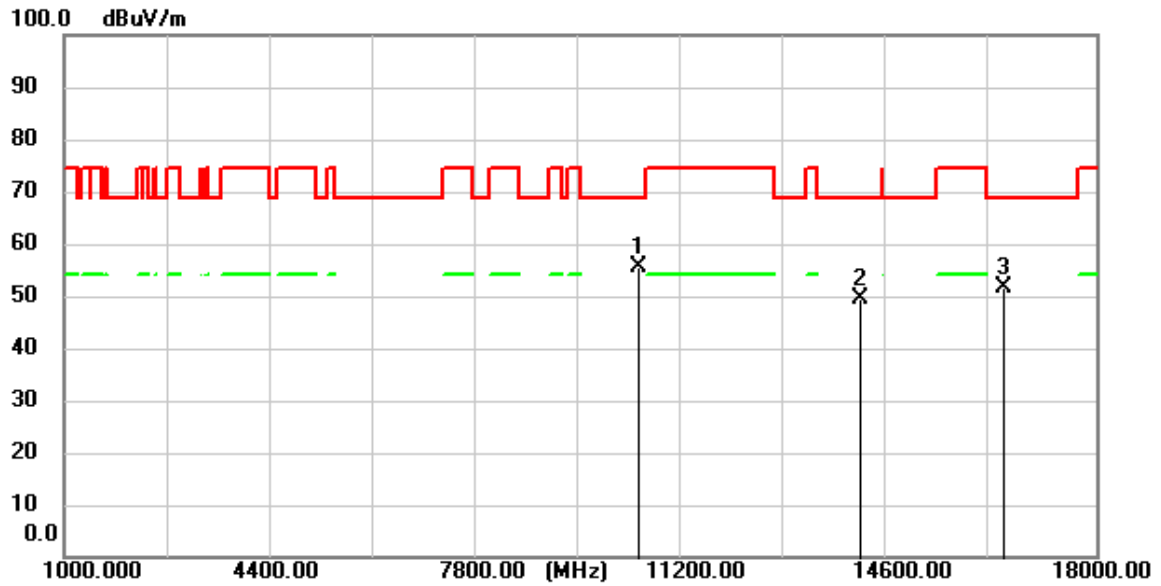


11ac(VHT40)_TX_CH_38_Verical



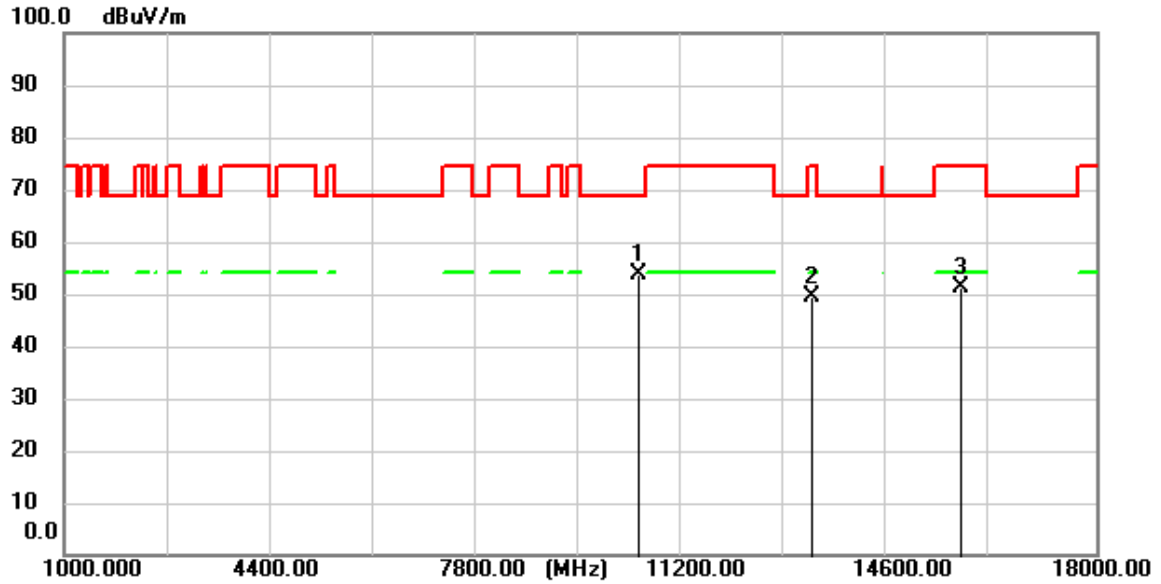
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10387.400	58.02	-5.91	52.11	68.30	-16.19	peak
2	13714.300	55.16	-5.44	49.72	68.30	-18.58	peak
3	17809.600	52.52	-1.34	51.18	74.00	-22.82	peak

11ac(VHT40)_TX_CH_46_Horizontal



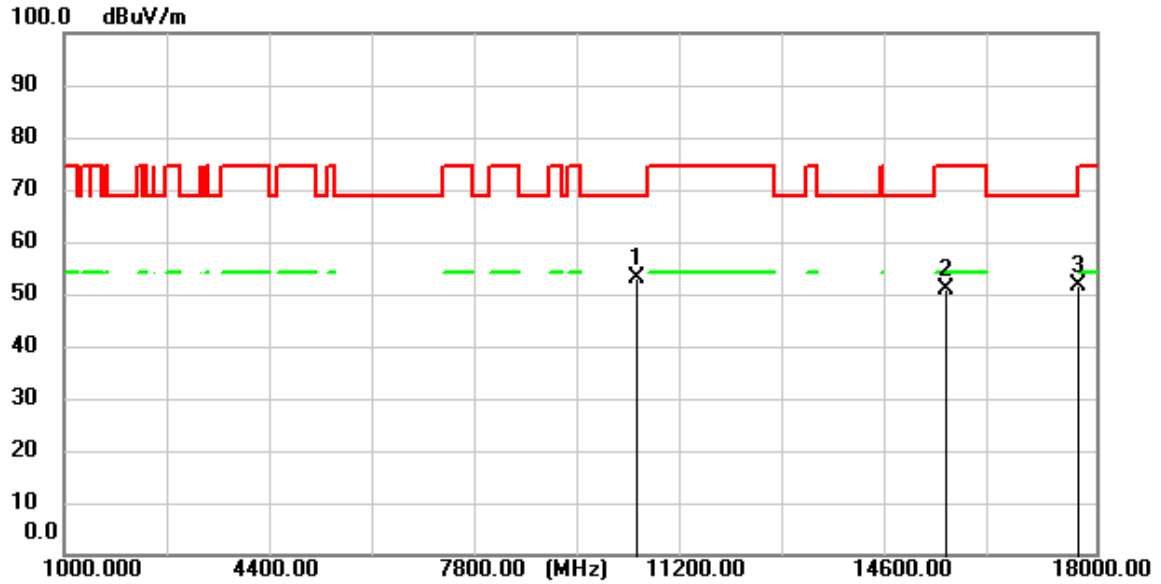
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10461.350	61.60	-5.96	55.64	68.30	-12.66	peak
2	14096.800	54.80	-5.28	49.52	68.30	-18.78	peak
3	16484.450	53.94	-2.45	51.49	68.30	-16.81	peak

11ac(VHT40)_TX_CH_46_Verical



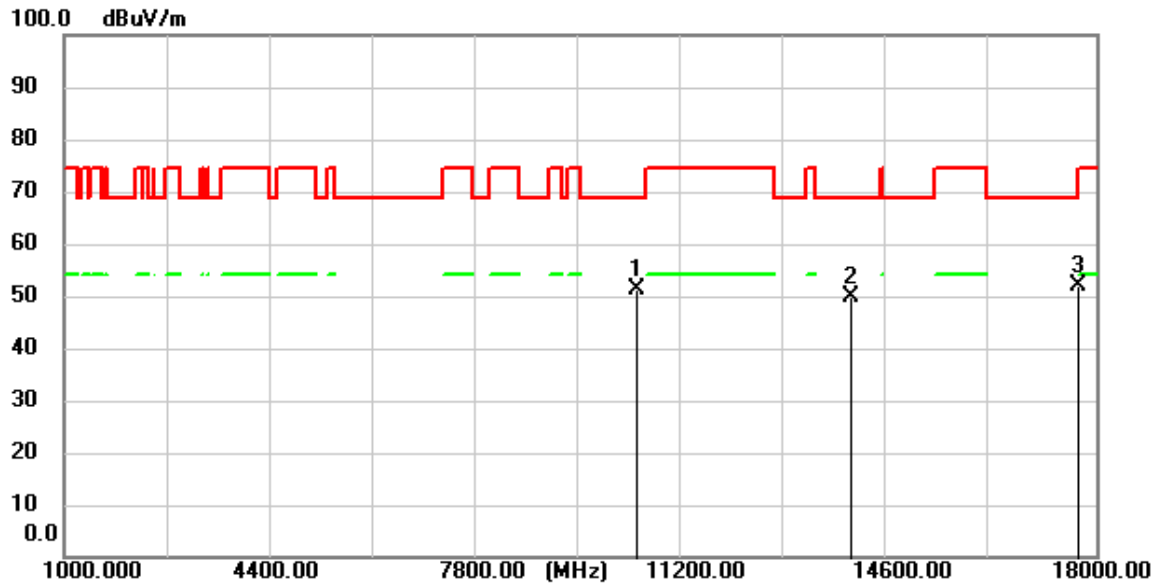
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10464.750	59.59	-5.96	53.63	68.30	-14.67	peak
2	13321.600	55.08	-5.64	49.44	74.00	-24.56	peak
3	15780.650	54.65	-3.46	51.19	74.00	-22.81	peak

11ac(VHT80)_TX_CH_42_Horizontal

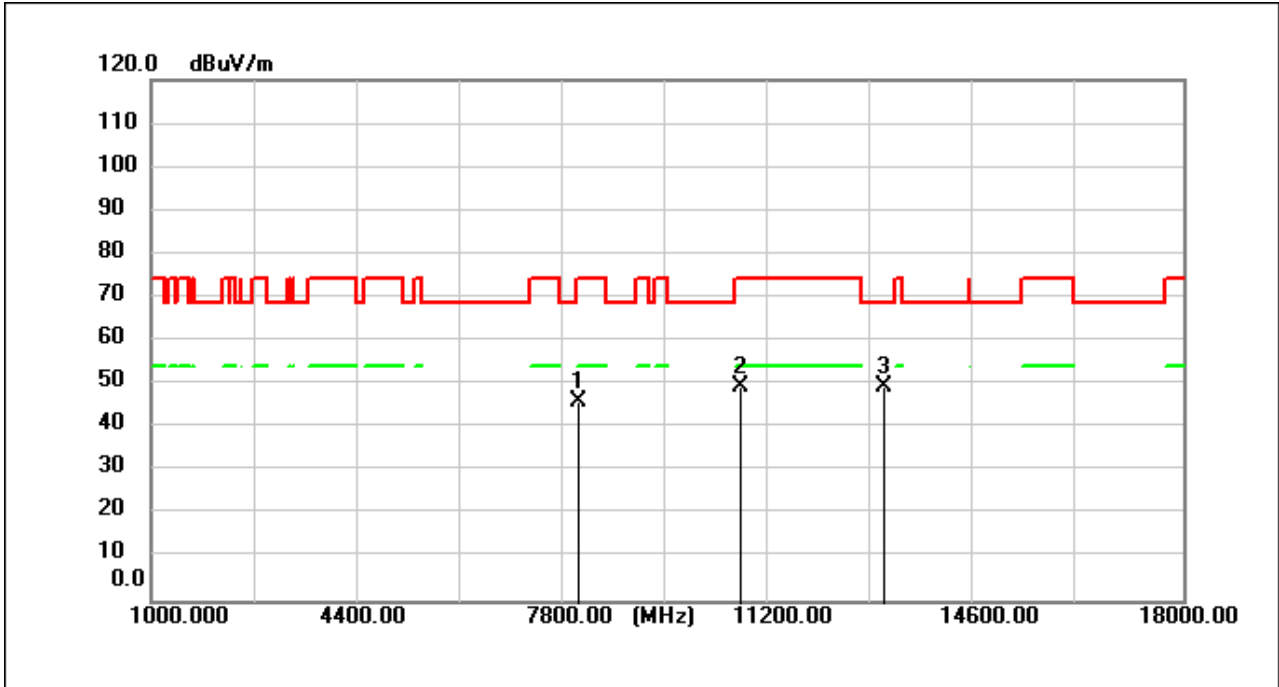


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.550	58.99	-5.93	53.06	68.30	-15.24	peak
2	15512.900	54.74	-3.90	50.84	74.00	-23.16	peak
3	17689.750	52.97	-1.36	51.61	68.30	-16.69	peak

11ac(VHT80)_TX_CH_42_Vertical

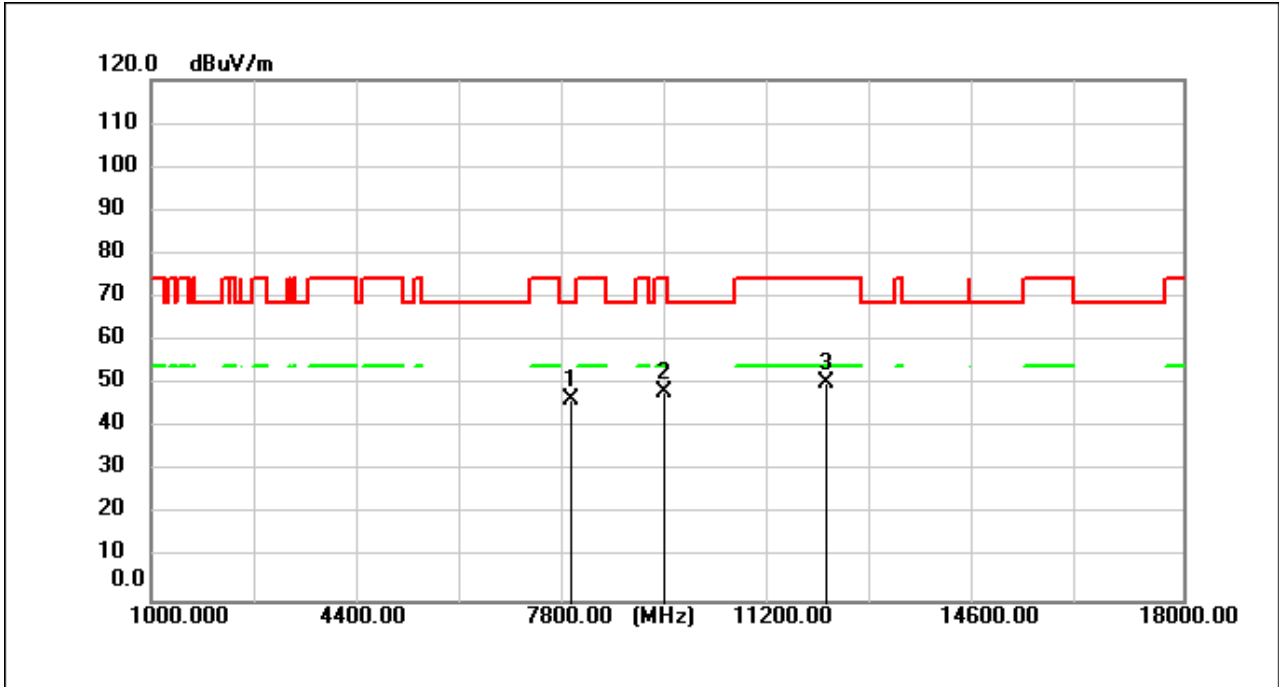


11a_TX_CH_149_Horizontal



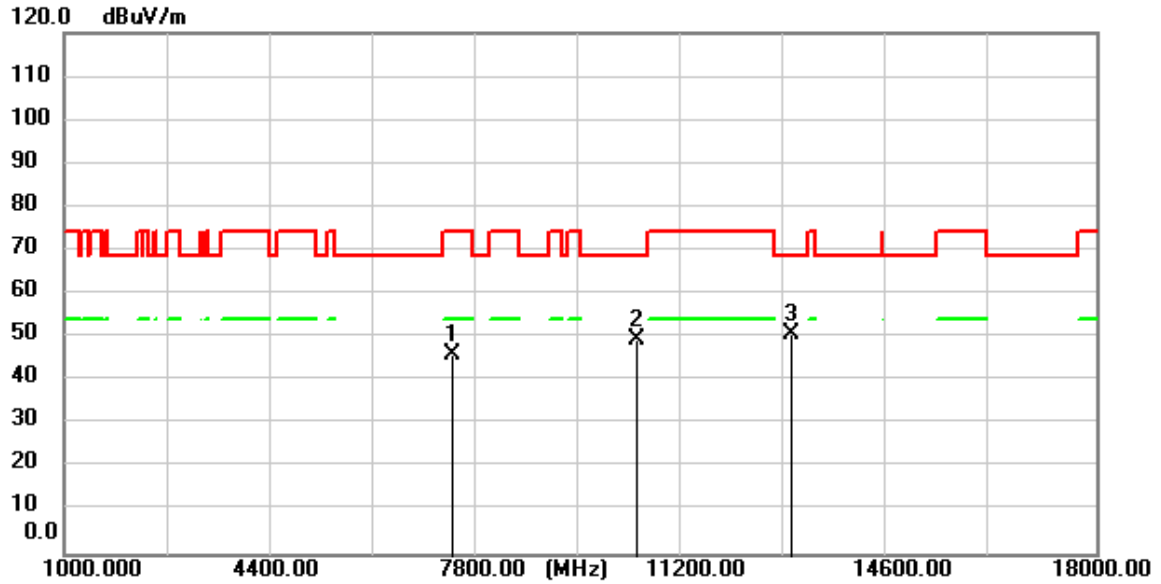
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8051.600	55.89	-9.71	46.18	74.00	-27.82	peak
2	10700.200	55.52	-6.08	49.44	74.00	-24.56	peak
3	13058.100	54.51	-4.83	49.68	68.30	-18.62	peak

11a_TX_CH_149_Vertical



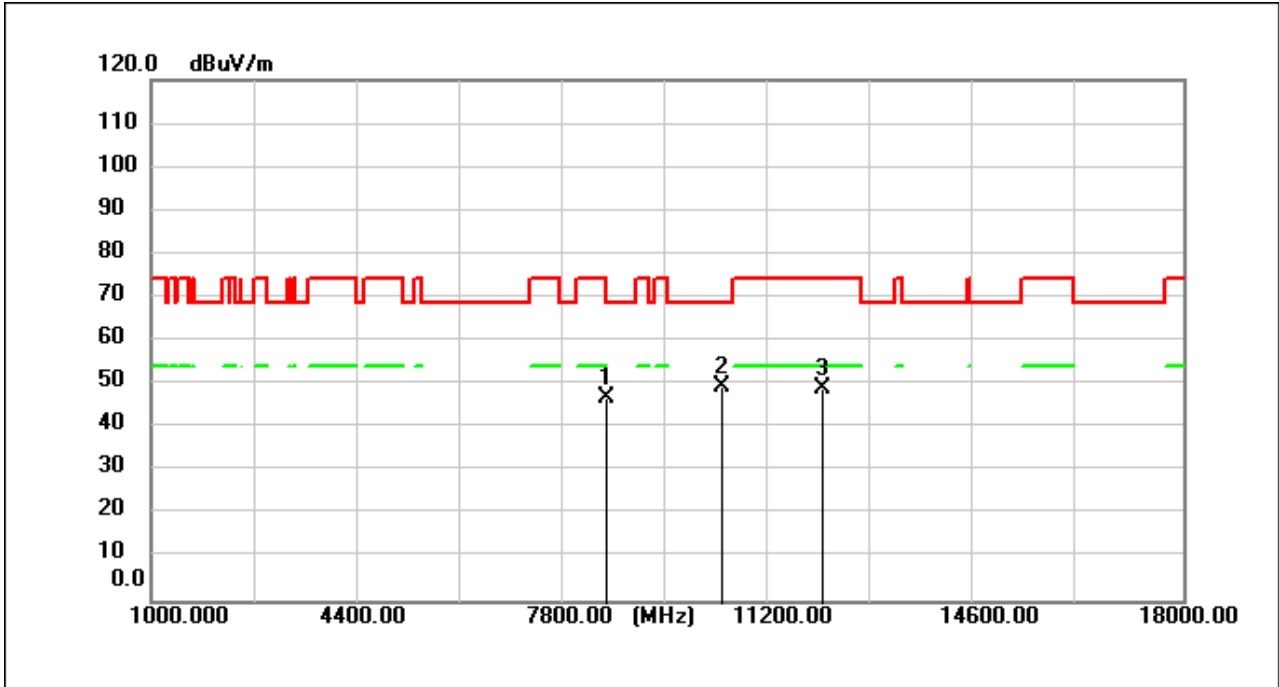
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7904.550	56.23	-9.77	46.46	68.30	-21.84	peak
2	9456.650	55.84	-7.48	48.36	74.00	-25.64	peak
3	12128.200	56.27	-5.84	50.43	74.00	-23.57	peak

11a_TX_CH_157_Horizontal



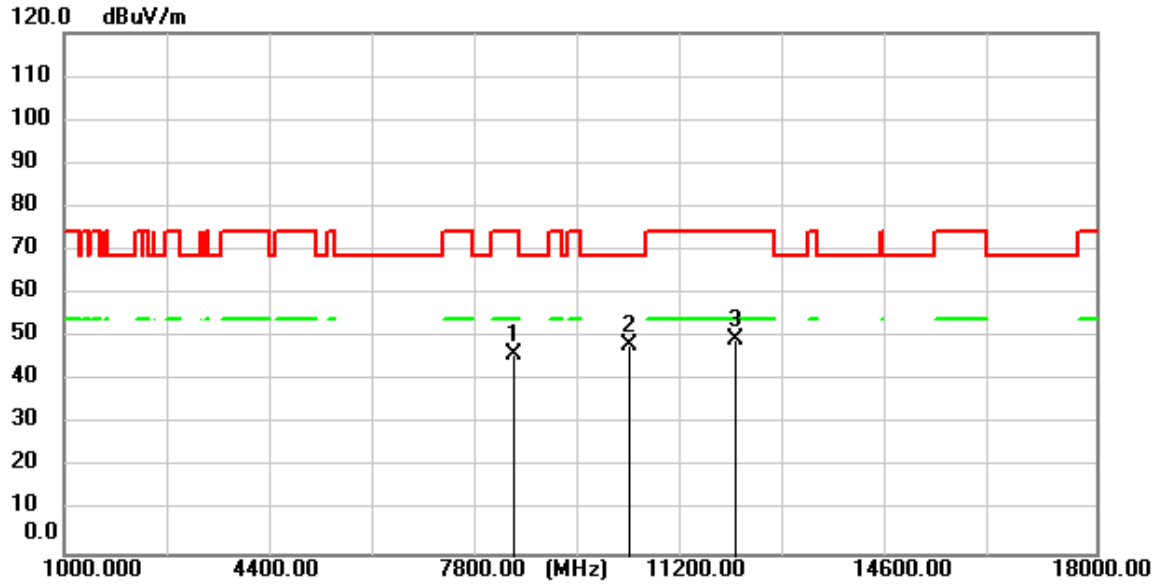
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7401.350	56.27	-10.16	46.11	74.00	-27.89	peak
2	10420.550	55.54	-6.18	49.36	68.30	-18.94	peak
3	12959.500	55.62	-5.04	50.58	68.30	-17.72	peak

11a_TX_CH_157_Vertical



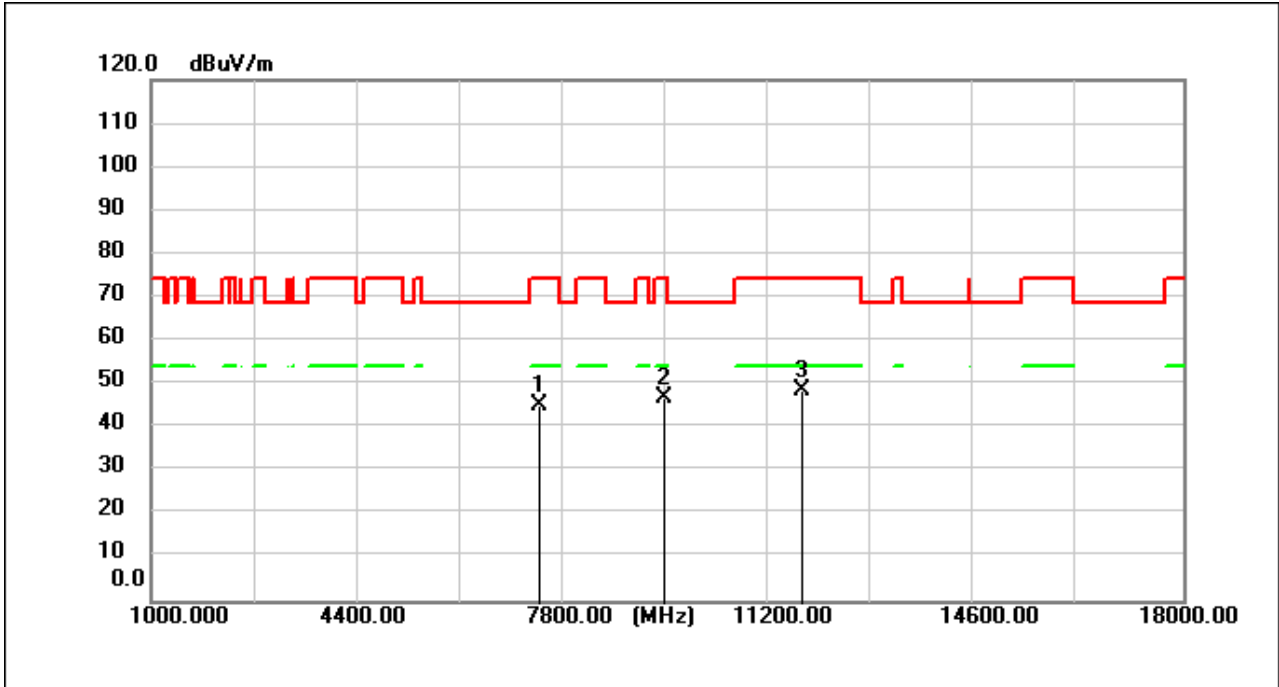
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8480.850	56.51	-9.52	46.99	74.00	-27.01	peak
2	10415.450	55.69	-6.18	49.51	68.30	-18.79	peak
3	12057.650	55.02	-5.82	49.20	74.00	-24.80	peak

11a_TX_CH_165_Horizontal

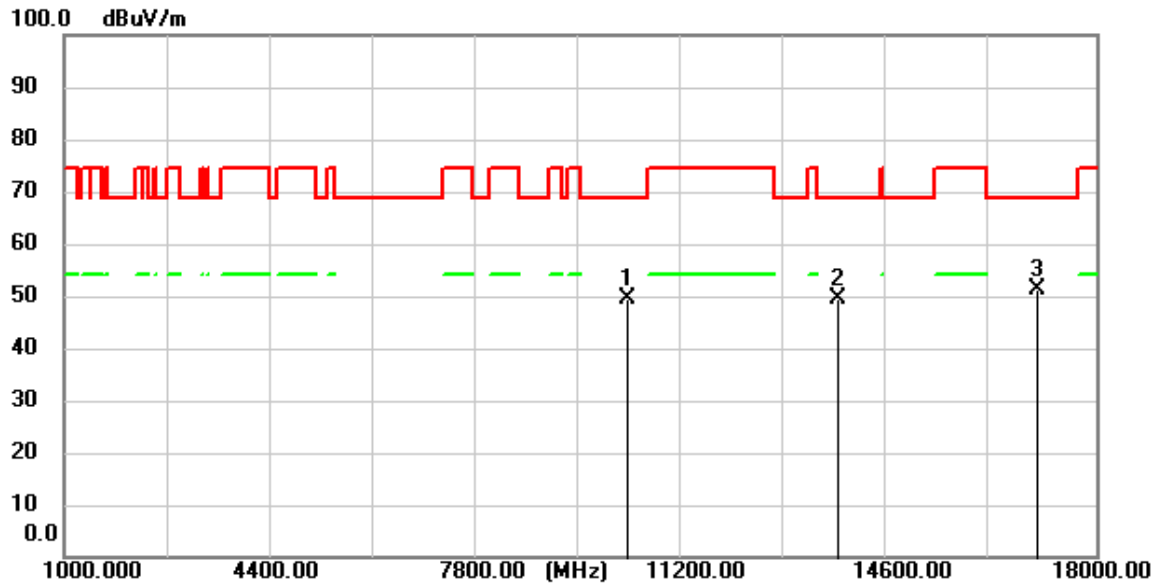


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8408.600	55.79	-9.55	46.24	74.00	-27.76	peak
2	10298.150	54.39	-6.30	48.09	68.30	-20.21	peak
3	12038.950	55.17	-5.80	49.37	74.00	-24.63	peak

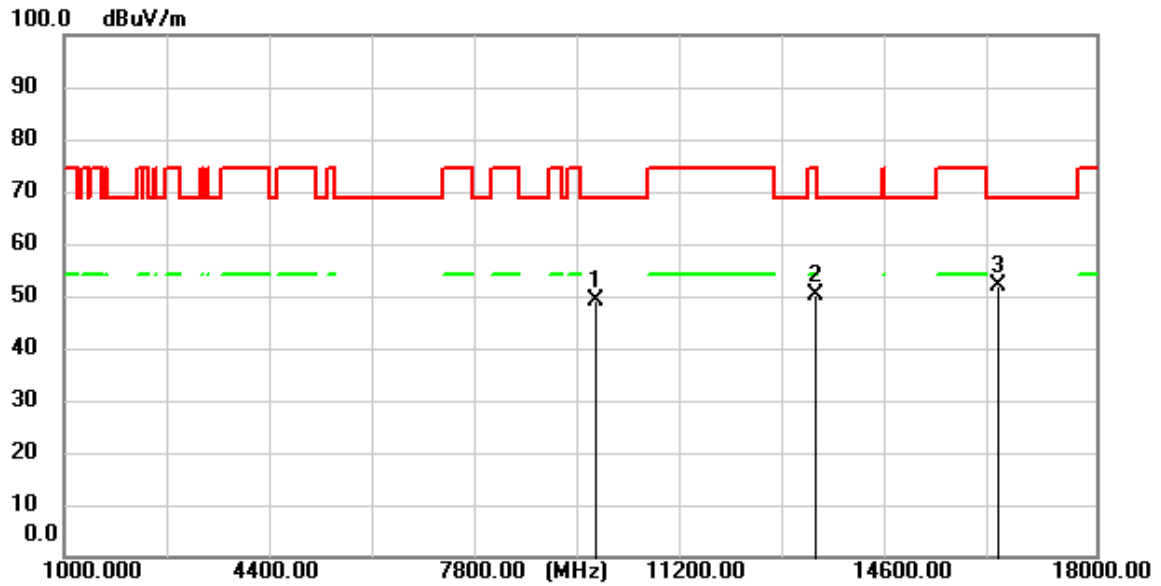
11a_TX_CH_165_Vertical



11ac(VHT20)_TX_CH_149_Horizontal

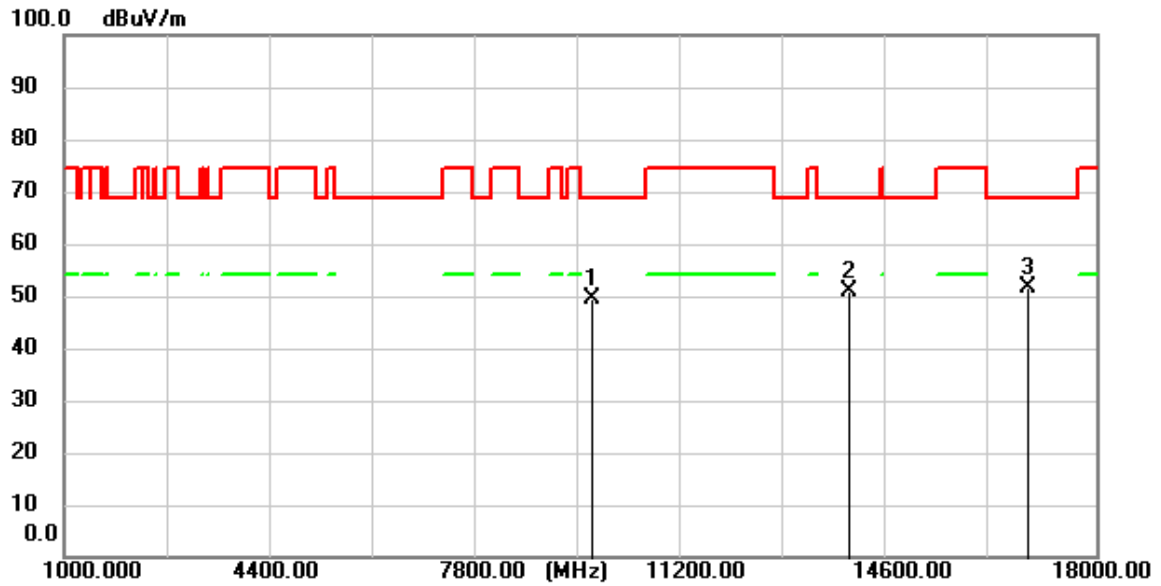


11ac(VHT20)_TX_CH_149_Vertical



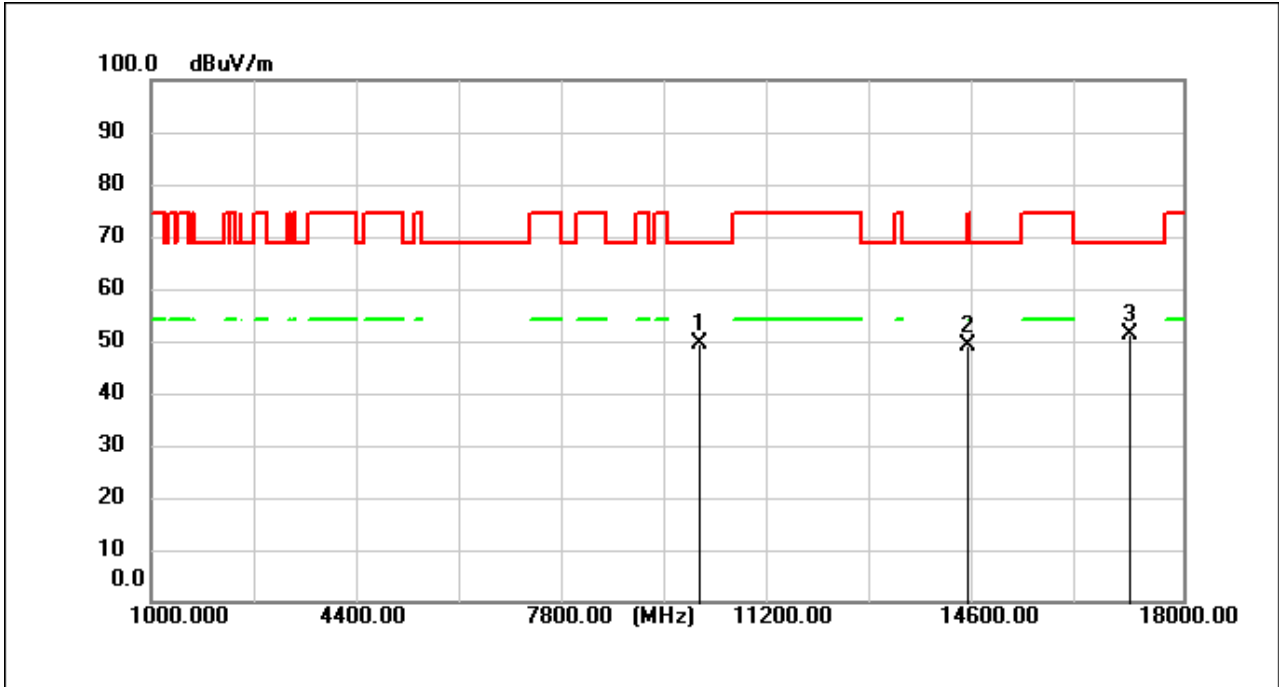
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9743.100	55.00	-5.91	49.09	68.30	-19.21	peak
2	13378.550	55.81	-5.61	50.20	74.00	-23.80	peak
3	16400.300	54.46	-2.55	51.91	68.30	-16.39	peak

11ac(VHT20)_TX_CH_157_Horizontal



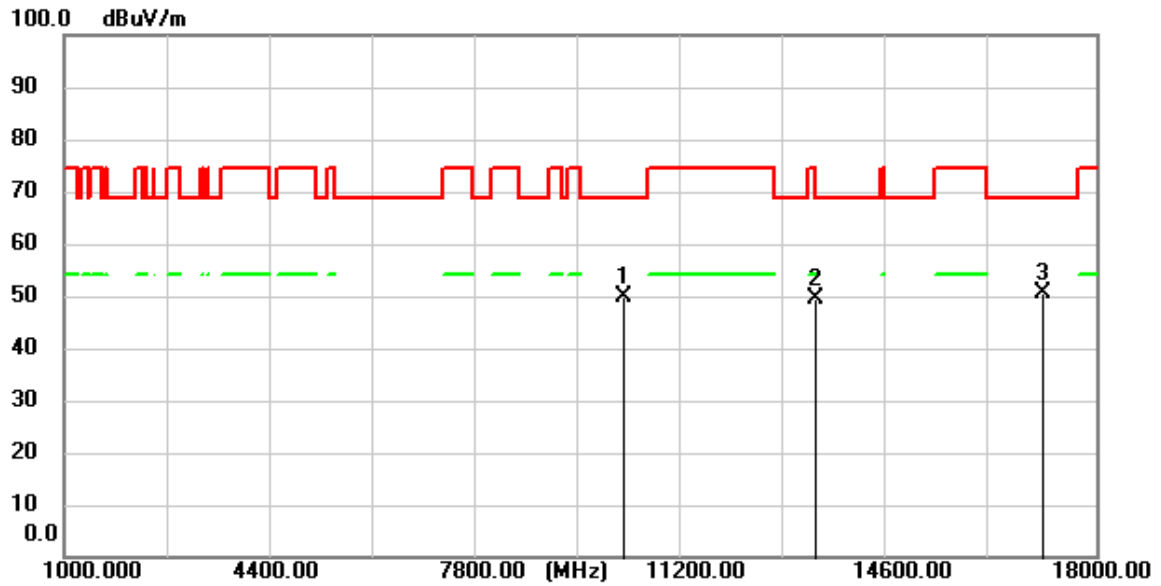
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9701.450	55.61	-6.01	49.60	68.30	-18.70	peak
2	13917.450	56.13	-5.33	50.80	68.30	-17.50	peak
3	16863.550	53.52	-1.97	51.55	68.30	-16.75	peak

