

TEST REPORT

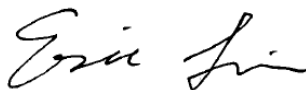
Application No.: KSCR2211002146AT
FCC ID: 2APJ4-SLM758
Applicant: MeiG Smart Technology Co.,Ltd
Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer: MeiG Smart Technology Co.,Ltd
Address of Manufacturer: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong Street, Bao'an District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: SLM758
Model No.: SLM758
Trade Mark: MEIGLink
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2022-11-04
Date of Test: 2022-11-07 to 2022-11-11
Date of Issue: 2022-11-15

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Revision Record			
Version	Description	Date	Remark
00	C2PC	2022-11-15	Based on FR970101D&FR970101E Added 802.11AC

Authorized for issue by:			
		<i>Damon Zhou</i>	
		Damon Zhou/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin /Reviewer	



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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
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 3.8V
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz U-NII-2A: 5260-5320MHz U-NII-2C: 5500-5700MHz U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz U-NII-2A: 5270-5310MHz U-NII-2C: 5510-5670MHz U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz U-NII-2A: 5290MHz U-NII-2C: 5530-5610MHz U-NII-3: 5775MHz
Modulation Type:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11ac(VHT20): 20MHz 802.11ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz
DFS Function:	Slave without Radar detection
Antenna Type:	Dipole Antenna
Antenna Gain:	1dBi (Provided by the manufacturer)
Serial Number:	758AD16CYB120900978
Firmware version:	SLM758WQ_EQ000_2774.44D1F88.A55F9B6_210114_100_V01_T12
IMEI:	868727049053779



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4.2 Power level setting using in test

Channel	802.11ac(VHT20)	Channel	802.11ac(VHT40)	Channel	802.11ac(VHT80)
	Ant 1		Ant 1		Ant 1
36	18	38	15.5	42	15.5
40	18	46	15.5	58	16
48	18	54	16.5	106	12
52	19	62	16.5	122	15
60	18	102	11.5	155	15
64	17	110	13		
100	16.5	134	16.5		
120	17.5	151	16		
140	18.5	159	15.5		
149	17.5				
157	18				
165	17.5				

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power Supply	Laboratory	N/A	E903131
Laptop	Lenovo	/	/



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 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.



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Report No.: KSCR221100214601

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4.5 Test Location

All tests were performed at:

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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).

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



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5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	KS301101	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	KS301197	01/22/2022	01/21/2023
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/22/2022	01/21/2023
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	CZ301102	11/14/2021	11/13/2022
6	Test Software	Farad	EZ-EMC	/	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	08/22/2022	08/21/2023
2	Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	08/22/2022	08/21/2023
3	Spectrum Analyzer	Keysight	N9030B	KSEM021-1	01/22/2022	01/21/2023
4	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
5	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
6	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
7	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	04/01/2022	03/31/2023
8	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
9	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
10	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
11	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
12	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	01/16/2022	01/15/2023
13	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	04/01/2021	03/31/2023
14	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	04/14/2022	04/13/2023
15	Software	BST	TST-PASS	/	N/A	N/A
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	KUS1806E003	08/22/2022	08/21/2023
2	Universal Radio Communication Tester	R&S	CMW500	KSEM009-1	04/01/2022	03/31/2023
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	04/13/2021	04/12/2023
5	Bilog Antenna	TESEQ	CBL 6112D	KUS1806E005	06/29/2021	06/28/2023
6	Bilog Antenna	SCHWARZBECK	VULB9160	CZ301016	04/13/2021	04/12/2024
7	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	KS301079	04/02/2022	04/01/2024
8	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	KS301186	02/22/2021	02/21/2023
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	03/17/2022	03/16/2023
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/22/2022	01/21/2023
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/22/2022	01/21/2023
12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/13/2022	11/12/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	01/04/2022	31/03/2023
14	Software	Faratronic	EZ_EMC-v 3A1	/	N/A	N/A



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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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the Antenna is 1dBi.

Antenna location: Refer to internal photo.



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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

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.



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7 Radio Spectrum Matter Test Results

7.1 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

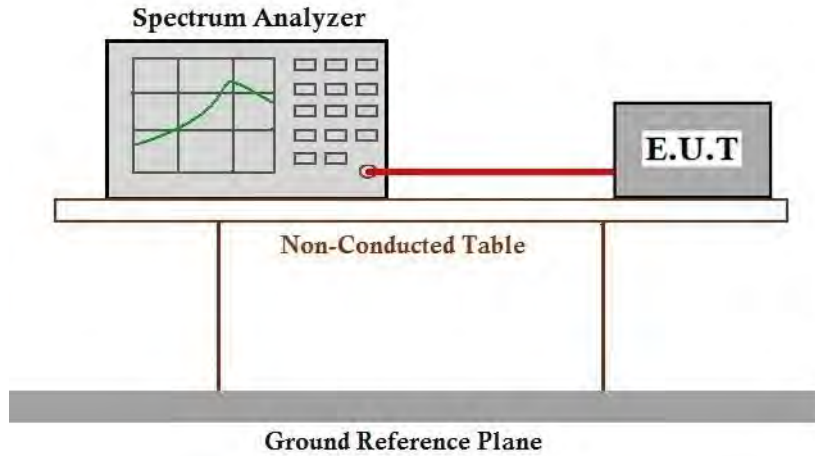
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.2 99% Bandwidth

Test Requirement N/A
 Test Method: KDB 789033 II D

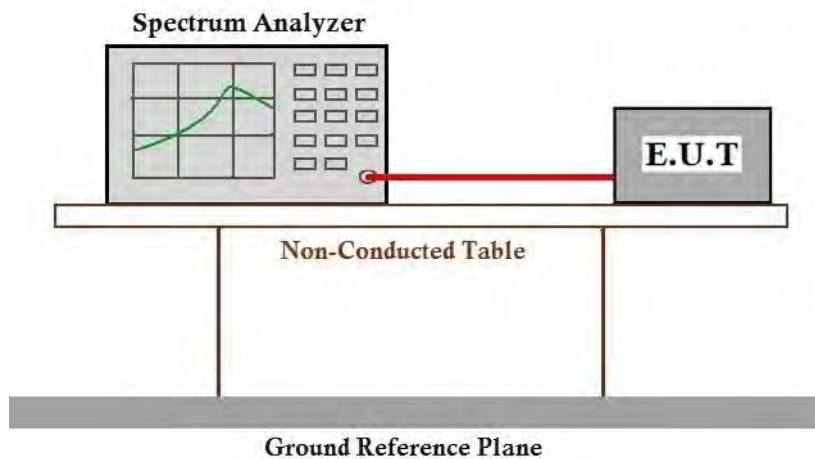
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.2 °C Humidity: 43.9 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.3.1 E.U.T. Operation

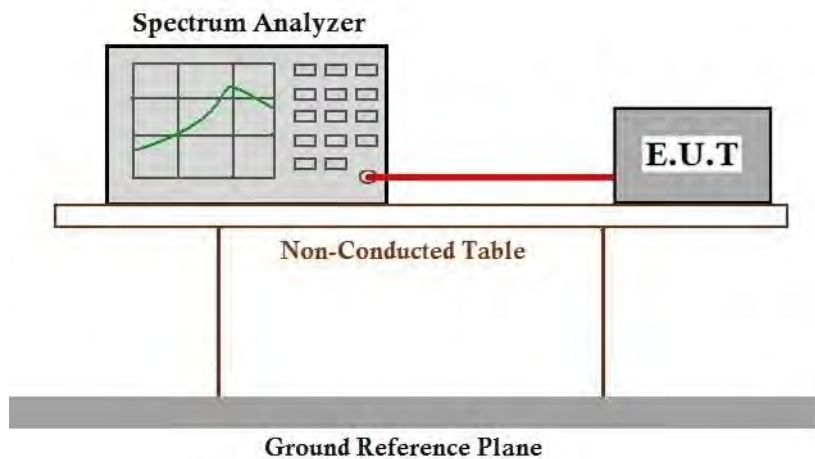
Operating Environment:

Temperature: 23.3 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

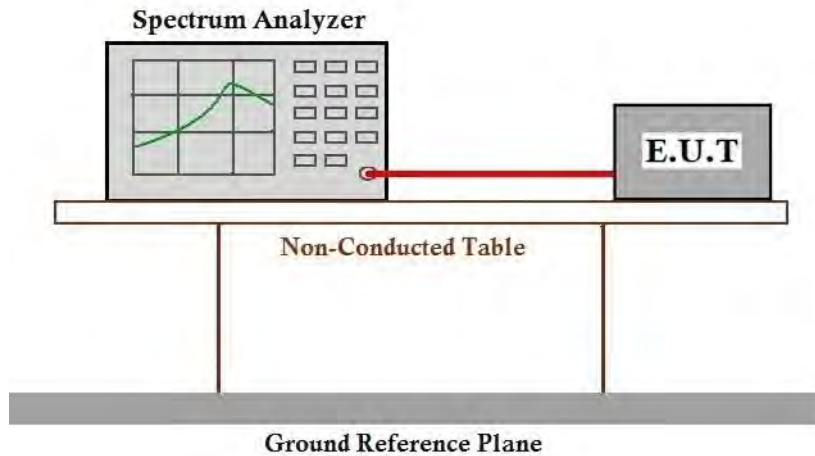
Humidity: 43.7 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 43.7 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

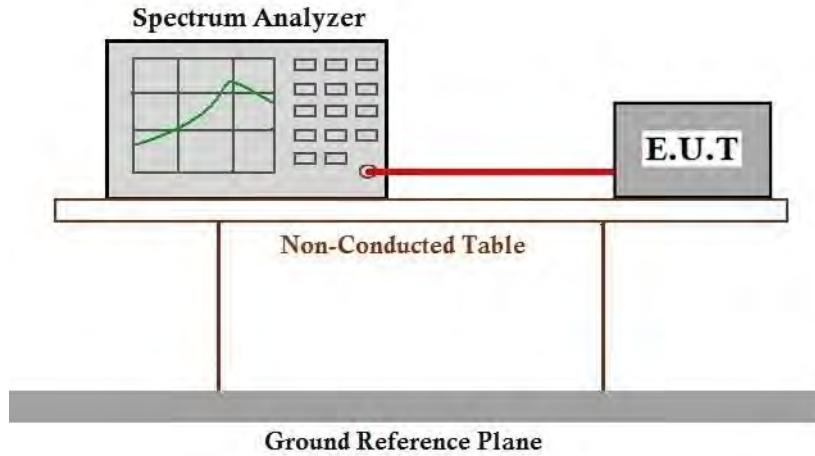
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 43.6 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

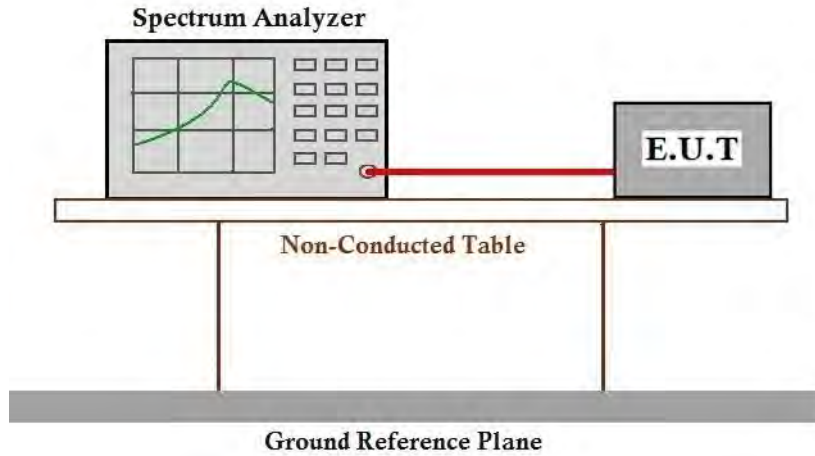
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(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.</p> <p>(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.</p> <p>(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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(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.</p> <p>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.</p>		

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 58.0 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the

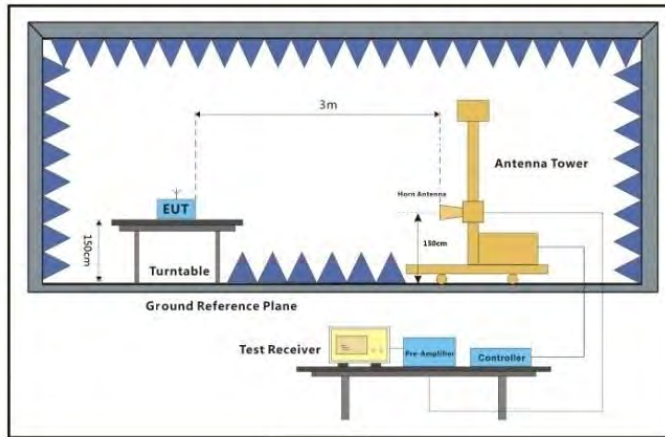


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		worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



Above 1GHz



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7.7.4 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.



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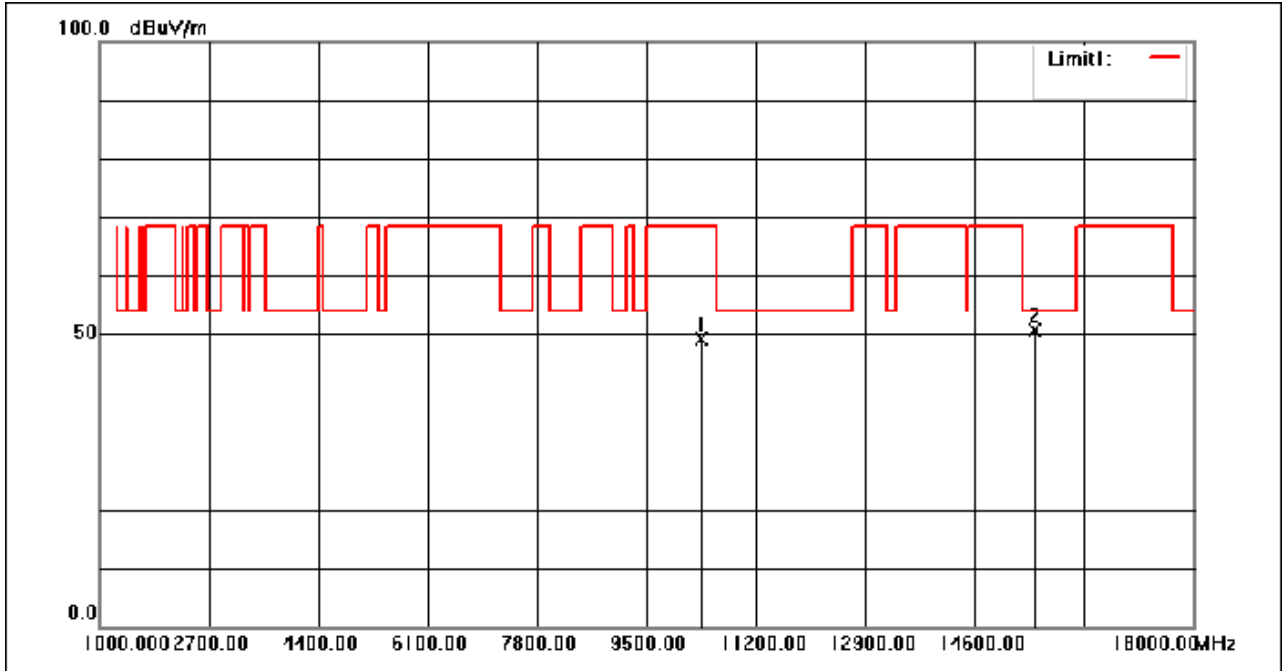
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Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.00	0.16	49.16	68.30	-19.14	peak
2	15540.000	44.92	5.73	50.65	54.00	-3.35	peak



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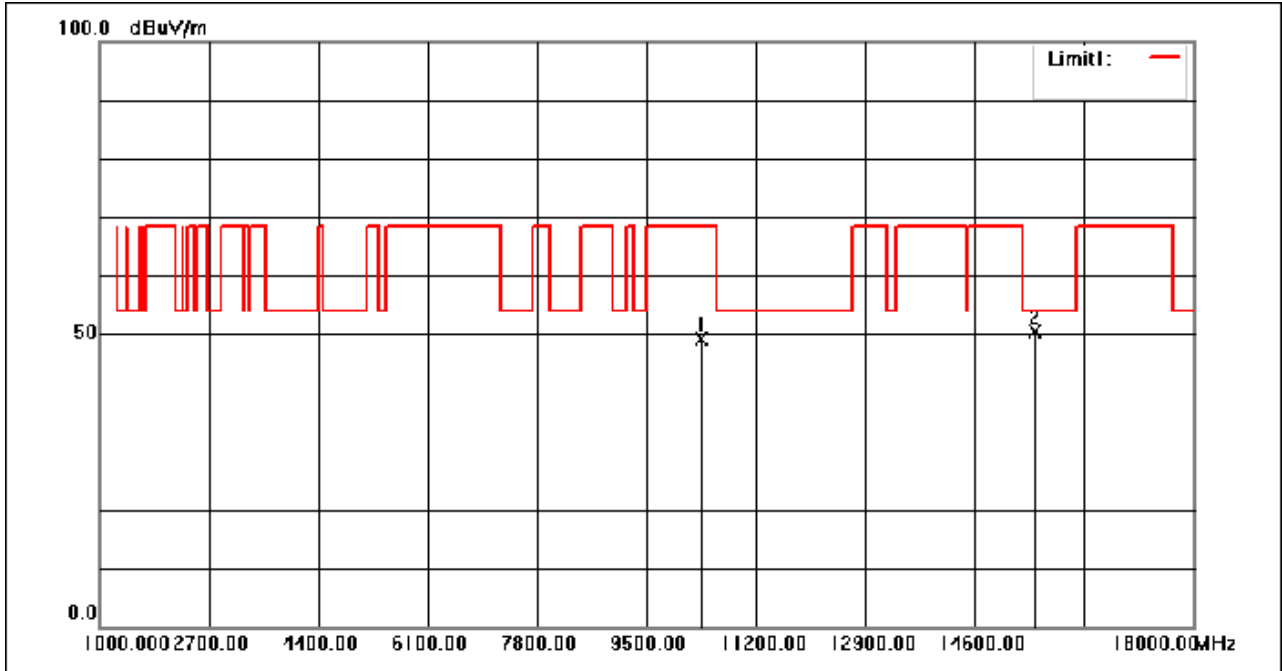
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Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.02	0.16	49.18	68.30	-19.12	peak
2	15540.000	44.71	5.73	50.44	54.00	-3.56	peak

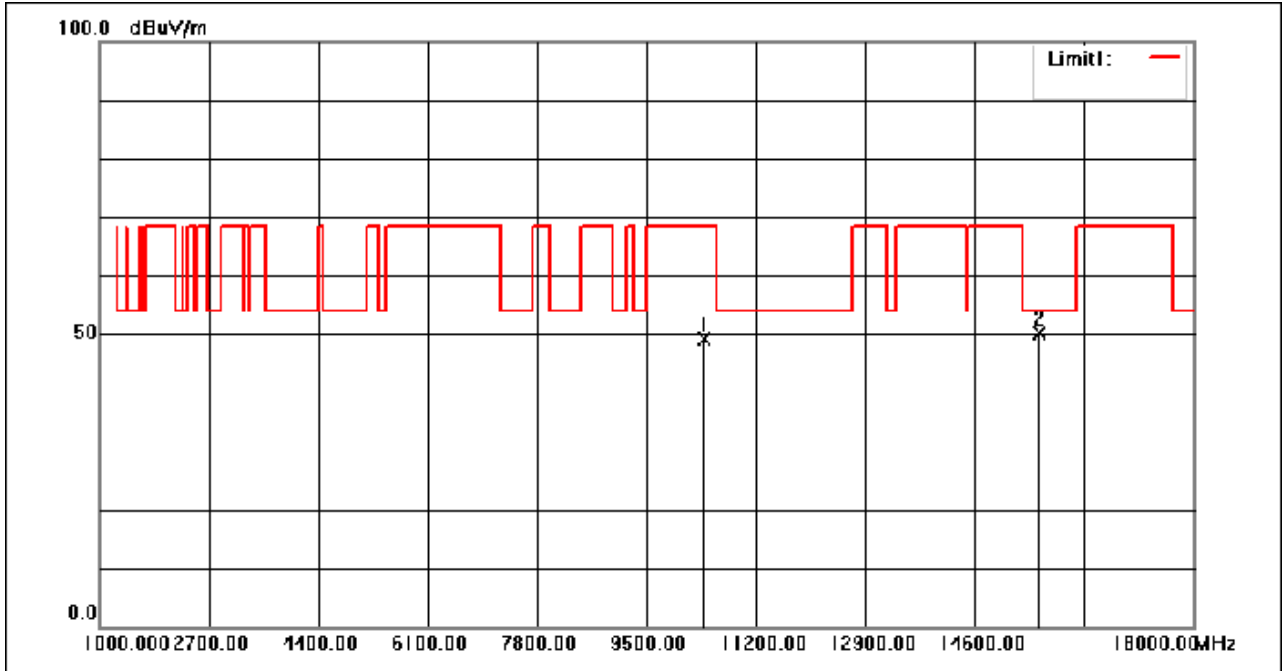


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	48.88	0.24	49.12	68.30	-19.18	peak
2	15600.000	44.30	5.85	50.15	54.00	-3.85	peak



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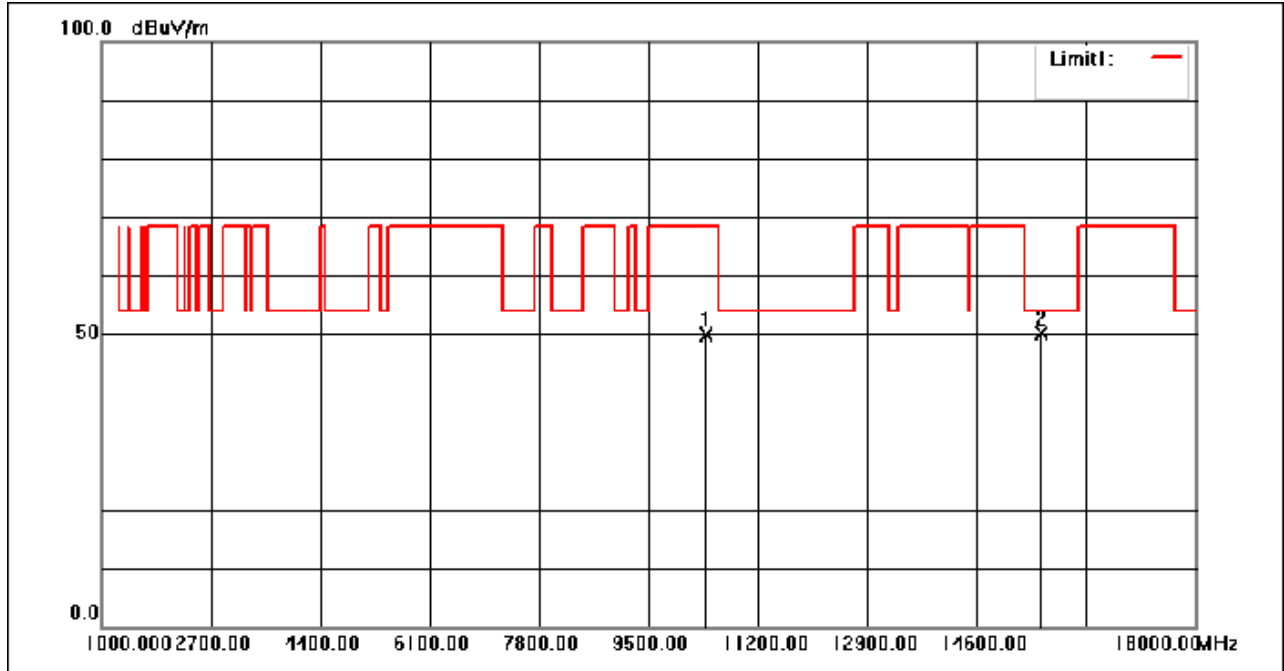
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 30 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.66	0.24	49.90	68.30	-18.40	peak
2	15600.000	44.21	5.85	50.06	54.00	-3.94	peak



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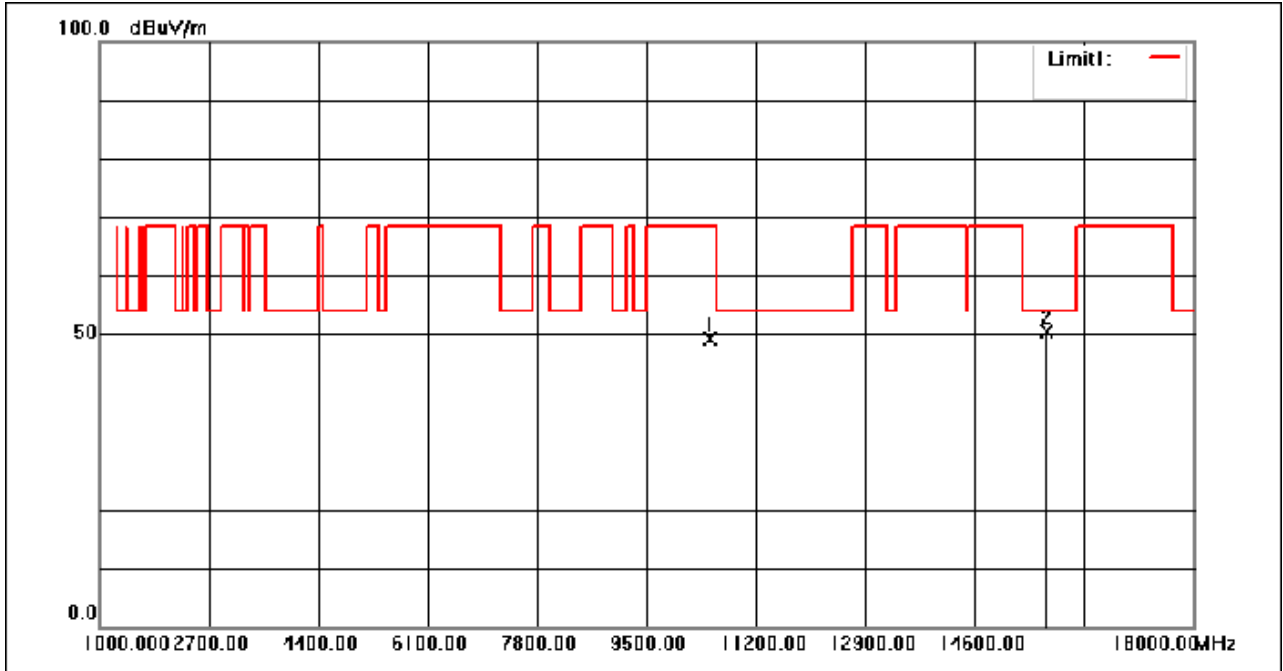
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 31 of 196

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.79	0.40	49.19	68.30	-19.11	peak
2	15720.000	44.30	6.10	50.40	54.00	-3.60	peak



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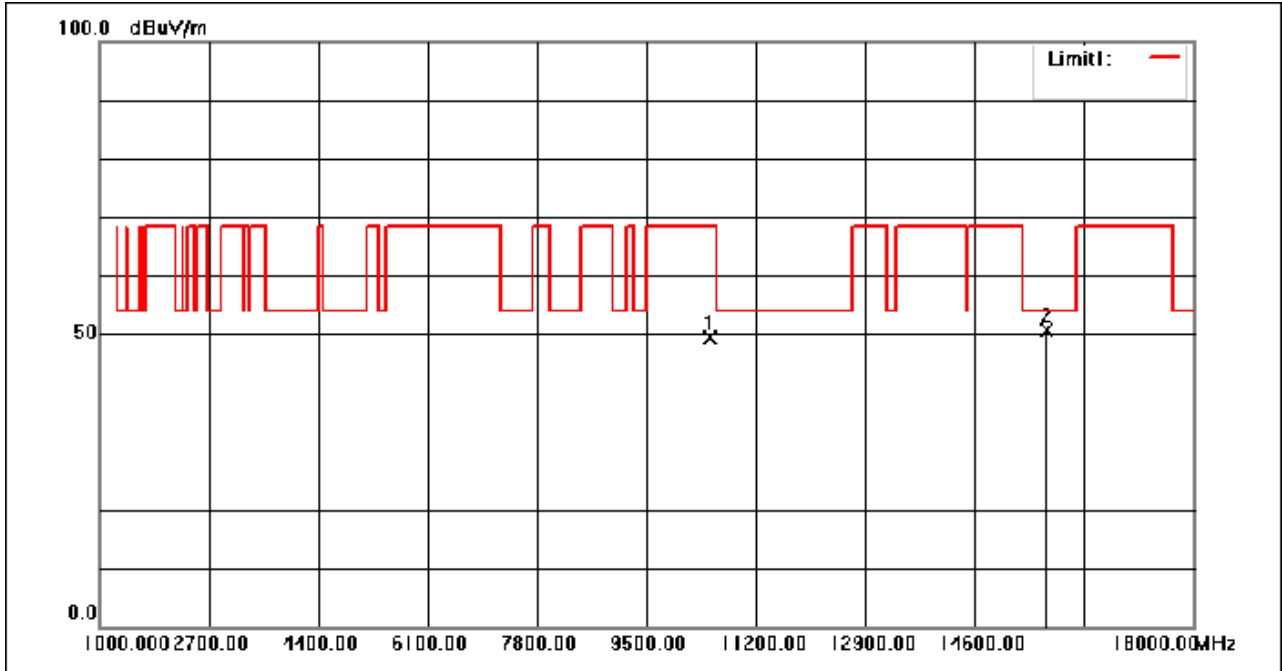
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 32 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.06	0.40	49.46	68.30	-18.84	peak
2	15720.000	44.54	6.10	50.64	54.00	-3.36	peak



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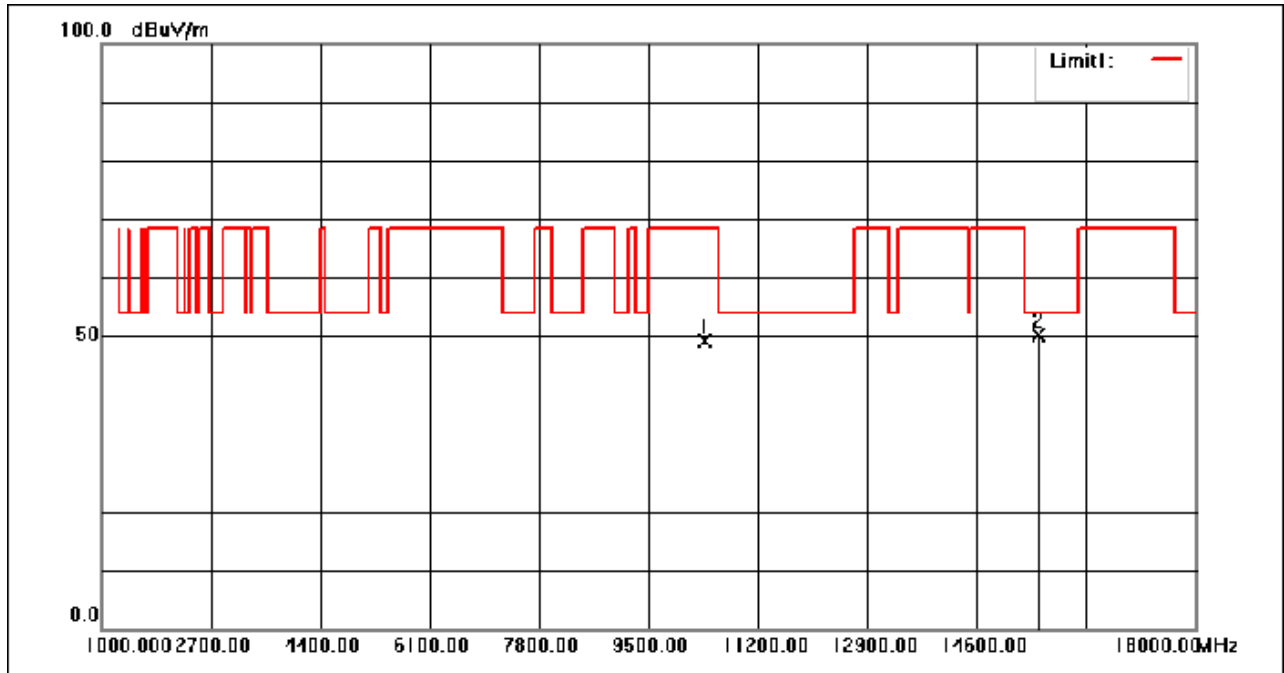
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 33 of 196

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	48.86	0.20	49.06	68.30	-19.24	peak
2	15570.000	44.38	5.79	50.17	54.00	-3.83	peak



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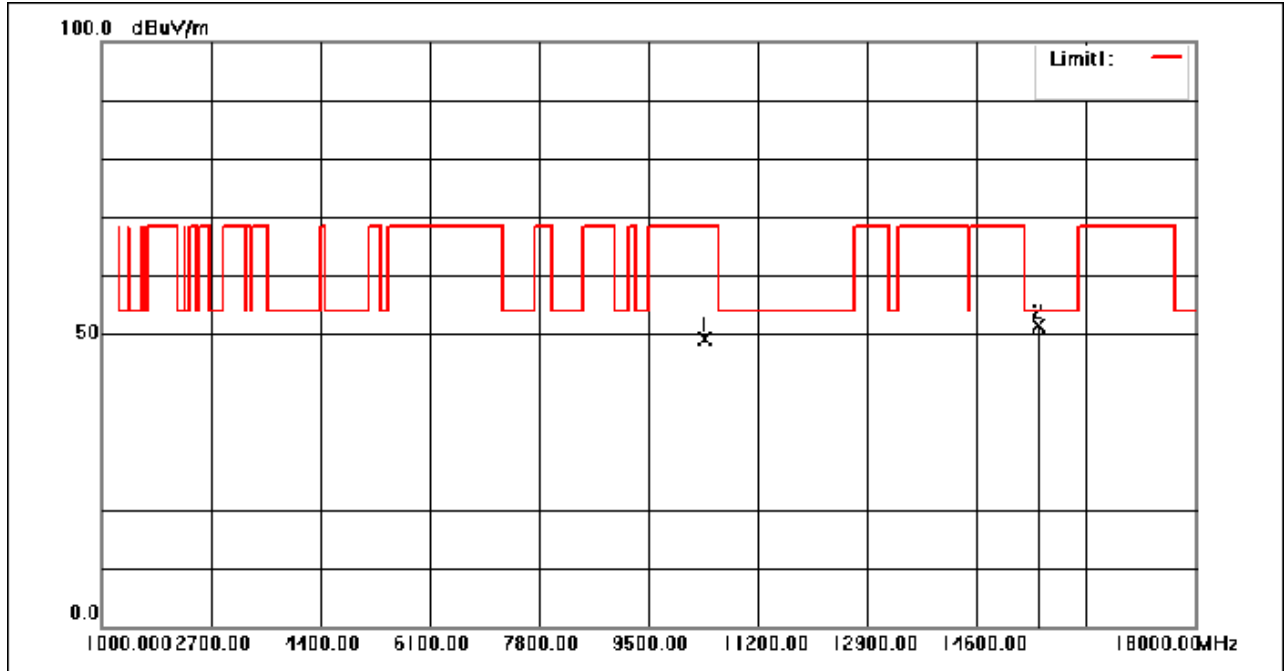
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 34 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	48.91	0.20	49.11	68.30	-19.19	peak
2	15570.000	45.53	5.79	51.32	54.00	-2.68	peak