11ac(VHT20)_TX_CH_157_Vertical



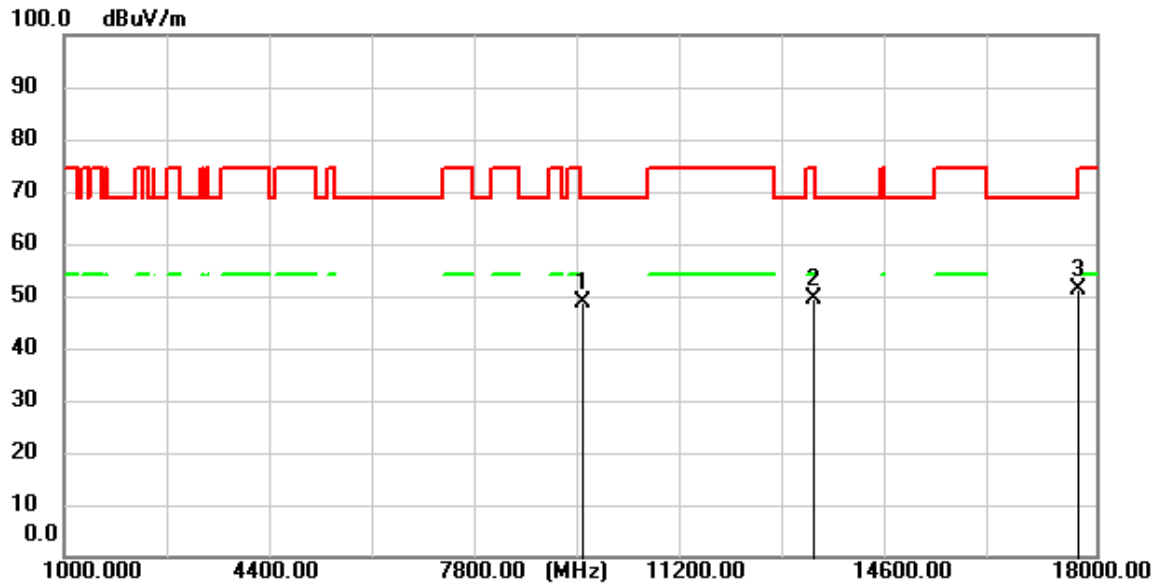
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10038.900	55.00	-5.61	49.39	68.30	-18.91	peak
2	14456.350	54.29	-5.25	49.04	68.30	-19.26	peak
3	17132.150	52.93	-1.68	51.25	68.30	-17.05	peak

11ac(VHT20)_TX_CH_165_Horizontal



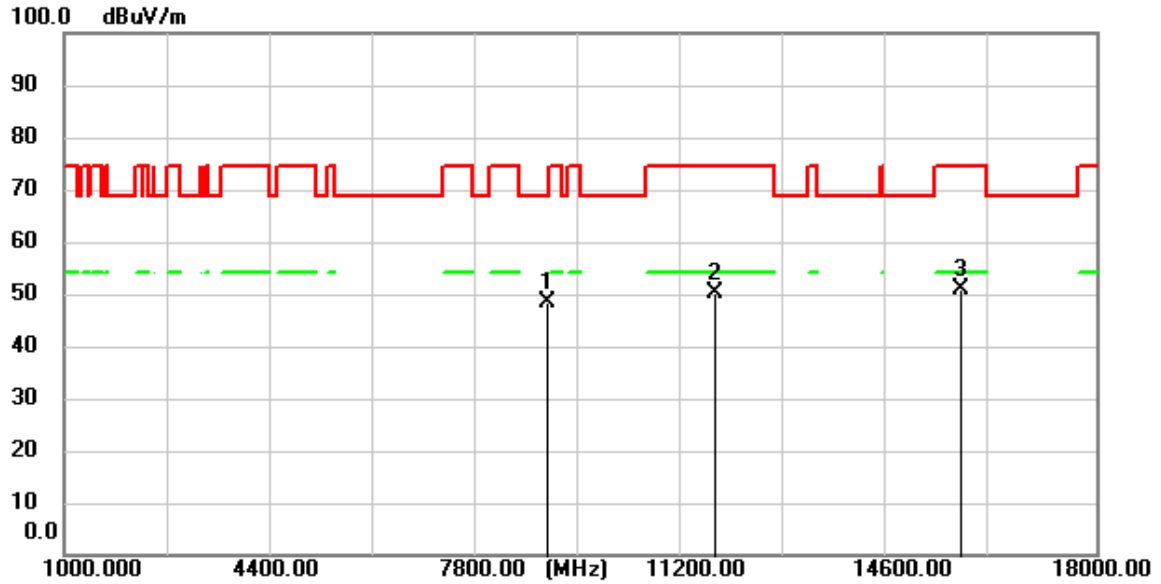
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10226.750	55.68	-5.77	49.91	68.30	-18.39	peak
2	13375.150	55.00	-5.61	49.39	74.00	-24.61	peak
3	17133.000	52.27	-1.68	50.59	68.30	-17.71	peak

11ac(VHT20)_TX_CH_165_Vertical



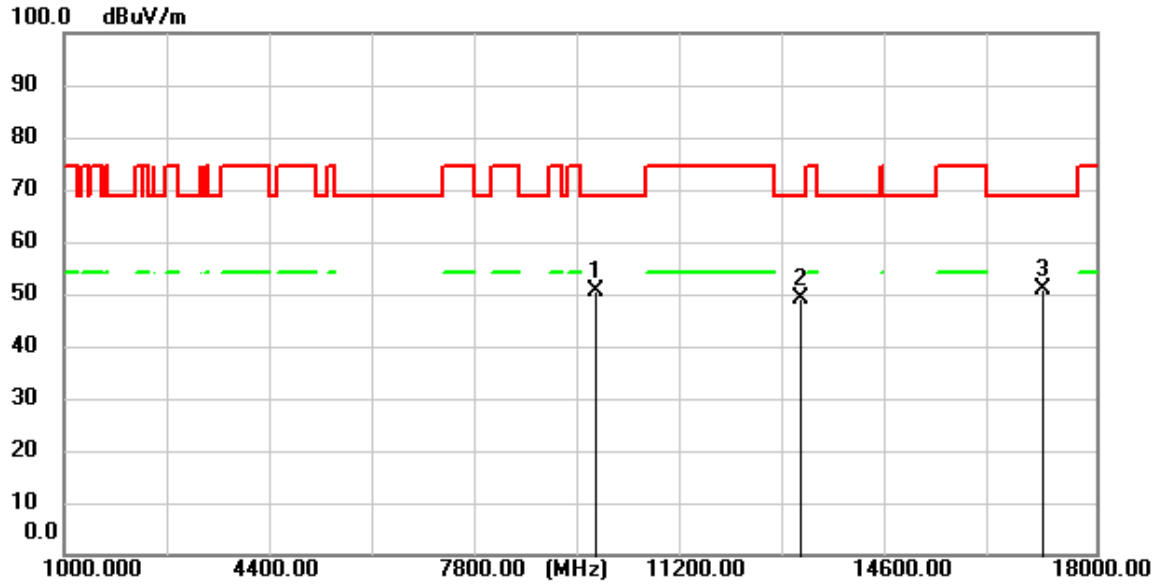
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9524.650	55.38	-6.47	48.91	68.30	-19.39	peak
2	13336.900	55.00	-5.63	49.37	74.00	-24.63	peak
3	17699.100	52.60	-1.36	51.24	68.30	-17.06	peak

11ac(VHT40)_TX_CH_151_Horizontal

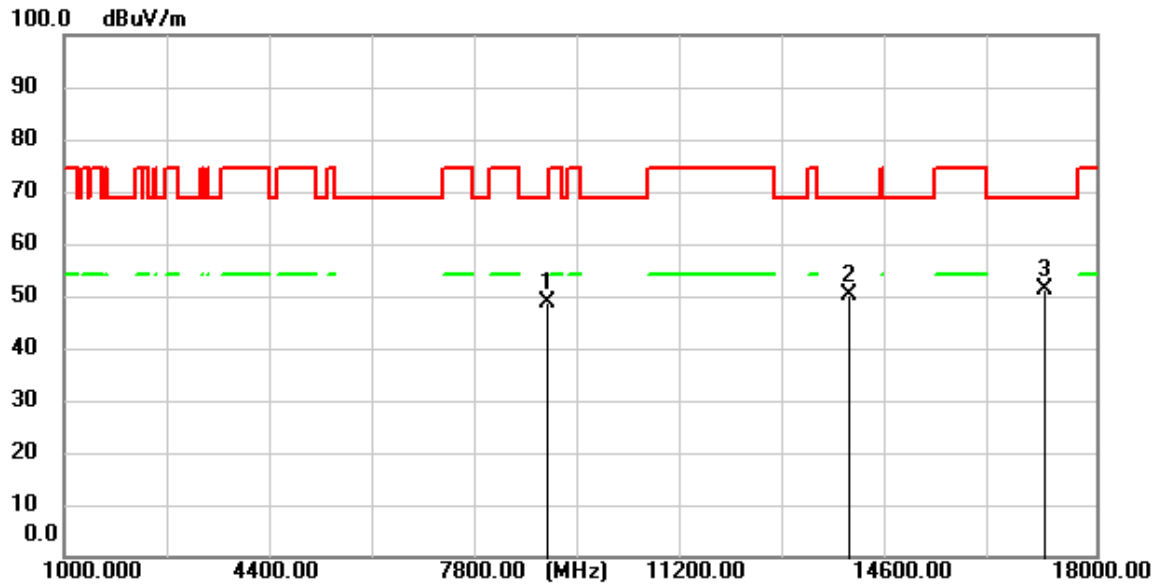


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8944.950	56.23	-7.90	48.33	68.30	-19.97	peak
2	11709.150	56.77	-6.47	50.30	74.00	-23.70	peak
3	15774.700	54.49	-3.47	51.02	74.00	-22.98	peak

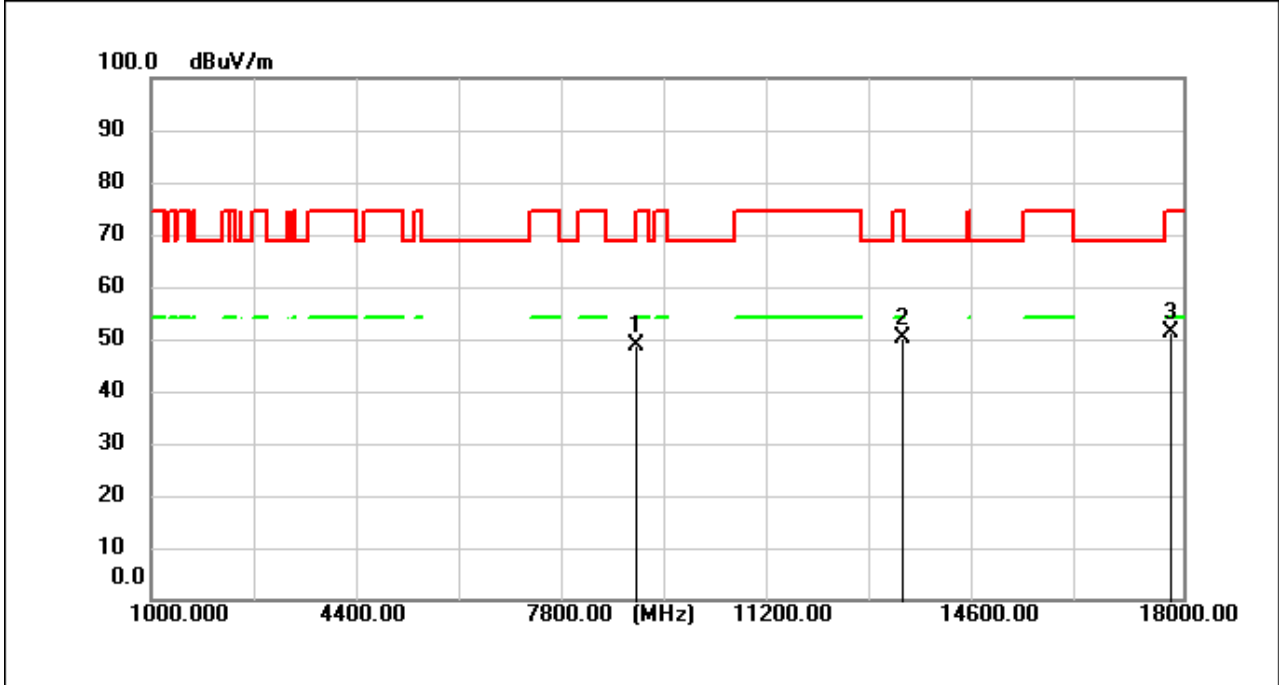
11ac(VHT40)_TX_CH_151_Vertical



11ac(VHT40)_TX_CH_159_Horizontal

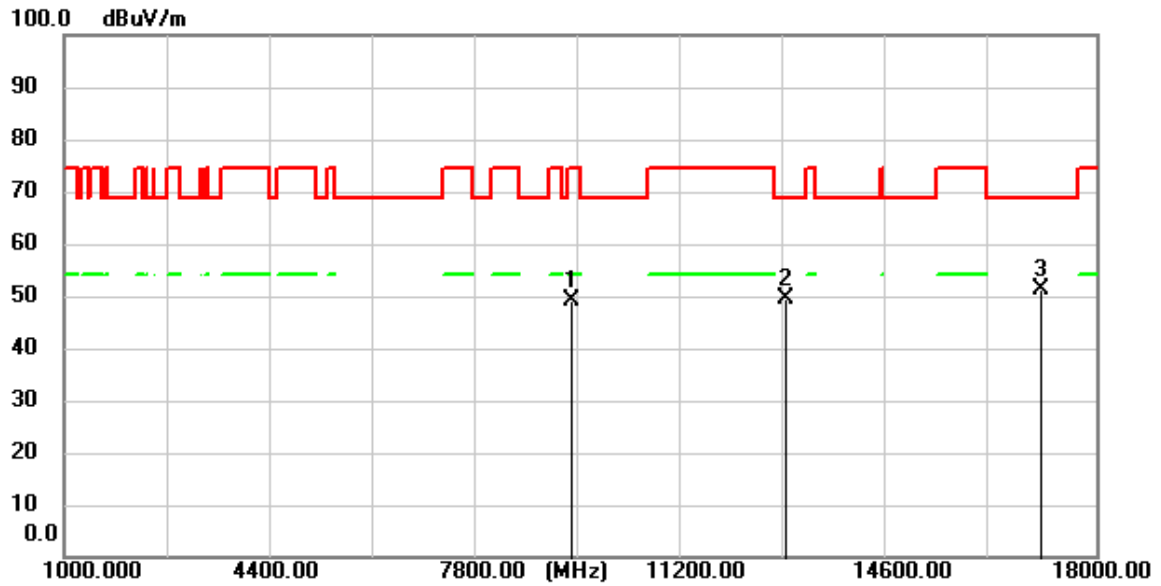


11ac(VHT40)_TX_CH_159_Vertical

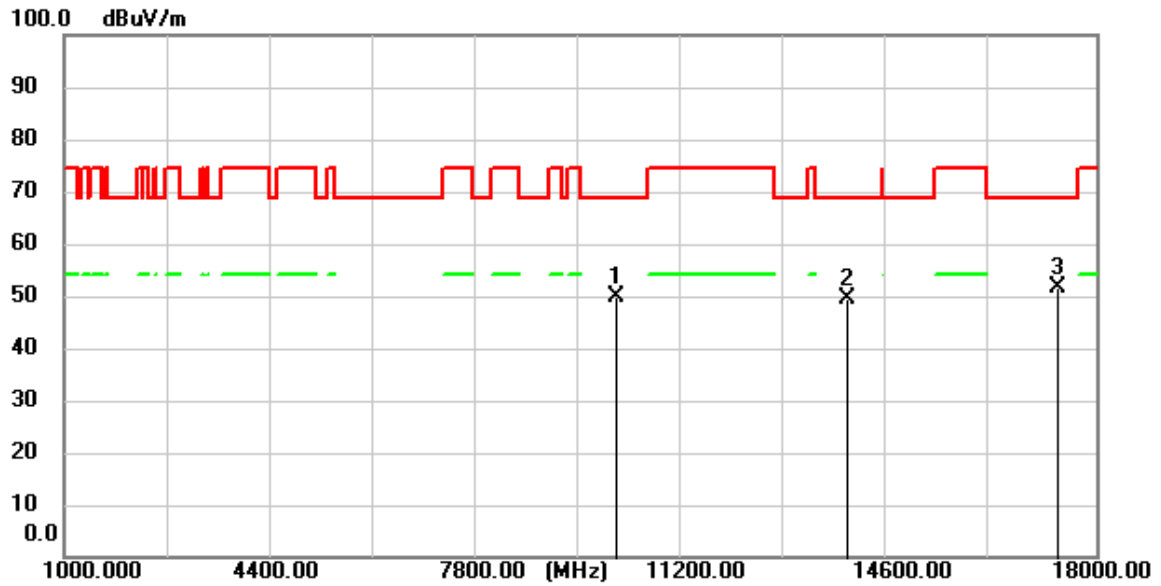


No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9007.000	56.60	-7.77	48.83	74.00	-25.17	peak
2	13374.300	55.64	-5.61	50.03	74.00	-23.97	peak
3	17813.000	52.59	-1.34	51.25	74.00	-22.75	peak

11ac(VHT80)_TX_CH_155_Horizontal



11ac(VHT80)_TX_CH_155_Vertical



7.3 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method: ANSI C63.10 (2020) Section 6.10.5
Measurement Distance: 3M

Limit:

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

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(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.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 45.3 % RH

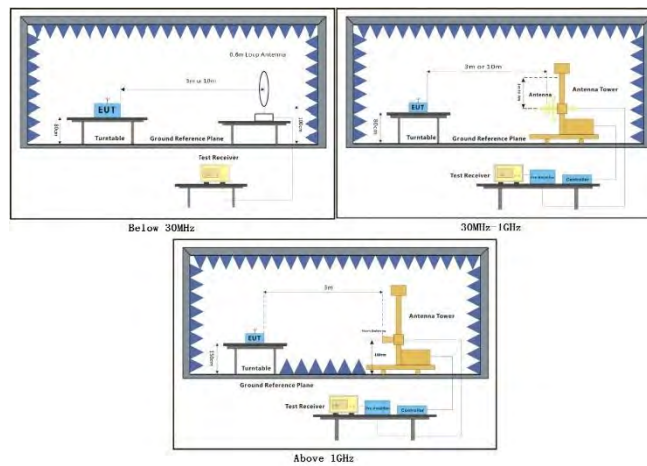
Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all

		modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

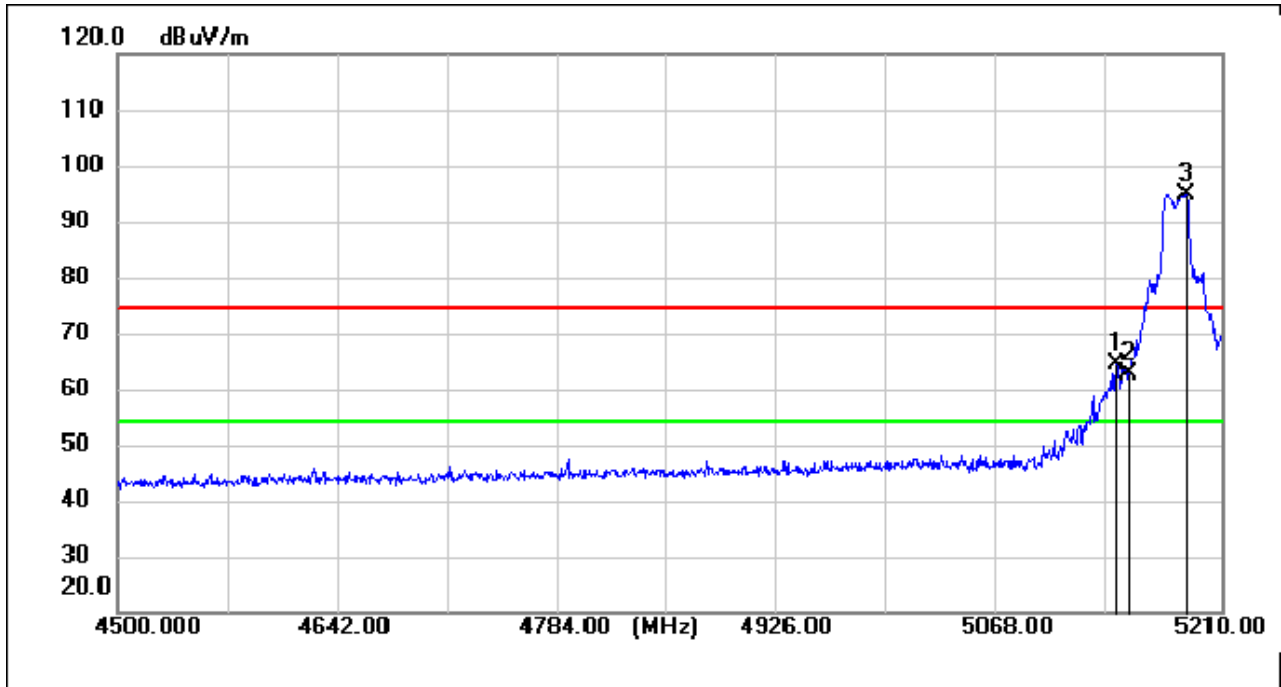
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

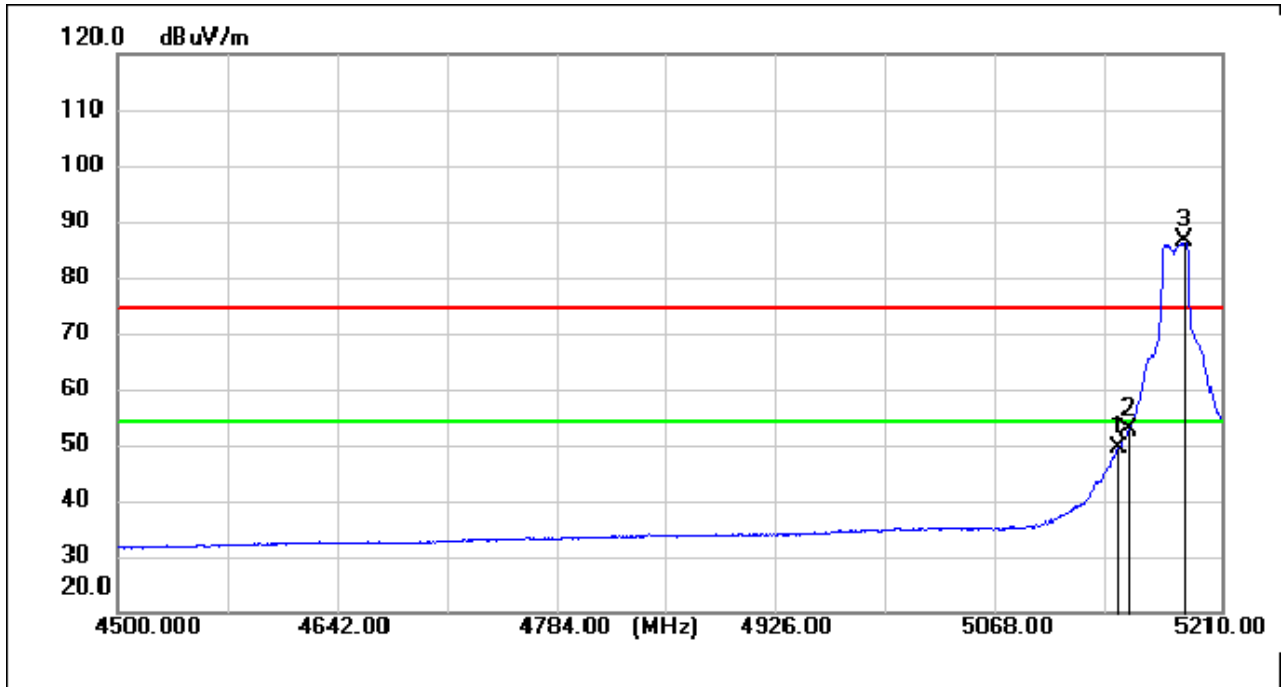
Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

11a_TX_CH_36_Horizontal_Peak



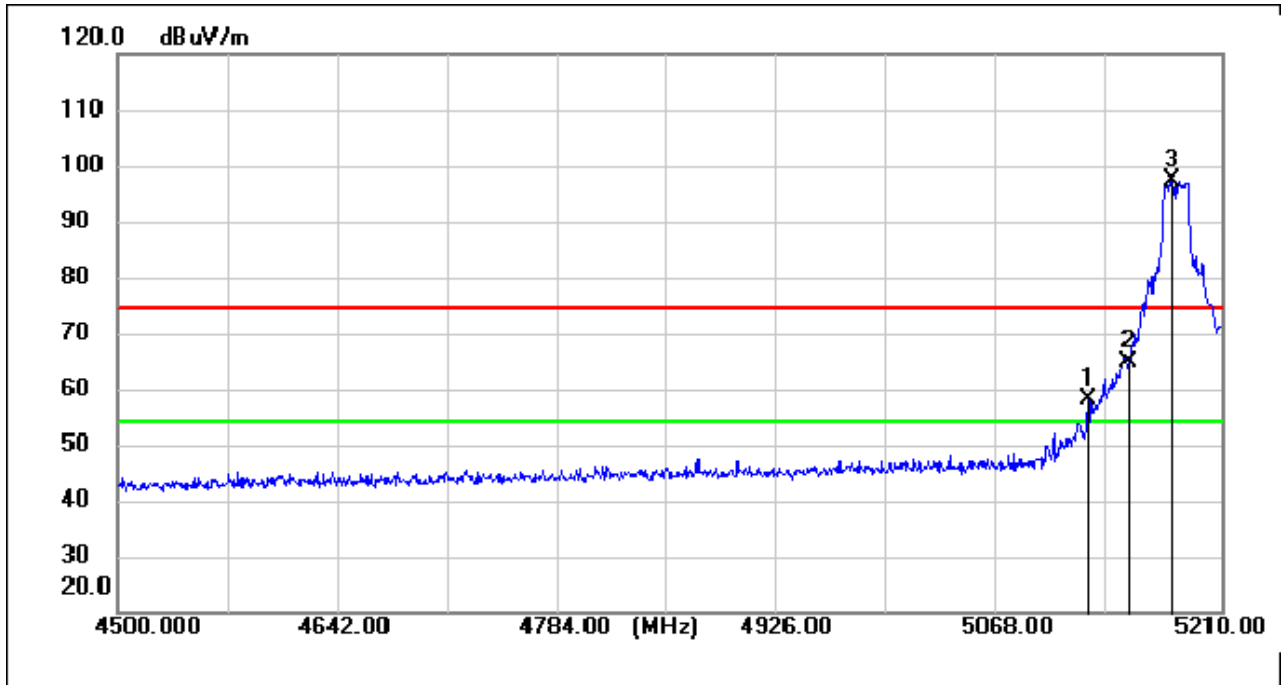
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.260	57.60	6.74	64.34	74.00	-9.66	peak
2	5150.000	55.78	6.75	62.53	74.00	-11.47	peak
3	5187.990	88.16	6.74	94.90	74.00	20.90	peak

11a_TX_CH_36_Horizontal_Average



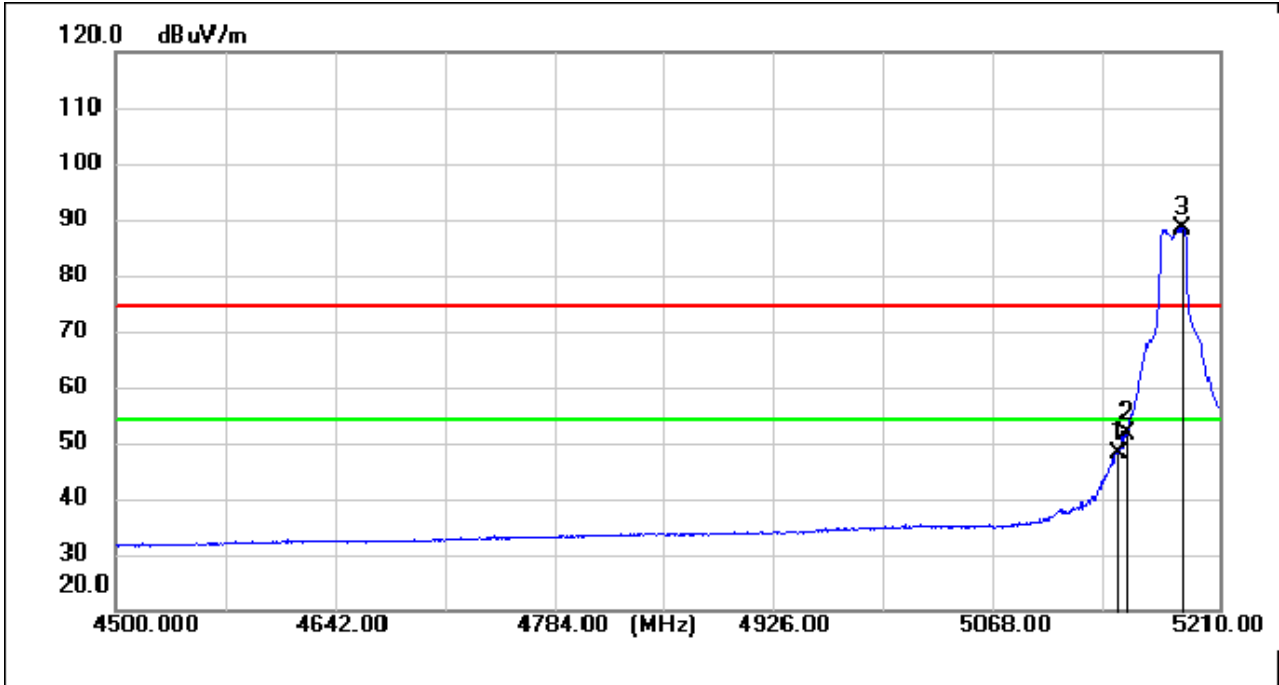
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.970	42.73	6.74	49.47	54.00	-4.53	AVG
2	5150.000	46.06	6.75	52.81	54.00	-1.19	AVG
3	5185.860	79.70	6.73	86.43	54.00	32.43	AVG

11a_TX_CH_36_Vertical_Peak



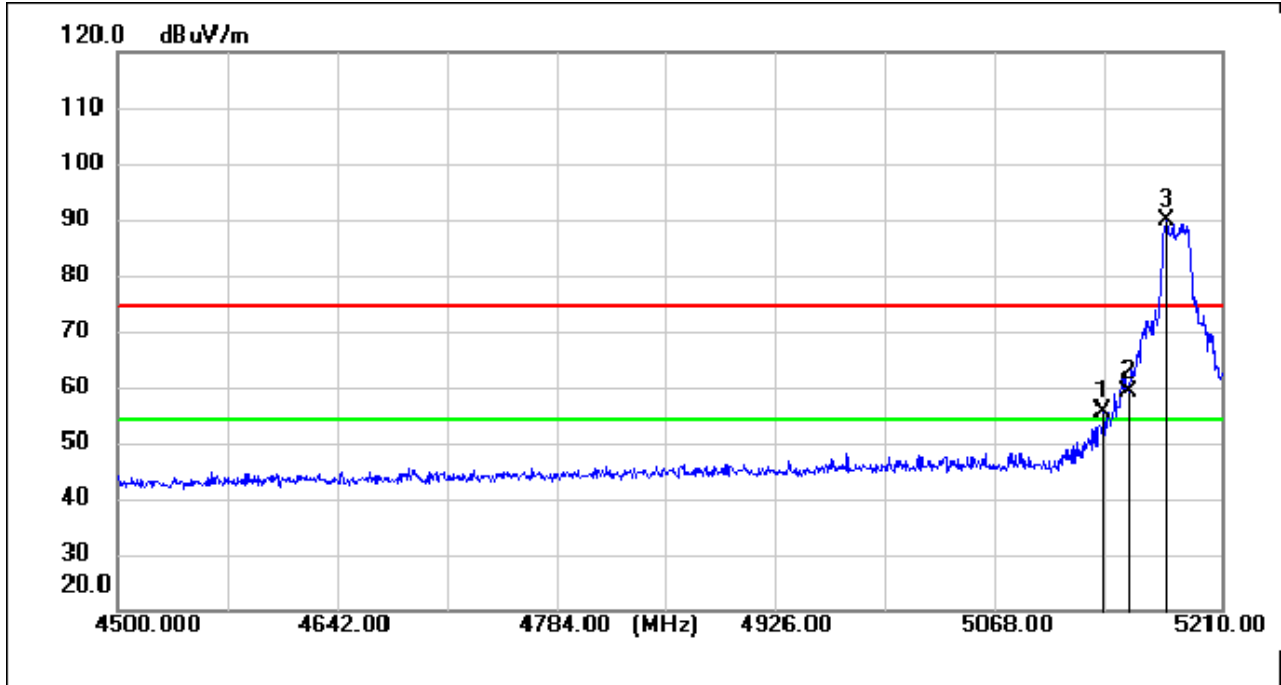
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5124.800	51.31	6.75	58.06	74.00	-15.94	peak
2	5150.000	58.13	6.75	64.88	74.00	-9.12	peak
3	5178.050	90.45	6.74	97.19	74.00	23.19	peak

11a_TX_CH_36_Vertical_Average



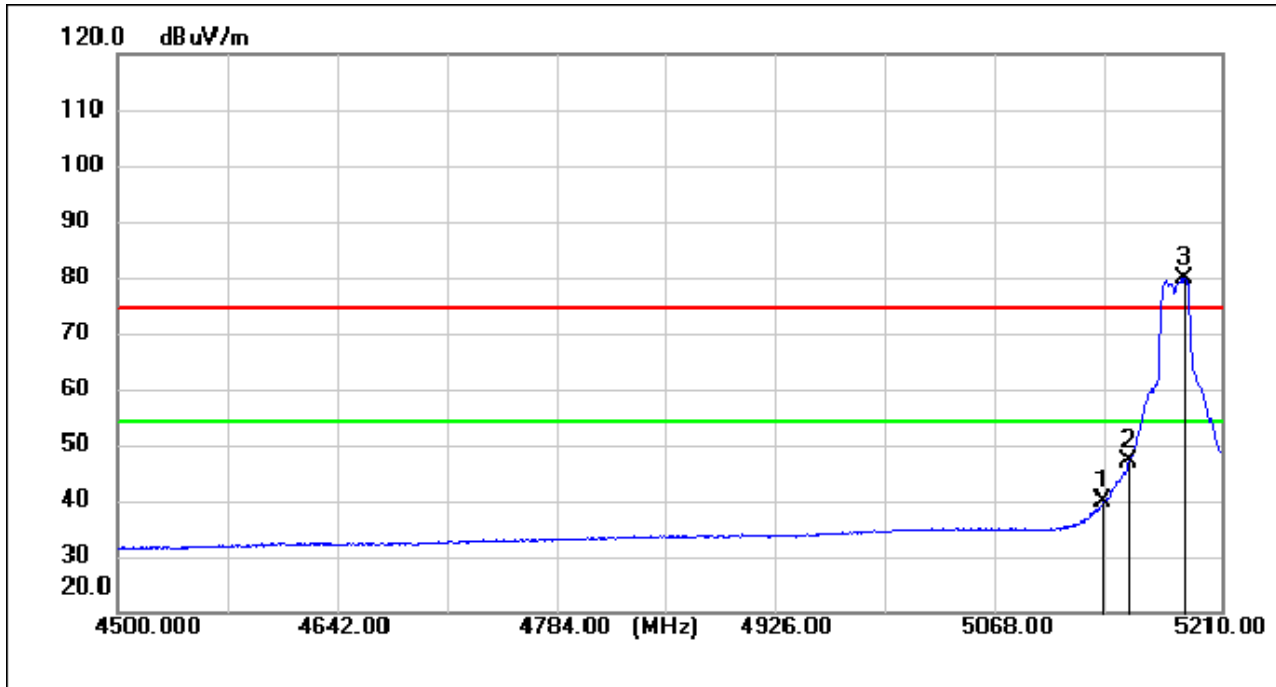
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.680	41.28	6.74	48.02	54.00	-5.98	AVG
2	5150.000	44.75	6.75	51.50	54.00	-2.50	AVG
3	5185.860	81.73	6.73	88.46	54.00	34.46	AVG