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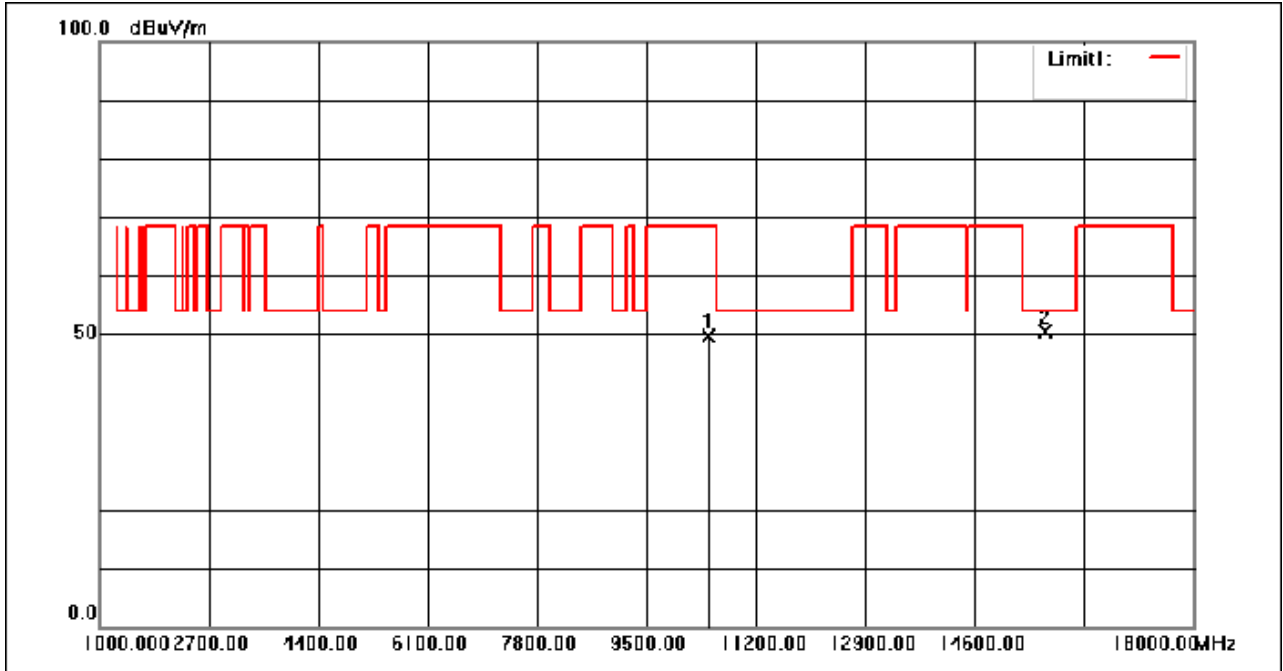
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.33	0.36	49.69	68.30	-18.61	peak
2	15690.000	44.46	6.04	50.50	54.00	-3.50	peak



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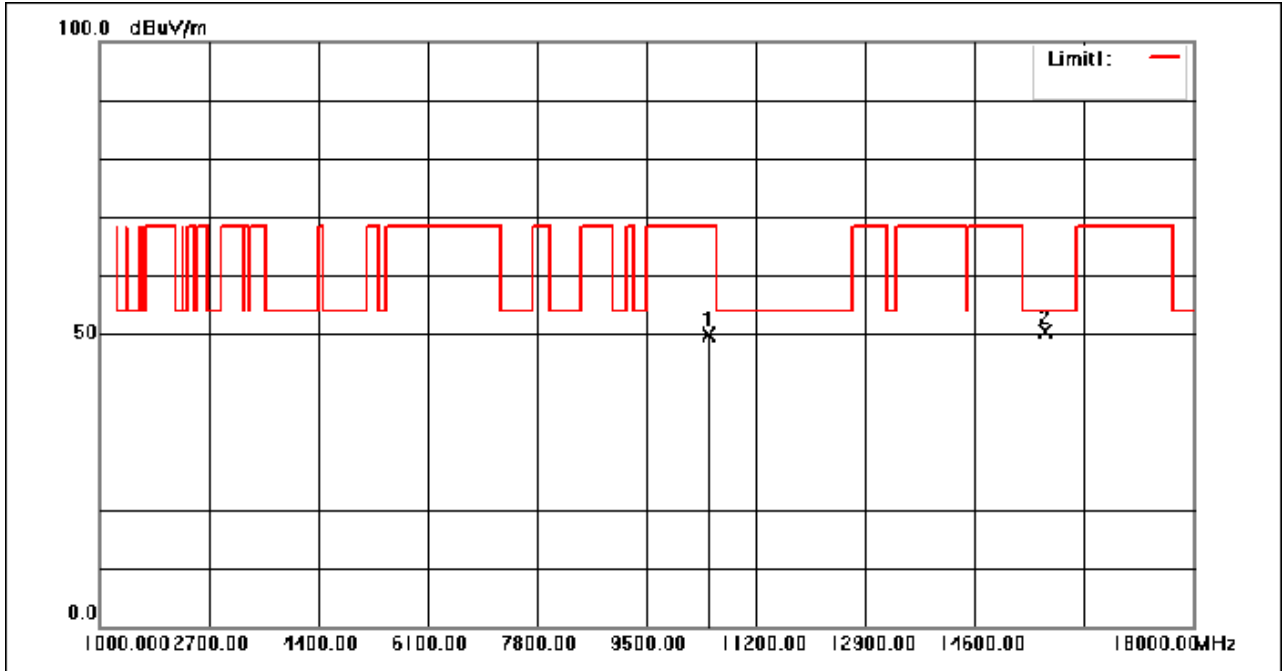
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.47	0.36	49.83	68.30	-18.47	peak
2	15690.000	44.39	6.04	50.43	54.00	-3.57	peak



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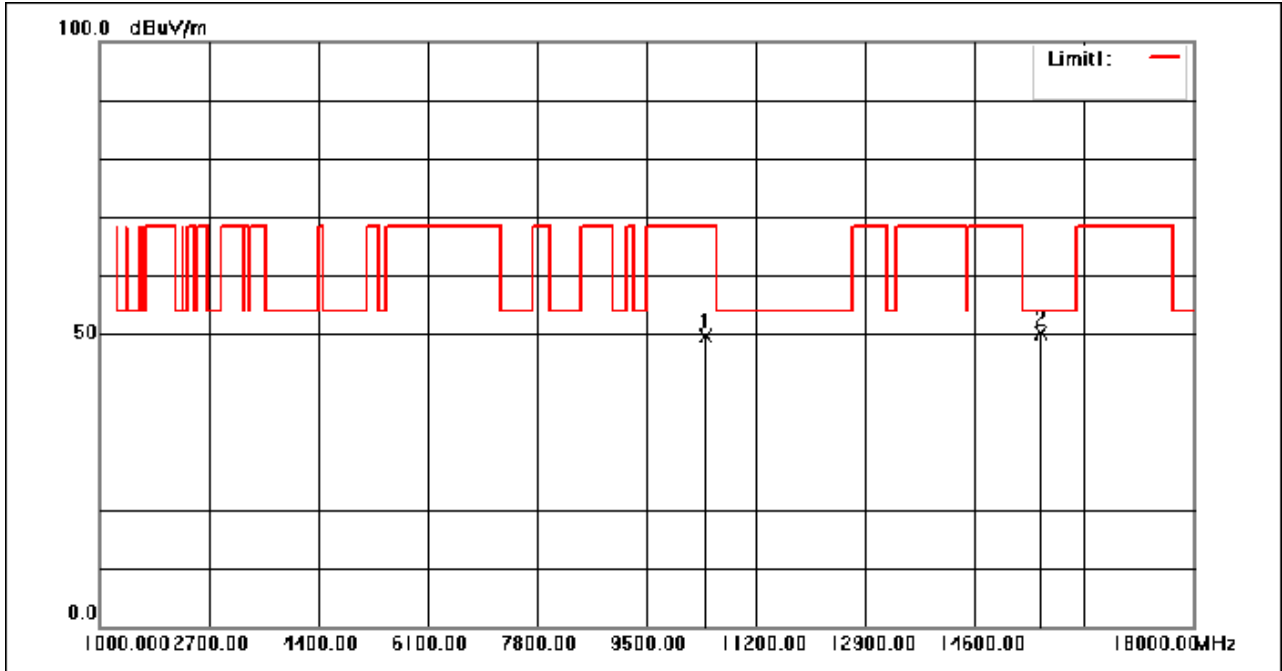
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.37	0.28	49.65	68.30	-18.65	peak
2	15630.000	44.19	5.92	50.11	54.00	-3.89	peak



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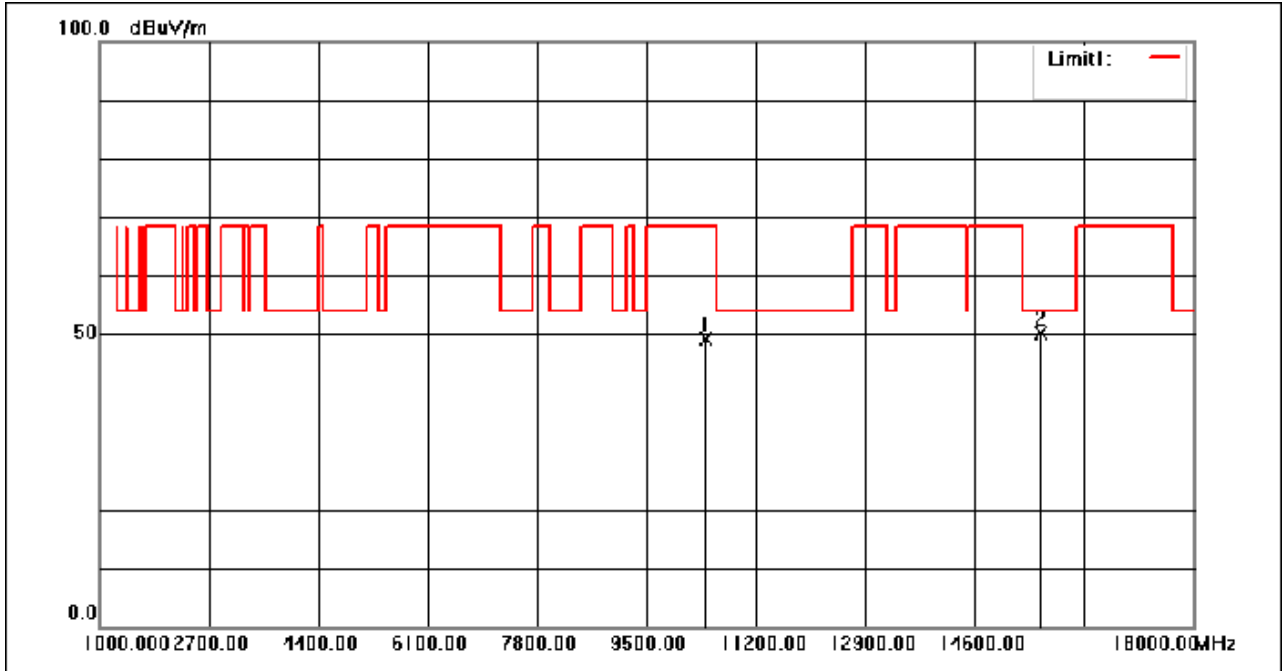
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	48.93	0.28	49.21	68.30	-19.09	peak
2	15630.000	44.27	5.92	50.19	54.00	-3.81	peak



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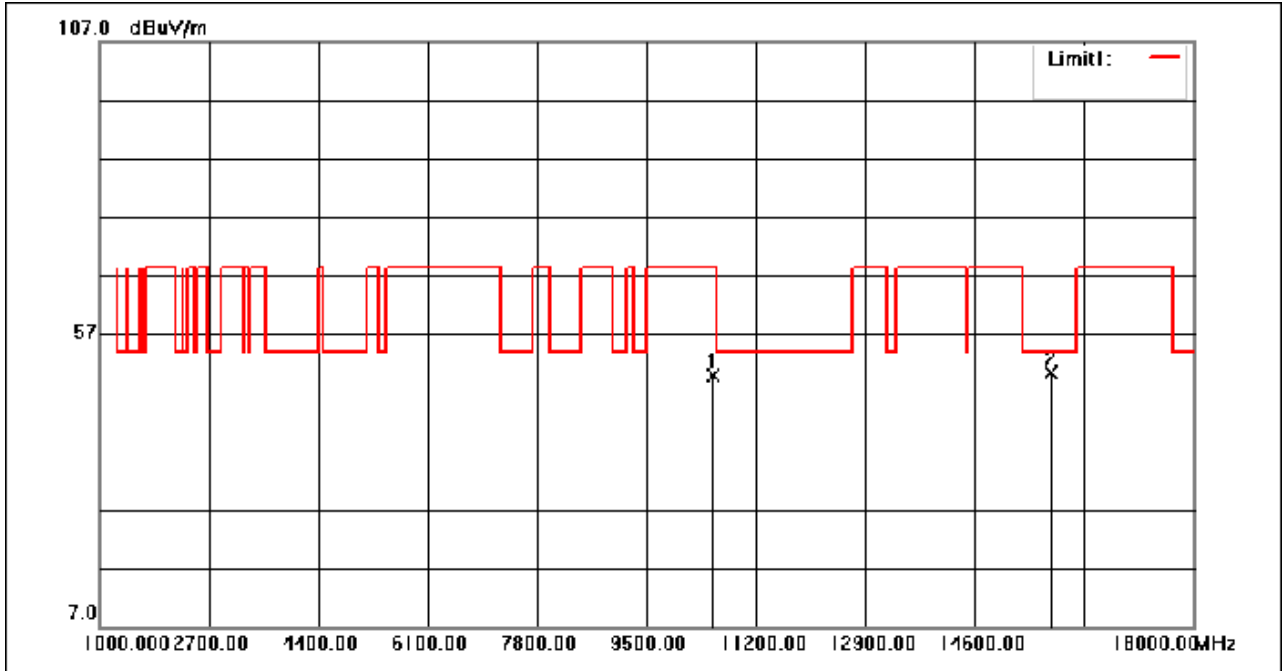
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.39	0.44	49.83	68.30	-18.47	peak
2	15780.000	44.23	6.23	50.46	54.00	-3.54	peak



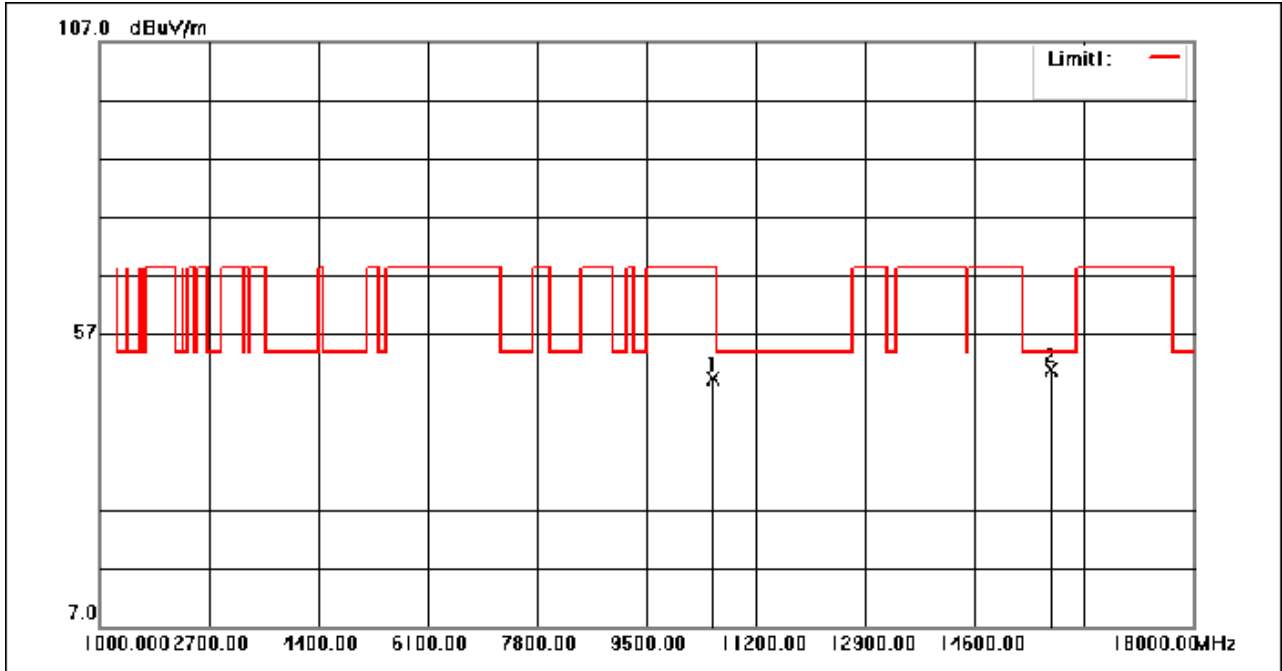
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	48.97	0.44	49.41	68.30	-18.89	peak
2	15780.000	44.72	6.23	50.95	54.00	-3.05	peak

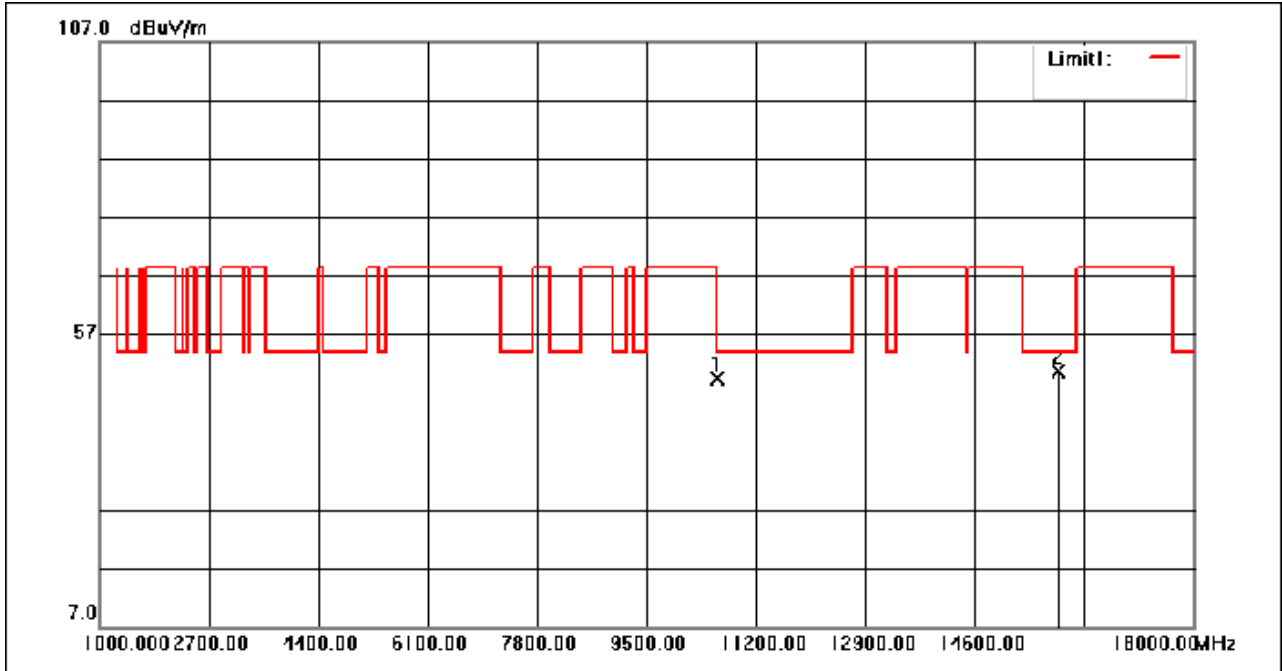


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	48.95	0.46	49.41	54.00	-4.59	peak
2	15900.000	44.15	6.48	50.63	54.00	-3.37	peak



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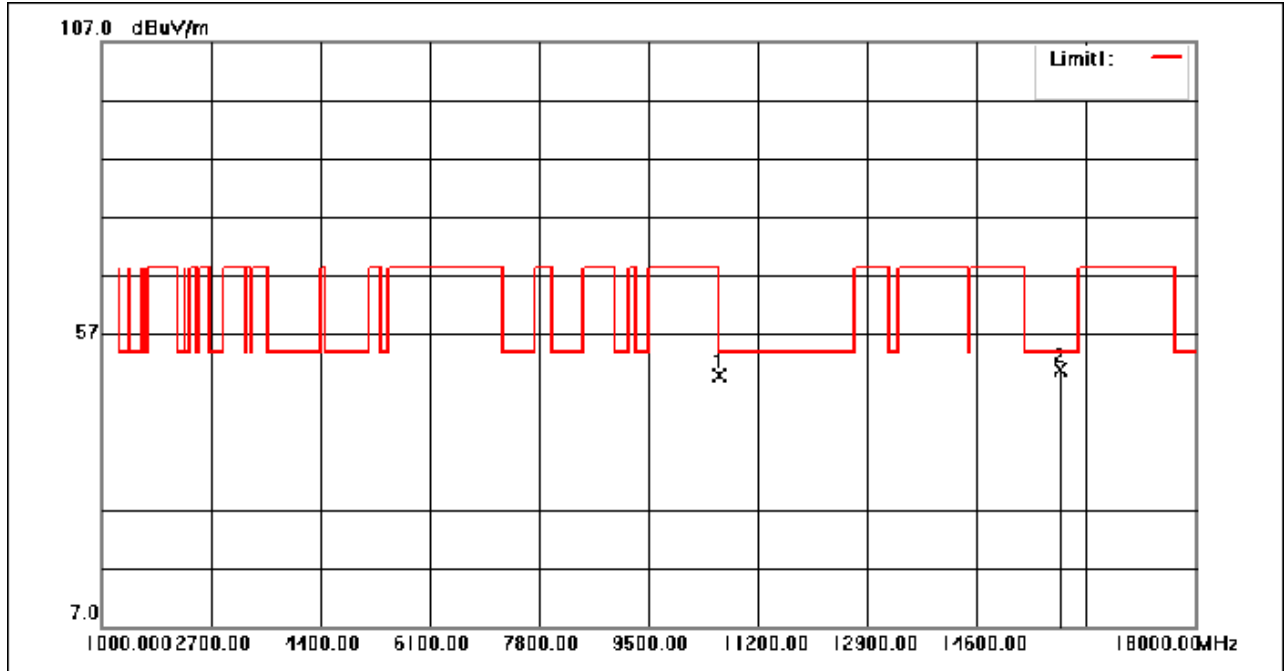
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 42 of 196

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.33	0.46	49.79	54.00	-4.21	peak
2	15900.000	44.30	6.48	50.78	54.00	-3.22	peak

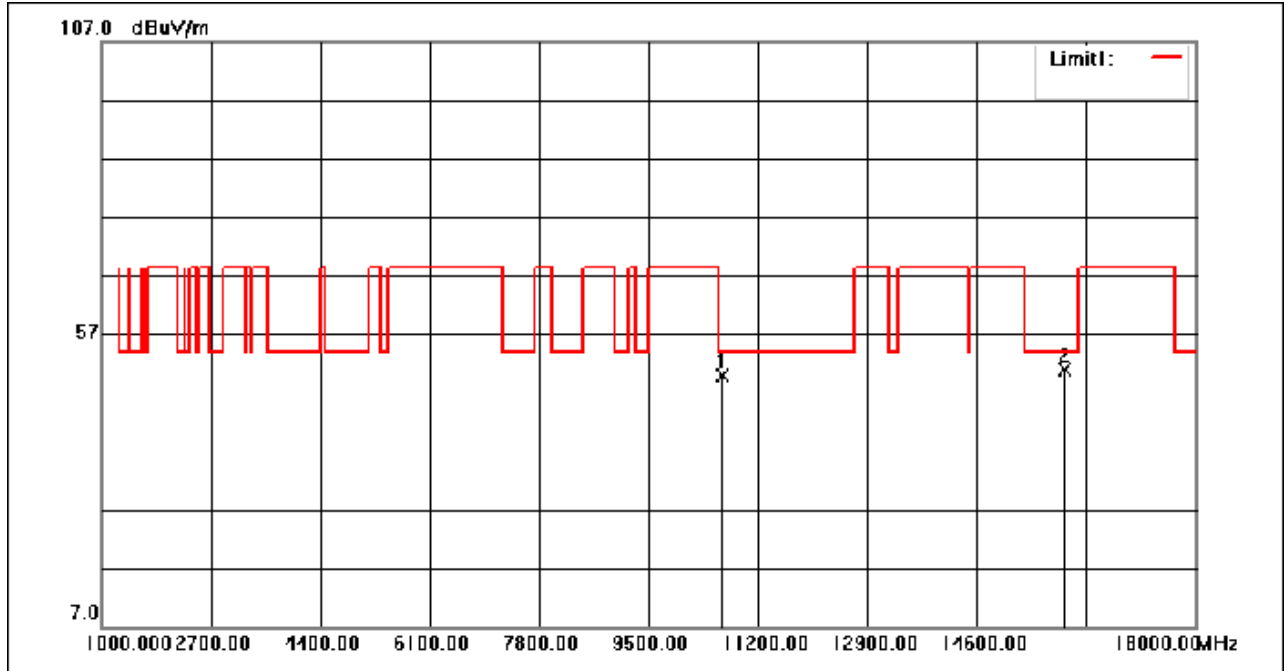


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.51	0.46	49.97	54.00	-4.03	peak
2	15960.000	44.26	6.60	50.86	54.00	-3.14	peak

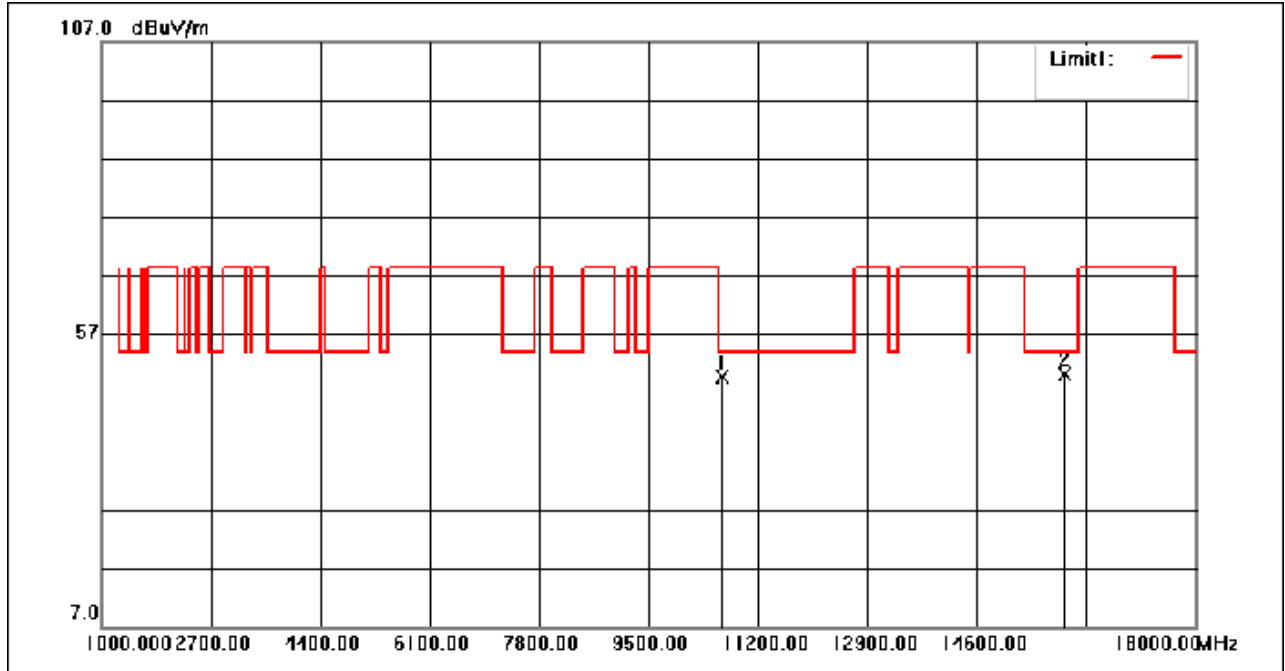


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.22	0.46	49.68	54.00	-4.32	peak
2	15960.000	43.47	6.60	50.07	54.00	-3.93	peak



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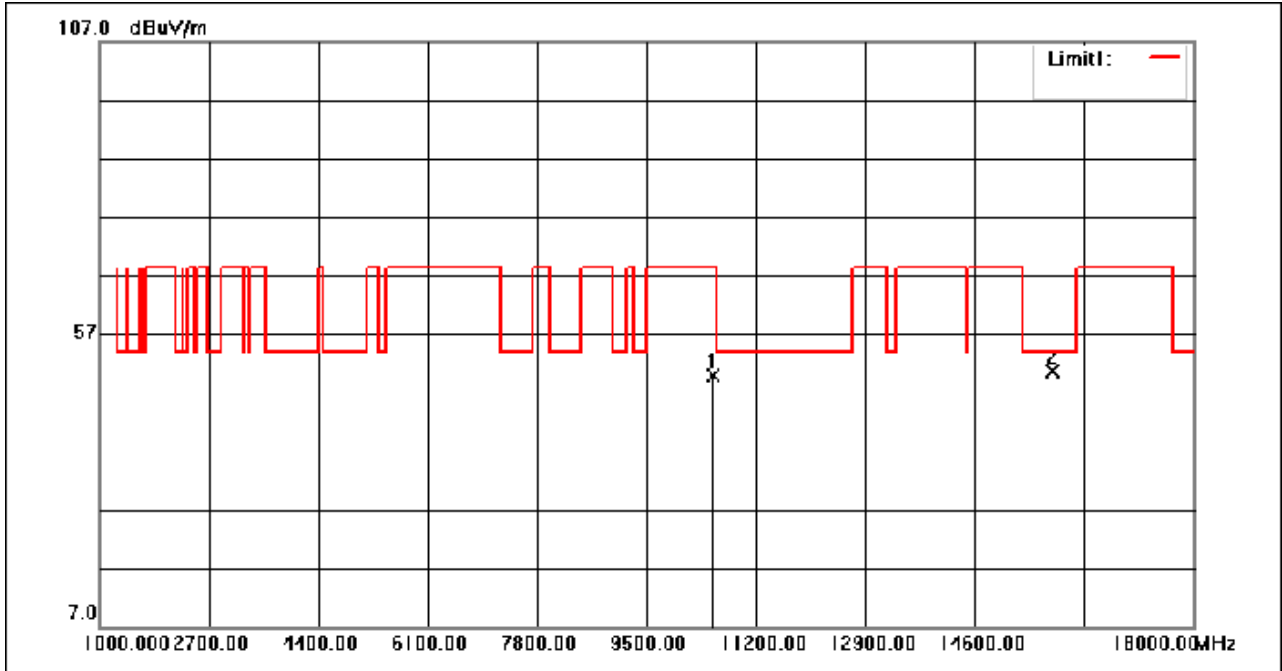
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.40	0.44	49.84	68.30	-18.46	peak
2	15810.000	44.35	6.29	50.64	54.00	-3.36	peak



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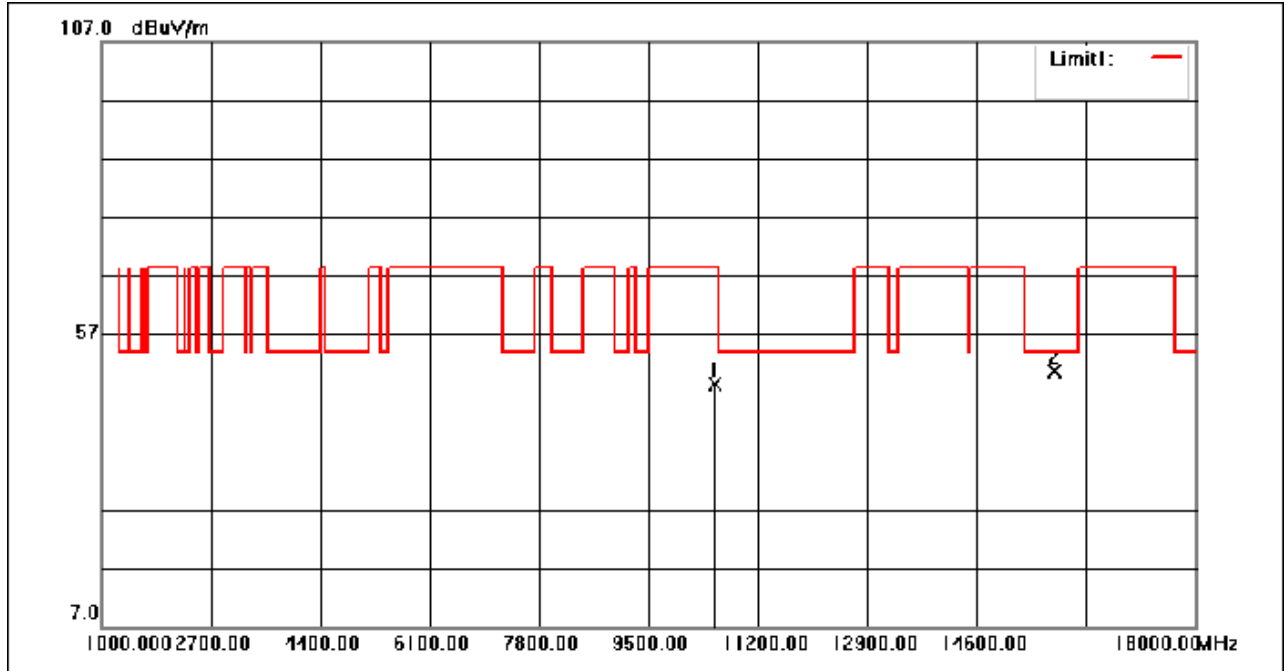
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	47.94	0.44	48.38	68.30	-19.92	peak
2	15810.000	44.38	6.29	50.67	54.00	-3.33	peak