11ac(VHT20)_TX_CH_36_Horizontal_Peak



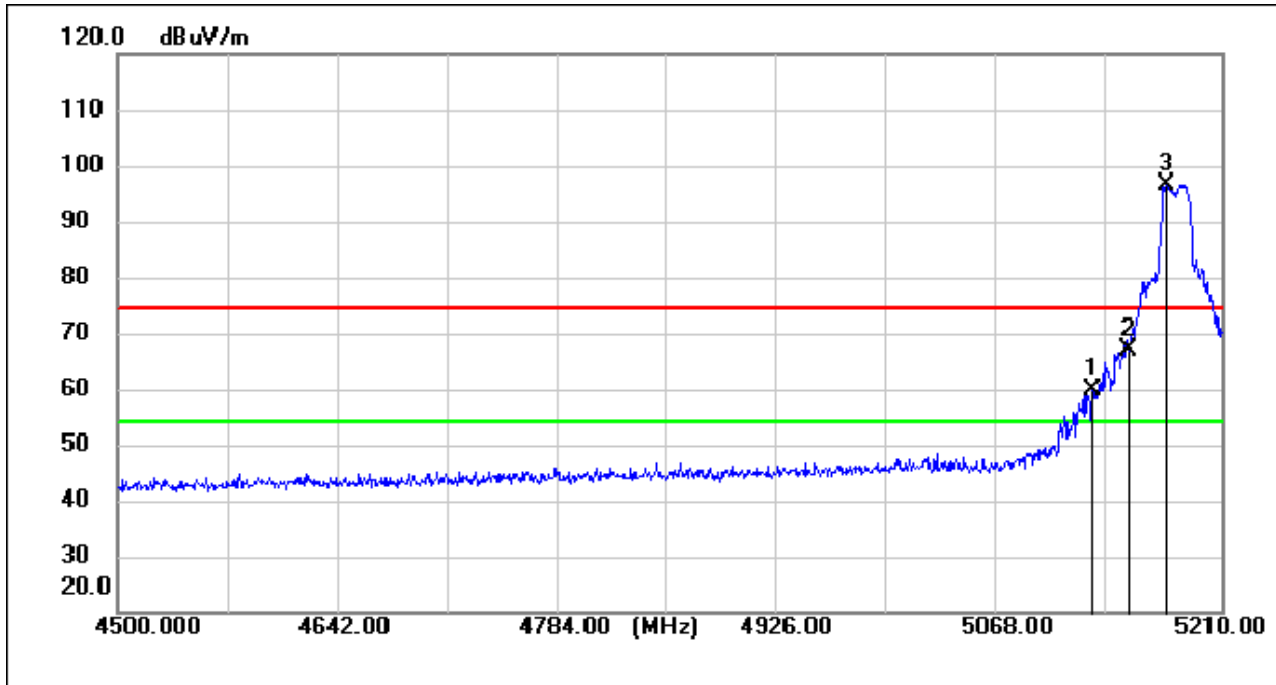
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.030	48.68	6.75	55.43	74.00	-18.57	peak
2	5150.000	52.46	6.75	59.21	74.00	-14.79	peak
3	5175.210	83.08	6.73	89.81	74.00	15.81	peak

11ac(VHT20)_TX_CH_36_Horizontal_Average



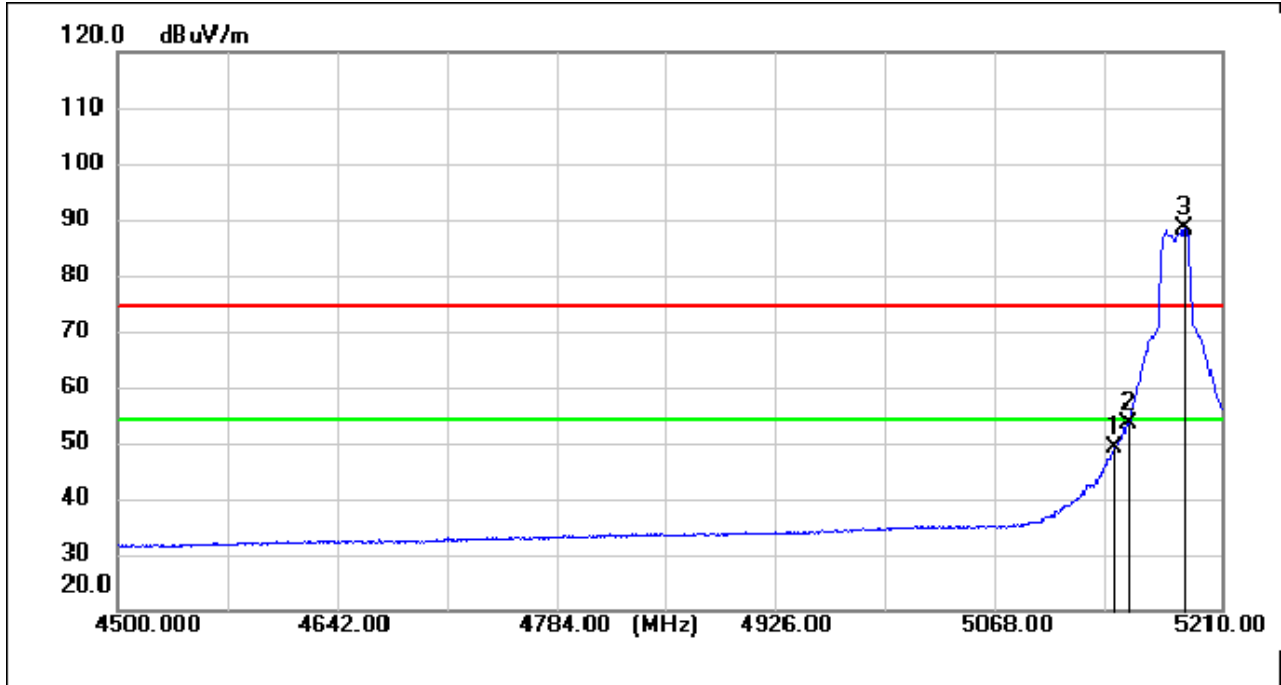
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5134.030	33.21	6.75	39.96	54.00	-14.04	AVG
2	5150.000	40.06	6.75	46.81	54.00	-7.19	AVG
3	5185.860	73.13	6.73	79.86	54.00	25.86	AVG

11ac(VHT20)_TX_CH_36_Vertical_Peak



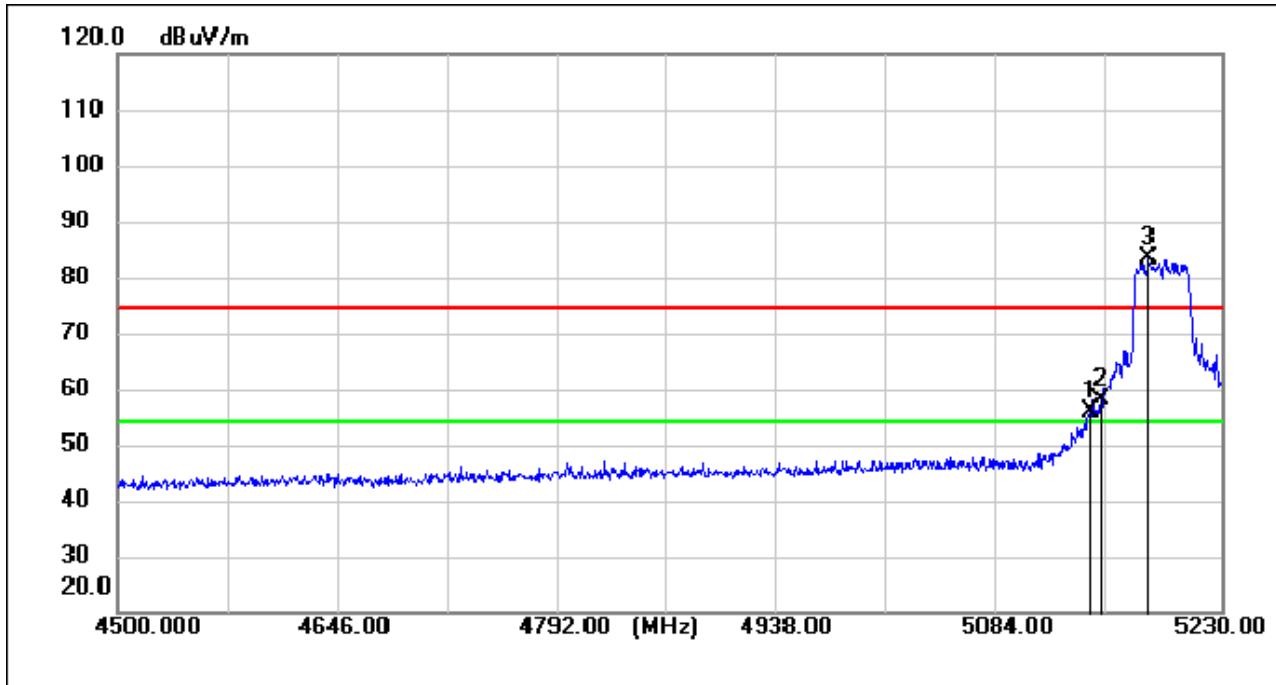
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5126.930	53.10	6.74	59.84	74.00	-14.16	peak
2	5150.000	60.07	6.75	66.82	74.00	-7.18	peak
3	5175.210	90.02	6.73	96.75	74.00	22.75	peak

11ac(VHT20)_TX_CH_36_Vertical_Average



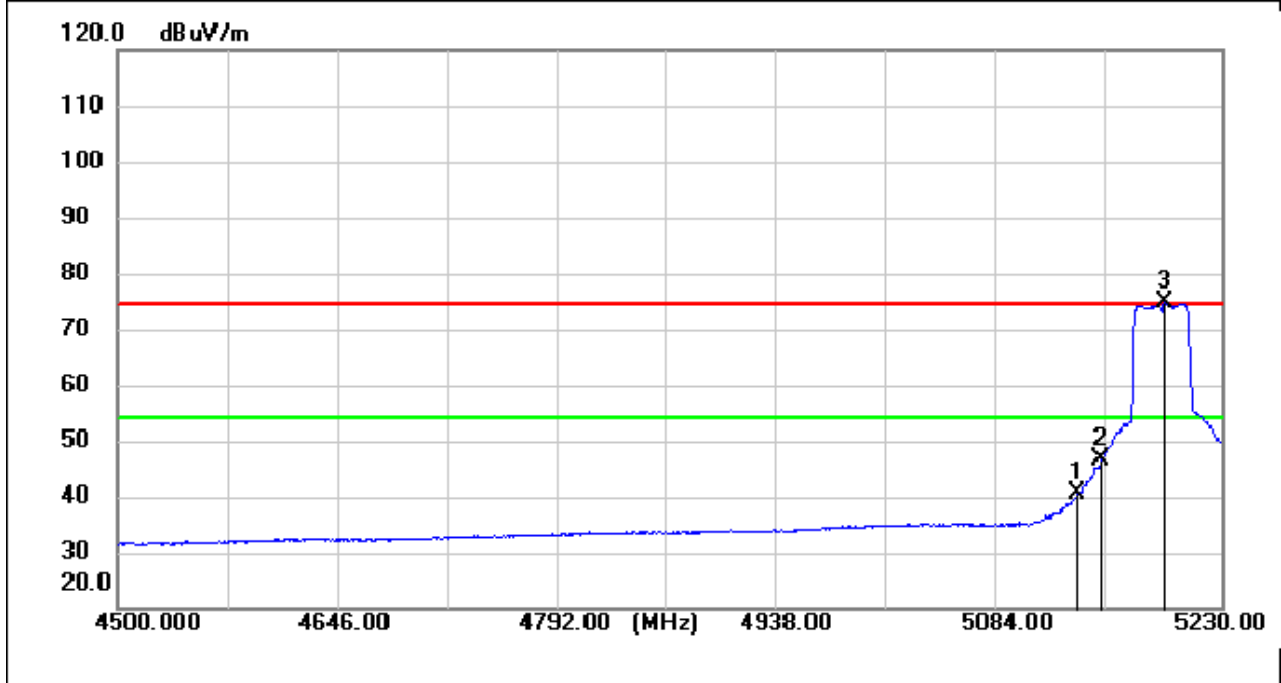
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.840	42.36	6.75	49.11	54.00	-4.89	AVG
2	5150.000	46.80	6.75	53.55	54.00	-0.45	AVG
3	5185.860	81.56	6.73	88.29	54.00	34.29	AVG

11ac(VHT40)_TX_CH_38_Horizontal_Peak



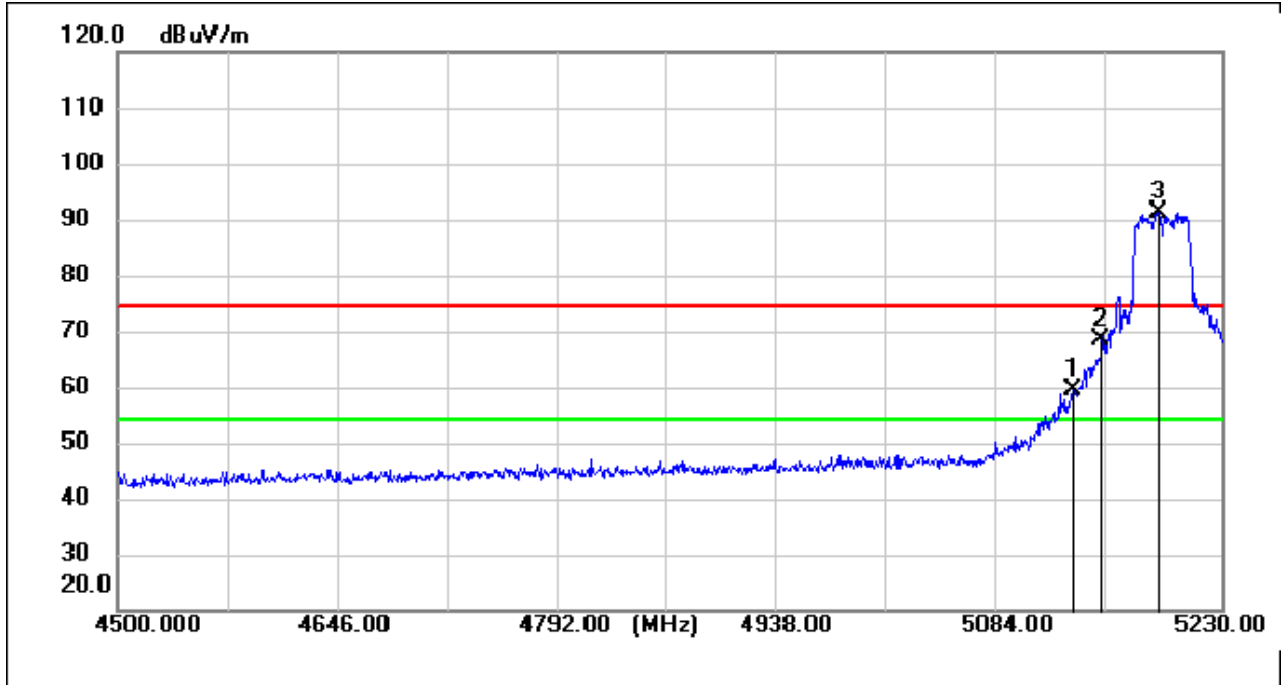
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.130	49.13	6.74	55.87	74.00	-18.13	peak
2	5150.000	51.30	6.75	58.05	74.00	-15.95	peak
3	5182.550	76.71	6.73	83.44	74.00	9.44	peak

11ac(VHT40)_TX_CH_38_Horizontal_Average



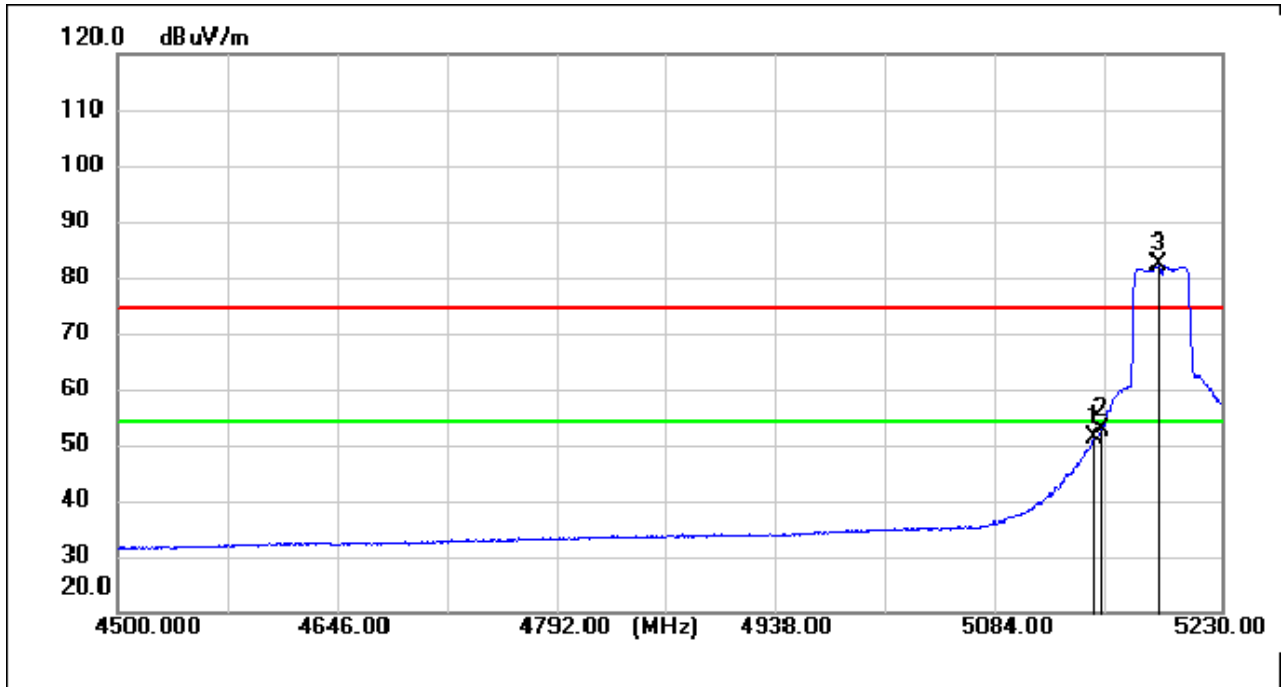
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.100	33.74	6.74	40.48	54.00	-13.52	AVG
2	5150.000	40.03	6.75	46.78	54.00	-7.22	AVG
3	5192.040	68.01	6.73	74.74	54.00	20.74	AVG

11ac(VHT40)_TX_CH_38_Vertical_Peak



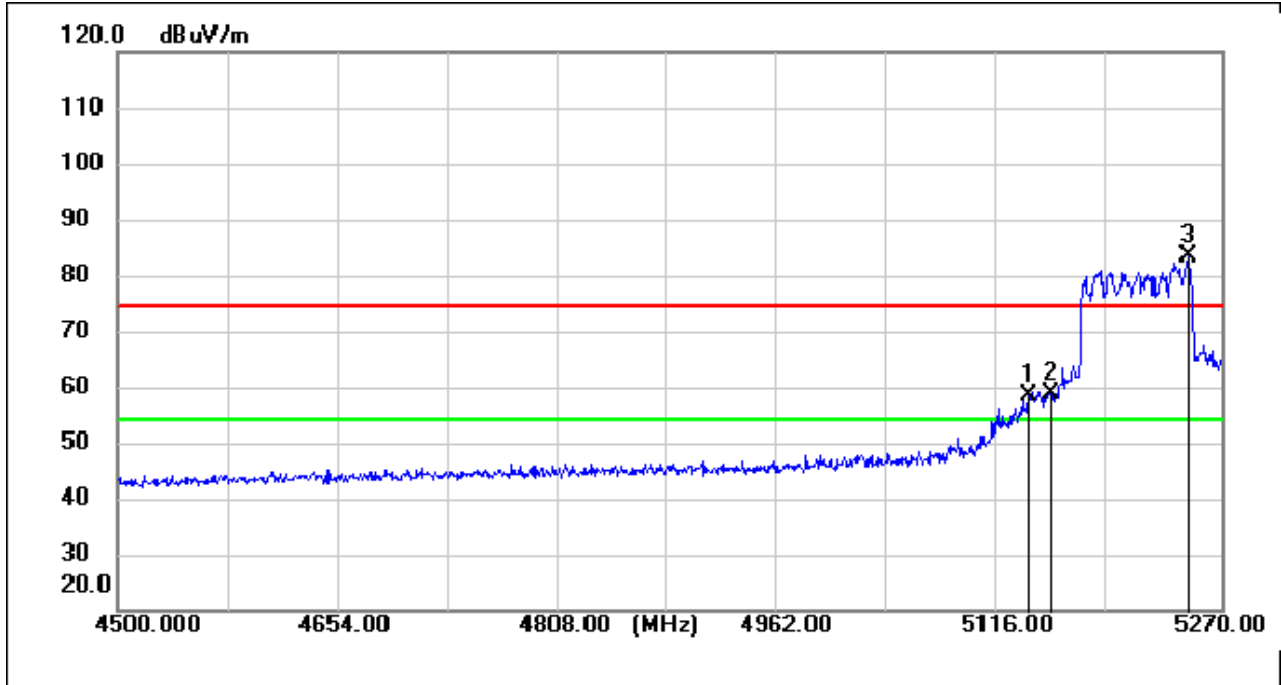
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5131.450	52.88	6.74	59.62	74.00	-14.38	peak
2	5150.000	61.76	6.75	68.51	74.00	-5.49	peak
3	5189.120	84.49	6.73	91.22	74.00	17.22	peak

11ac(VHT40)_TX_CH_38_Vertical_Average



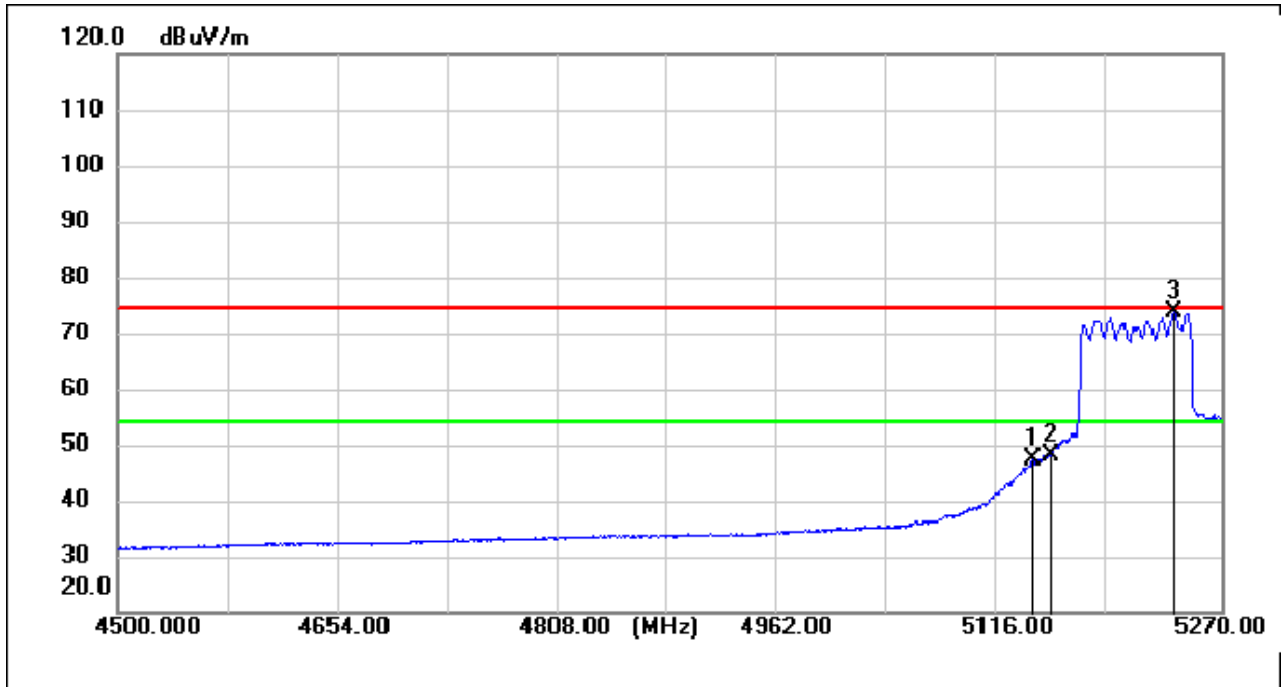
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	44.56	6.74	51.30	54.00	-2.70	AVG
2	5150.000	45.93	6.75	52.68	54.00	-1.32	AVG
3	5188.390	75.55	6.74	82.29	54.00	28.29	AVG

11ac(VHT80)_TX_CH_42_Horizontal_Peak



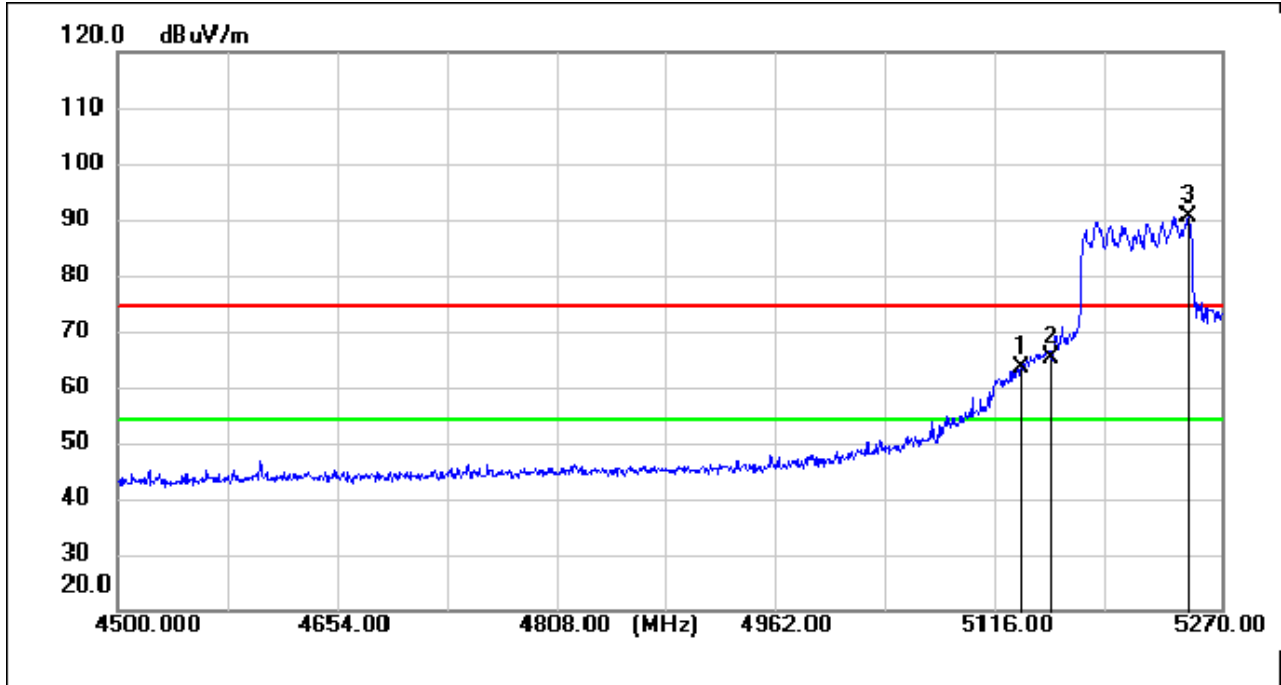
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.250	51.82	6.74	58.56	74.00	-15.44	peak
2	5150.000	51.96	6.75	58.71	74.00	-15.29	peak
3	5246.900	76.63	6.72	83.35	74.00	9.35	peak

11ac(VHT80)_TX_CH_42_Horizontal_Average



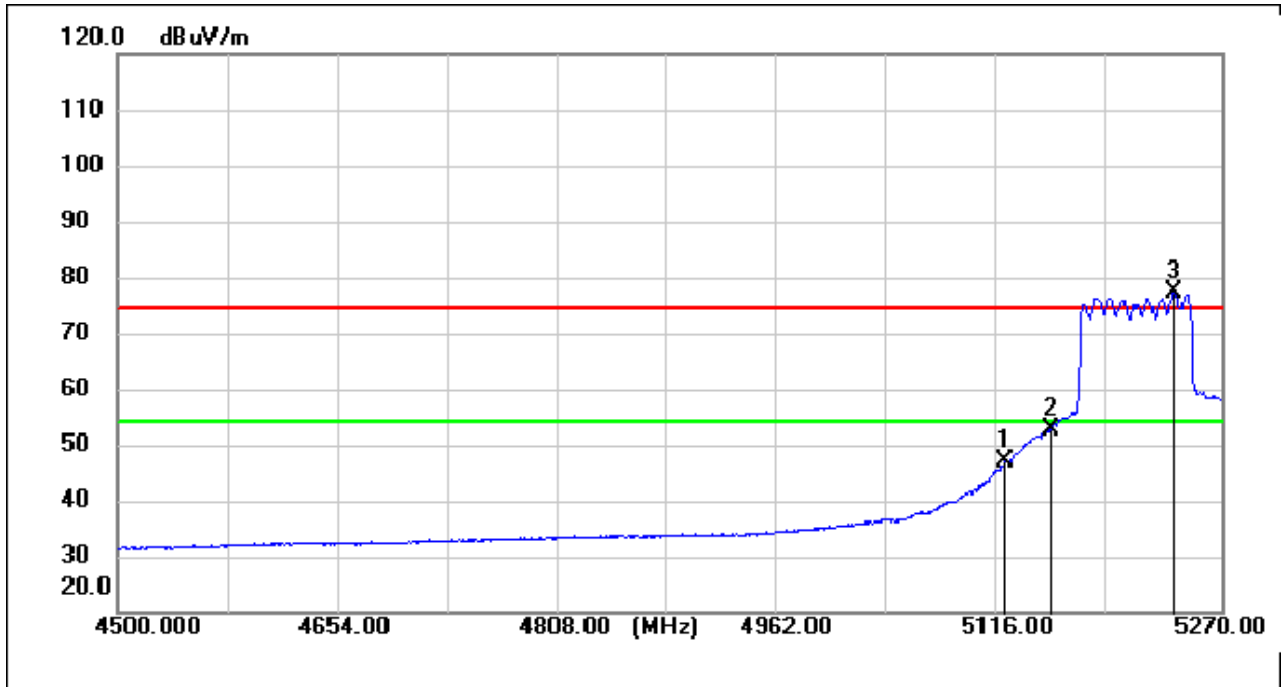
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.100	40.51	6.74	47.25	54.00	-6.75	AVG
2	5150.000	41.46	6.75	48.21	54.00	-5.79	AVG
3	5237.660	67.15	6.72	73.87	54.00	19.87	AVG

11ac(VHT80)_TX_CH_42_Vertical_Peak



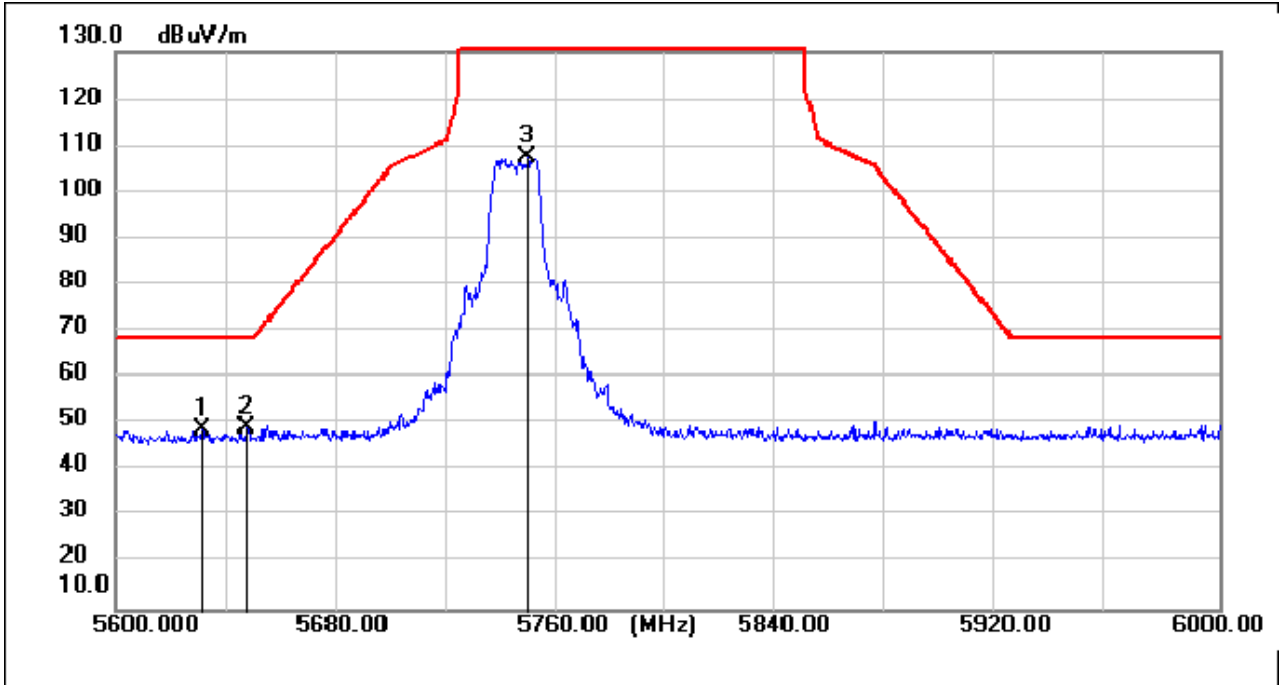
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5129.860	56.57	6.74	63.31	74.00	-10.69	peak
2	5150.000	58.45	6.75	65.20	74.00	-8.80	peak
3	5246.900	83.78	6.72	90.50	74.00	16.50	peak

11ac(VHT80)_TX_CH_42_Vertical_Average



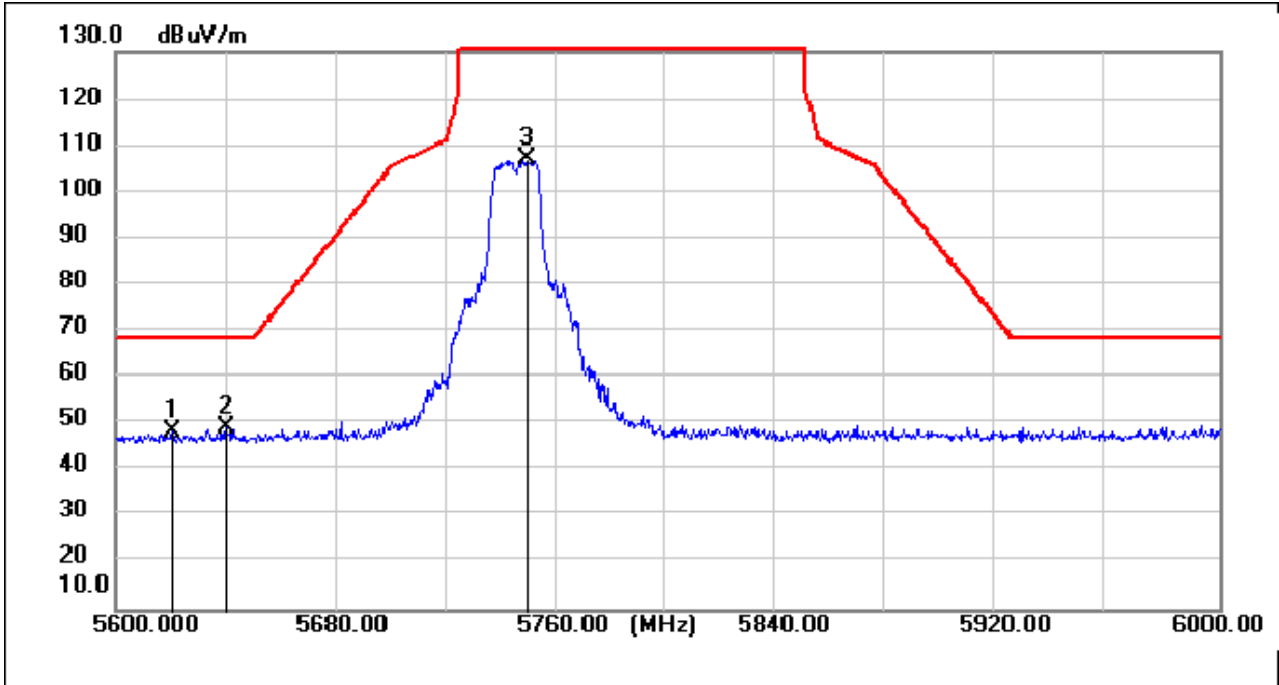
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5119.850	40.12	6.74	46.86	54.00	-7.14	AVG
2	5150.000	45.85	6.75	52.60	54.00	-1.40	AVG
3	5237.660	70.75	6.72	77.47	54.00	23.47	AVG

11a_TX_CH_149_Horizontal_Peak



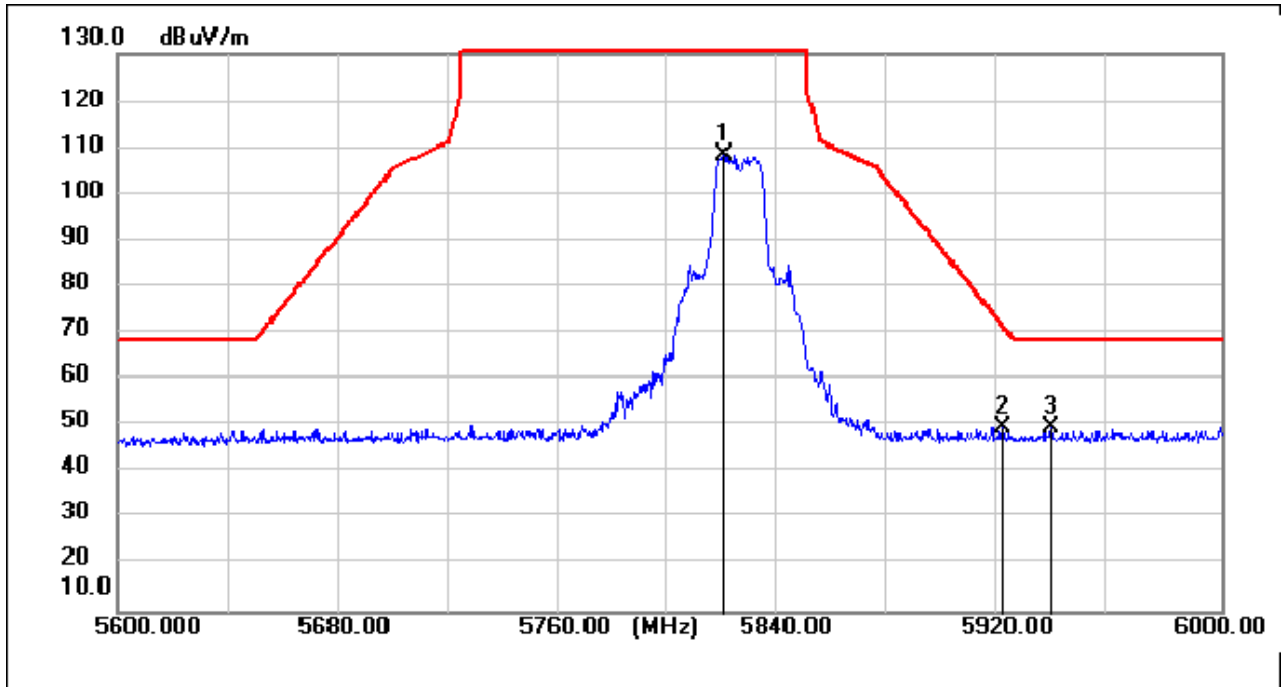
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5631.200	41.94	6.86	48.80	68.20	-19.40	peak
2	5647.600	42.35	6.88	49.23	68.20	-18.97	peak
3	5749.200	100.28	7.03	107.31	135.00	-27.69	peak