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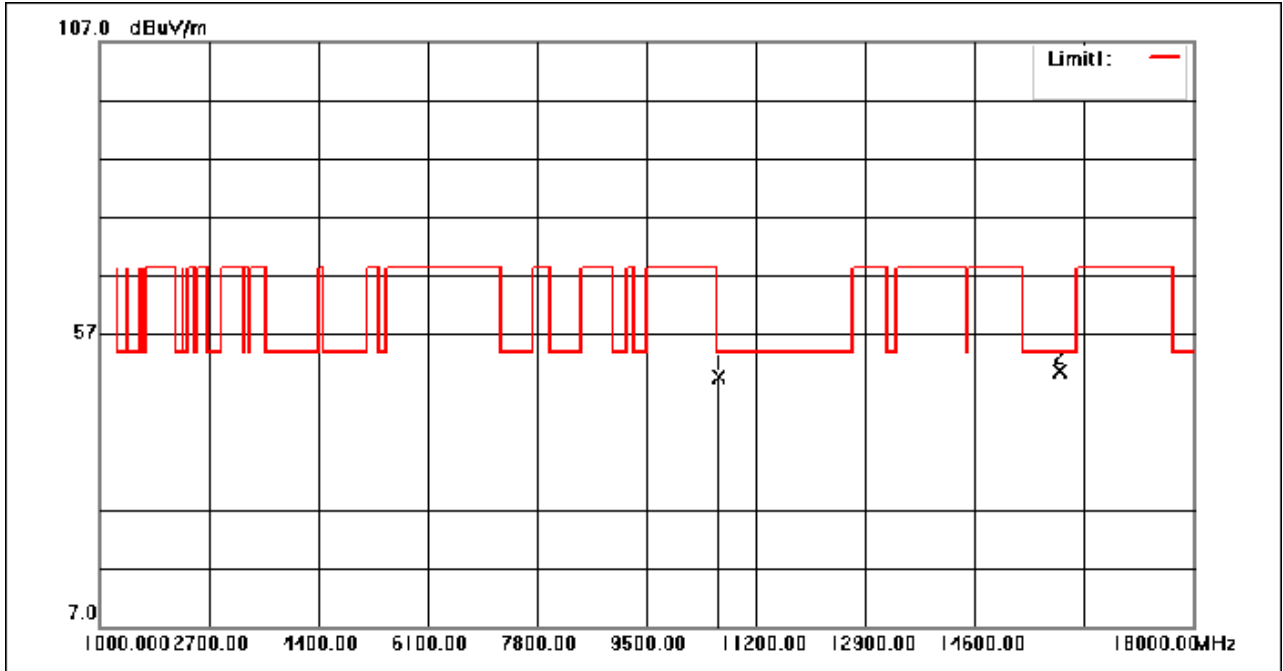
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 47 of 196

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.26	0.46	49.72	54.00	-4.28	peak
2	15930.000	44.00	6.54	50.54	54.00	-3.46	peak



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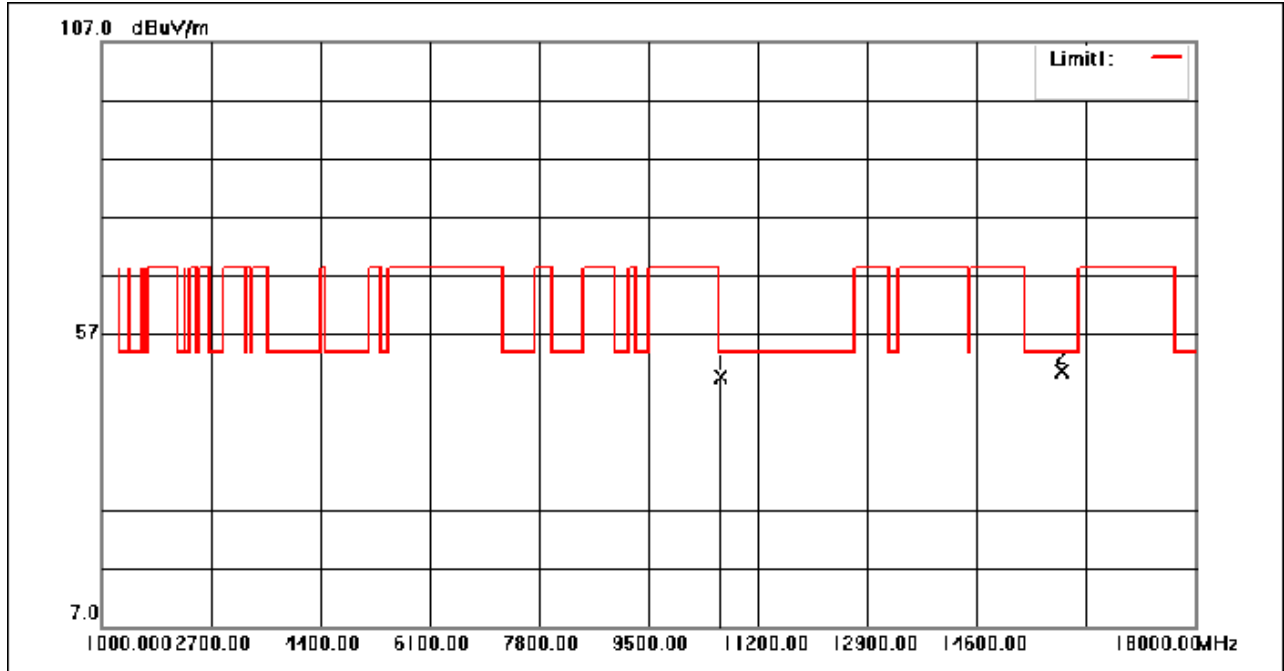
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 48 of 196

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.26	0.46	49.72	54.00	-4.28	peak
2	15930.000	43.98	6.54	50.52	54.00	-3.48	peak



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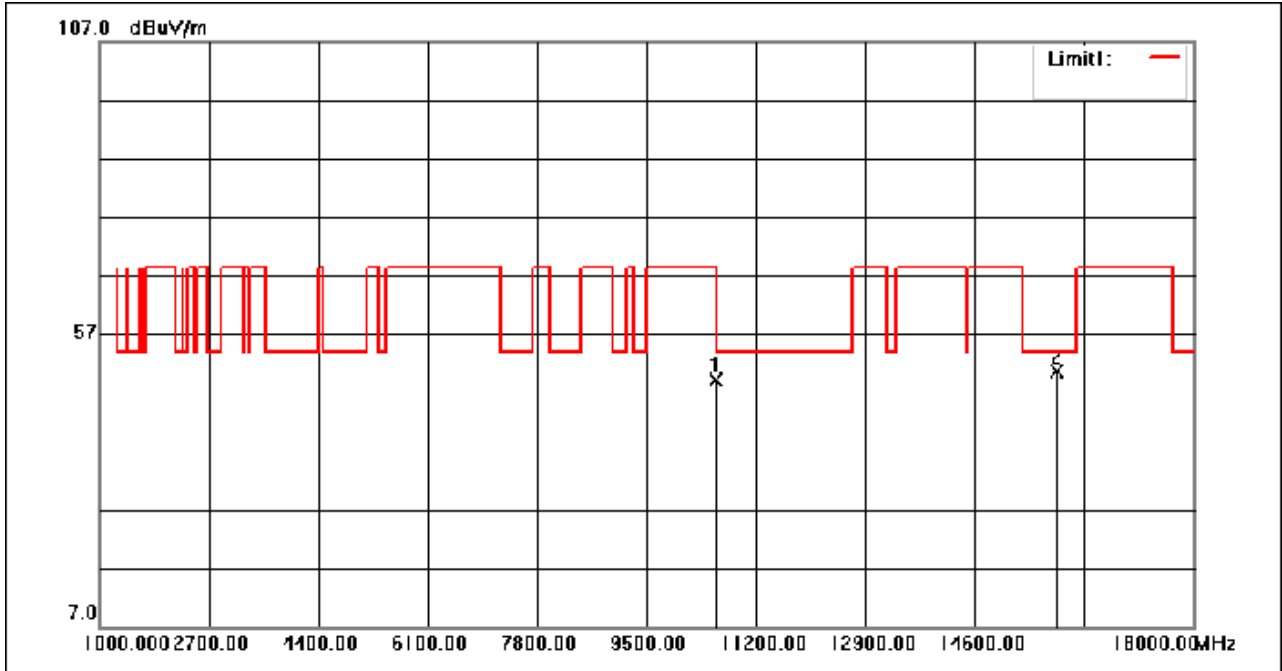
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	48.63	0.46	49.09	68.30	-19.21	peak
2	15870.000	44.18	6.41	50.59	54.00	-3.41	peak



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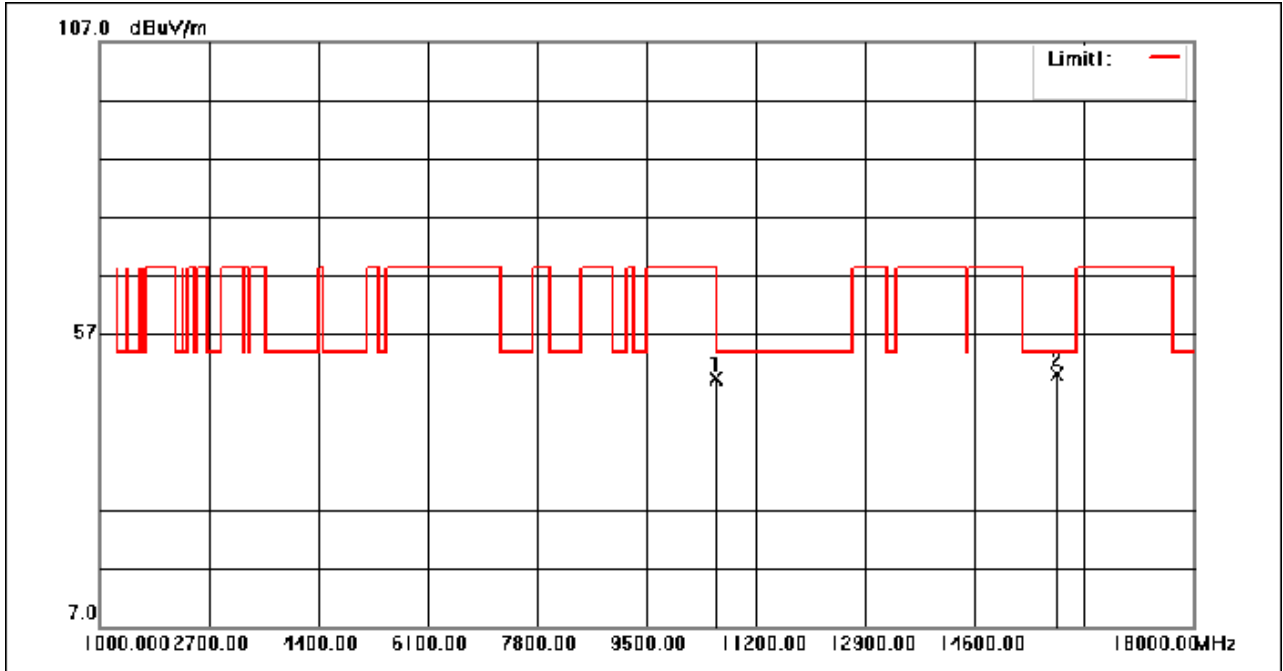
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 50 of 196

Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	48.93	0.46	49.39	68.30	-18.91	peak
2	15870.000	43.60	6.41	50.01	54.00	-3.99	peak



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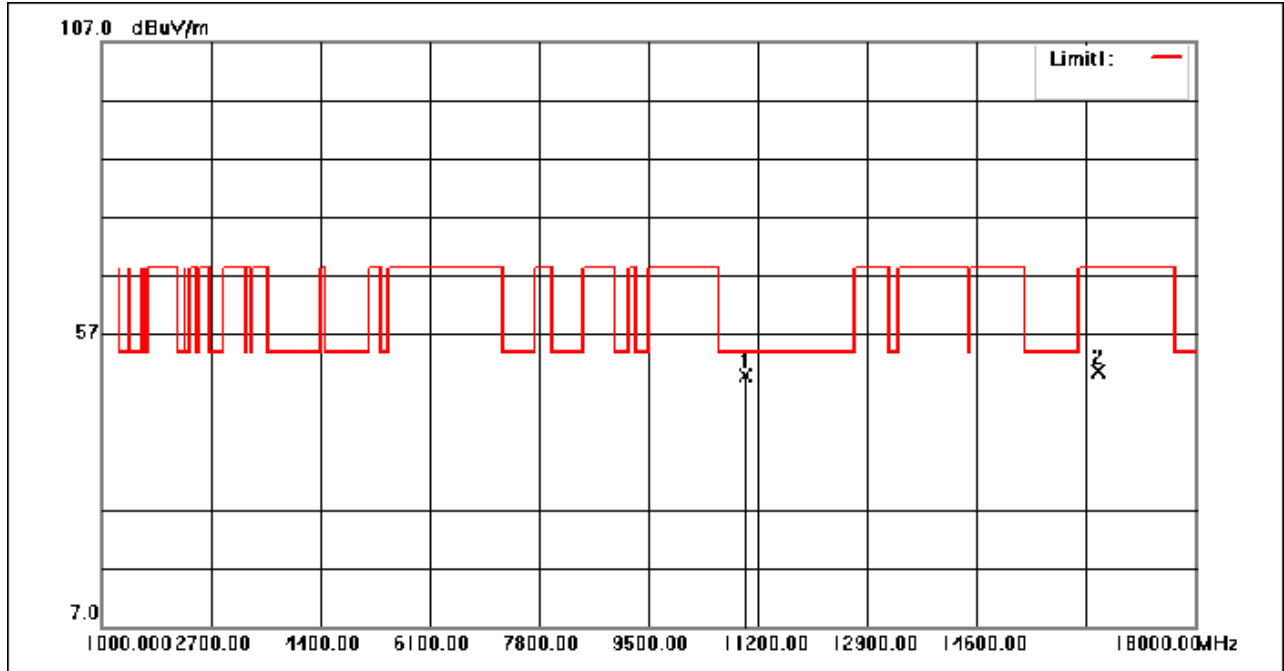
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.32	0.54	49.86	54.00	-4.14	peak
2	16500.000	42.15	8.43	50.58	68.30	-17.72	peak

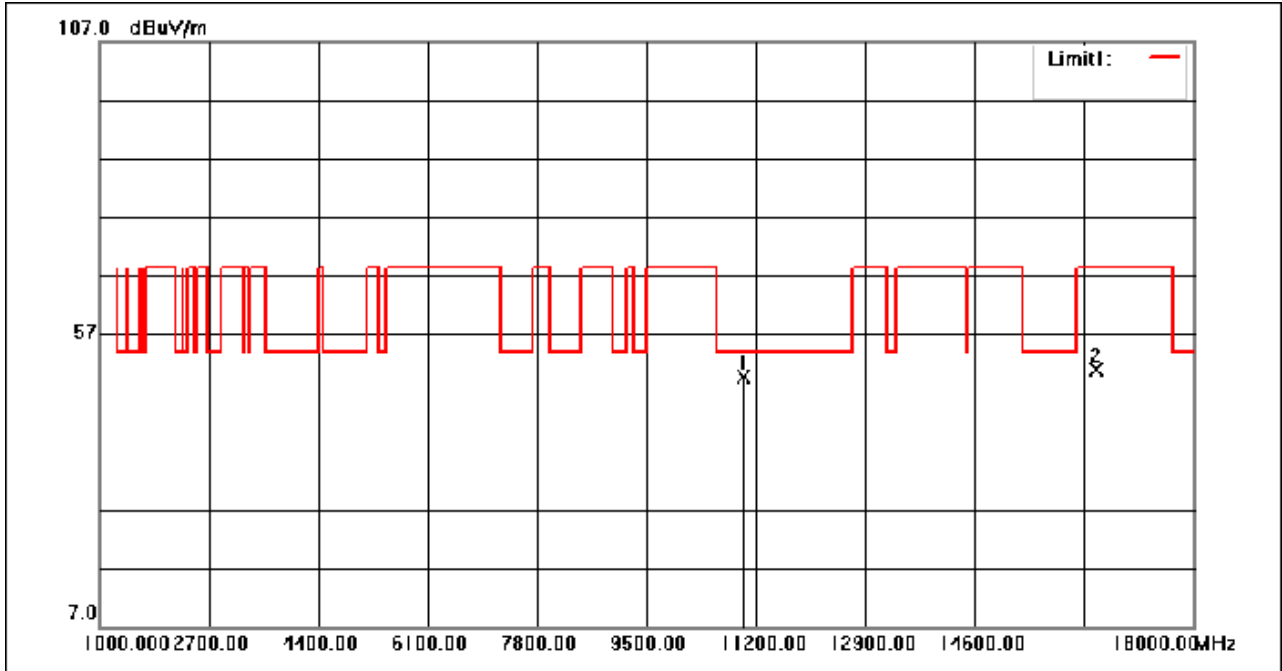


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.05	0.54	49.59	54.00	-4.41	peak
2	16500.000	42.53	8.43	50.96	68.30	-17.34	peak



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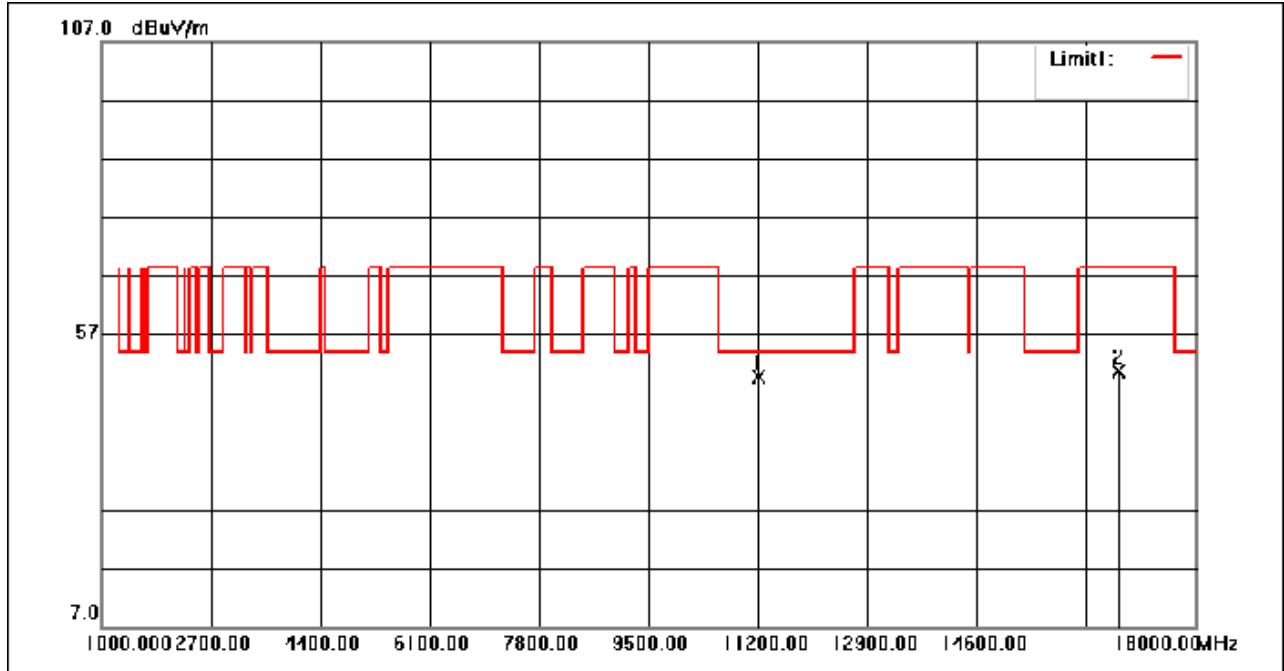
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 53 of 196

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	48.99	0.71	49.70	54.00	-4.30	peak
2	16800.000	41.86	8.89	50.75	68.30	-17.55	peak



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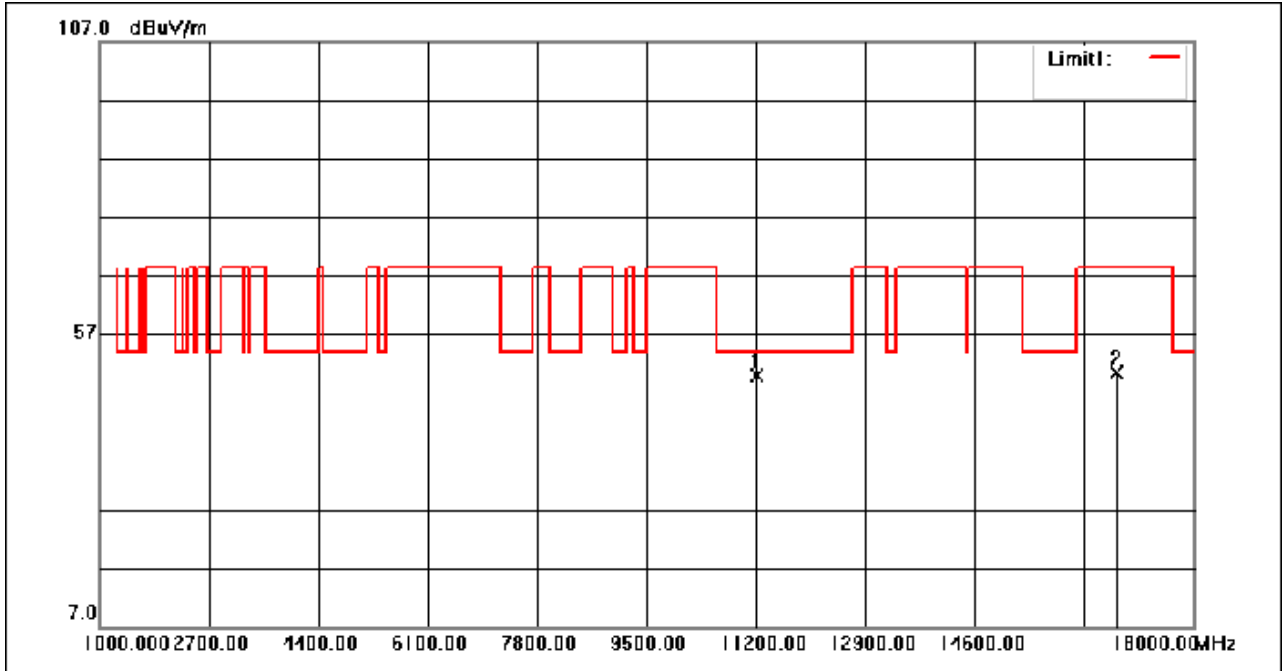
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.13	0.71	49.84	54.00	-4.16	peak
2	16800.000	41.52	8.89	50.41	68.30	-17.89	peak

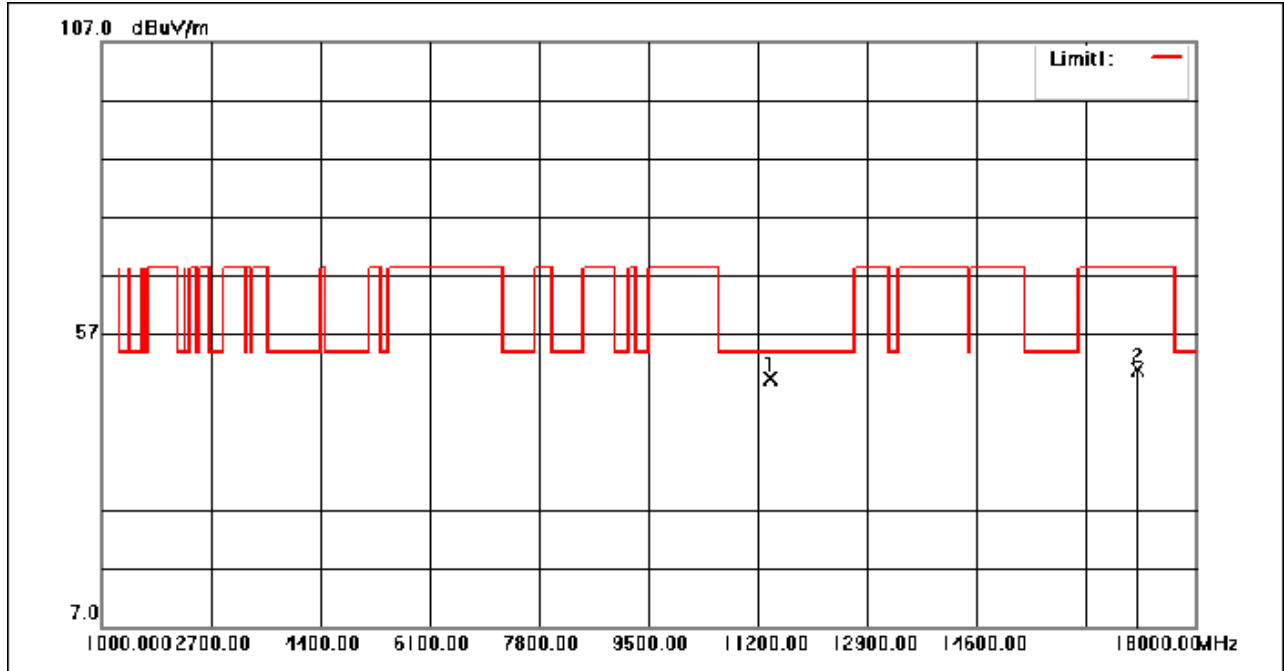


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	48.59	0.87	49.46	54.00	-4.54	peak
2	17100.000	41.73	9.13	50.86	68.30	-17.44	peak



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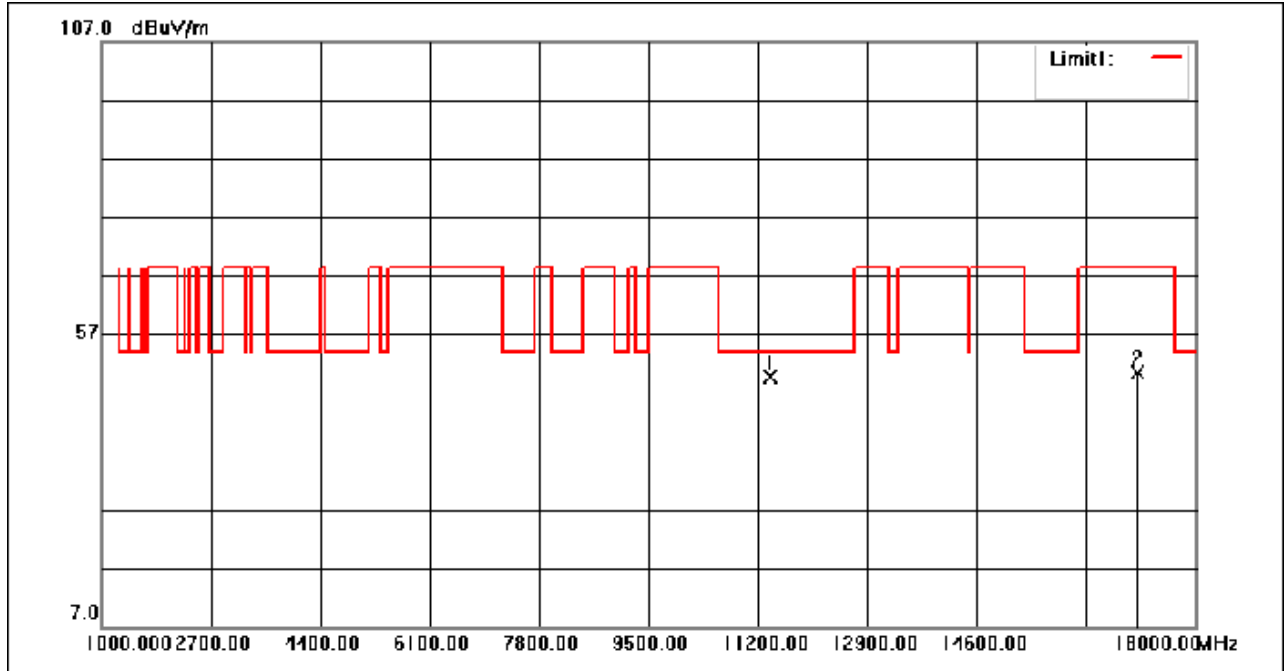
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	48.79	0.87	49.66	54.00	-4.34	peak
2	17100.000	41.23	9.13	50.36	68.30	-17.94	peak



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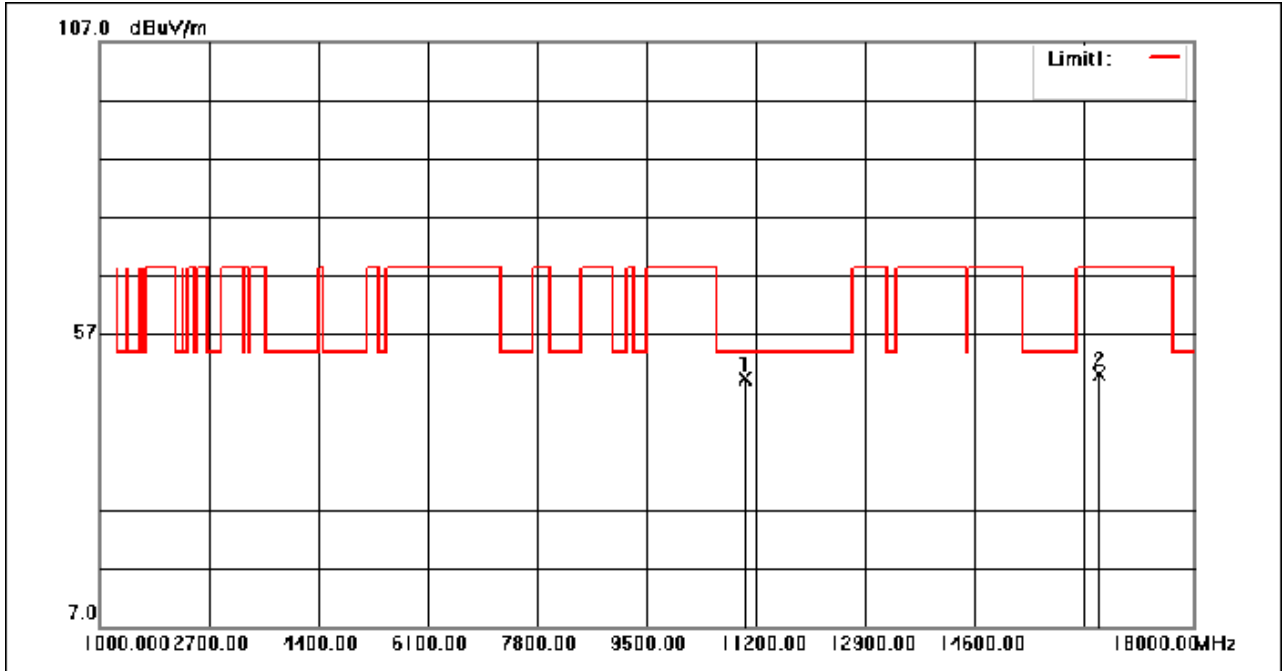
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 57 of 196

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	48.85	0.56	49.41	54.00	-4.59	peak
2	16530.000	41.64	8.47	50.11	68.30	-18.19	peak

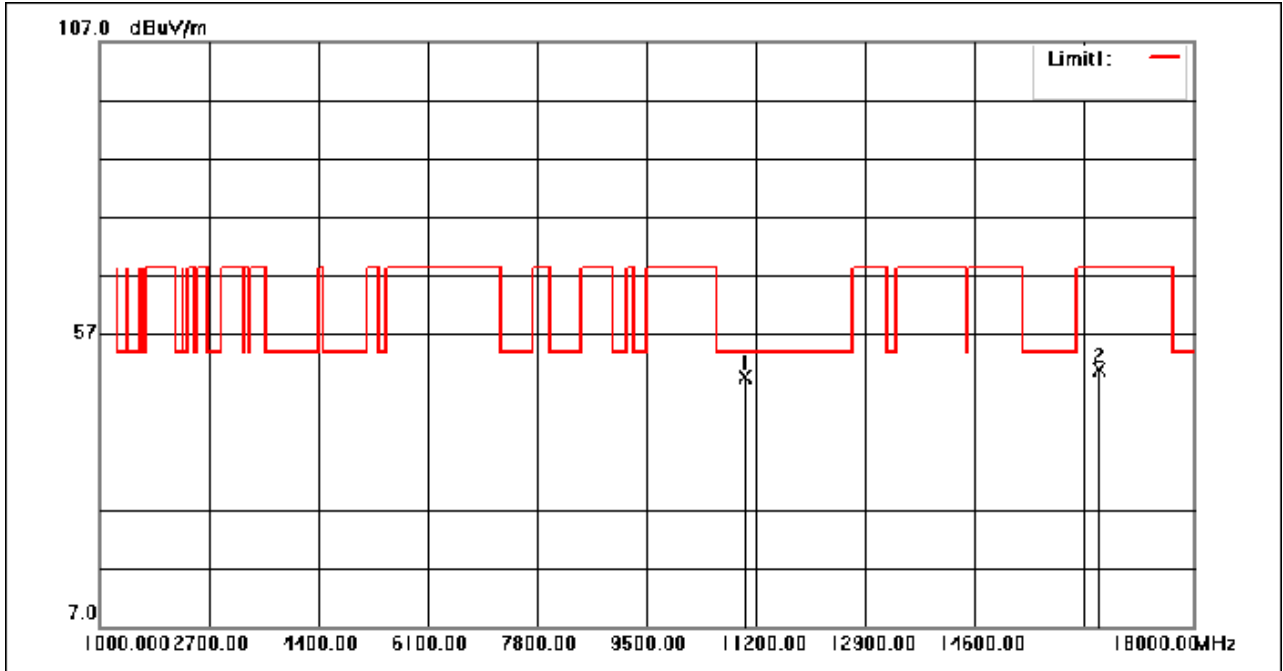


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	49.12	0.56	49.68	54.00	-4.32	peak
2	16530.000	42.34	8.47	50.81	68.30	-17.49	peak