11a_TX_CH_149_Vertical_Peak



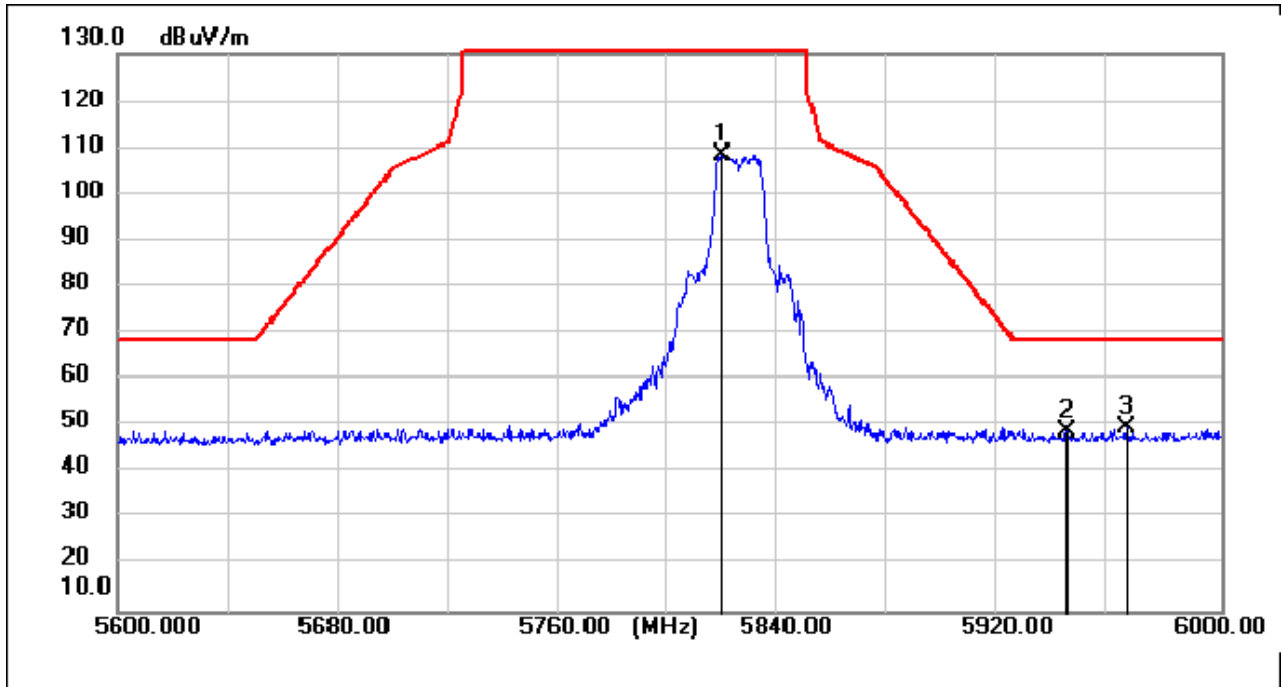
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.800	41.34	6.84	48.18	68.20	-20.02	peak
2	5640.000	42.36	6.87	49.23	68.20	-18.97	peak
3	5748.800	99.83	7.03	106.86	135.00	-28.14	peak

11a_TX_CH_165_Horizontal_Peak



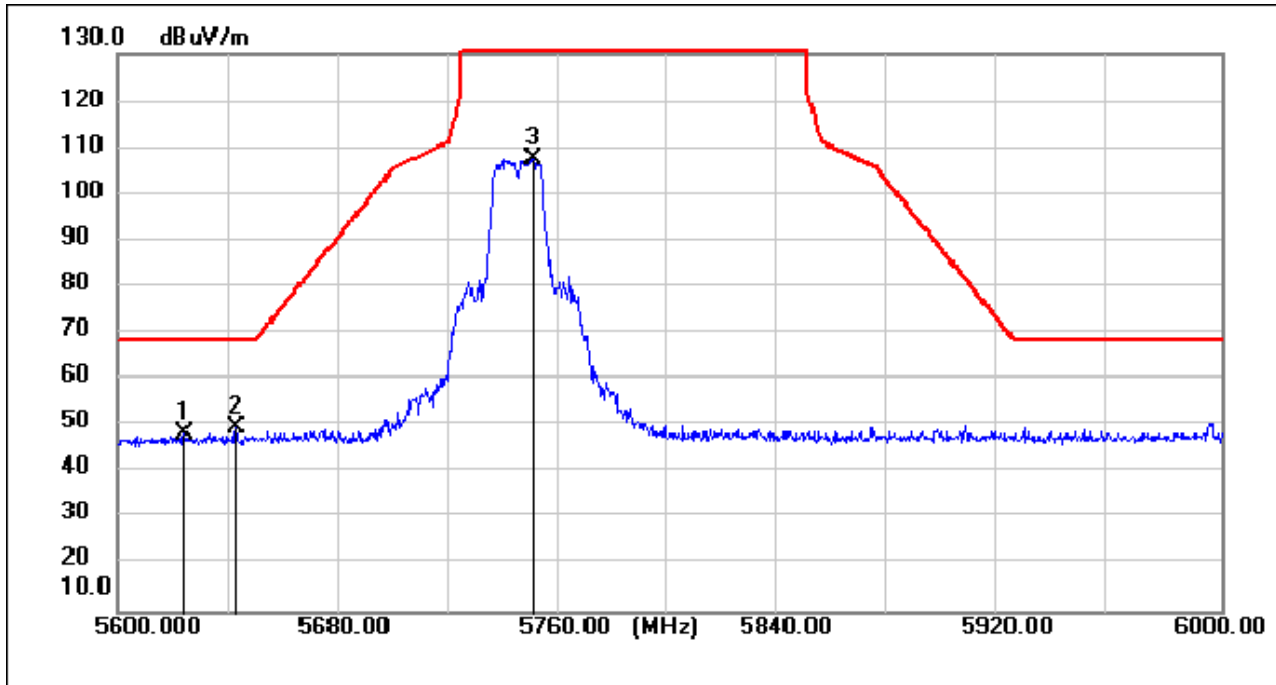
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.000	101.35	7.12	108.47	135.00	-26.53	peak
2	5921.200	42.30	7.27	49.57	71.01	-21.44	peak
3	5938.000	42.15	7.29	49.44	68.20	-18.76	peak

11a_TX_CH_165_Vertical_Peak



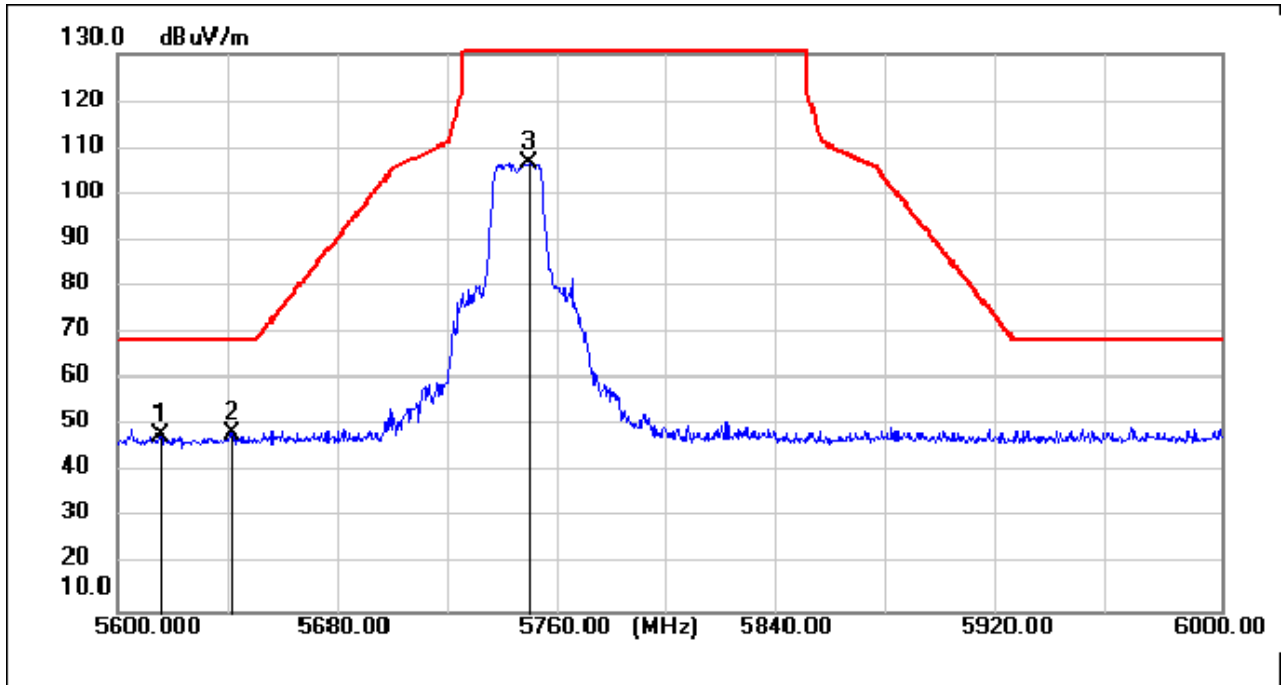
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5818.800	101.26	7.13	108.39	135.00	-26.61	peak
2	5944.000	41.55	7.30	48.85	68.20	-19.35	peak
3	5966.000	42.14	7.33	49.47	68.20	-18.73	peak

11ac(VHT20)_TX_CH_149_Horizontal_Peak



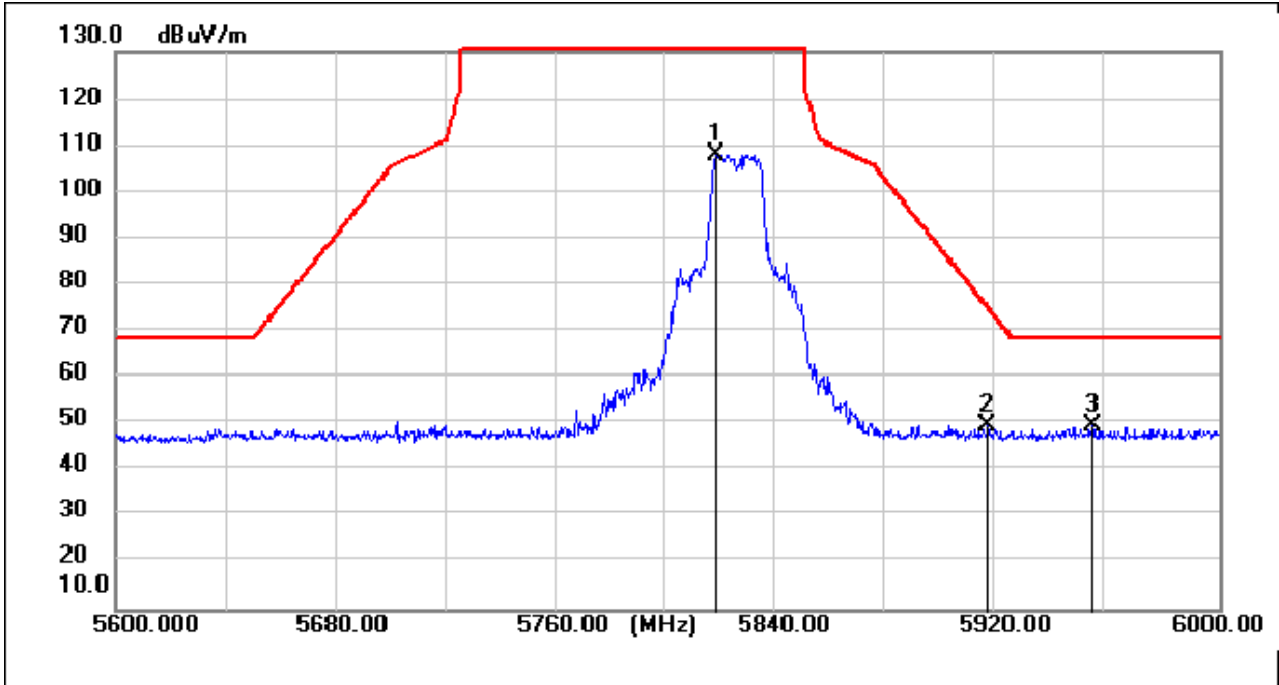
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5624.000	41.34	6.85	48.19	68.20	-20.01	peak
2	5643.200	42.65	6.87	49.52	68.20	-18.68	peak
3	5750.800	100.60	7.02	107.62	135.00	-27.38	peak

11ac(VHT20)_TX_CH_149_Vertical_Peak



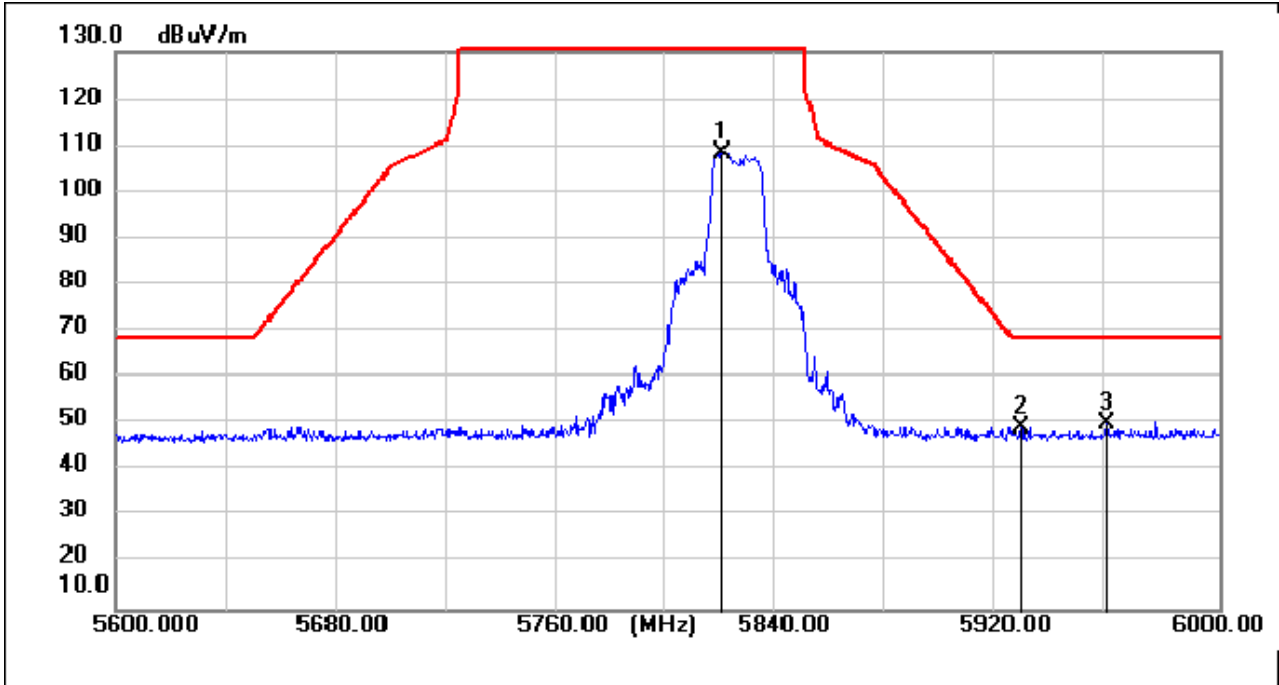
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.600	41.17	6.83	48.00	68.20	-20.20	peak
2	5641.200	41.66	6.87	48.53	68.20	-19.67	peak
3	5749.200	99.76	7.03	106.79	135.00	-28.21	peak

11ac(VHT20)_TX_CH_165_Horizontal_Peak



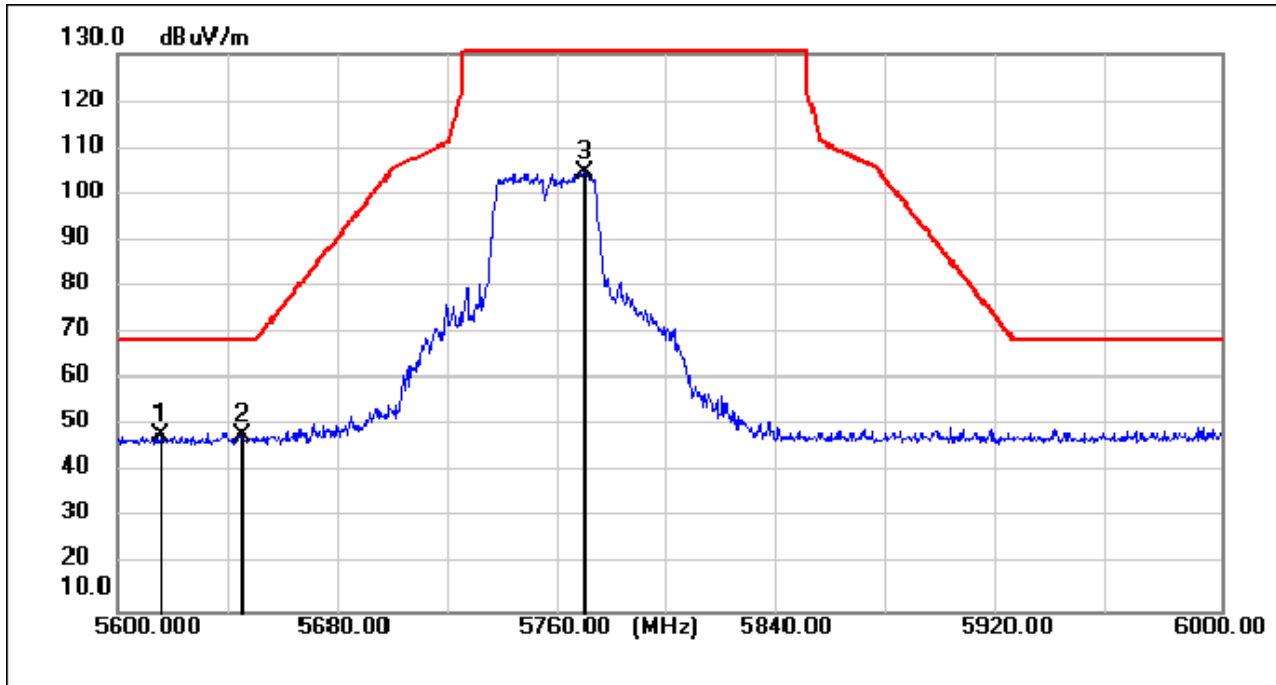
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5818.000	101.02	7.12	108.14	135.00	-26.86	peak
2	5916.000	42.24	7.26	49.50	74.86	-25.36	peak
3	5954.400	42.39	7.32	49.71	68.20	-18.49	peak

11ac(VHT20)_TX_CH_165_Vertical_Peak



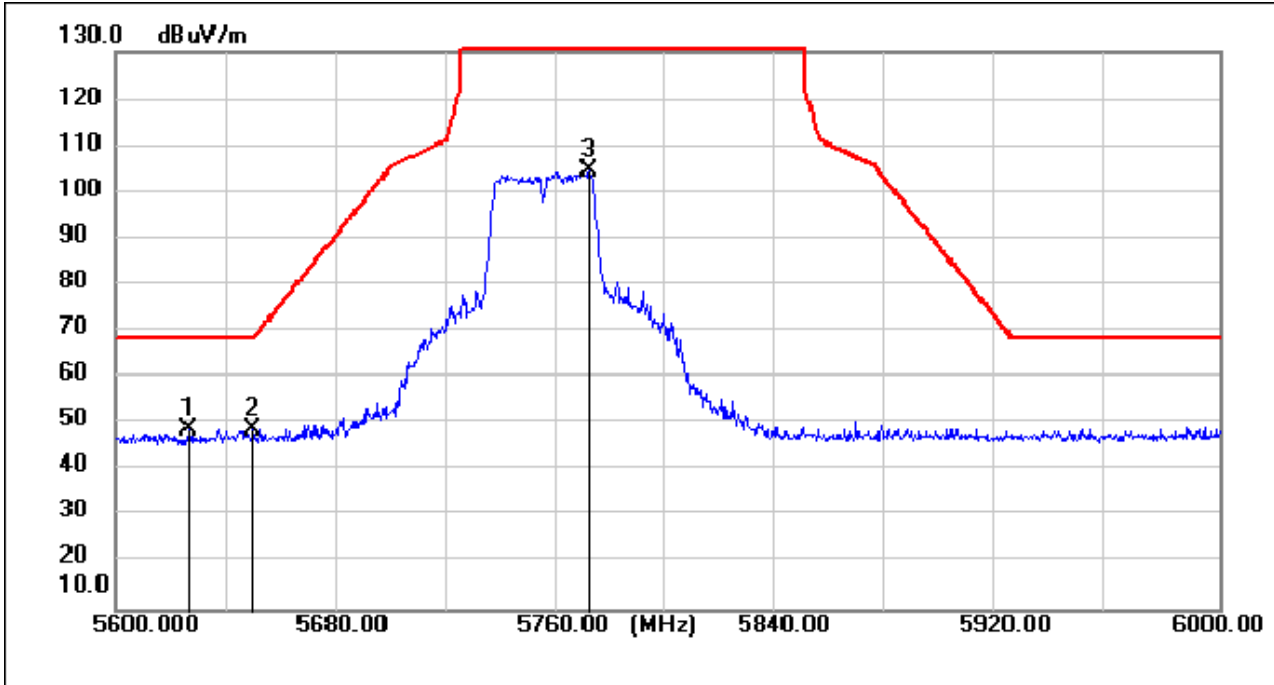
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5819.600	101.45	7.12	108.57	135.00	-26.43	peak
2	5928.000	41.96	7.27	49.23	68.20	-18.97	peak
3	5959.200	42.85	7.32	50.17	68.20	-18.03	peak

11ac(VHT40)_TX_CH_151_Horizontal_Peak



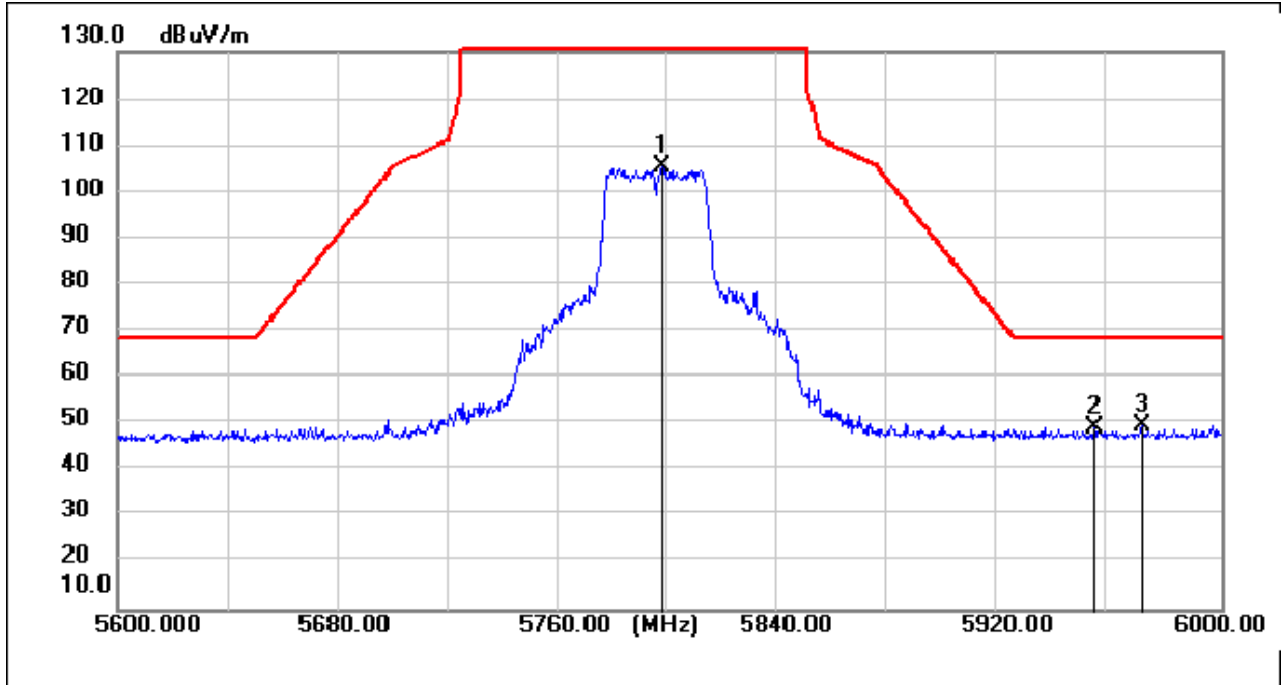
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5615.600	41.31	6.83	48.14	68.20	-20.06	peak
2	5645.200	41.21	6.87	48.08	68.20	-20.12	peak
3	5769.600	97.57	7.05	104.62	135.00	-30.38	peak

11ac(VHT40)_TX_CH_151_Vertical_Peak



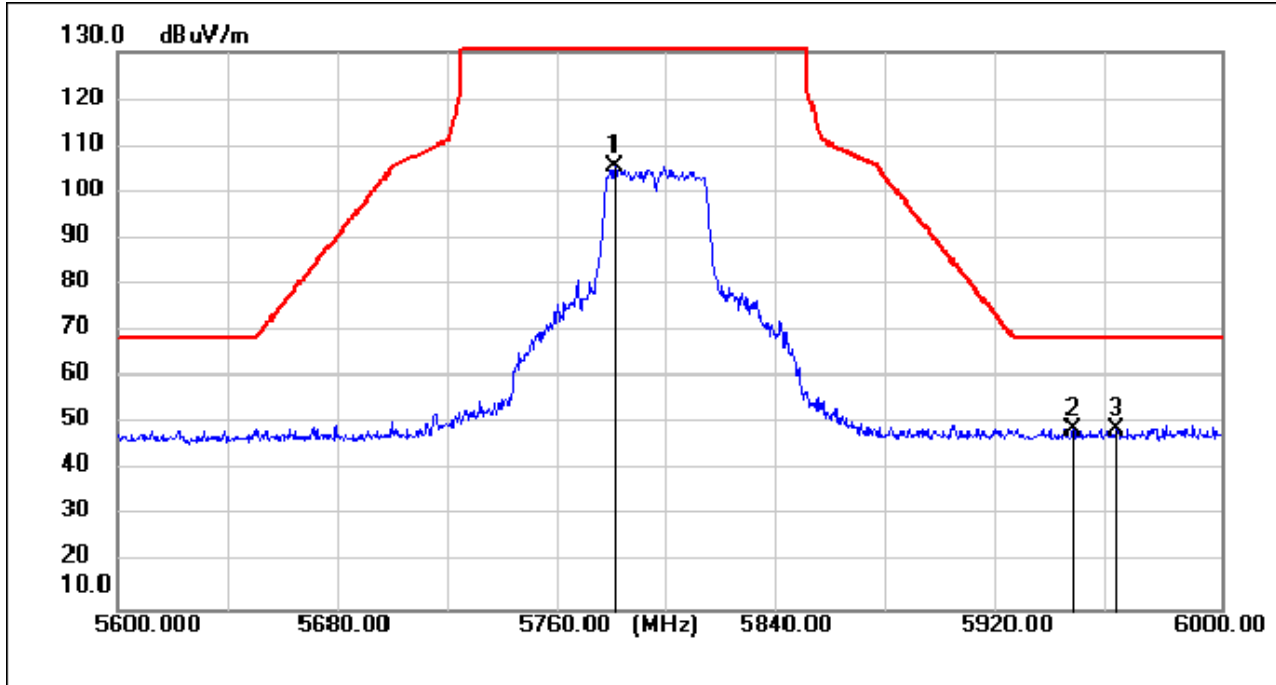
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5626.400	41.78	6.85	48.63	68.20	-19.57	peak
2	5649.600	41.89	6.89	48.78	68.20	-19.42	peak
3	5771.200	97.41	7.06	104.47	135.00	-30.53	peak

11ac(VHT40)_TX_CH_159_Horizontal_Peak



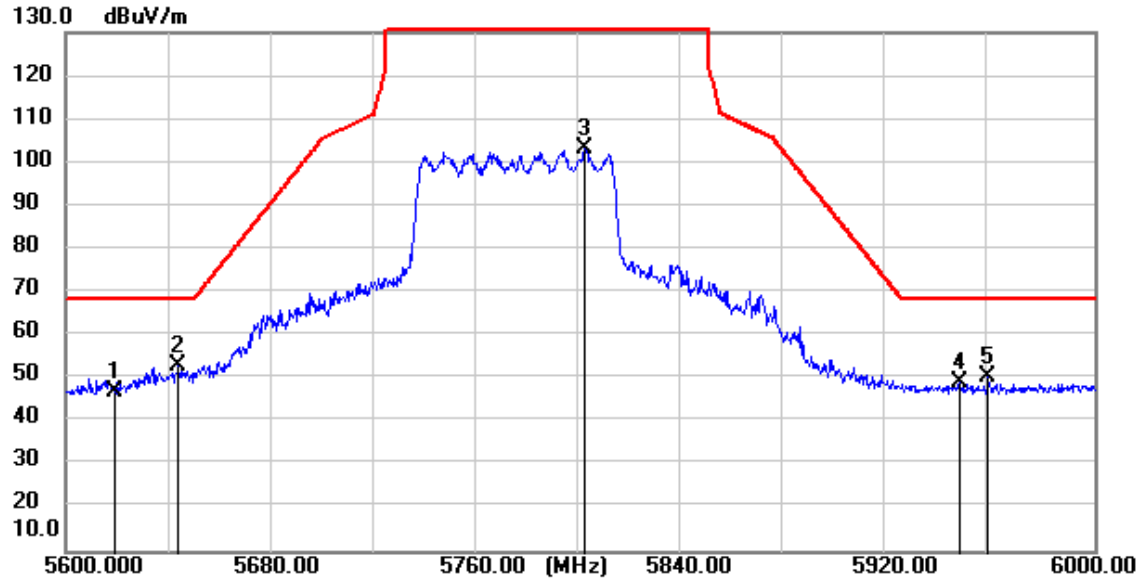
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5797.200	98.19	7.09	105.28	135.00	-29.72	peak
2	5954.400	42.10	7.32	49.42	68.20	-18.78	peak
3	5971.200	42.49	7.34	49.83	68.20	-18.37	peak

11ac(VHT40)_TX_CH_159_Vertical_Peak



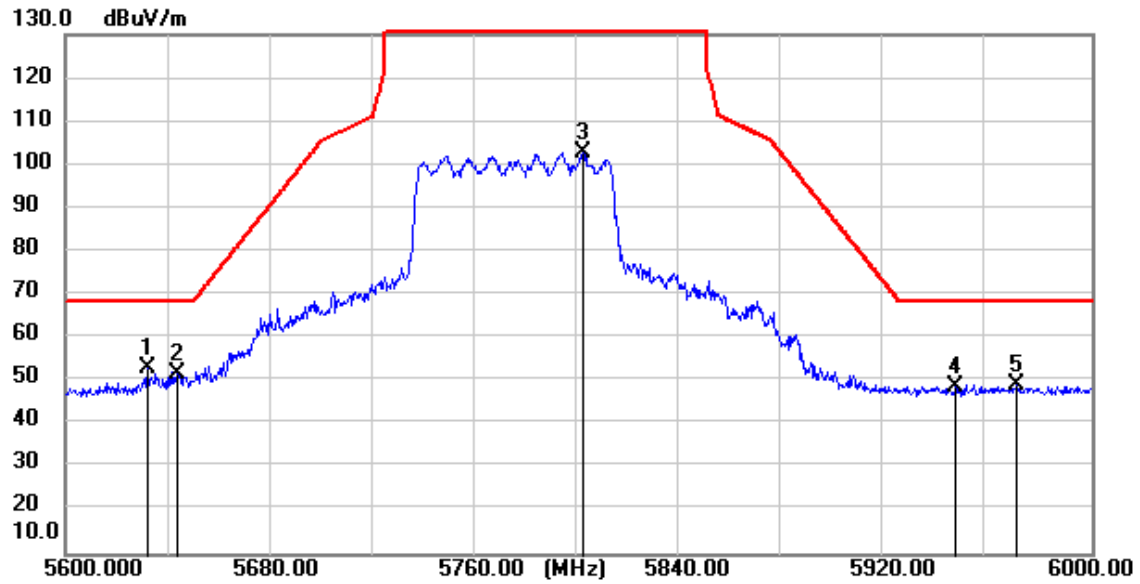
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5780.000	98.16	7.07	105.23	135.00	-29.77	peak
2	5946.000	41.57	7.30	48.87	68.20	-19.33	peak
3	5962.400	41.63	7.33	48.96	68.20	-19.24	peak

11ac(VHT80)_TX_CH_155_Horizontal_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.200	40.33	6.84	47.17	68.20	-21.03	peak
2	5644.000	46.00	6.87	52.87	68.20	-15.33	peak
3	5801.600	95.92	7.10	103.02	135.00	-31.98	peak
4	5948.000	42.01	7.31	49.32	68.20	-18.88	peak
5	5958.800	43.05	7.32	50.37	68.20	-17.83	peak

11ac(VHT80)_TX_CH_155_Verical_Peak



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5632.000	46.18	6.86	53.04	68.20	-15.16	peak
2	5643.600	45.06	6.87	51.93	68.20	-16.27	peak
3	5801.600	95.56	7.10	102.66	135.00	-32.34	peak
4	5947.200	41.48	7.31	48.79	68.20	-19.41	peak
5	5970.800	41.67	7.34	49.01	68.20	-19.19	peak

7.4 Duty Cycle

Test Requirement ANSI C63.10 (2020) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.5.3

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

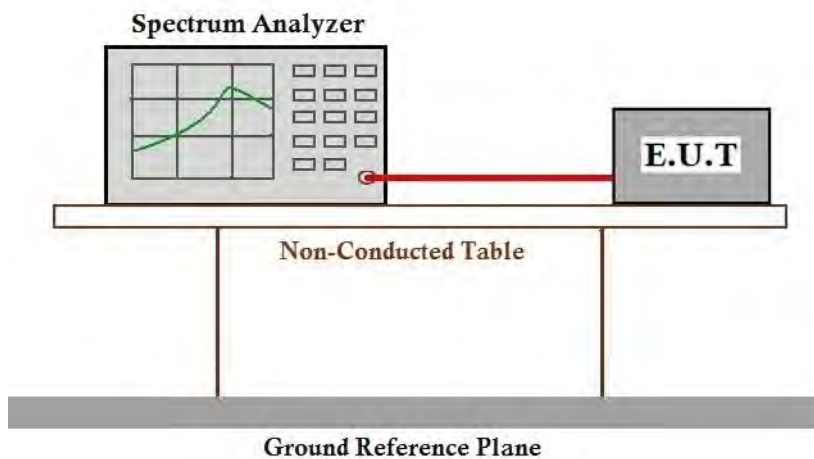
Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

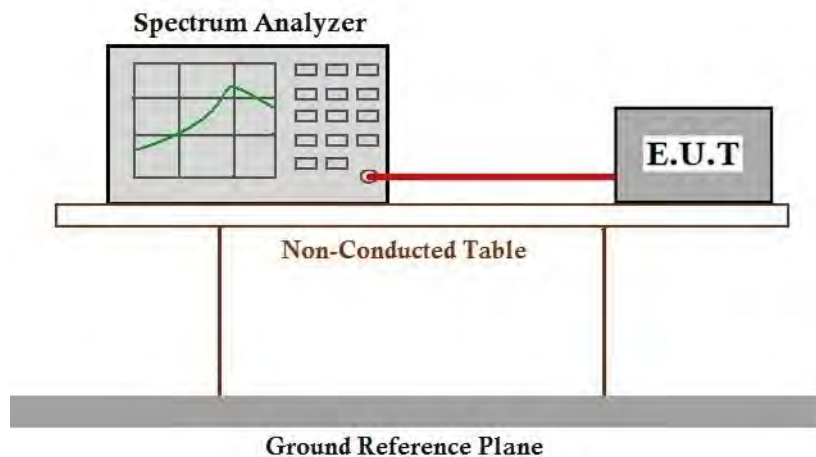
Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10 (2020) Section 12.5.1

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.7.3 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

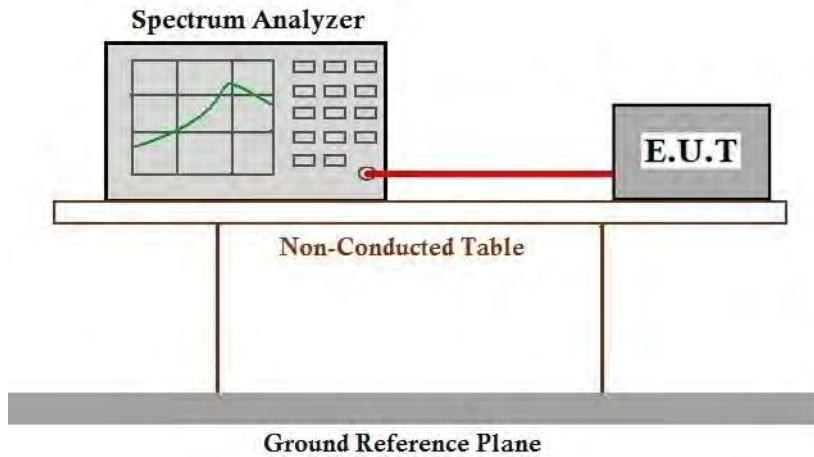
Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details

7.9 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

Please Refer to Appendix for Details

7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2020) Section 6.8

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C

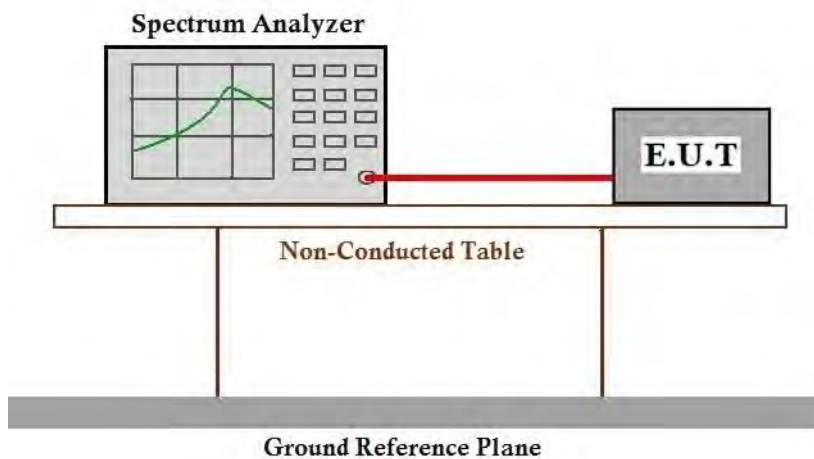
Humidity: 48.2 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2506001399AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for KSCR2506001399AT



10 Appendix

UNII-1

1. Duty Cycle

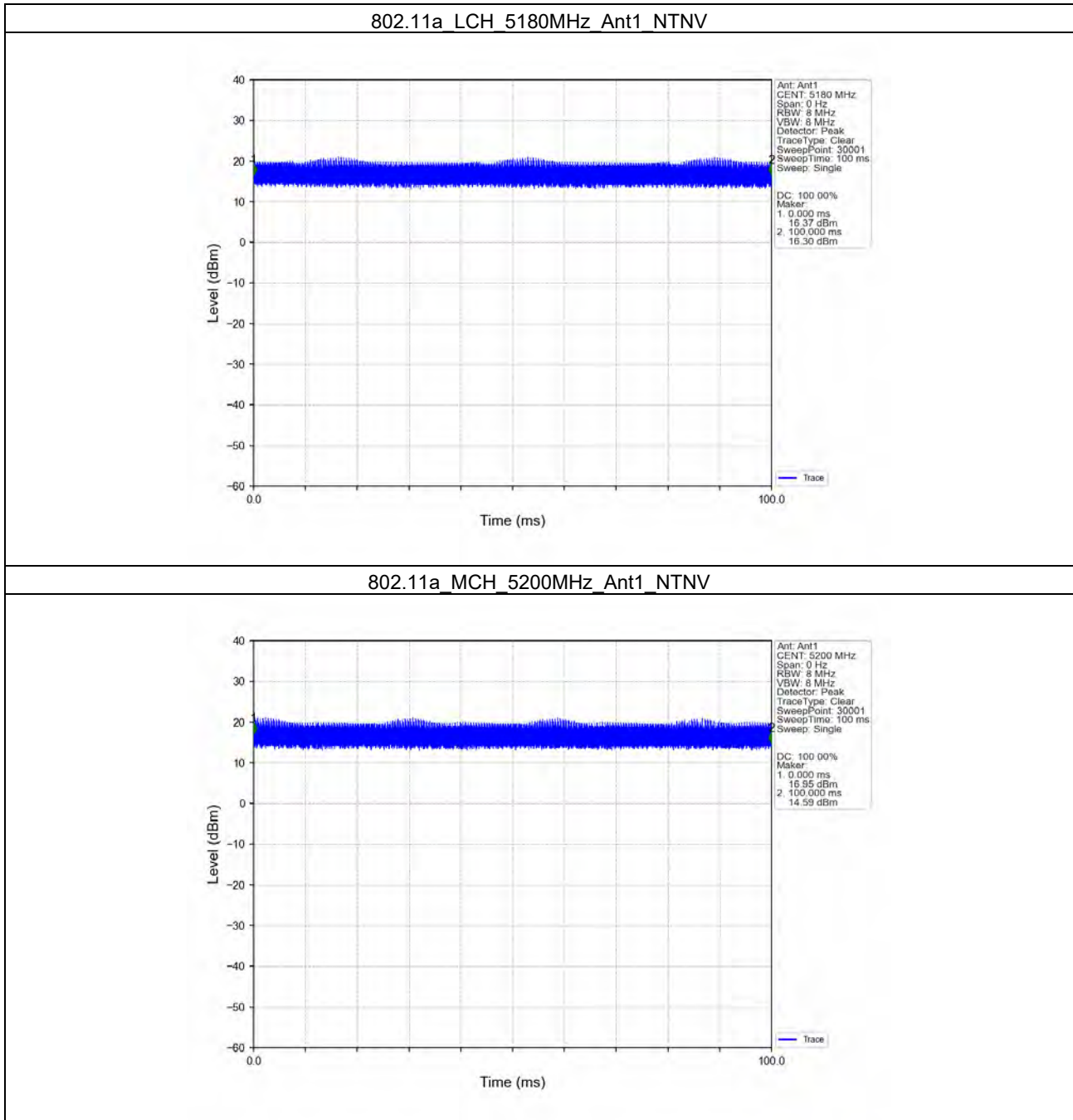
1.1 Test Result

1.1.1 Ant1

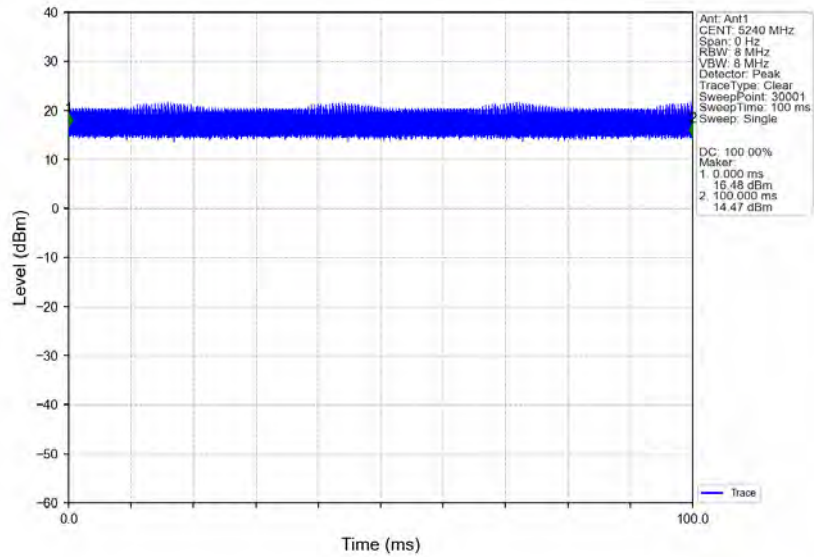
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5210	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

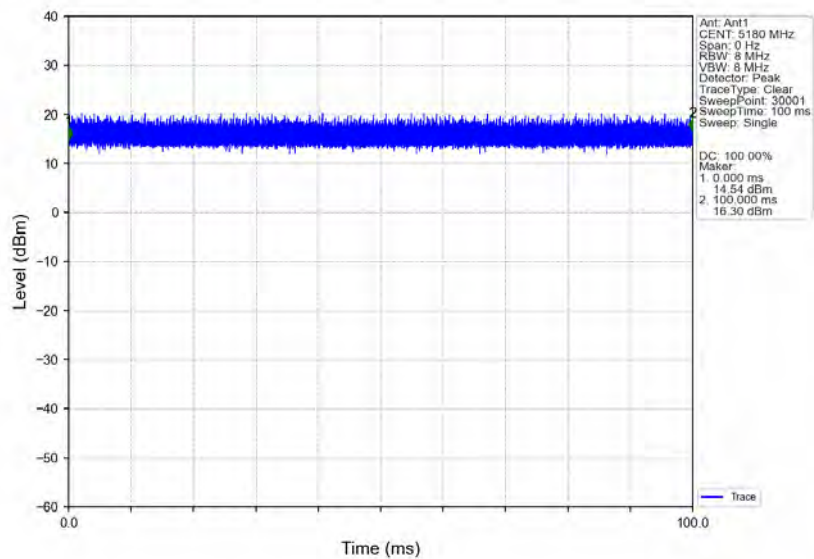
1.2.1 Ant1



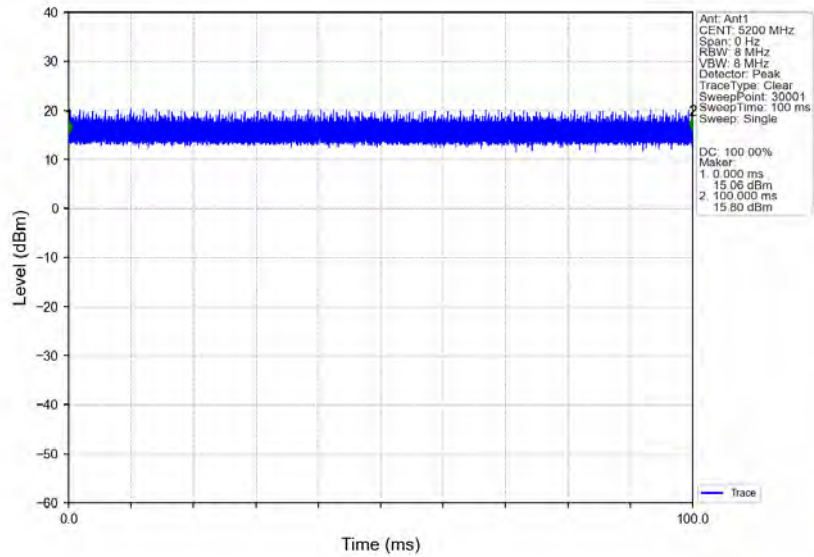
802.11a_HCH_5240MHz_Ant1_NTNV



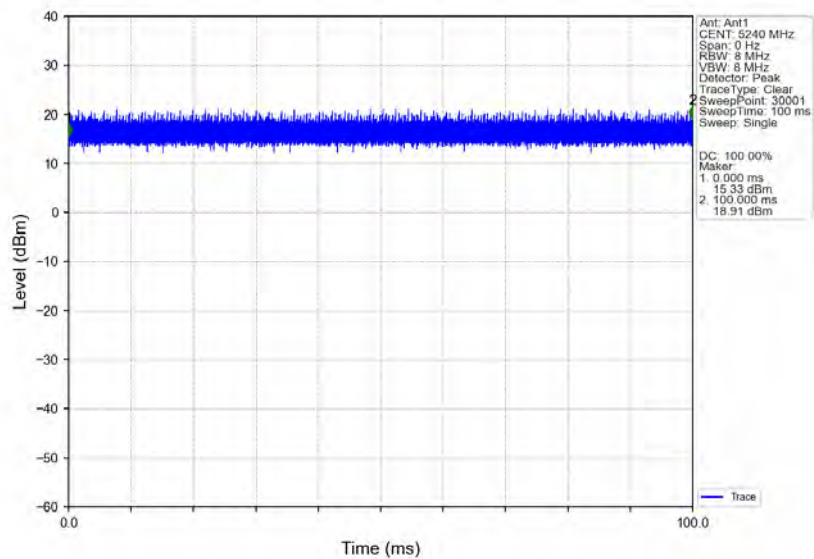
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



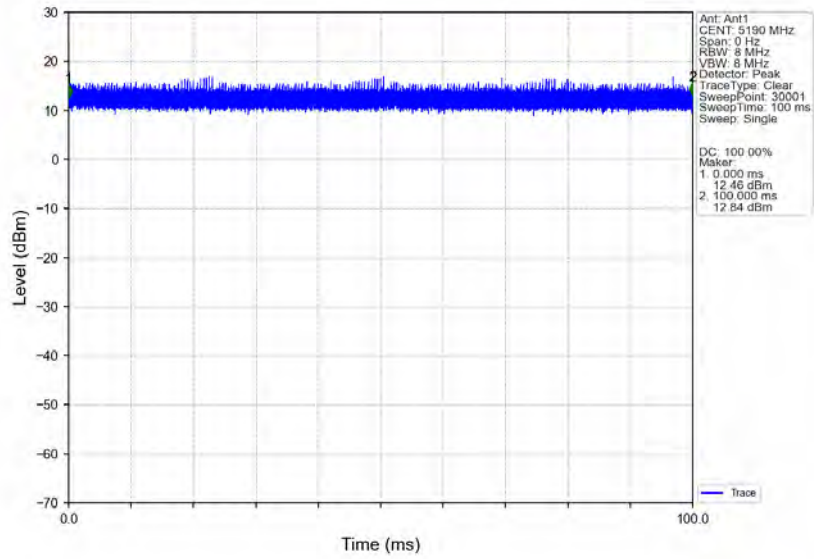
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



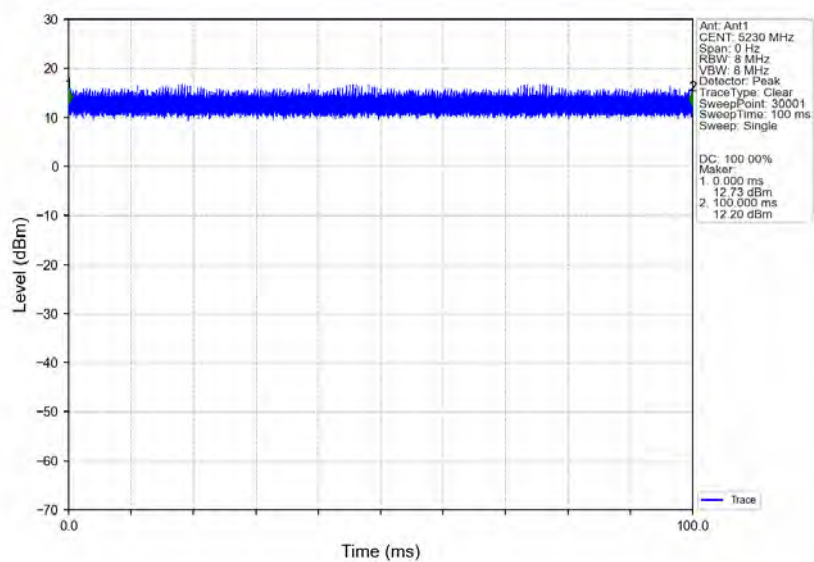
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



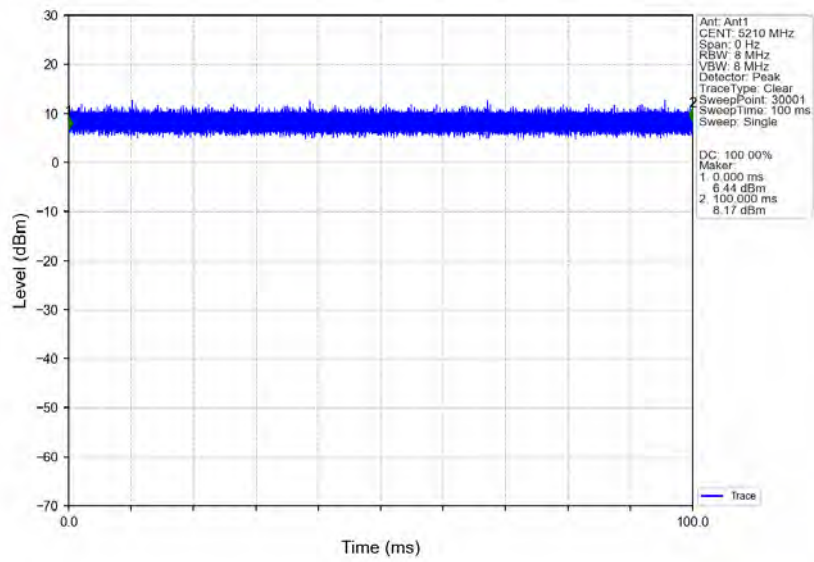
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.350	/	Pass
		5200	1	17.484	/	Pass
		5240	1	17.897	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.303	/	Pass
		5200	1	18.422	/	Pass
		5240	1	18.449	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.758	/	Pass
		5230	1	37.170	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.699	/	Pass

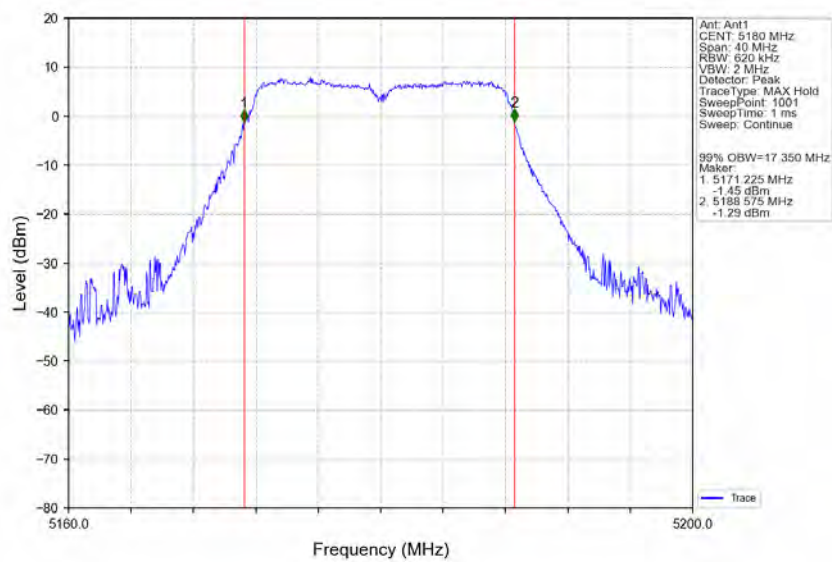
2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	21.560	/	Pass
		5200	1	21.889	/	Pass
		5240	1	31.533	/	Pass
802.11ac (VHT20)	SISO	5180	1	22.034	/	Pass
		5200	1	22.238	/	Pass
		5240	1	22.478	/	Pass
802.11ac (VHT40)	SISO	5190	1	43.691	/	Pass
		5230	1	44.543	/	Pass
802.11ac (VHT80)	SISO	5210	1	82.816	/	Pass

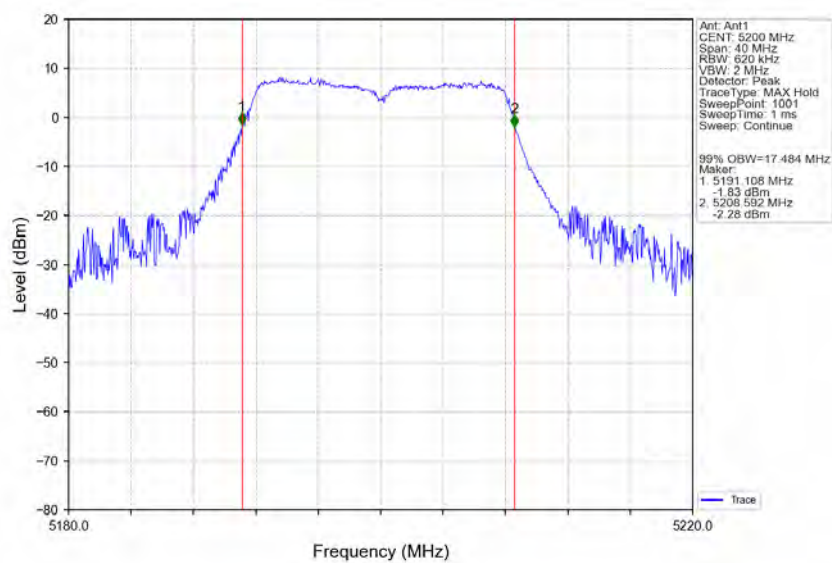
2.2 Test Graph

2.2.1 OBW

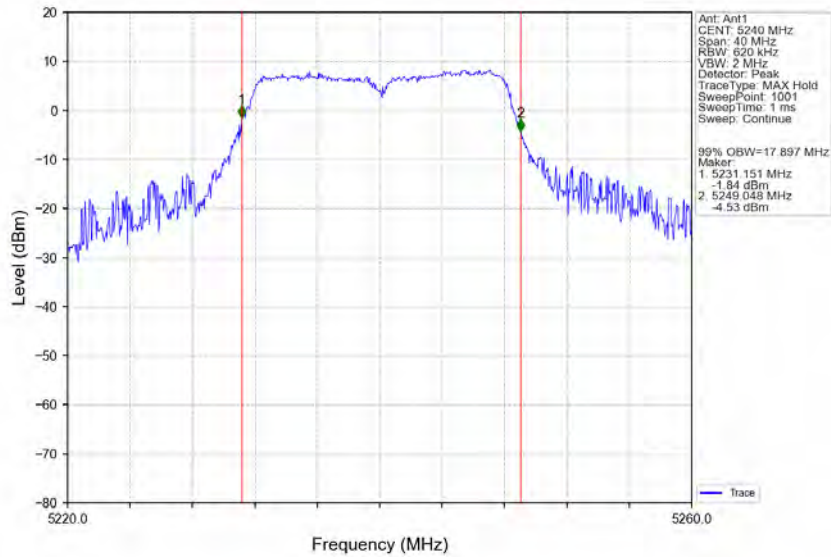
802.11a LCH 5180MHz Ant1 NTN



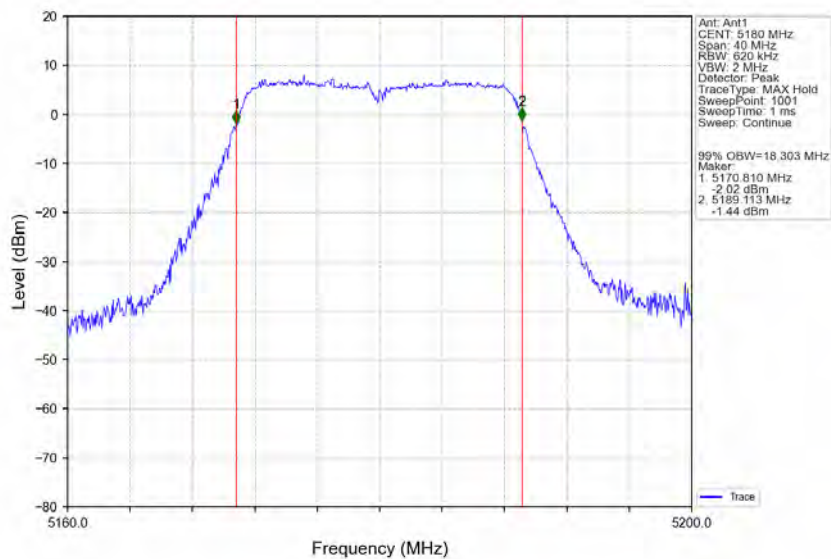
802.11a MCH 5200MHz Ant1 NTN



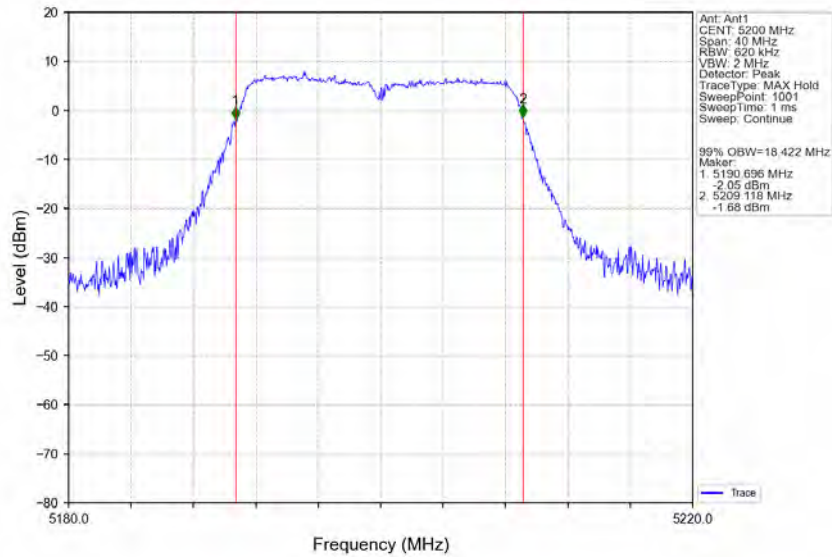
802.11a_HCH_5240MHz_Ant1_NTNV



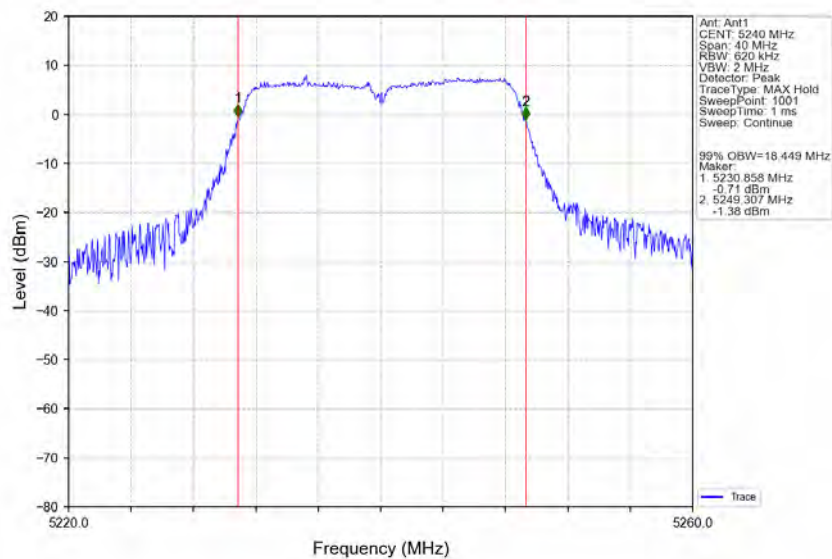
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



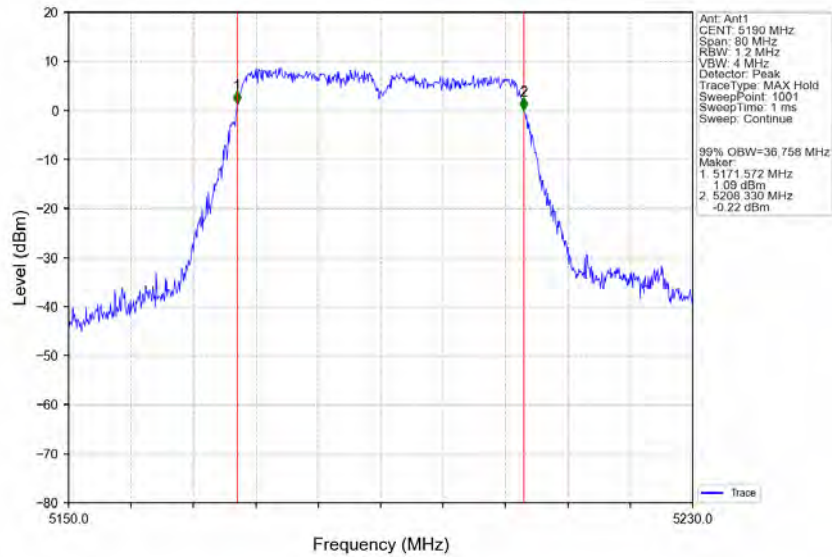
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



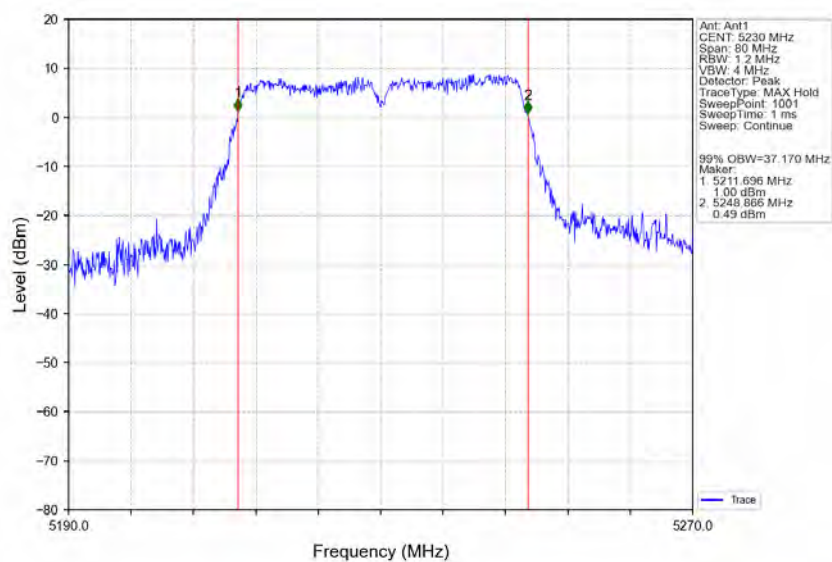
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



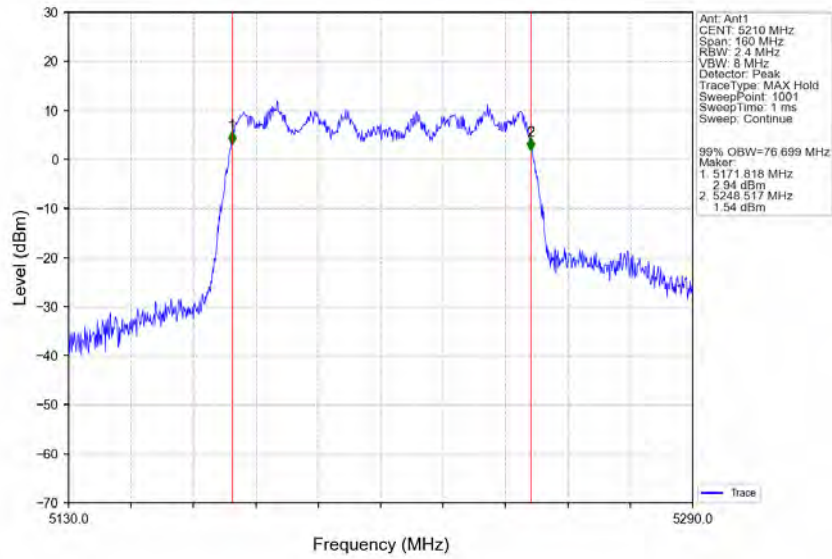
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

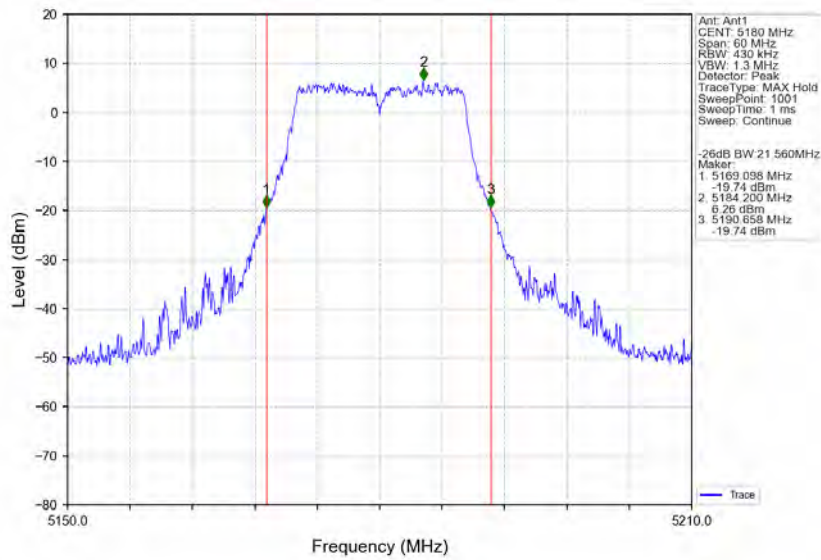


802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

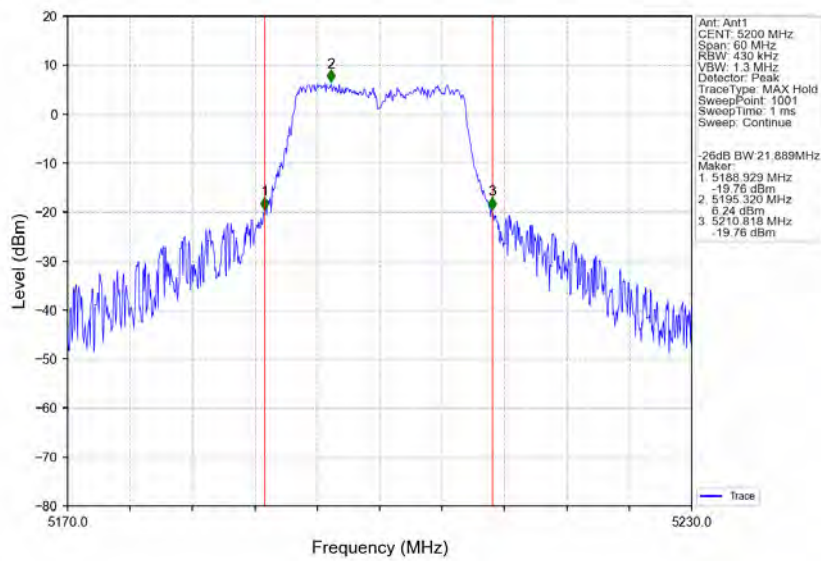


2.2.2 26dB BW

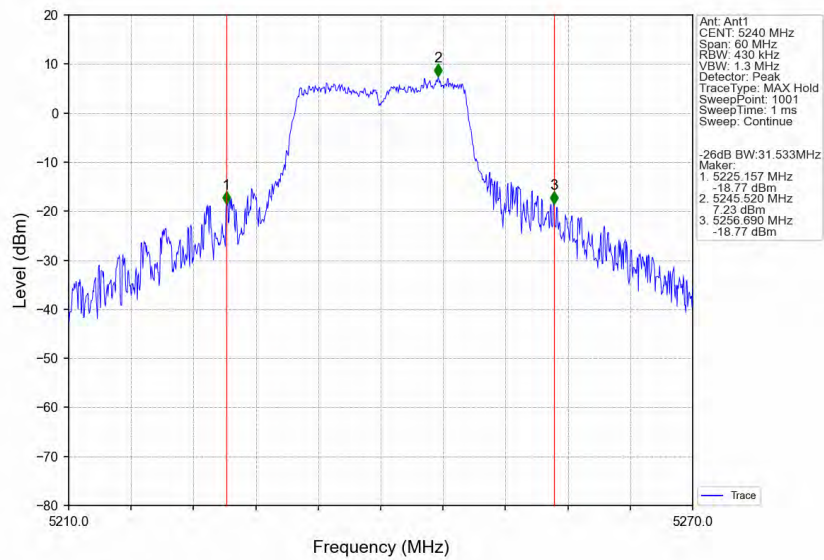
802.11a_LCH_5180MHz_Ant1_NTNV



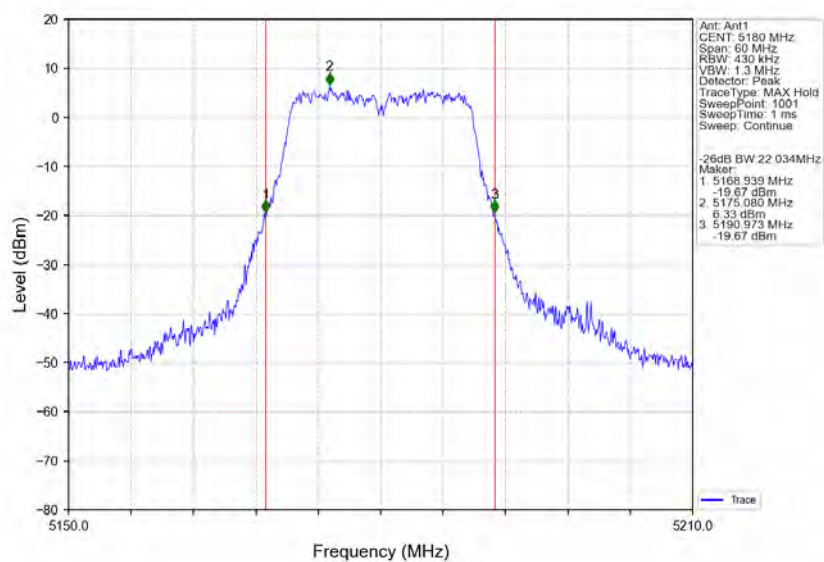
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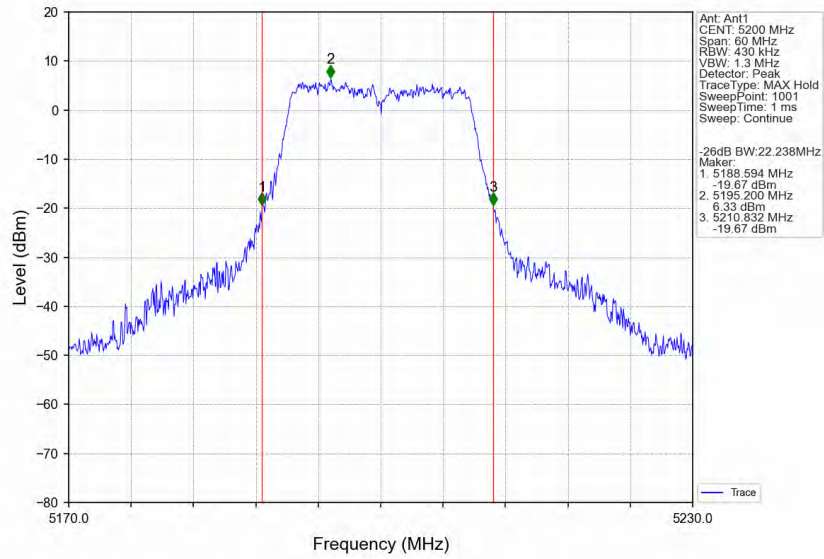
802.11a_HCH_5240MHz_Ant1_NTNV