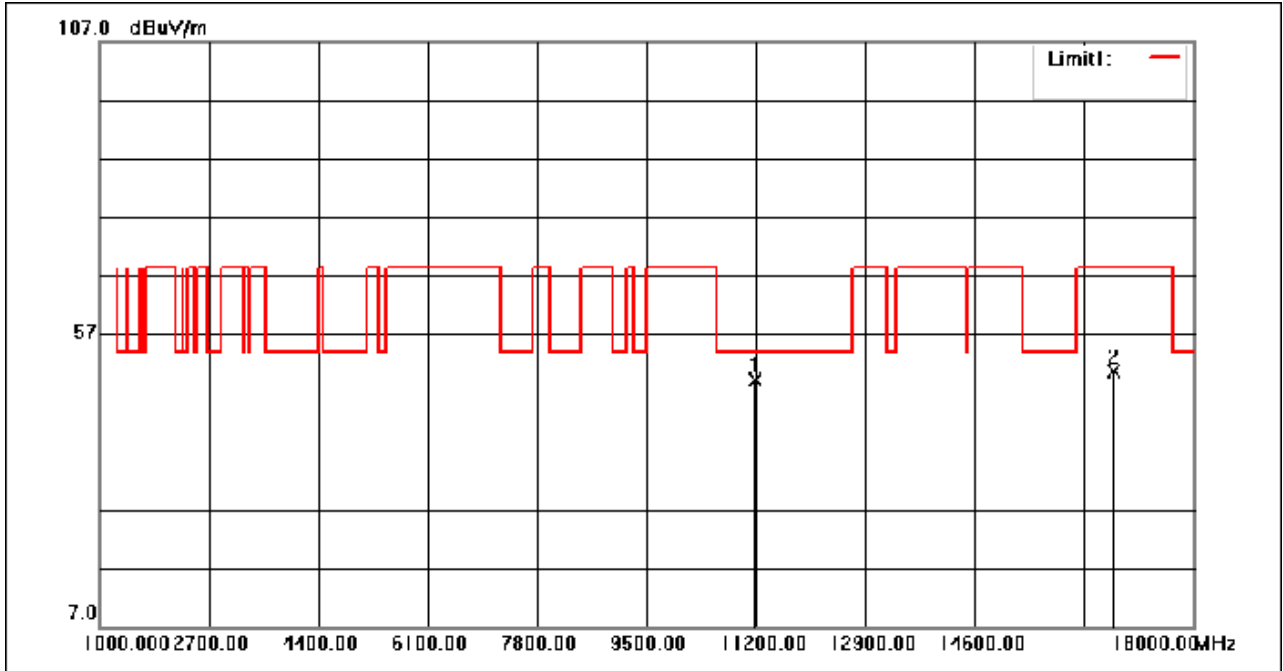


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	48.52	0.69	49.21	54.00	-4.79	peak
2	16770.000	41.78	8.84	50.62	68.30	-17.68	peak



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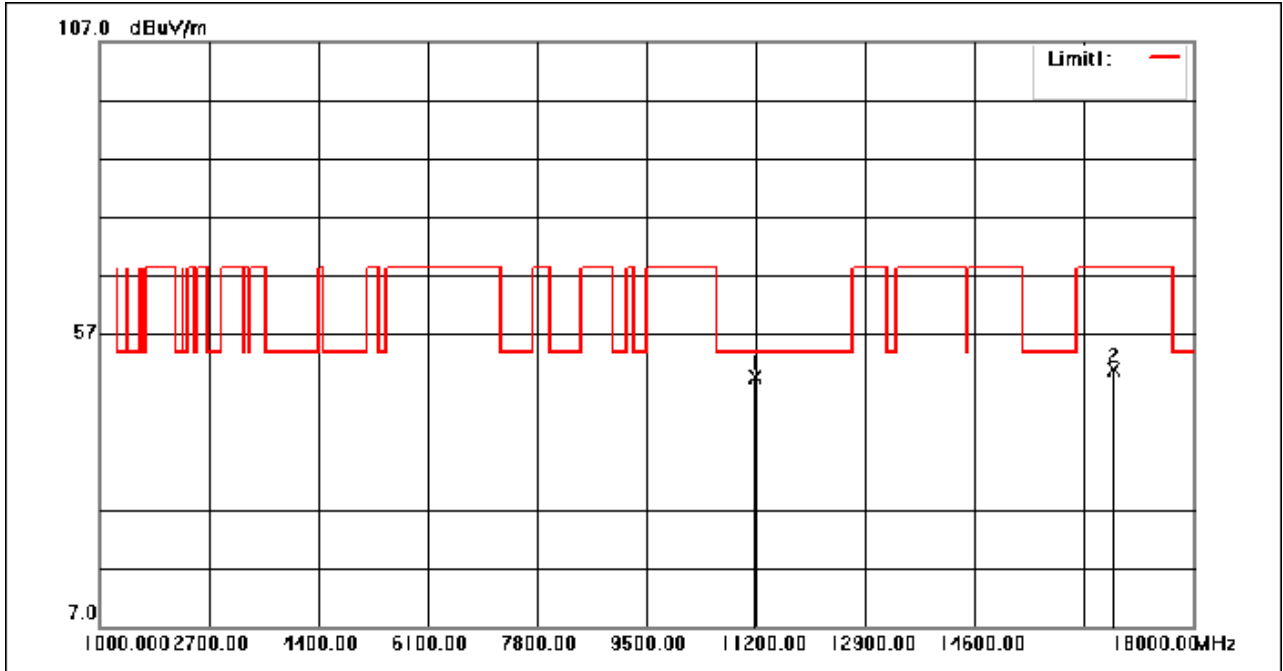
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.03	0.69	49.72	54.00	-4.28	peak
2	16770.000	42.13	8.84	50.97	68.30	-17.33	peak

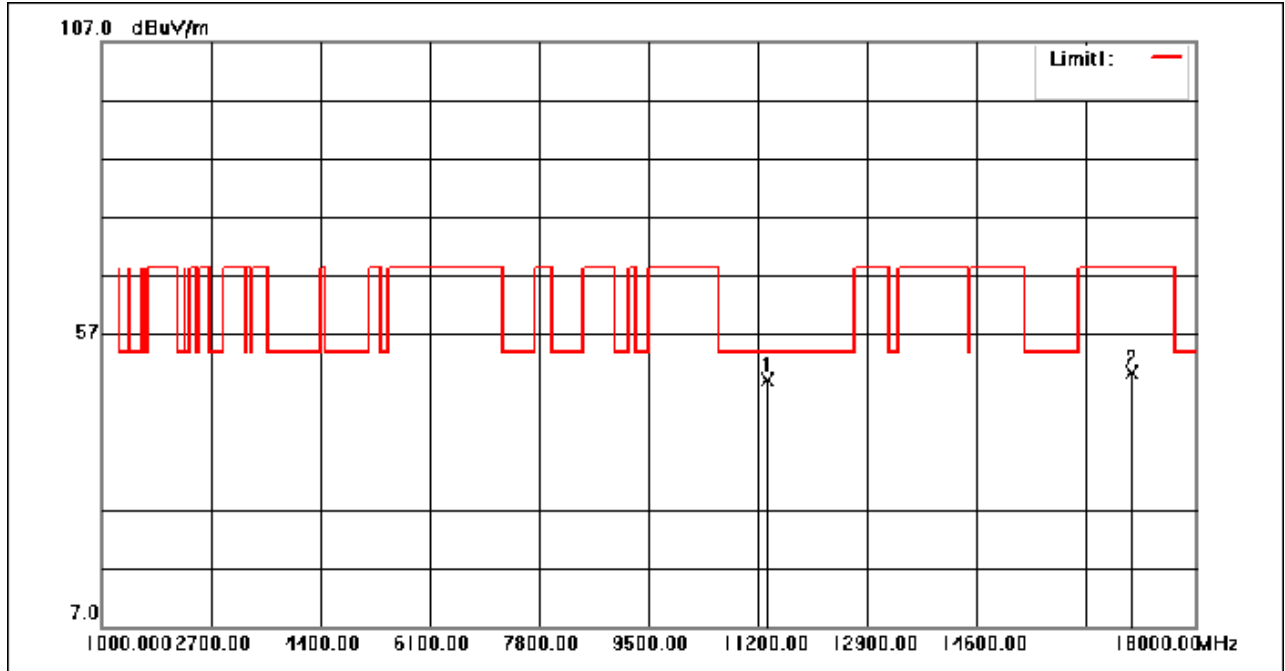


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	48.39	0.82	49.21	54.00	-4.79	peak
2	17010.000	41.10	9.18	50.28	68.30	-18.02	peak

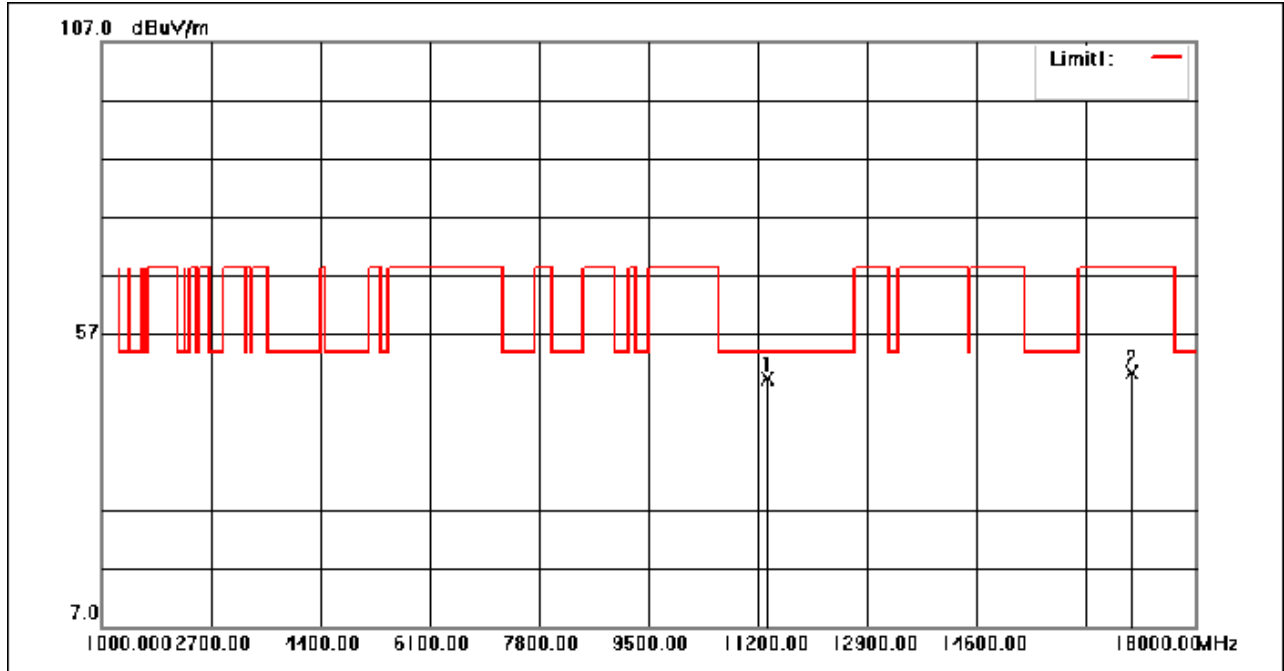


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	48.51	0.82	49.33	54.00	-4.67	peak
2	17010.000	41.16	9.18	50.34	68.30	-17.96	peak



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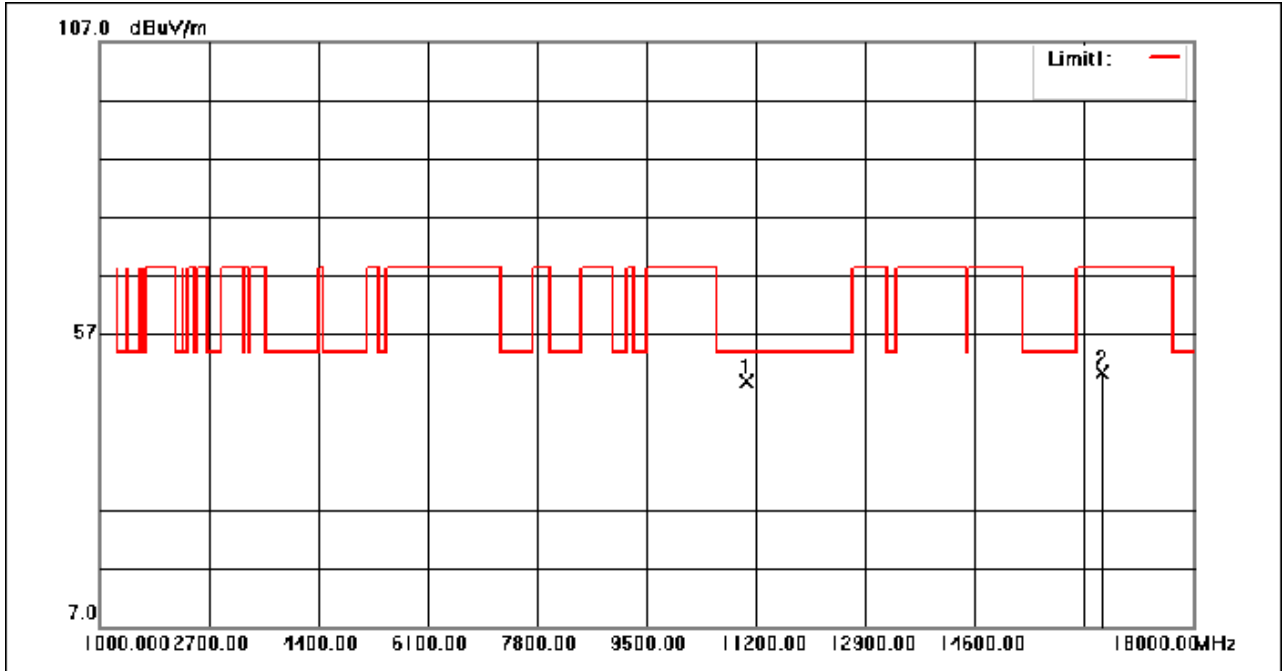
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	48.26	0.59	48.85	54.00	-5.15	peak
2	16590.000	41.83	8.56	50.39	68.30	-17.91	peak

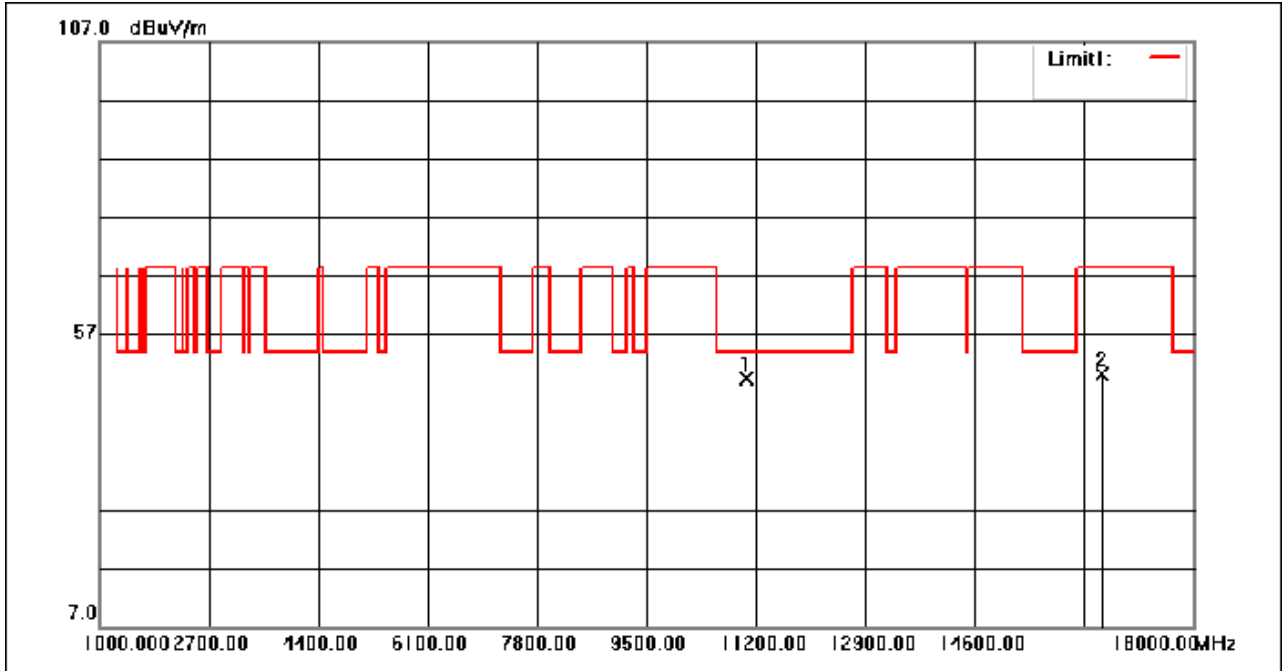


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	48.78	0.59	49.37	54.00	-4.63	peak
2	16590.000	41.56	8.56	50.12	68.30	-18.18	peak