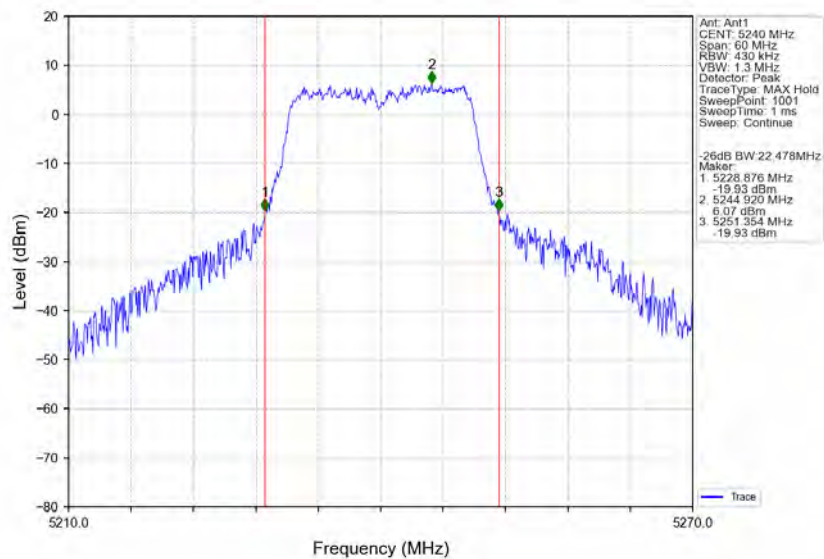
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



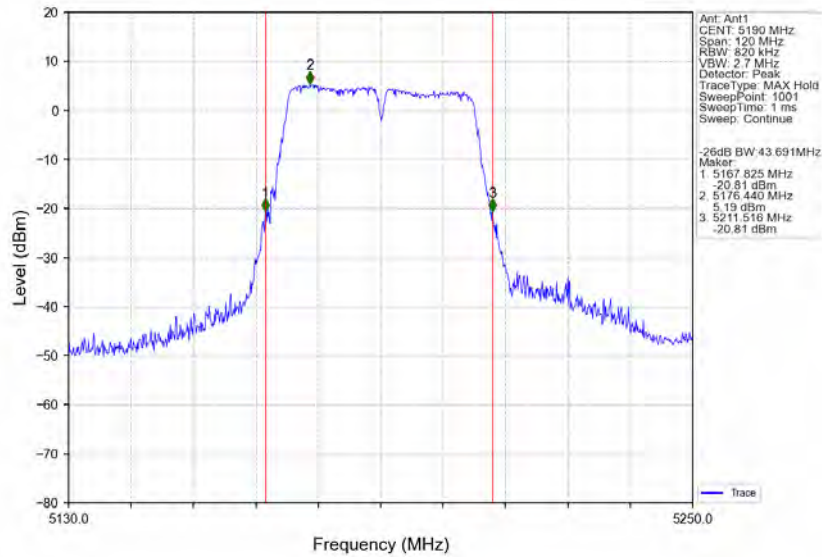
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



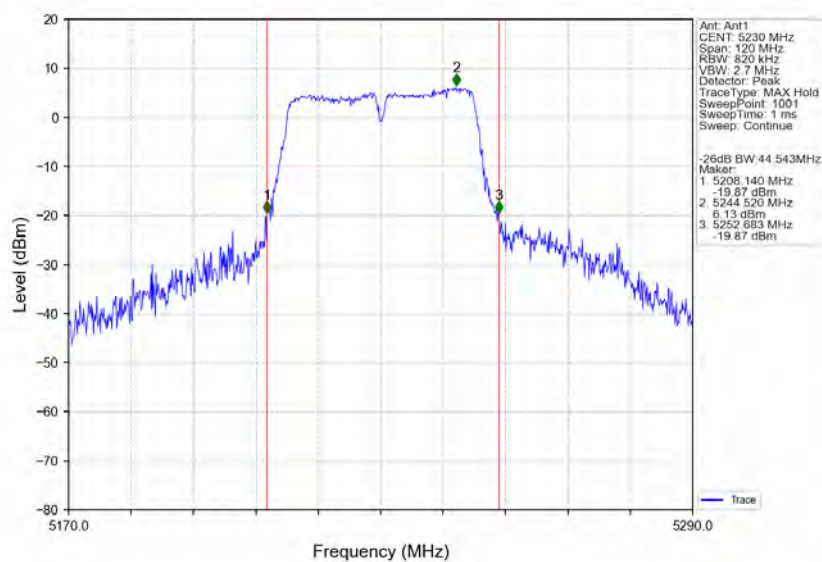
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



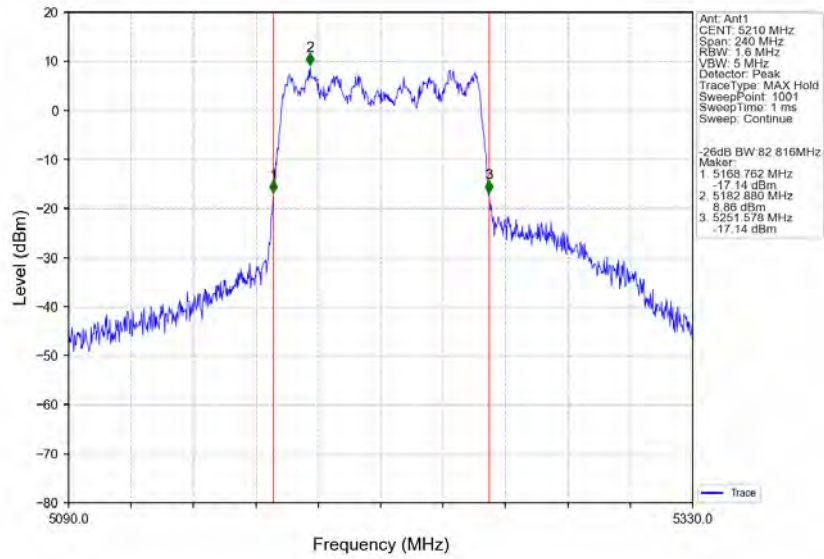
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.94	<=30	Pass
		5200	14.12	<=30	Pass
		5240	14.47	<=30	Pass
802.11ac (VHT20)	SISO	5180	13.63	<=30	Pass
		5200	13.56	<=30	Pass
		5240	13.89	<=30	Pass
802.11ac (VHT40)	SISO	5190	13.24	<=30	Pass
		5230	13.54	<=30	Pass
802.11ac (VHT80)	SISO	5210	13.18	<=30	Pass

Note1: Antenna Gain: Ant1: -4.45dBi;

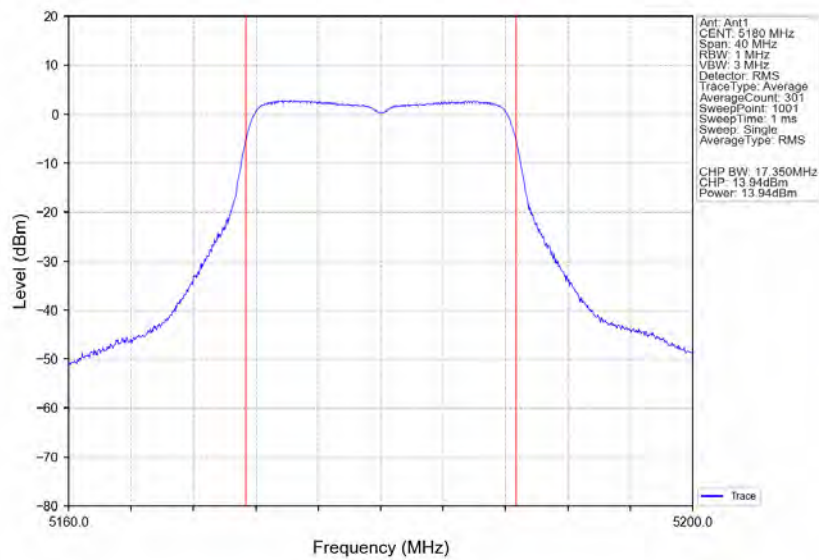
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP	EIRP Limit	Verdict
			ANT1				
802.11a	SISO	5180	13.94	-4.45	9.49	<=21	Pass
		5200	14.12	-4.45	9.67	<=21	Pass
		5240	14.47	-4.45	10.02	<=21	Pass
802.11ac (VHT20)	SISO	5180	13.63	-4.45	9.18	<=21	Pass
		5200	13.56	-4.45	9.11	<=21	Pass
		5240	13.89	-4.45	9.44	<=21	Pass
802.11ac (VHT40)	SISO	5190	13.24	-4.45	8.79	<=21	Pass
		5230	13.54	-4.45	9.09	<=21	Pass
802.11ac (VHT80)	SISO	5210	13.18	-4.45	8.73	<=21	Pass

Note: The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

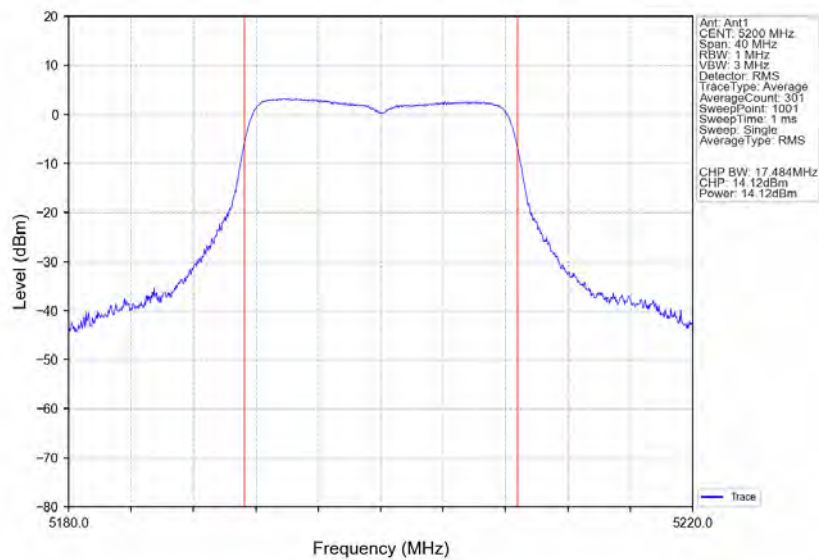
3.2 Test Graph

3.2.1 Power

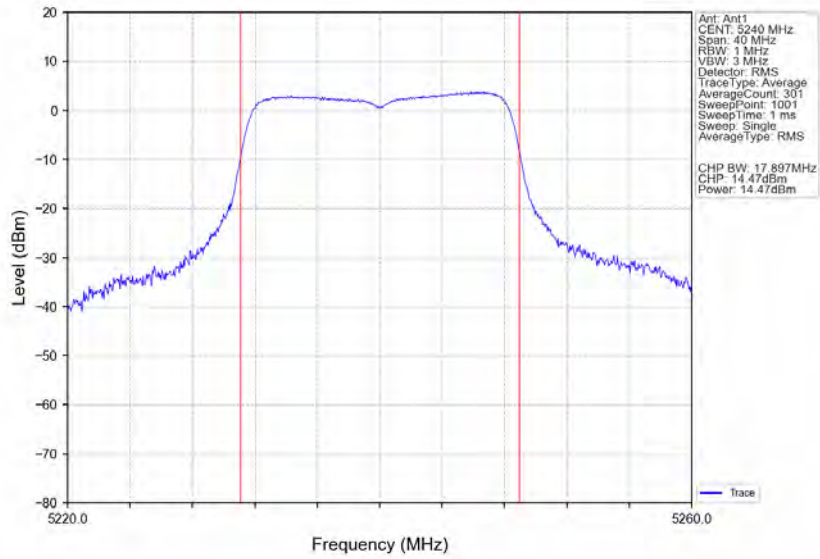
802.11a LCH 5180MHz Ant1 NTN



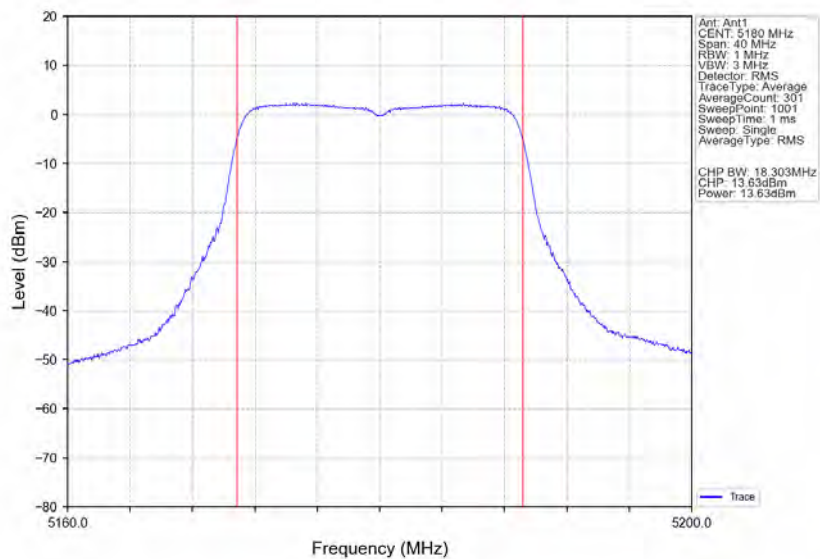
802.11a MCH 5200MHz Ant1 NTN



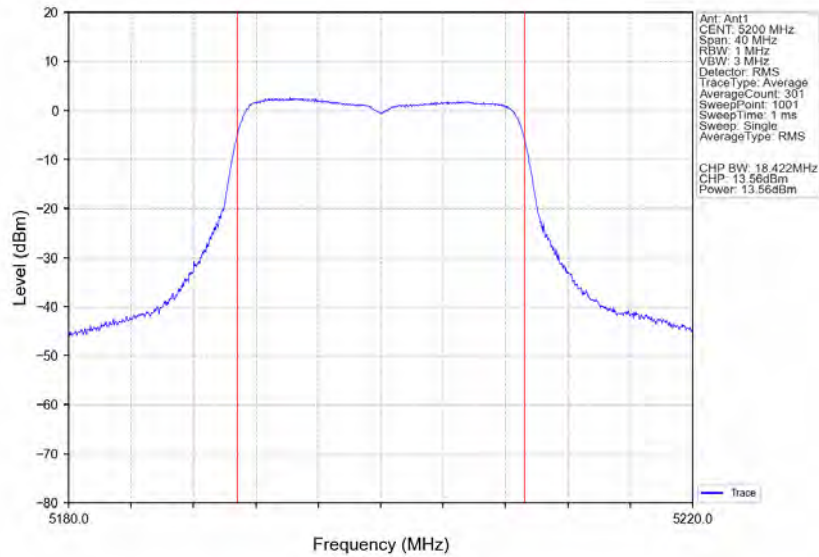
802.11a_HCH_5240MHz_Ant1_NTNV



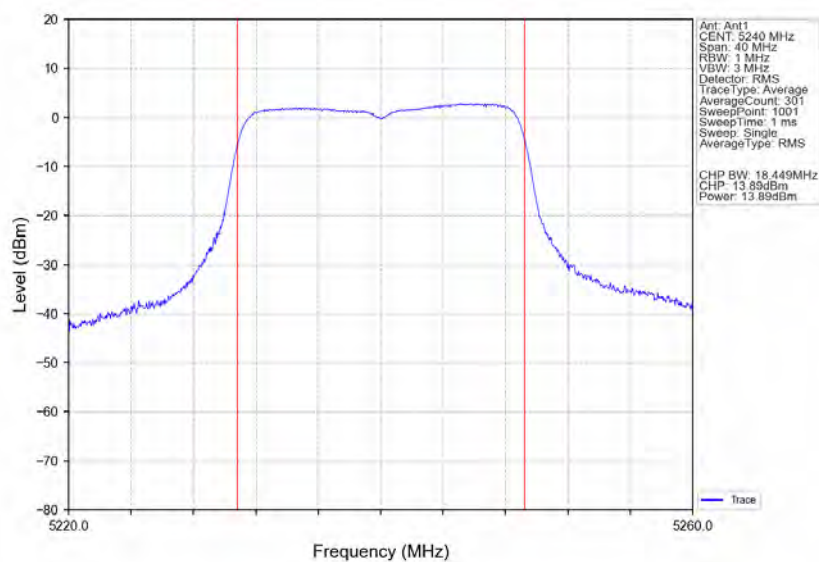
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



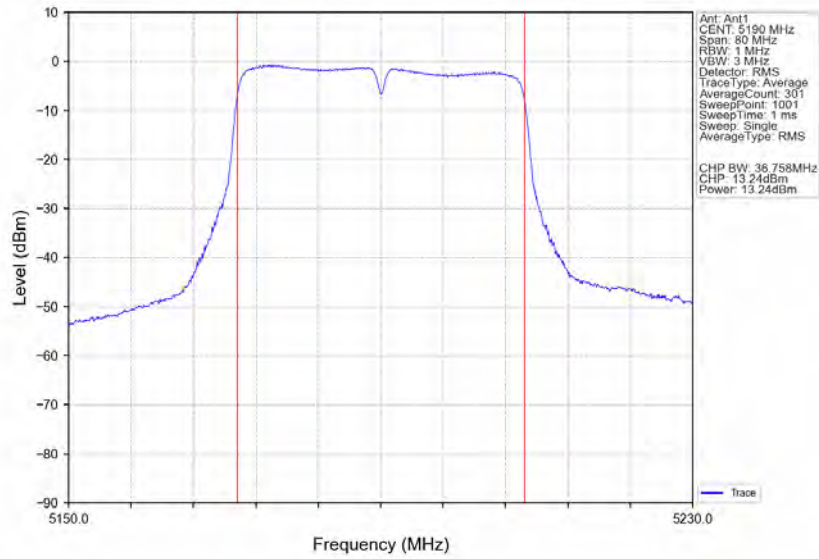
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



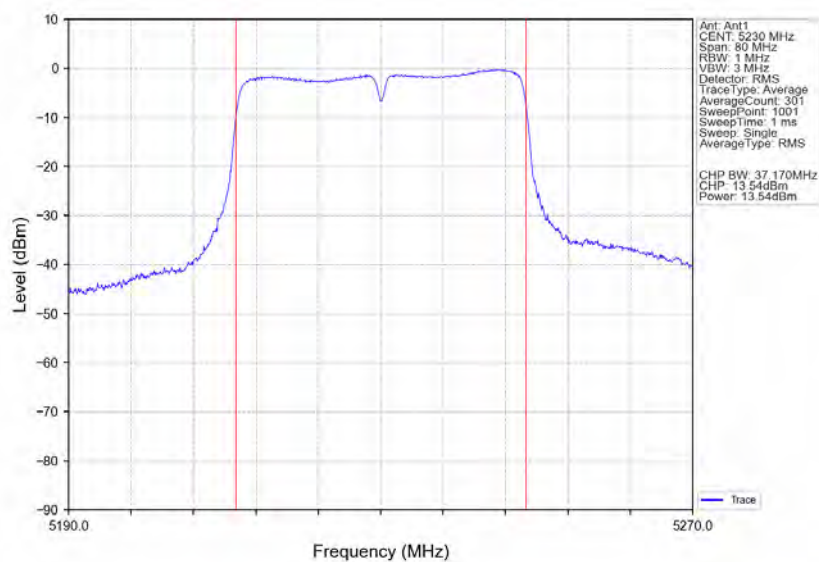
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



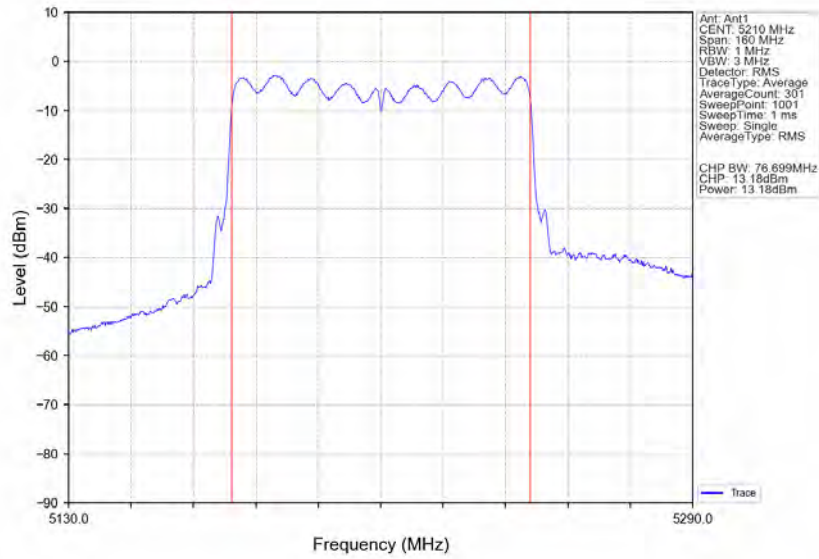
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

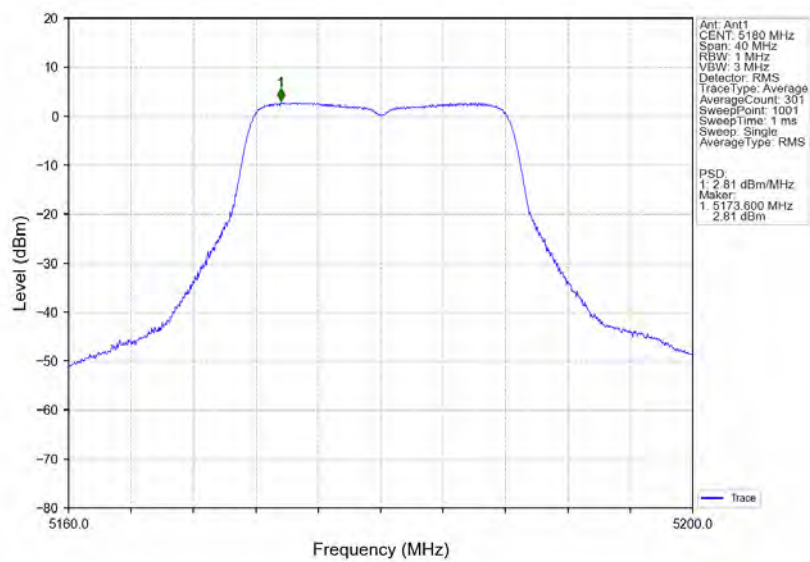
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.81	<=17	Pass
		5200	3.37	<=17	Pass
		5240	3.76	<=17	Pass
802.11ac (VHT20)	SISO	5180	2.55	<=17	Pass
		5200	2.53	<=17	Pass
		5240	2.89	<=17	Pass
802.11ac (VHT40)	SISO	5190	-0.78	<=17	Pass
		5230	-0.10	<=17	Pass
802.11ac (VHT80)	SISO	5210	-2.77	<=17	Pass
Note1: Antenna Gain: Ant1: -4.45dBi;					

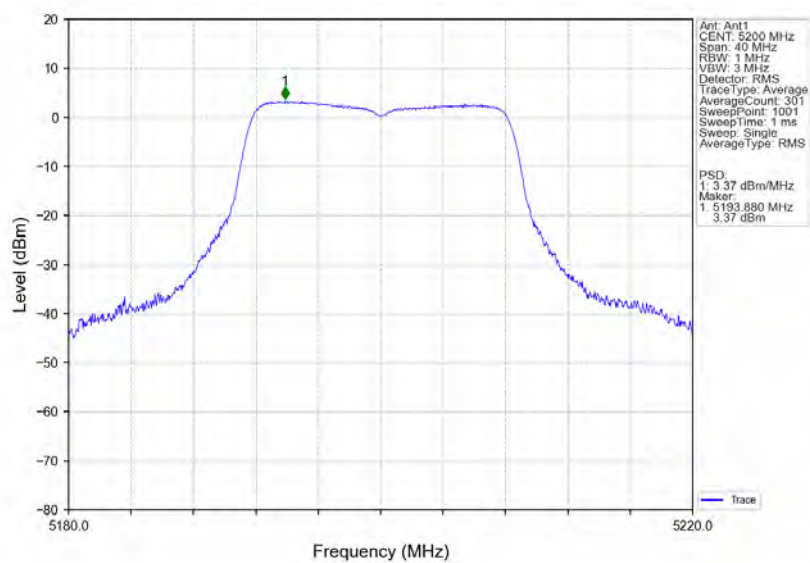
4.2 Test Graph

4.2.1 PSD

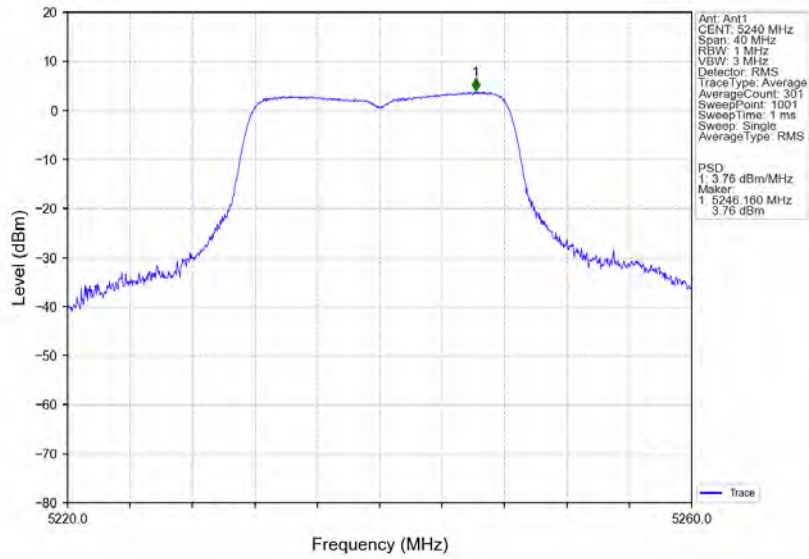
802.11a LCH 5180MHz Ant1 NTN



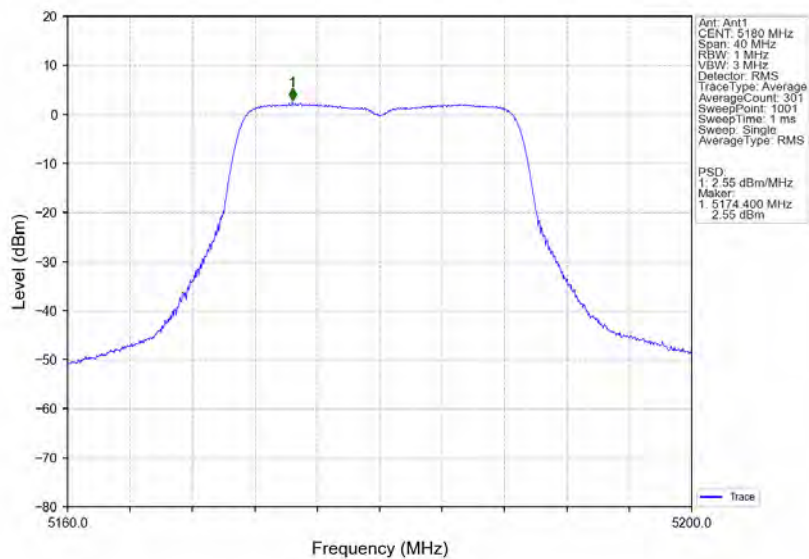
802.11a MCH 5200MHz Ant1 NTN



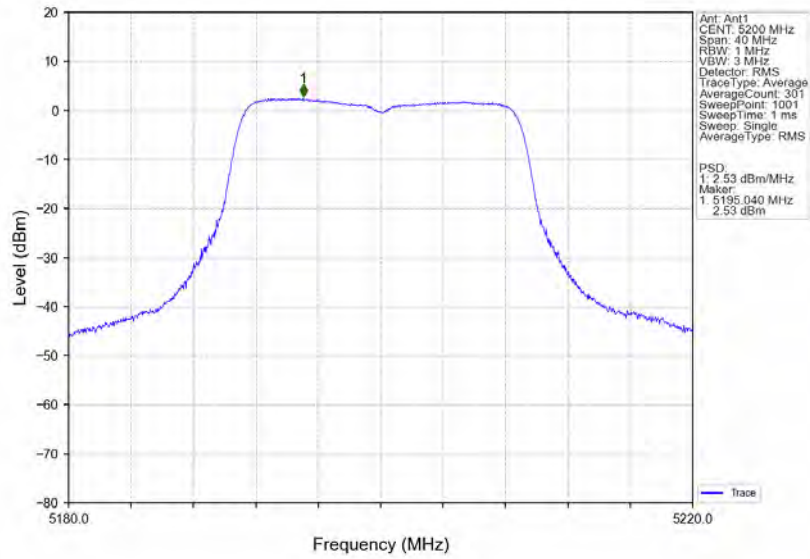
802.11a_HCH_5240MHz_Ant1_NTNV



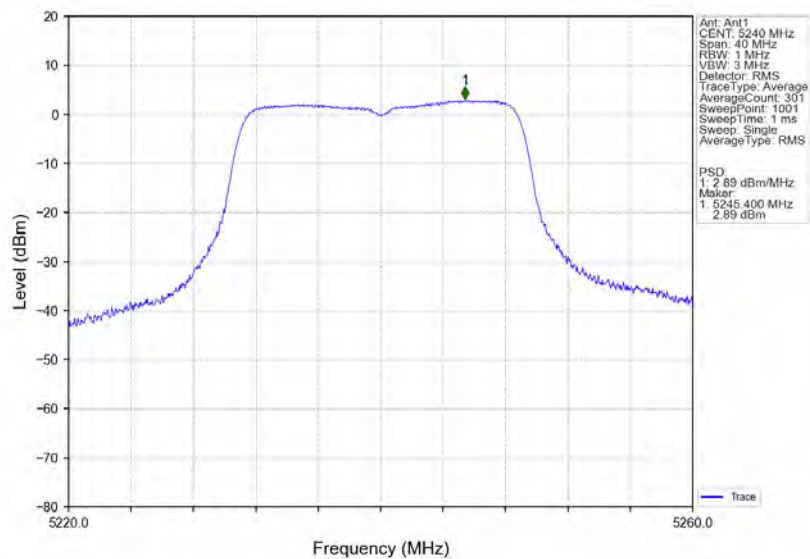
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



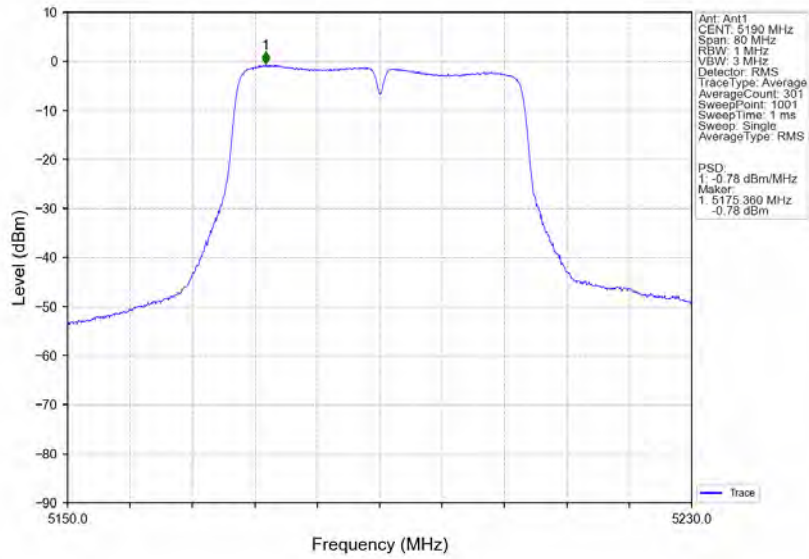
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



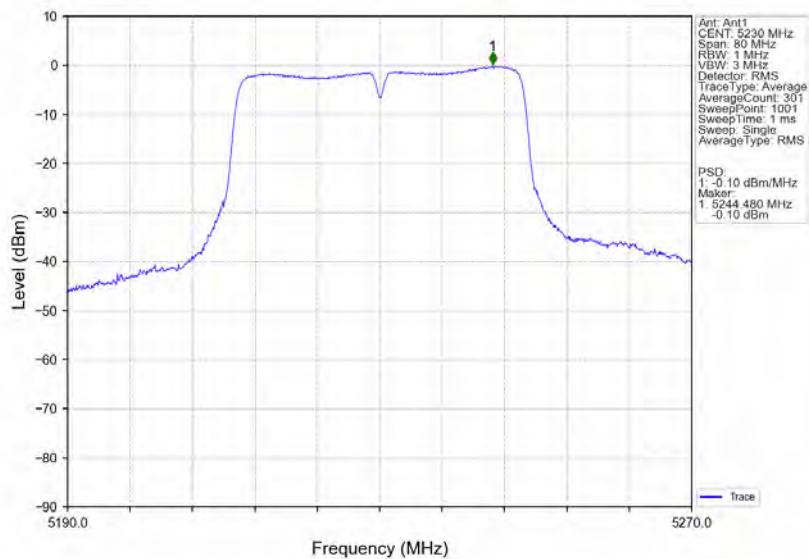
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



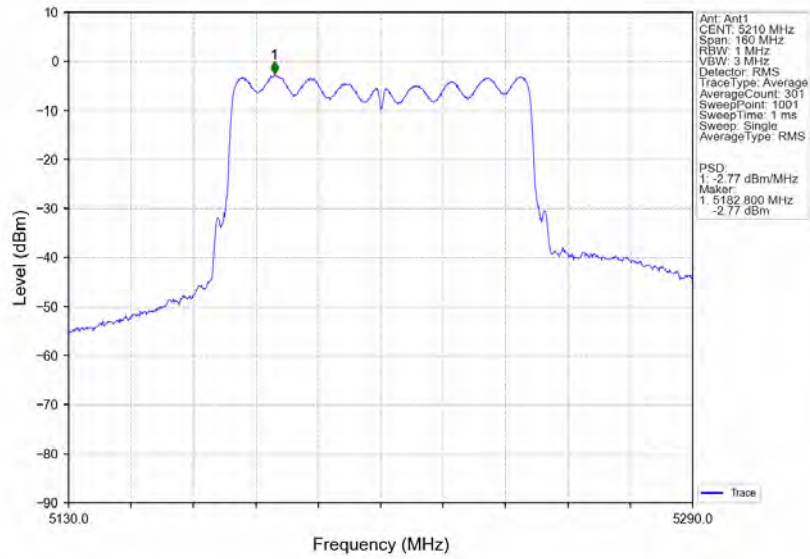
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	65	5179.940	5150 to 5250	Pass
				72	5179.980	5150 to 5250	Pass
				79	5179.980	5150 to 5250	Pass
			-30	72	5180.000	5150 to 5250	Pass
			-20	72	5179.960	5150 to 5250	Pass
			-10	72	5179.960	5150 to 5250	Pass
			0	72	5179.980	5150 to 5250	Pass
			10	72	5179.980	5150 to 5250	Pass
			30	72	5179.960	5150 to 5250	Pass
			40	72	5179.960	5150 to 5250	Pass
			50	72	5180.000	5150 to 5250	Pass
		5200	20	65	5199.940	5150 to 5250	Pass
				72	5199.980	5150 to 5250	Pass
				79	5199.980	5150 to 5250	Pass
			-30	72	5199.940	5150 to 5250	Pass
			-20	72	5199.920	5150 to 5250	Pass
			-10	72	5199.960	5150 to 5250	Pass
			0	72	5199.980	5150 to 5250	Pass
			10	72	5199.940	5150 to 5250	Pass
			30	72	5199.980	5150 to 5250	Pass
			40	72	5199.940	5150 to 5250	Pass
			50	72	5199.900	5150 to 5250	Pass
		5240	20	65	5240.000	5150 to 5250	Pass
				72	5240.020	5150 to 5250	Pass
				79	5240.000	5150 to 5250	Pass
			-30	72	5239.980	5150 to 5250	Pass
			-20	72	5240.020	5150 to 5250	Pass
			-10	72	5240.000	5150 to 5250	Pass
			0	72	5239.980	5150 to 5250	Pass
			10	72	5240.020	5150 to 5250	Pass
			30	72	5240.020	5150 to 5250	Pass
			40	72	5240.000	5150 to 5250	Pass
			50	72	5240.000	5150 to 5250	Pass
802.11ac (VHT20)	SISO	5180	20	65	5180.000	5150 to 5250	Pass
				72	5180.020	5150 to 5250	Pass
				79	5180.000	5150 to 5250	Pass
			-30	72	5179.980	5150 to 5250	Pass
			-20	72	5180.000	5150 to 5250	Pass
			-10	72	5180.000	5150 to 5250	Pass

			0	72	5180.040	5150 to 5250	Pass
			10	72	5180.060	5150 to 5250	Pass
			30	72	5180.020	5150 to 5250	Pass
			40	72	5180.020	5150 to 5250	Pass
			50	72	5180.000	5150 to 5250	Pass
		5200	20	65	5200.020	5150 to 5250	Pass
				72	5199.980	5150 to 5250	Pass
				79	5200.000	5150 to 5250	Pass
			-30	72	5199.960	5150 to 5250	Pass
			-20	72	5199.980	5150 to 5250	Pass
			-10	72	5200.000	5150 to 5250	Pass
			0	72	5199.960	5150 to 5250	Pass
			10	72	5199.960	5150 to 5250	Pass
			30	72	5200.000	5150 to 5250	Pass
			40	72	5200.020	5150 to 5250	Pass
			50	72	5199.980	5150 to 5250	Pass
		5240	20	65	5240.100	5150 to 5250	Pass
				72	5240.060	5150 to 5250	Pass
				79	5240.060	5150 to 5250	Pass
			-30	72	5240.100	5150 to 5250	Pass
			-20	72	5240.060	5150 to 5250	Pass
			-10	72	5240.100	5150 to 5250	Pass
			0	72	5240.040	5150 to 5250	Pass
			10	72	5240.080	5150 to 5250	Pass
			30	72	5240.020	5150 to 5250	Pass
			40	72	5240.060	5150 to 5250	Pass
			50	72	5240.040	5150 to 5250	Pass
802.11ac (VHT40)	SISO	5190	20	65	5190.040	5150 to 5250	Pass
				72	5190.040	5150 to 5250	Pass
				79	5190.000	5150 to 5250	Pass
			-30	72	5190.040	5150 to 5250	Pass
			-20	72	5190.120	5150 to 5250	Pass
			-10	72	5190.040	5150 to 5250	Pass
			0	72	5190.080	5150 to 5250	Pass
			10	72	5190.040	5150 to 5250	Pass
			30	72	5190.000	5150 to 5250	Pass
			40	72	5190.080	5150 to 5250	Pass
			50	72	5190.000	5150 to 5250	Pass
		5230	20	65	5230.160	5150 to 5250	Pass
				72	5230.120	5150 to 5250	Pass
				79	5230.160	5150 to 5250	Pass
			-30	72	5230.160	5150 to 5250	Pass
			-20	72	5230.160	5150 to 5250	Pass
			-10	72	5230.200	5150 to 5250	Pass
			0	72	5230.120	5150 to 5250	Pass
			10	72	5230.160	5150 to 5250	Pass
			30	72	5230.200	5150 to 5250	Pass
			40	72	5230.160	5150 to 5250	Pass
			50	72	5230.120	5150 to 5250	Pass
802.11ac	SISO	5210	20	65	5210.150	5150 to 5250	Pass



(VHT80)				72	5210.000	5150 to 5250	Pass
				79	5210.075	5150 to 5250	Pass
			-30	72	5210.150	5150 to 5250	Pass
			-20	72	5210.000	5150 to 5250	Pass
			-10	72	5210.075	5150 to 5250	Pass
			0	72	5210.075	5150 to 5250	Pass
			10	72	5210.075	5150 to 5250	Pass
			30	72	5210.075	5150 to 5250	Pass
			40	72	5210.150	5150 to 5250	Pass
			50	72	5210.000	5150 to 5250	Pass



UNII-3

1. Duty Cycle

1.1 Test Result

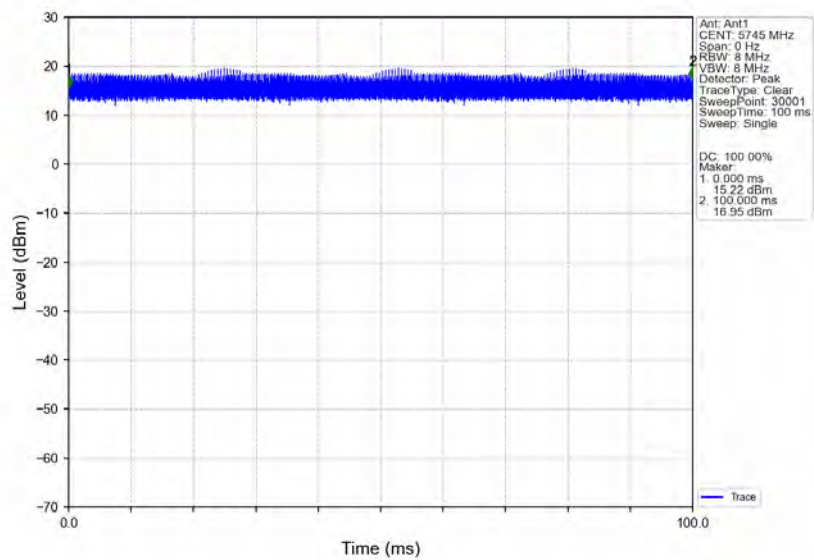
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5775	100.000	100.000	100.00	0.00	0.00

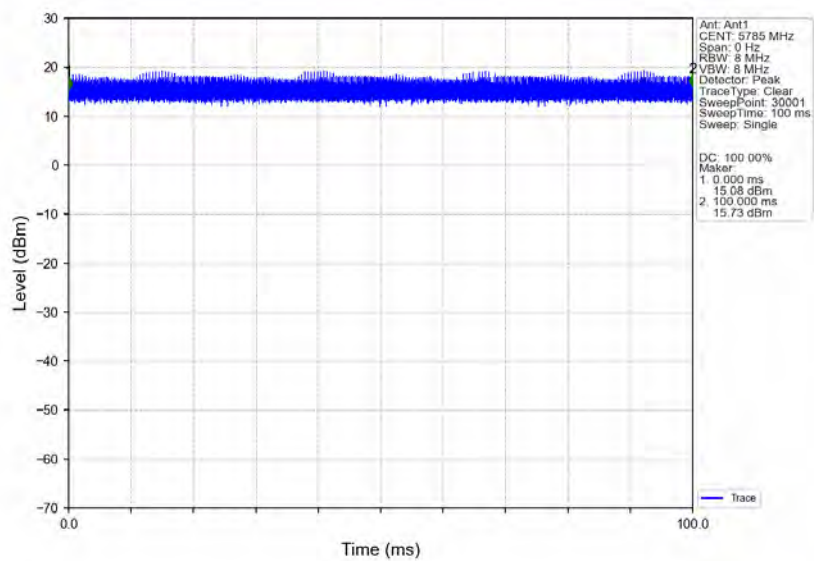
1.2 Test Graph

1.2.1 Ant1

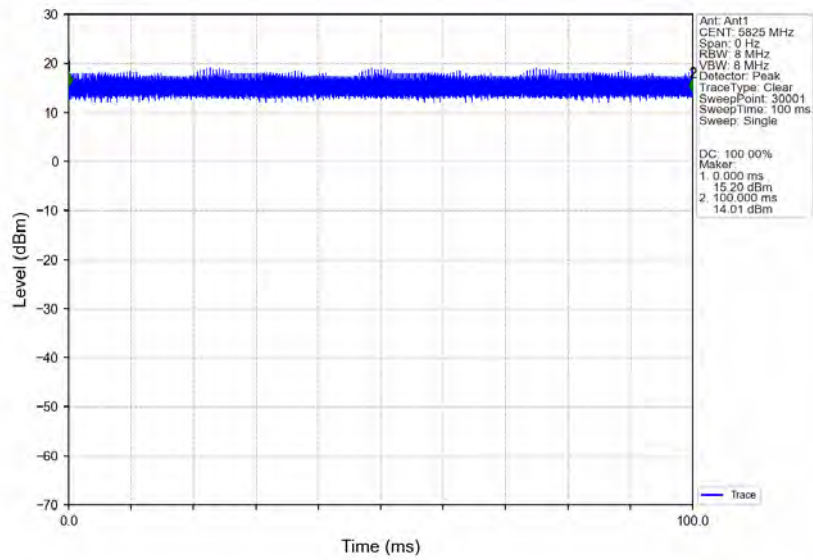
802.11a_LCH_5745MHz_Ant1_NTNV



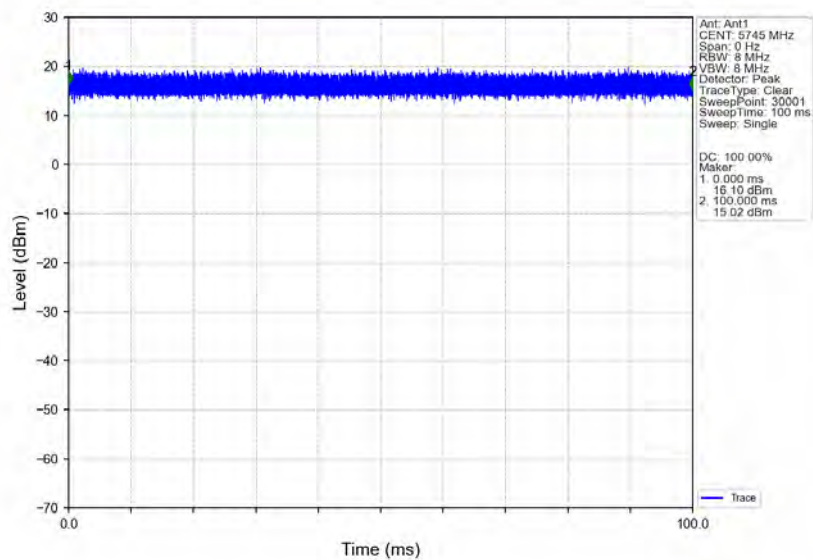
802.11a_MCH_5785MHz_Ant1_NTNV



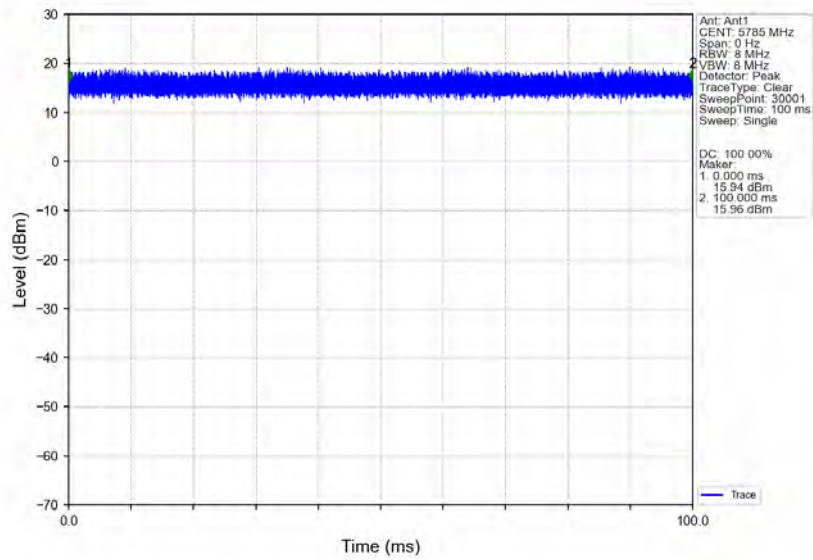
802.11a_HCH_5825MHz_Ant1_NTNV



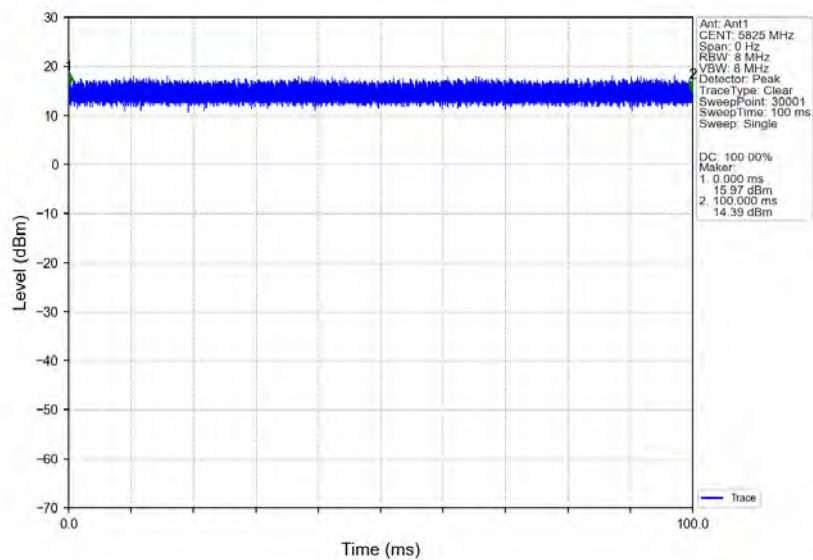
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



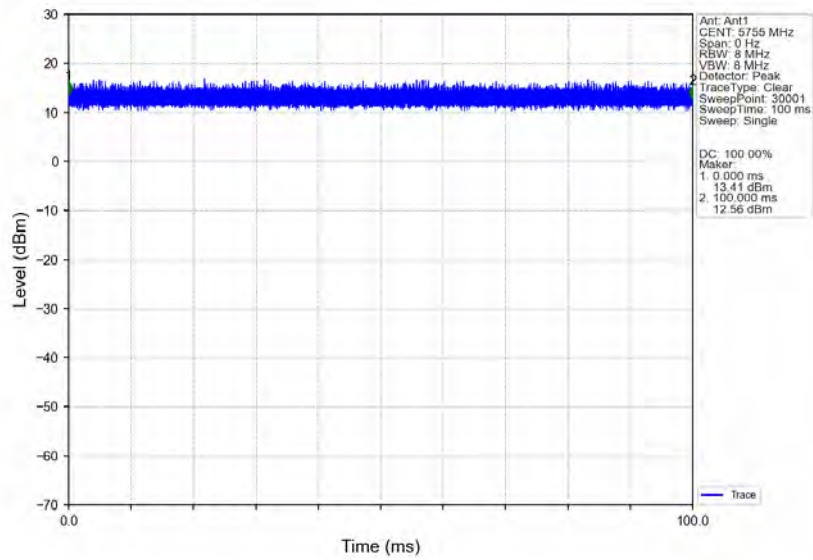
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



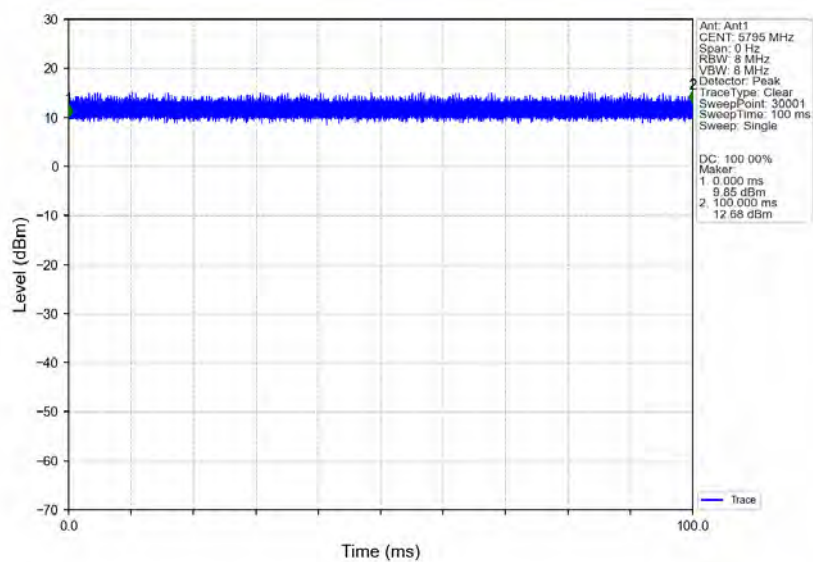
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



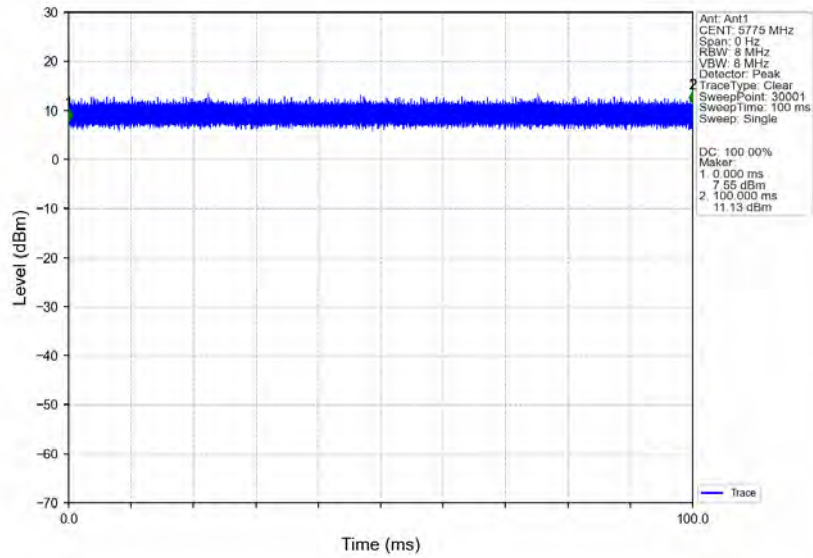
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	17.699	/	Pass
		5785	1	17.868	/	Pass
		5825	1	18.168	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.789	/	Pass
		5785	1	18.876	/	Pass
		5825	1	18.837	/	Pass
802.11ac (VHT40)	SISO	5755	1	37.157	/	Pass
		5795	1	37.509	/	Pass
802.11ac (VHT80)	SISO	5775	1	76.559	/	Pass

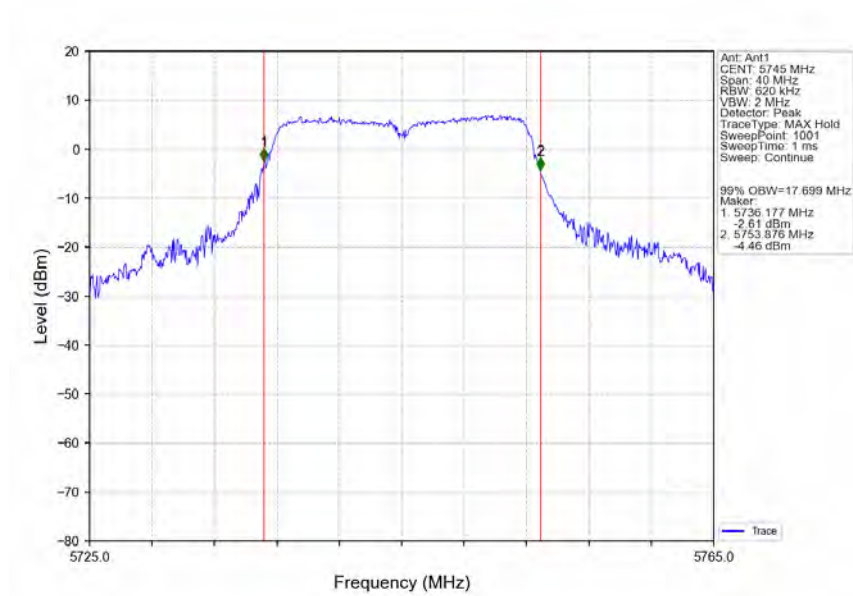
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.569	≥ 0.5	Pass
		5785	1	16.528	≥ 0.5	Pass
		5825	1	16.534	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.774	≥ 0.5	Pass
		5785	1	17.696	≥ 0.5	Pass
		5825	1	17.782	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.467	≥ 0.5	Pass
		5795	1	36.440	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.969	≥ 0.5	Pass

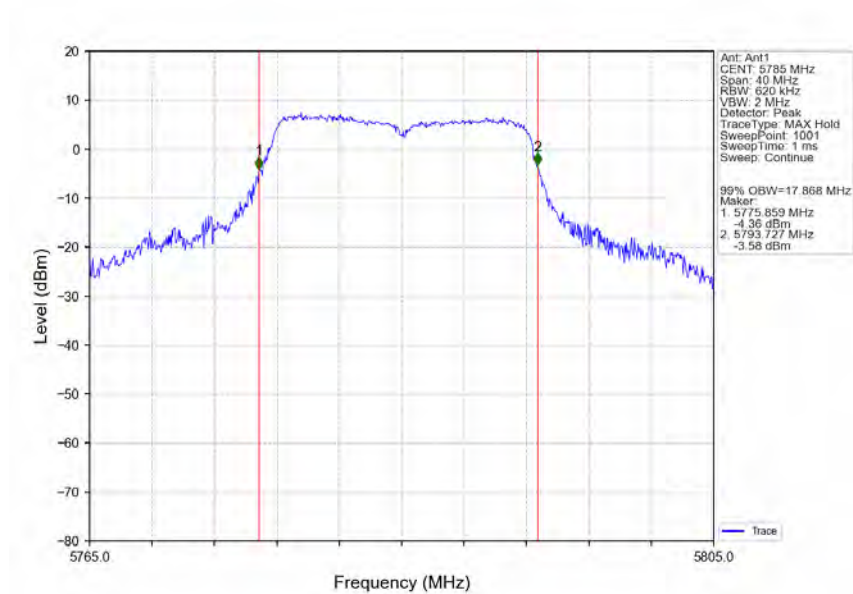
2.2 Test Graph

2.2.1 OBW

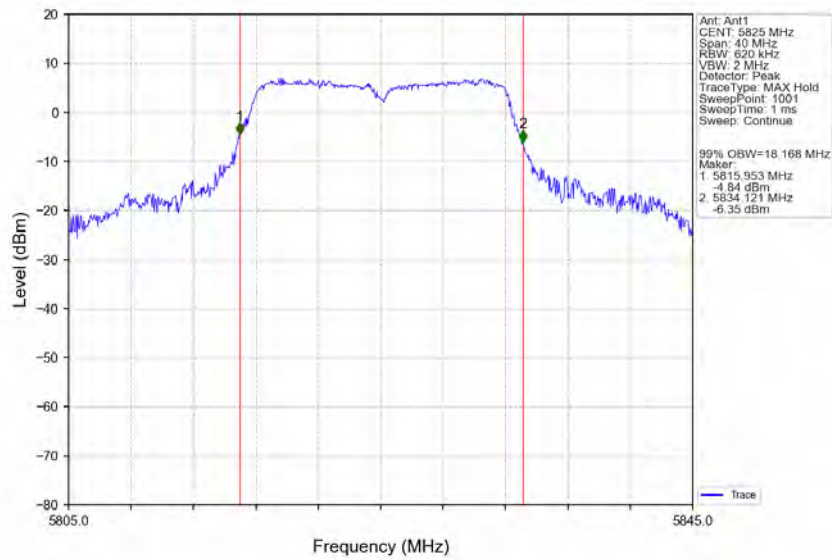
802.11a_LCH_5745MHz_Ant1_NTNV



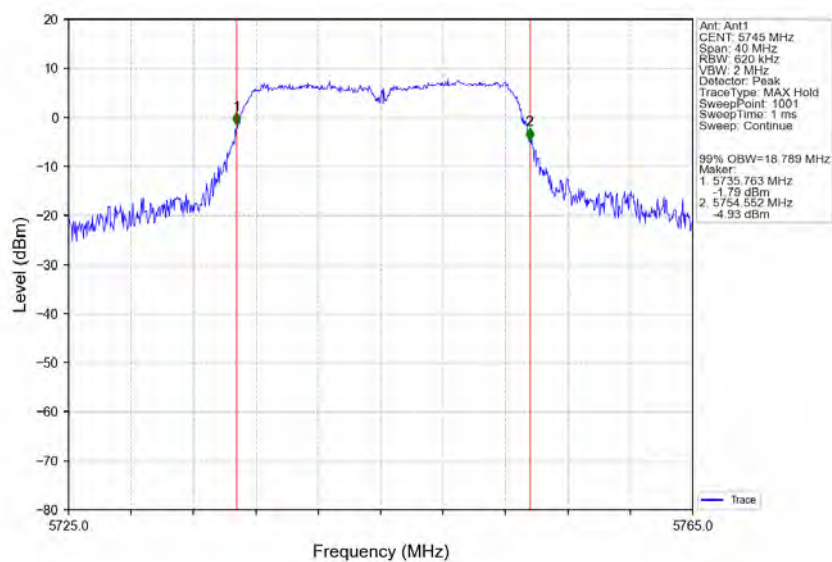
802.11a_MCH_5785MHz_Ant1_NTNV



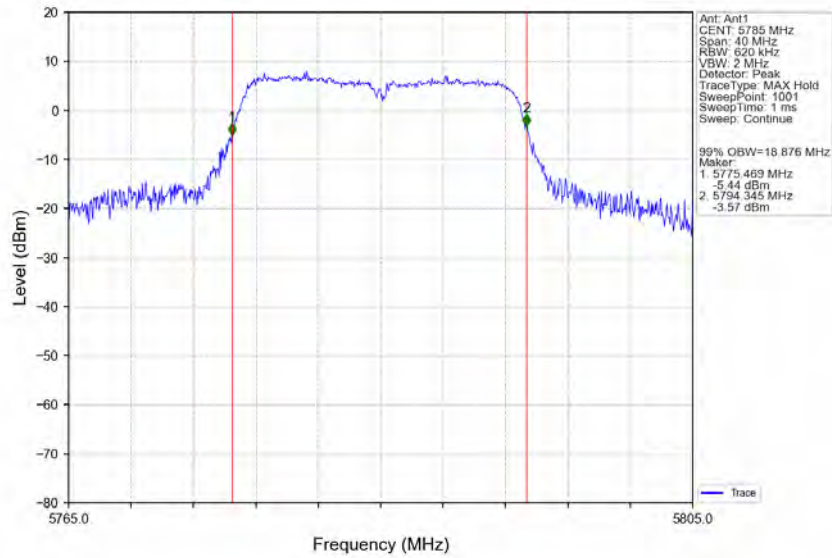
802.11a_HCH_5825MHz_Ant1_NTNV



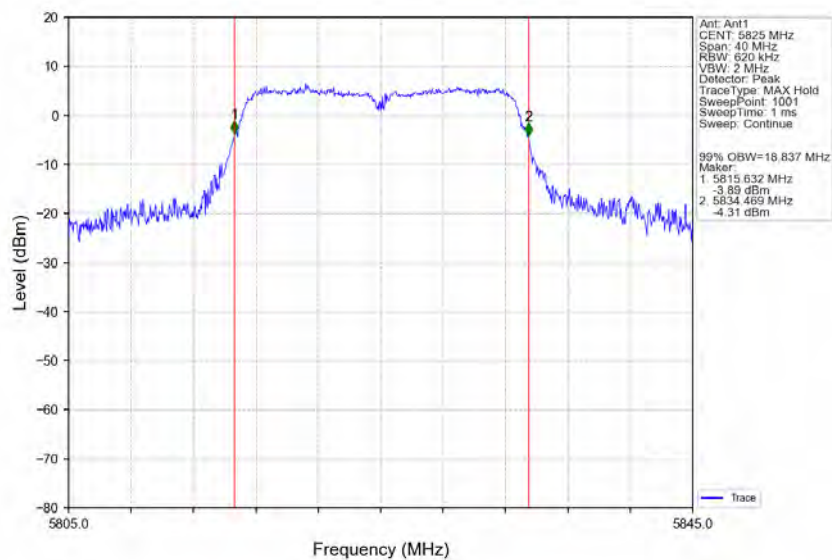
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



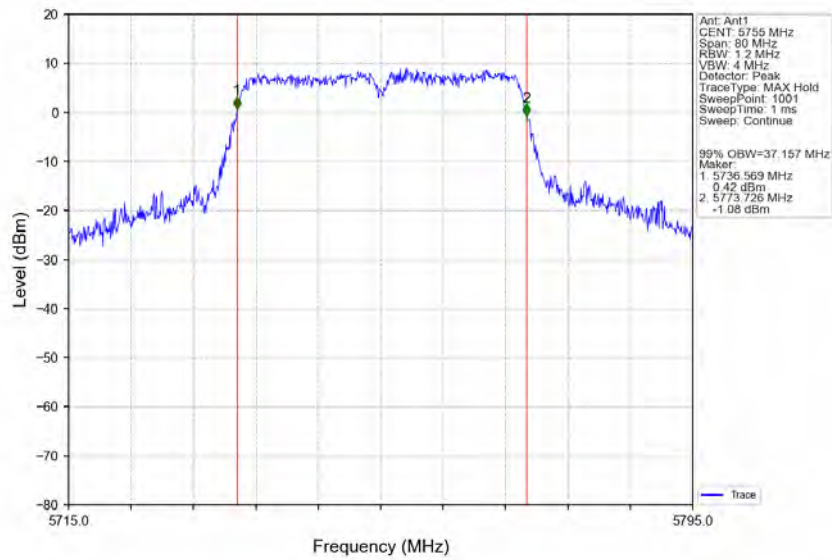
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



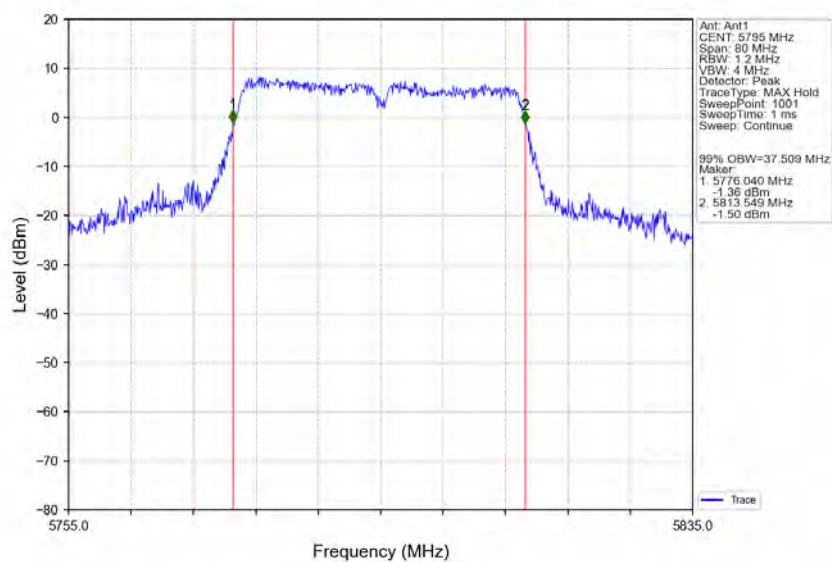
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



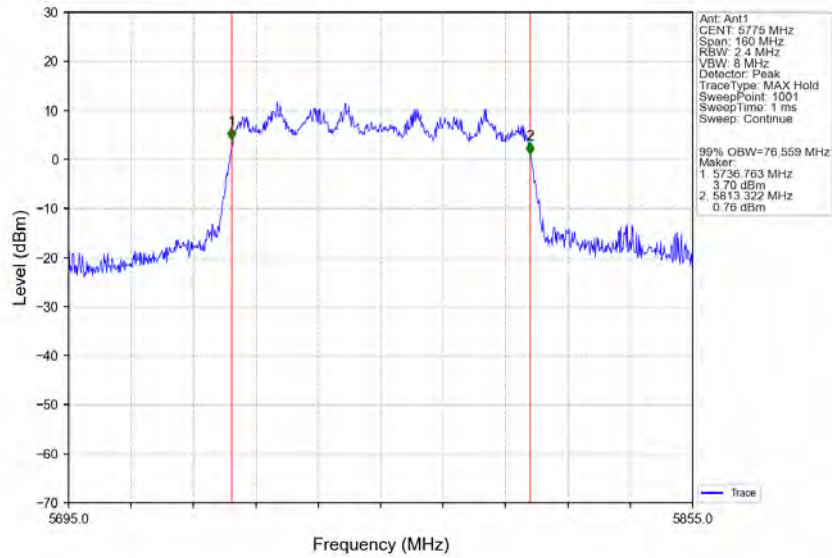
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

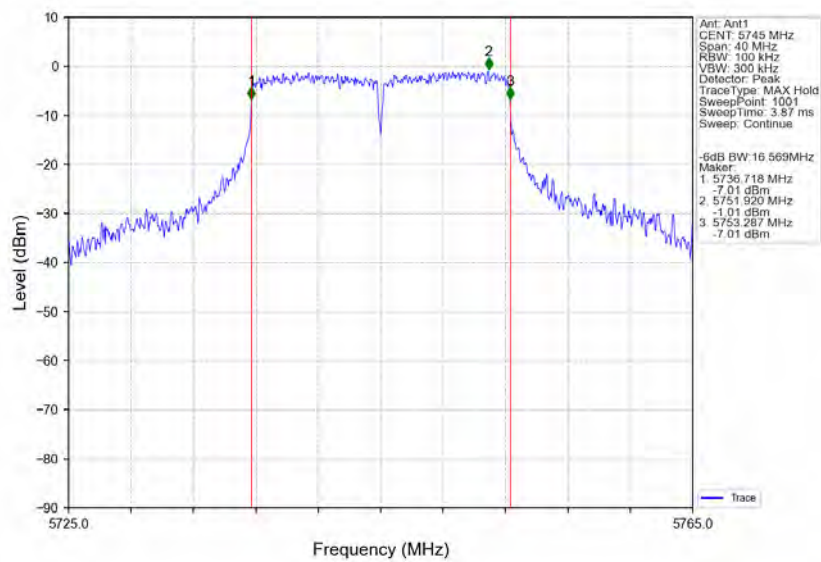


802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

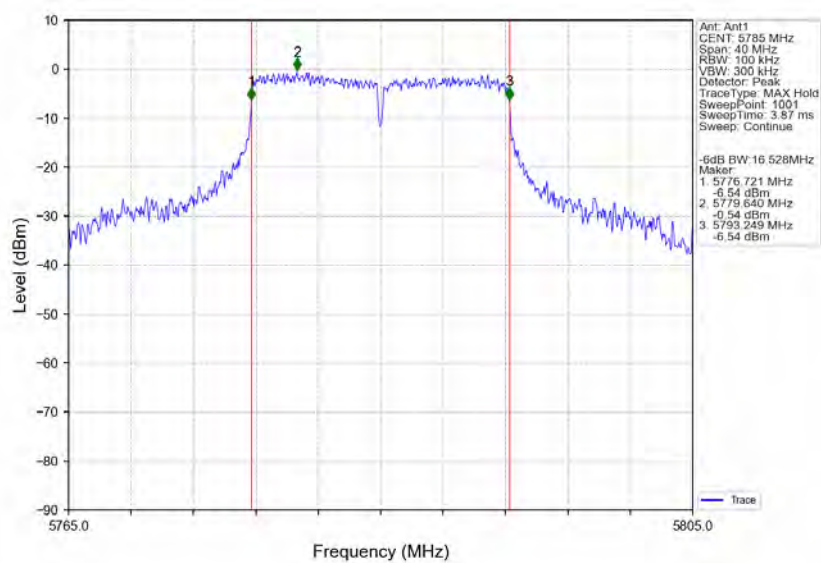


2.2.2 6dB BW

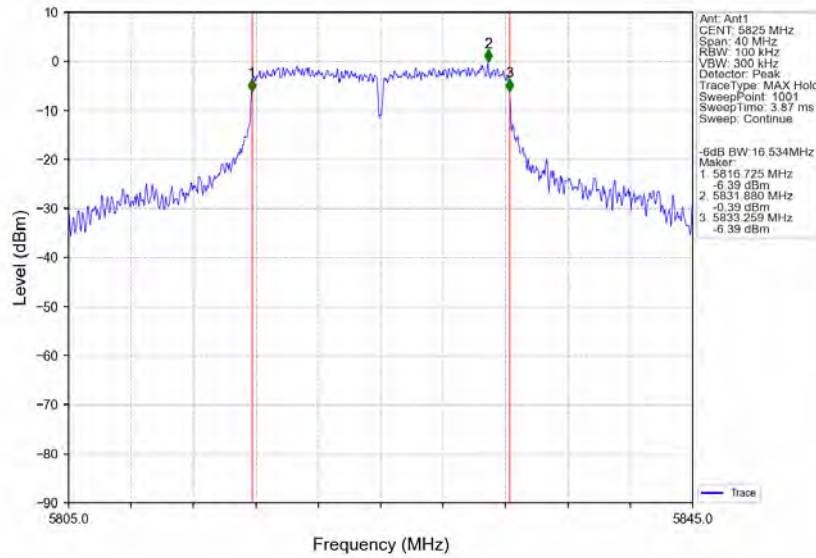
802.11a_LCH_5745MHz_Ant1_NTNV



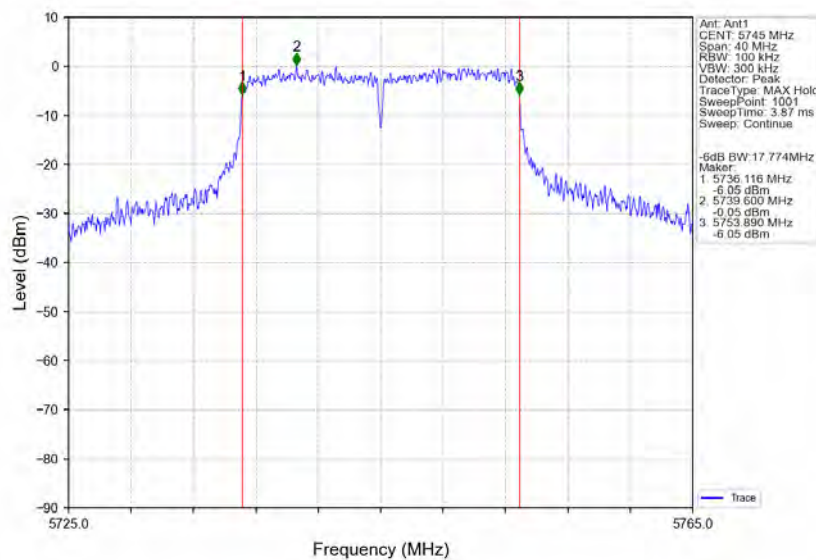
802.11a_MCH_5785MHz_Ant1_NTNV



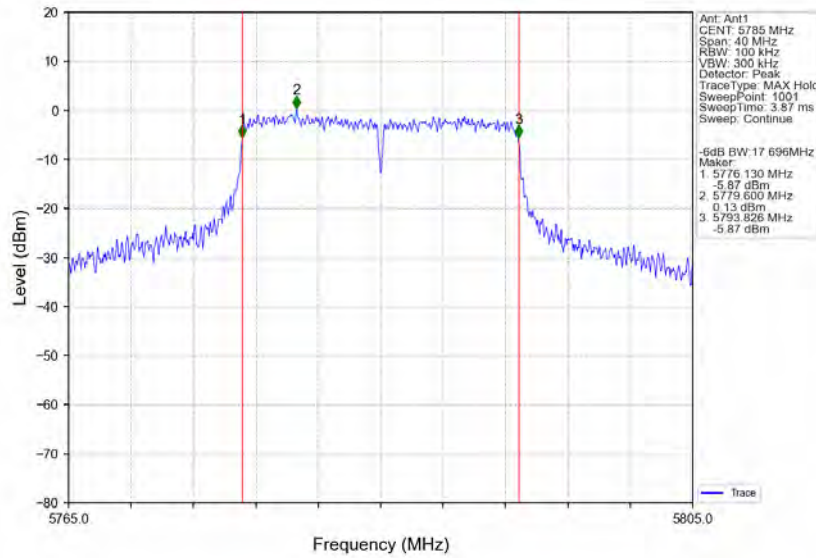
802.11a_HCH_5825MHz_Ant1_NTNV



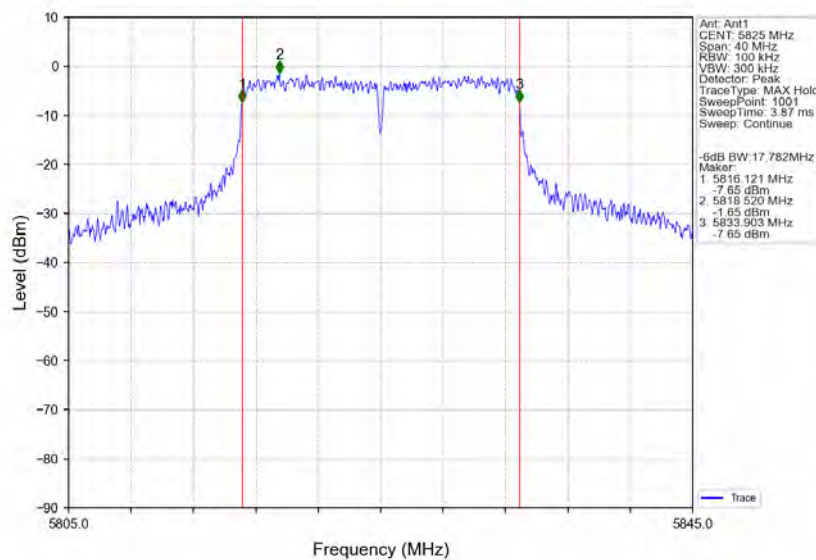
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



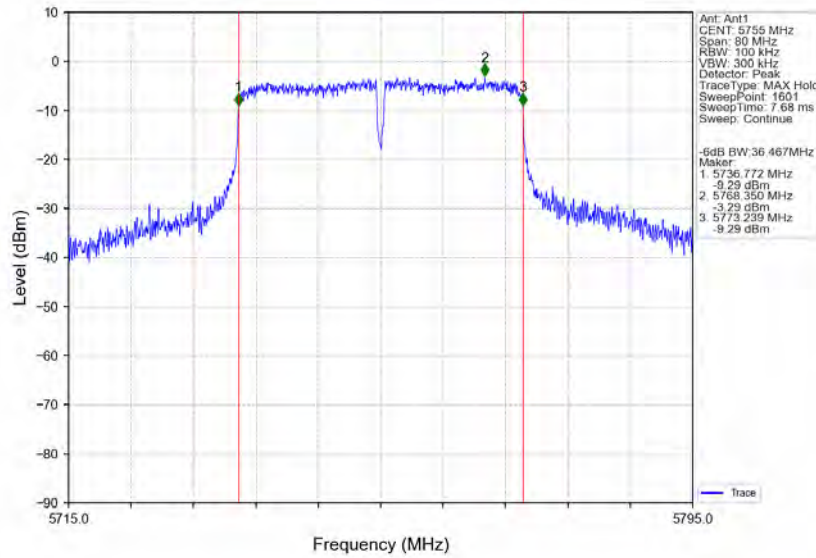
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



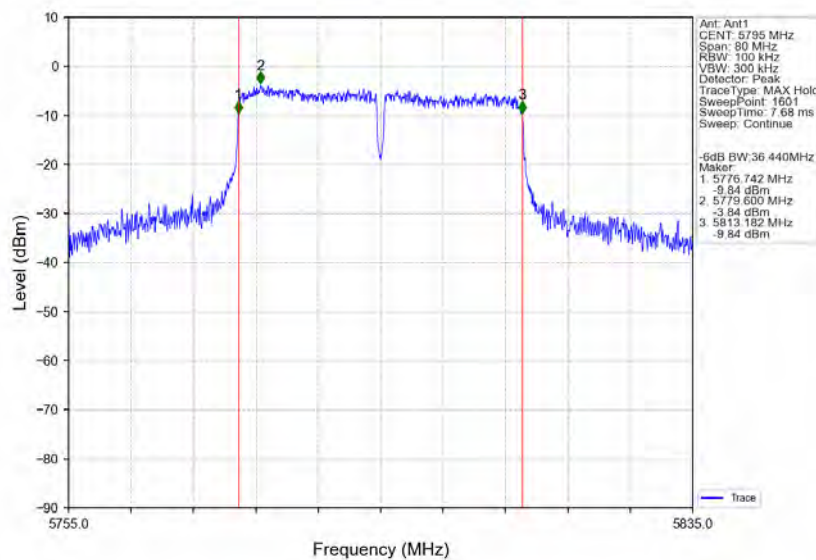
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



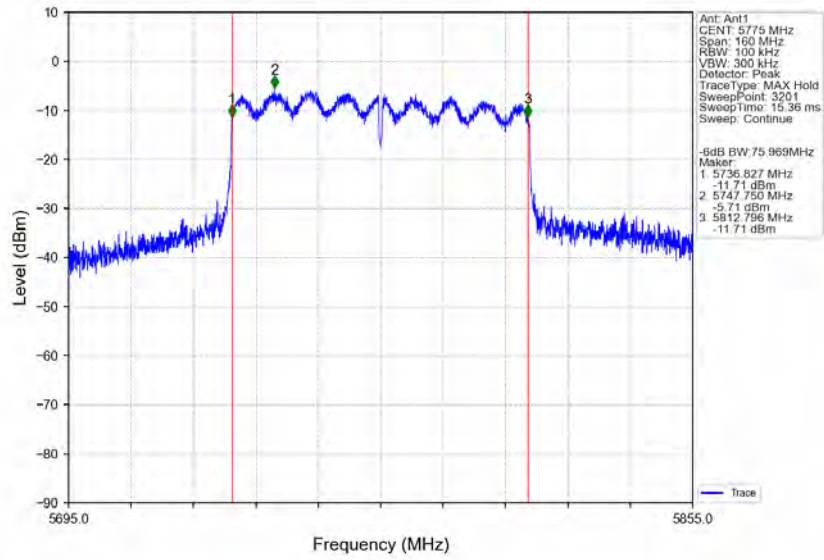
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

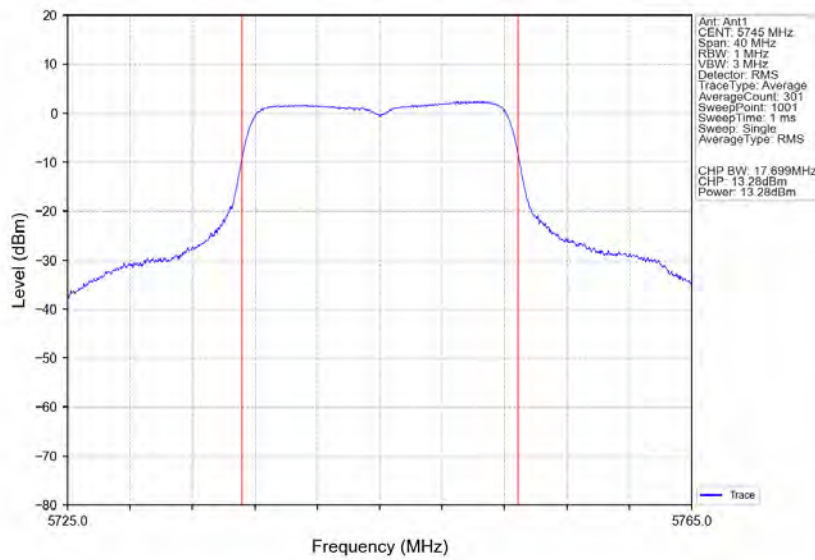
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	13.28	≤ 30	Pass
		5785	13.29	≤ 30	Pass
		5825	13.22	≤ 30	Pass
802.11ac (VHT20)	SISO	5745	13.98	≤ 30	Pass
		5785	13.59	≤ 30	Pass
		5825	12.52	≤ 30	Pass
802.11ac (VHT40)	SISO	5755	13.92	≤ 30	Pass
		5795	12.87	≤ 30	Pass
802.11ac (VHT80)	SISO	5775	12.95	≤ 30	Pass
Note1: Antenna Gain: Ant1: -2.14dBi;					

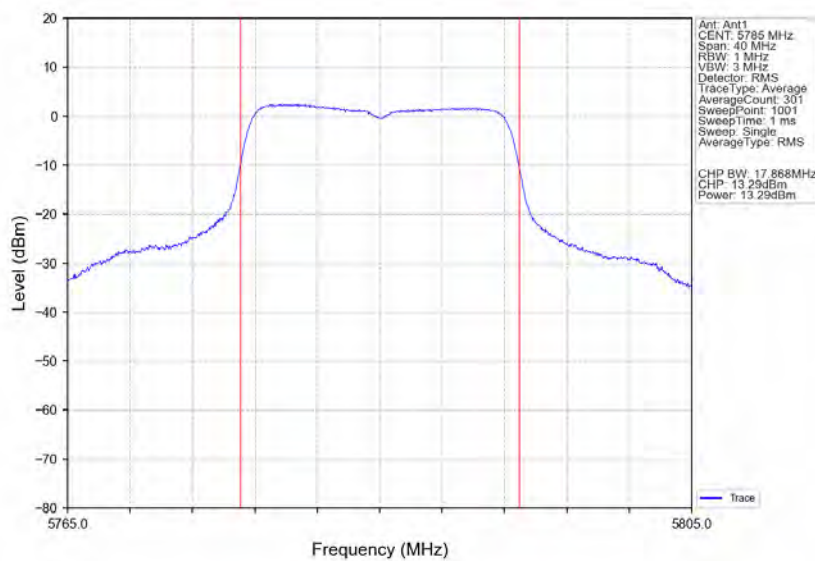
3.2 Test Graph

3.2.1 Power

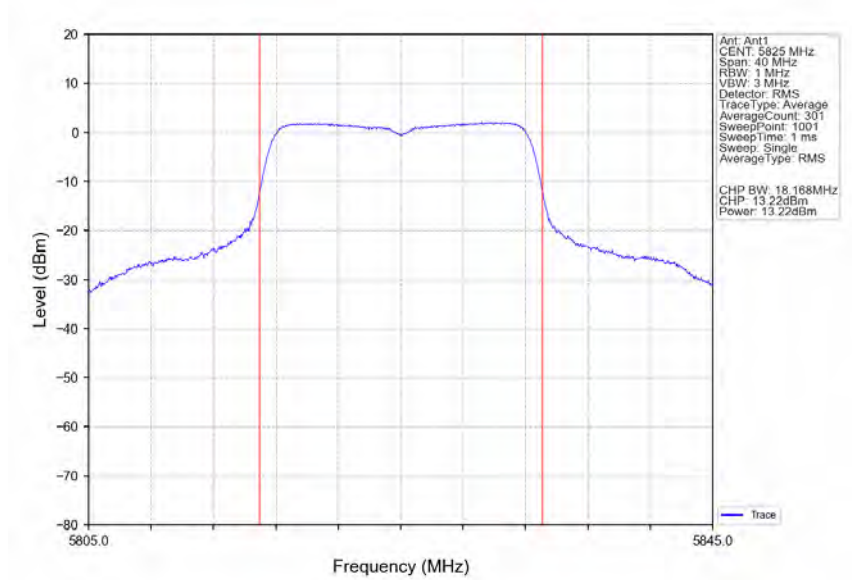
802.11a_LCH_5745MHz_Ant1_NTNV



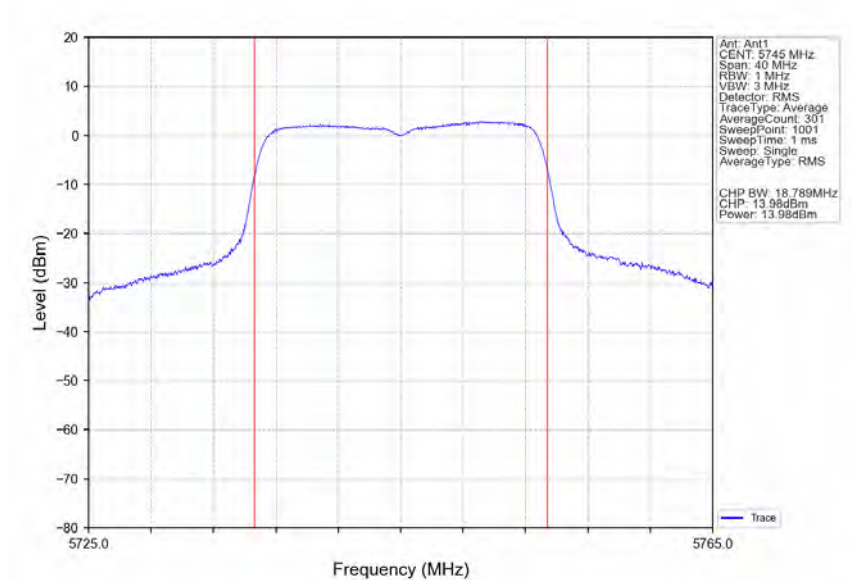
802.11a_MCH_5785MHz_Ant1_NTNV



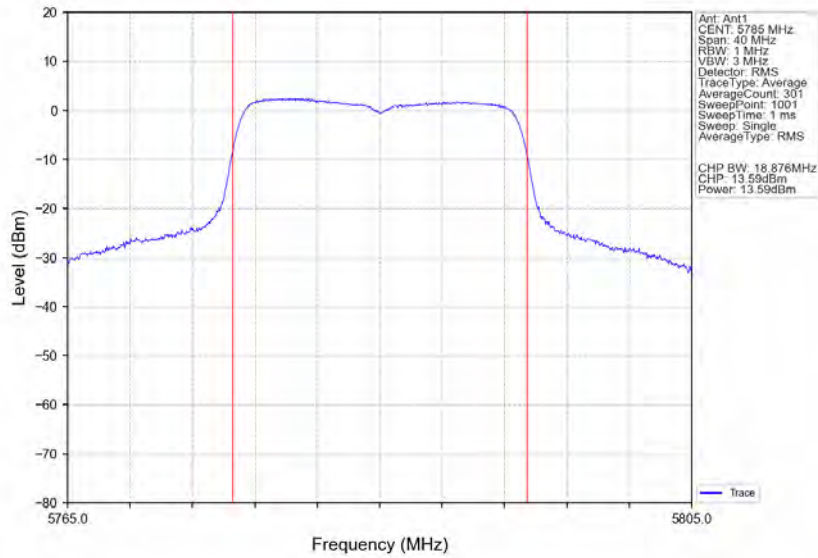
802.11a_HCH_5825MHz_Ant1_NTNV



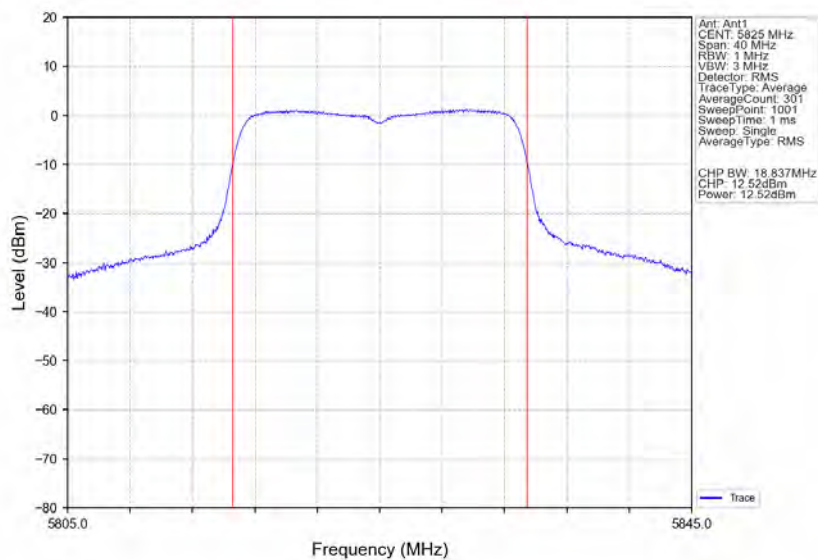
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



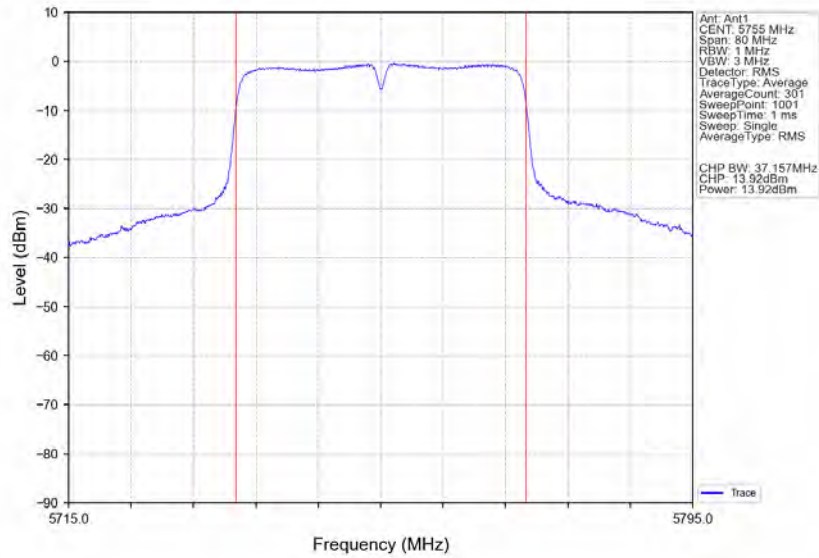
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



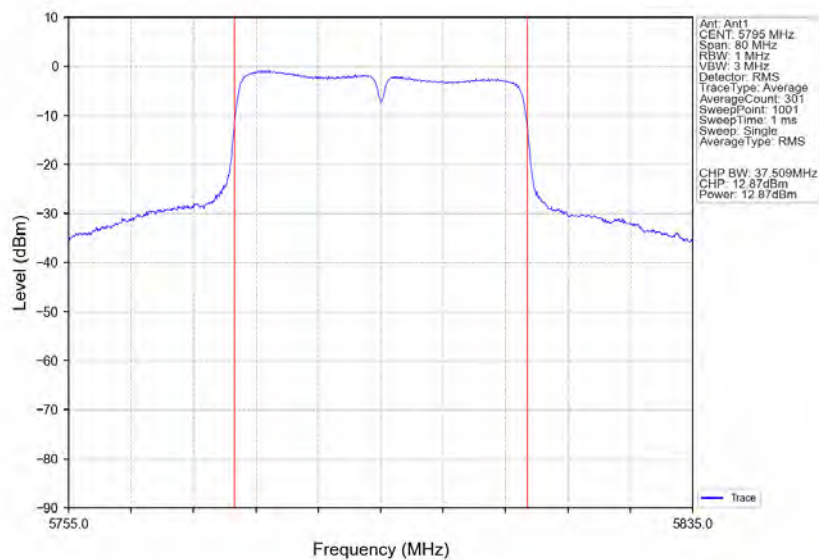
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



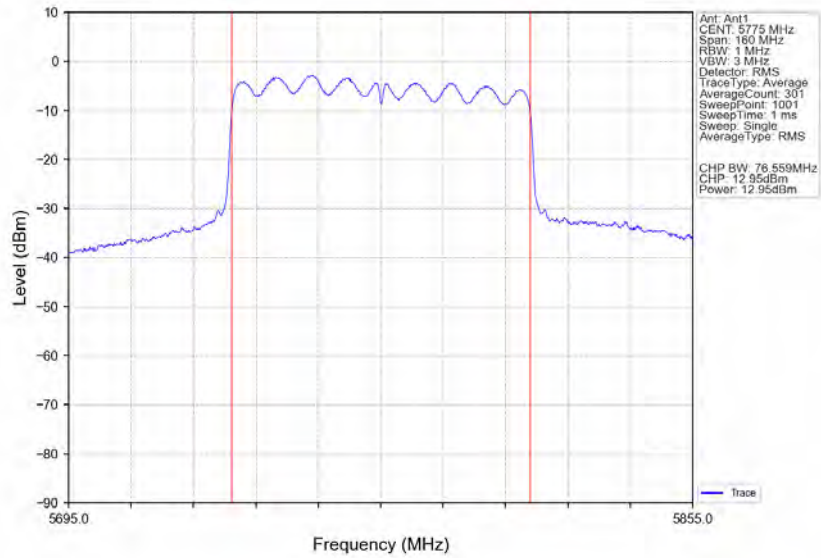
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

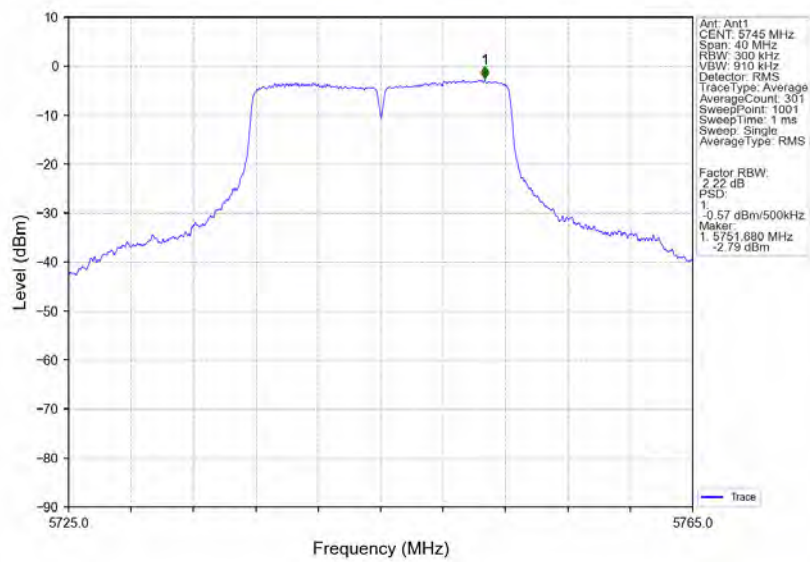
4.1.1 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-0.57	<=30	Pass
		5785	-0.49	<=30	Pass
		5825	-0.89	<=30	Pass
802.11ac (VHT20)	SISO	5745	-0.15	<=30	Pass
		5785	-0.40	<=30	Pass
		5825	-1.85	<=30	Pass
802.11ac (VHT40)	SISO	5755	-3.60	<=30	Pass
		5795	-3.89	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.80	<=30	Pass
Note1: Antenna Gain: Ant1: -2.14dBi;					

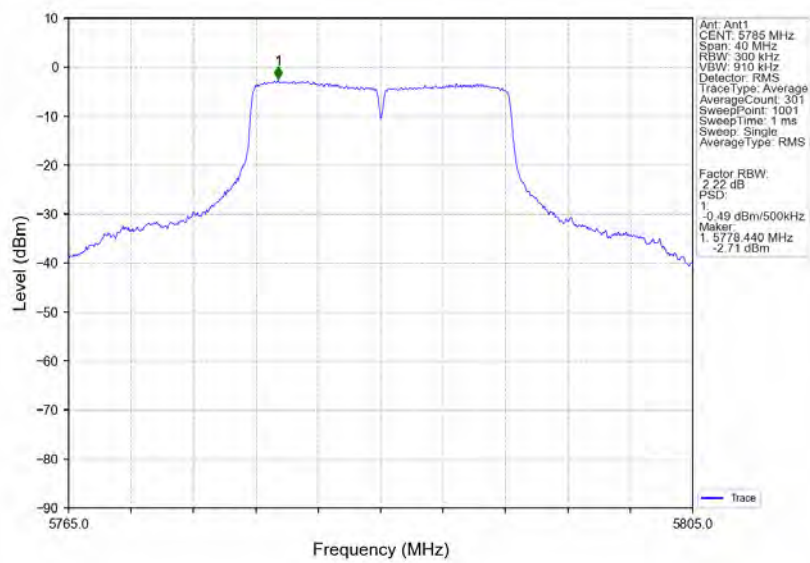
4.2 Test Graph

4.2.1 PSD-Band3

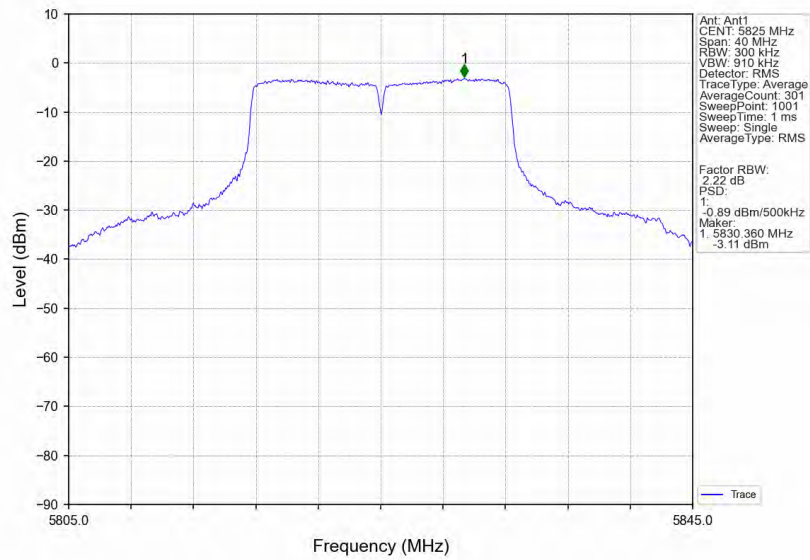
802.11a_LCH_5745MHz_Ant1_NTNV



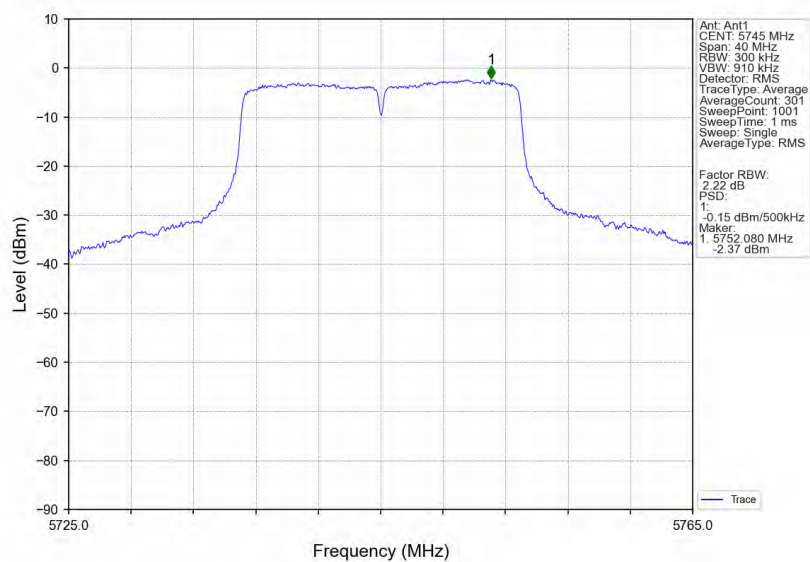
802.11a_MCH_5785MHz_Ant1_NTNV



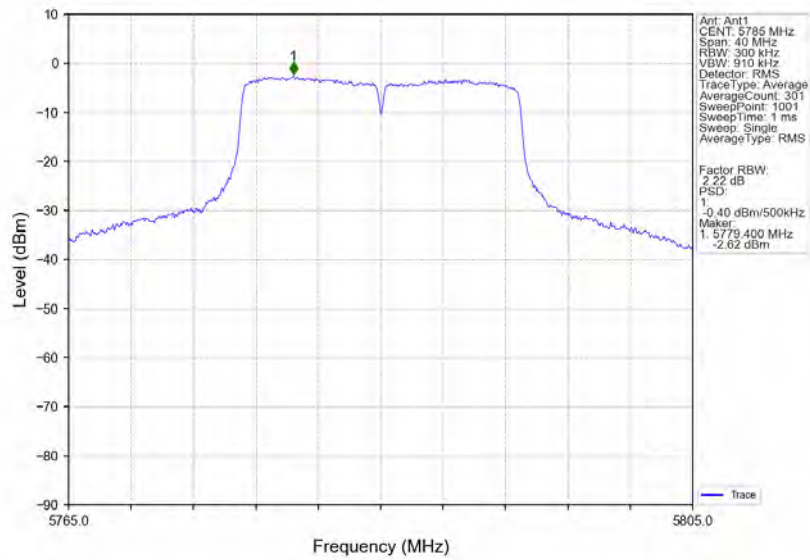
802.11a_HCH_5825MHz_Ant1_NTNV



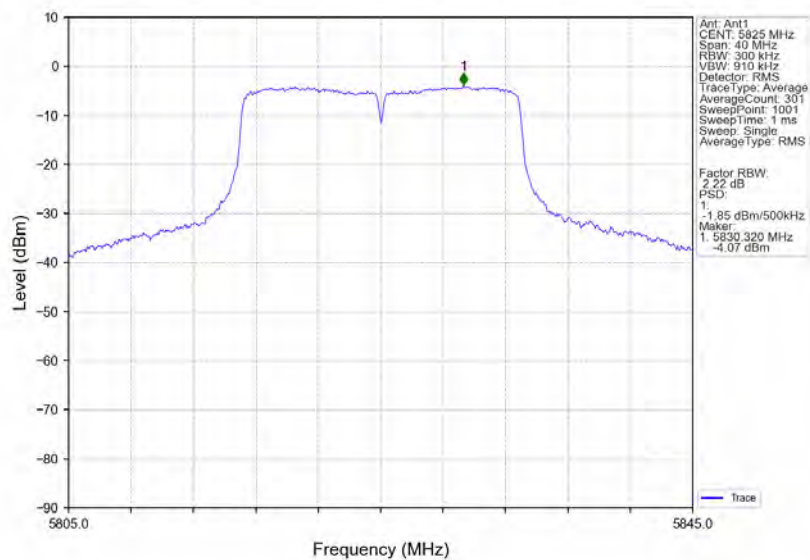
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



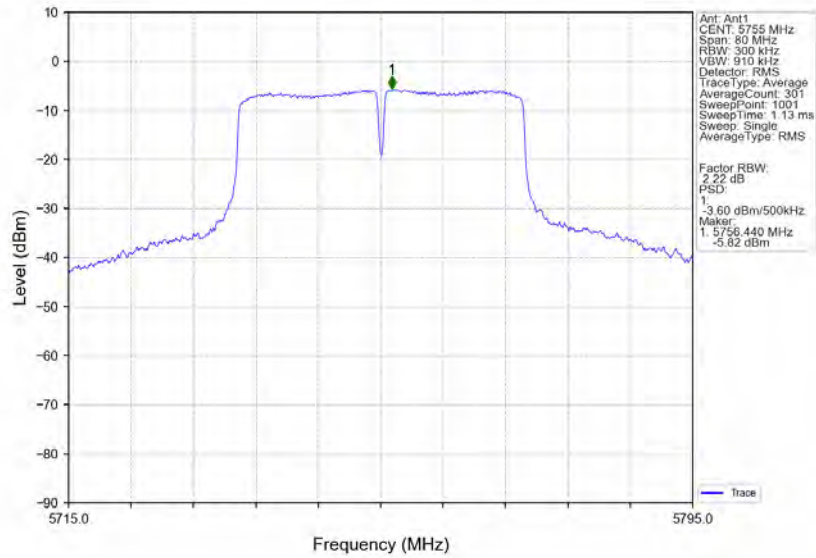
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



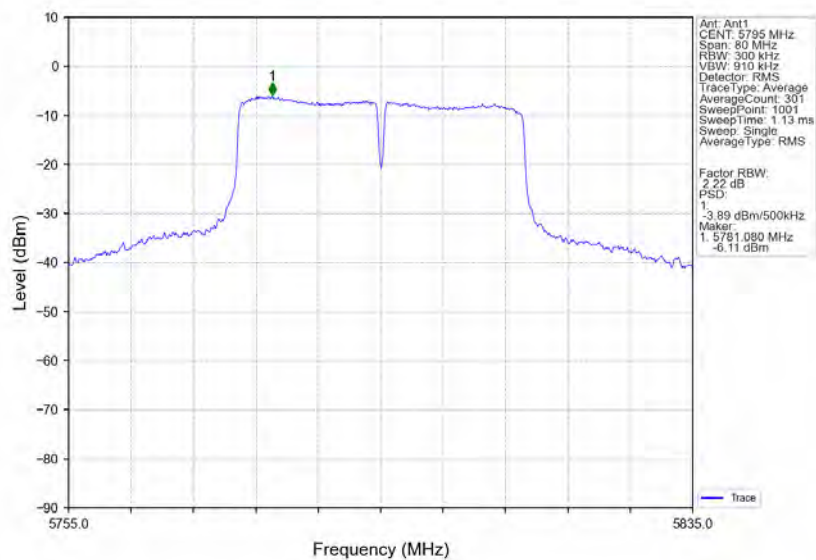
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



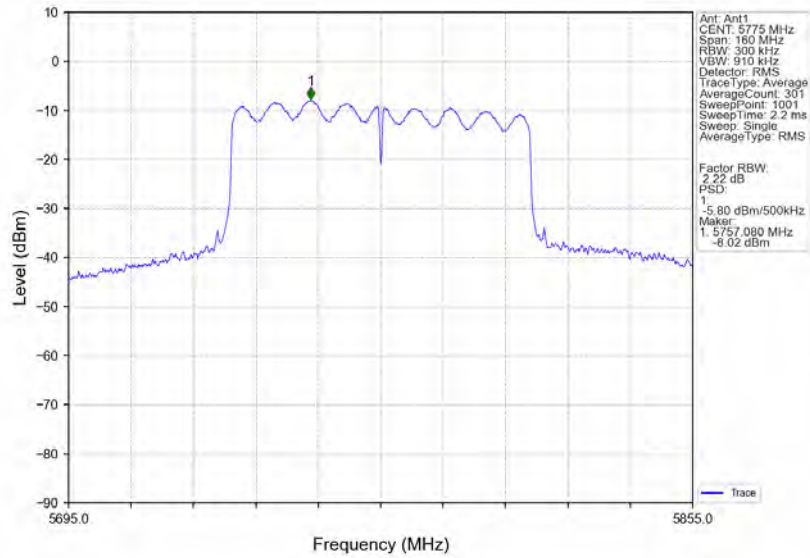
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5745	20	65	5745.000	5725 to 5850	Pass
				72	5745.020	5725 to 5850	Pass
				79	5745.000	5725 to 5850	Pass
			-30	72	5745.020	5725 to 5850	Pass
			-20	72	5745.000	5725 to 5850	Pass
			-10	72	5745.000	5725 to 5850	Pass
			0	72	5745.020	5725 to 5850	Pass
			10	72	5745.020	5725 to 5850	Pass
			30	72	5745.020	5725 to 5850	Pass
			40	72	5745.020	5725 to 5850	Pass
			50	72	5745.040	5725 to 5850	Pass
		5785	20	65	5784.940	5725 to 5850	Pass
				72	5784.940	5725 to 5850	Pass
				79	5784.960	5725 to 5850	Pass
			-30	72	5784.940	5725 to 5850	Pass
			-20	72	5785.020	5725 to 5850	Pass
			-10	72	5784.980	5725 to 5850	Pass
			0	72	5784.960	5725 to 5850	Pass
			10	72	5784.960	5725 to 5850	Pass
			30	72	5784.940	5725 to 5850	Pass
			40	72	5784.960	5725 to 5850	Pass
			50	72	5785.000	5725 to 5850	Pass
		5825	20	65	5825.040	5725 to 5850	Pass
				72	5825.040	5725 to 5850	Pass
				79	5825.040	5725 to 5850	Pass
			-30	72	5825.020	5725 to 5850	Pass
			-20	72	5825.040	5725 to 5850	Pass
			-10	72	5825.020	5725 to 5850	Pass
			0	72	5825.000	5725 to 5850	Pass
			10	72	5825.040	5725 to 5850	Pass
			30	72	5825.000	5725 to 5850	Pass
			40	72	5825.020	5725 to 5850	Pass
			50	72	5825.060	5725 to 5850	Pass

802.11ac (VHT20)	SISO	5745	20	65	5745.080	5725 to 5850	Pass
				72	5745.040	5725 to 5850	Pass
				79	5745.060	5725 to 5850	Pass
			-30	72	5745.060	5725 to 5850	Pass
			-20	72	5745.060	5725 to 5850	Pass
			-10	72	5745.080	5725 to 5850	Pass
			0	72	5745.040	5725 to 5850	Pass
			10	72	5745.040	5725 to 5850	Pass
			30	72	5745.060	5725 to 5850	Pass
			40	72	5745.060	5725 to 5850	Pass
			50	72	5745.060	5725 to 5850	Pass
		5785	20	65	5784.980	5725 to 5850	Pass
				72	5784.980	5725 to 5850	Pass
				79	5784.980	5725 to 5850	Pass
			-30	72	5785.020	5725 to 5850	Pass
			-20	72	5784.960	5725 to 5850	Pass
			-10	72	5784.980	5725 to 5850	Pass
			0	72	5784.980	5725 to 5850	Pass
			10	72	5784.980	5725 to 5850	Pass
			30	72	5784.960	5725 to 5850	Pass
			40	72	5784.940	5725 to 5850	Pass
			50	72	5784.980	5725 to 5850	Pass
		5825	20	65	5825.040	5725 to 5850	Pass
				72	5824.980	5725 to 5850	Pass
				79	5825.040	5725 to 5850	Pass
			-30	72	5825.000	5725 to 5850	Pass
			-20	72	5825.020	5725 to 5850	Pass
			-10	72	5825.060	5725 to 5850	Pass
			0	72	5825.000	5725 to 5850	Pass
			10	72	5825.020	5725 to 5850	Pass
			30	72	5825.020	5725 to 5850	Pass
			40	72	5825.020	5725 to 5850	Pass
			50	72	5825.020	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5755	20	65	5755.120	5725 to 5850	Pass
				72	5755.080	5725 to 5850	Pass
				79	5755.080	5725 to 5850	Pass
			-30	72	5755.040	5725 to 5850	Pass
			-20	72	5755.160	5725 to 5850	Pass
			-10	72	5755.120	5725 to 5850	Pass
			0	72	5755.040	5725 to 5850	Pass
			10	72	5755.160	5725 to 5850	Pass
			30	72	5755.160	5725 to 5850	Pass
			40	72	5755.160	5725 to 5850	Pass

		5795	50	72	5755.160	5725 to 5850	Pass
			20	65	5795.040	5725 to 5850	Pass
				72	5795.040	5725 to 5850	Pass
				79	5795.040	5725 to 5850	Pass
			-30	72	5794.960	5725 to 5850	Pass
			-20	72	5794.960	5725 to 5850	Pass
			-10	72	5795.040	5725 to 5850	Pass
			0	72	5795.000	5725 to 5850	Pass
			10	72	5795.000	5725 to 5850	Pass
			30	72	5795.000	5725 to 5850	Pass
			40	72	5795.040	5725 to 5850	Pass
			50	72	5795.000	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5775	20	65	5775.075	5725 to 5850	Pass
				72	5775.075	5725 to 5850	Pass
				79	5775.075	5725 to 5850	Pass
			-30	72	5775.075	5725 to 5850	Pass
			-20	72	5775.075	5725 to 5850	Pass
			-10	72	5775.000	5725 to 5850	Pass
			0	72	5775.075	5725 to 5850	Pass
			10	72	5775.000	5725 to 5850	Pass
			30	72	5775.075	5725 to 5850	Pass
			40	72	5775.000	5725 to 5850	Pass
			50	72	5775.000	5725 to 5850	Pass

- End of the Report -