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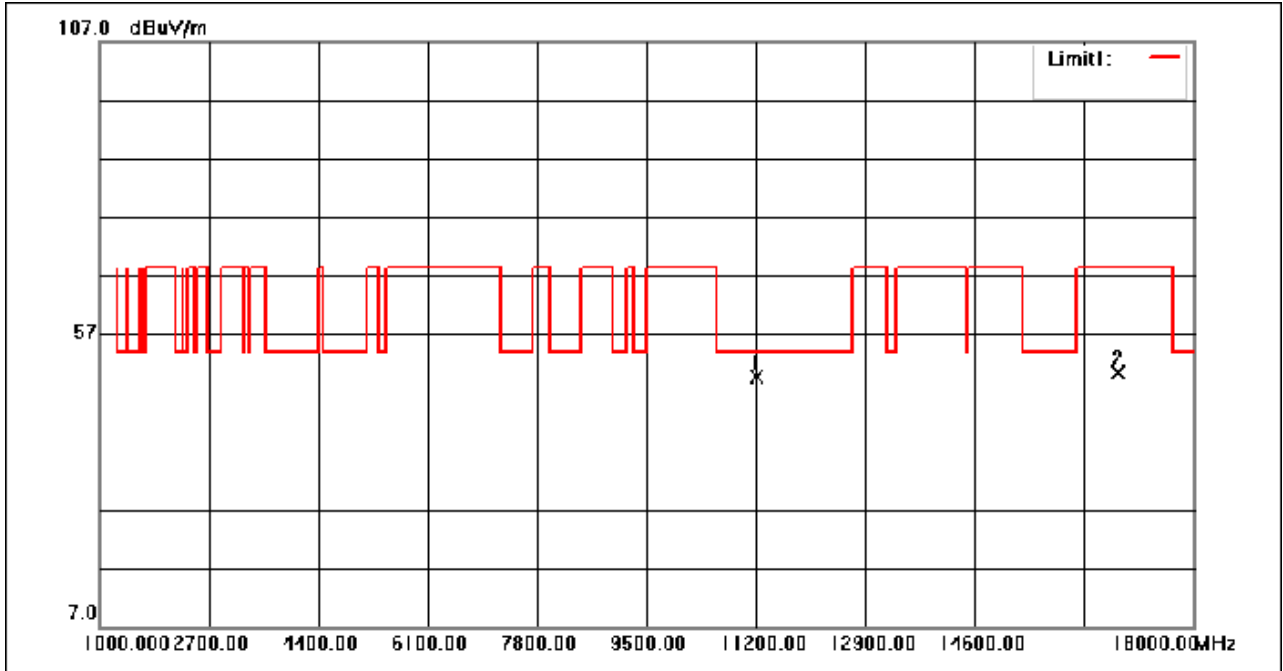
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 65 of 196

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	48.83	0.72	49.55	54.00	-4.45	peak
2	16830.000	41.49	8.93	50.42	68.30	-17.88	peak



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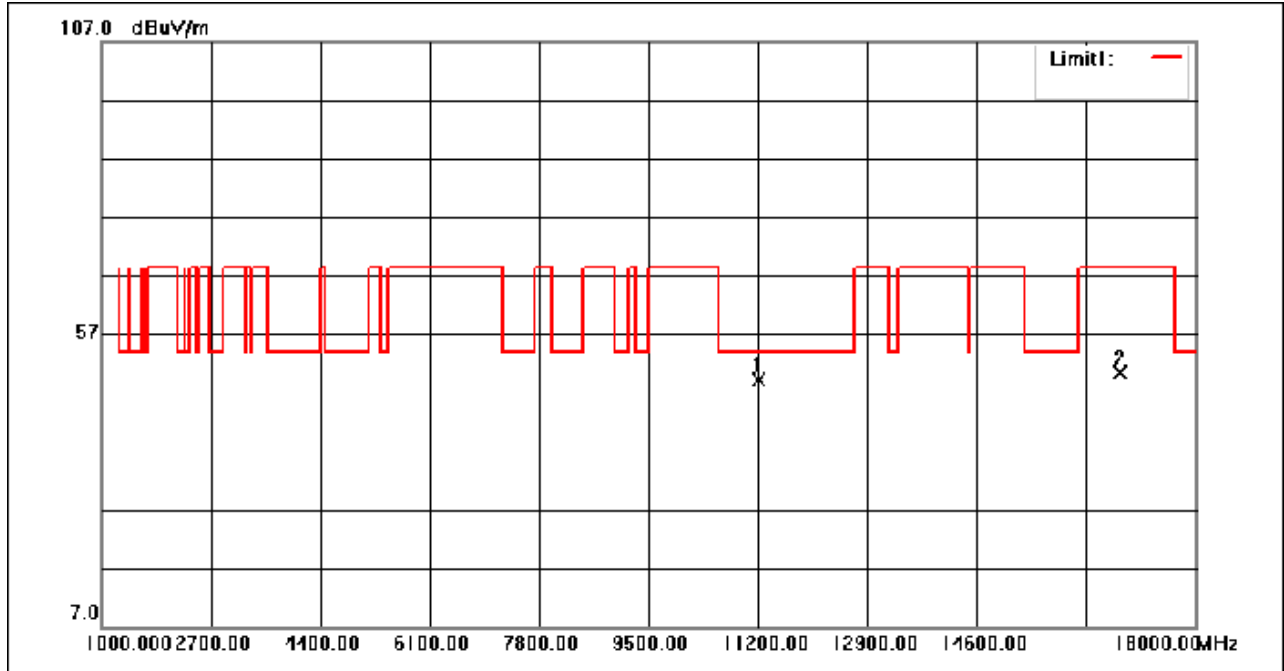
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 66 of 196

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	48.41	0.72	49.13	54.00	-4.87	peak
2	16830.000	41.43	8.93	50.36	68.30	-17.94	peak



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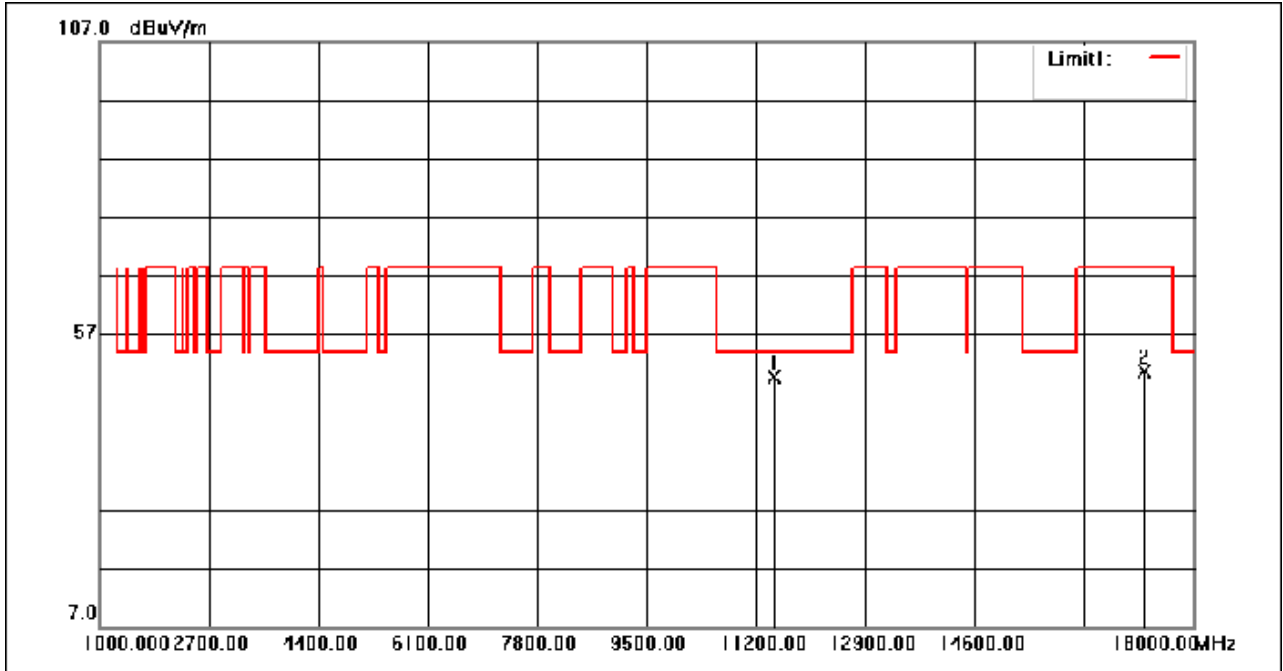
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.74	0.94	49.68	54.00	-4.32	peak
2	17235.000	41.60	9.05	50.65	68.30	-17.65	peak



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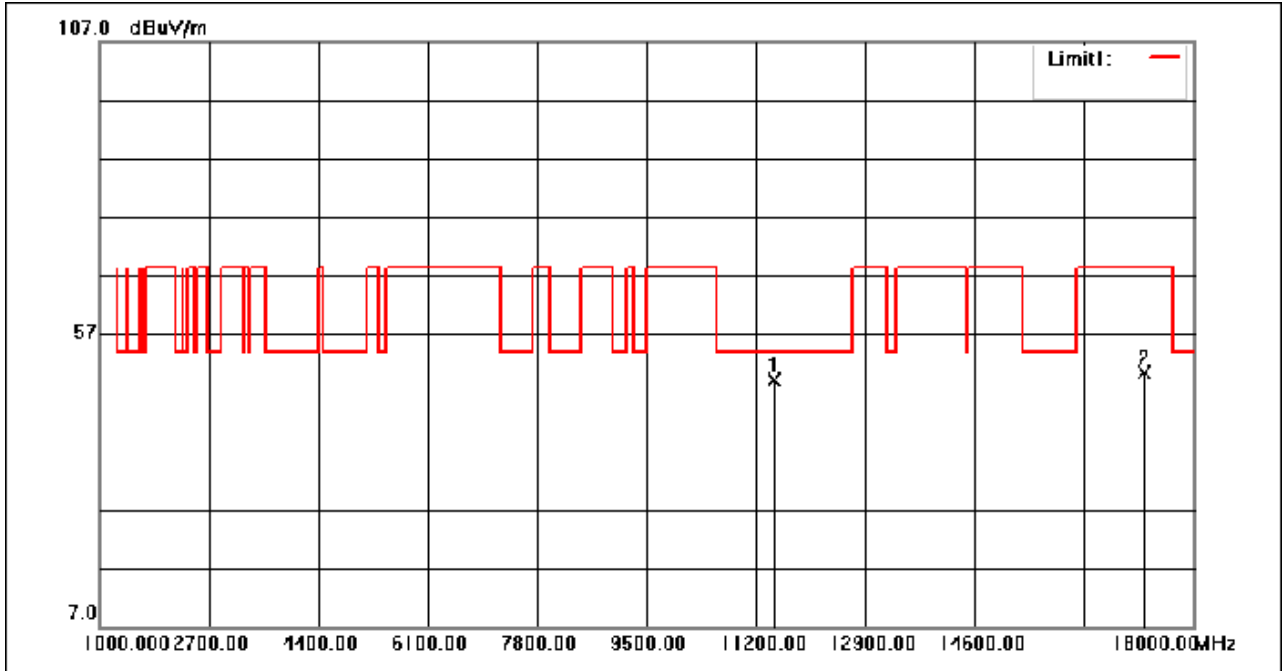
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 68 of 196

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.20	0.94	49.14	54.00	-4.86	peak
2	17235.000	41.44	9.05	50.49	68.30	-17.81	peak

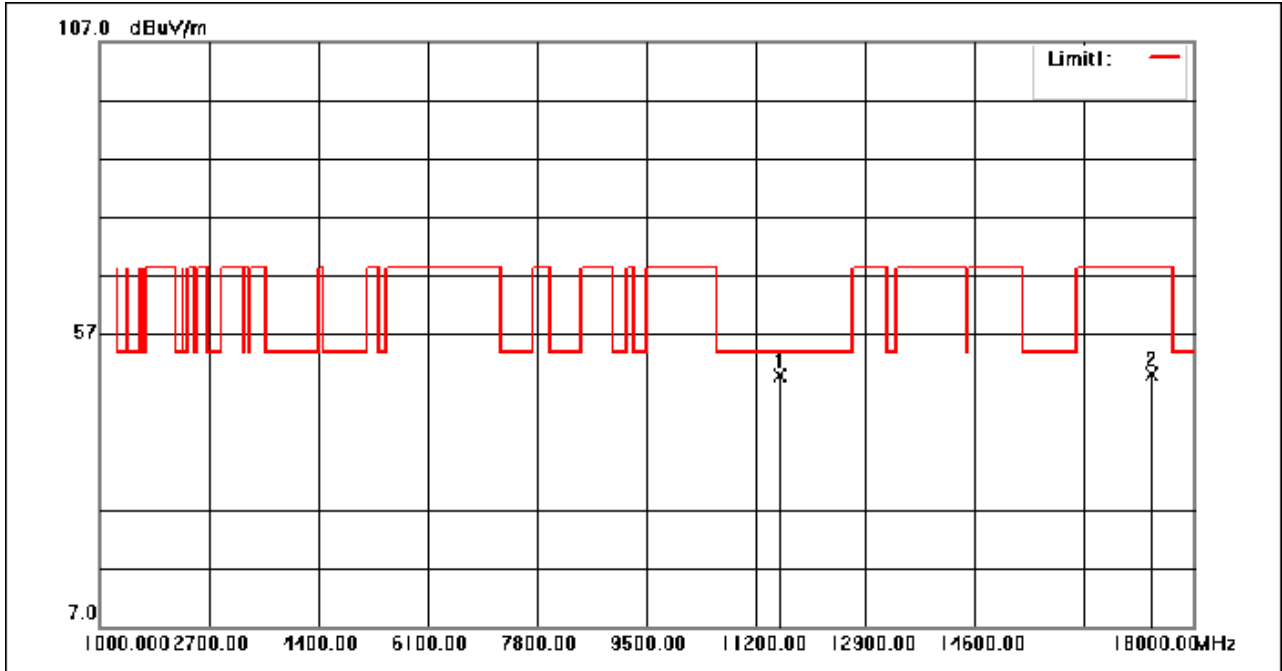


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.63	1.18	49.81	54.00	-4.19	peak
2	17355.000	41.14	8.98	50.12	68.30	-18.18	peak

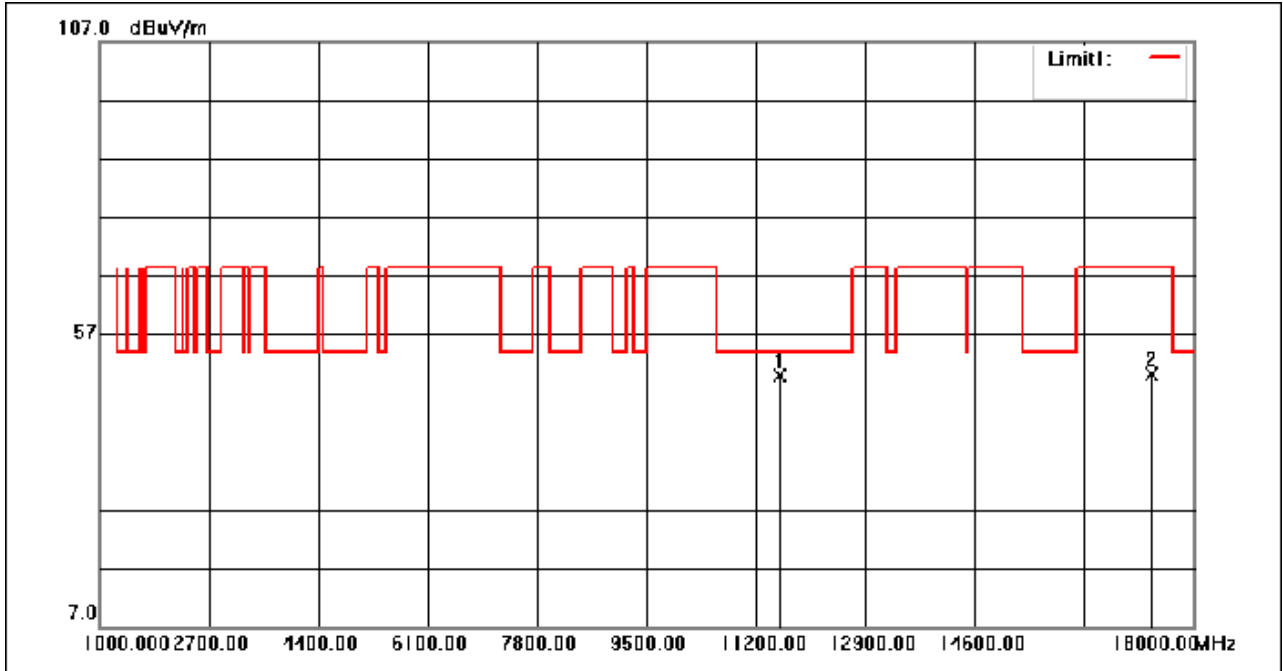


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.72	1.18	49.90	54.00	-4.10	peak
2	17355.000	41.14	8.98	50.12	68.30	-18.18	peak



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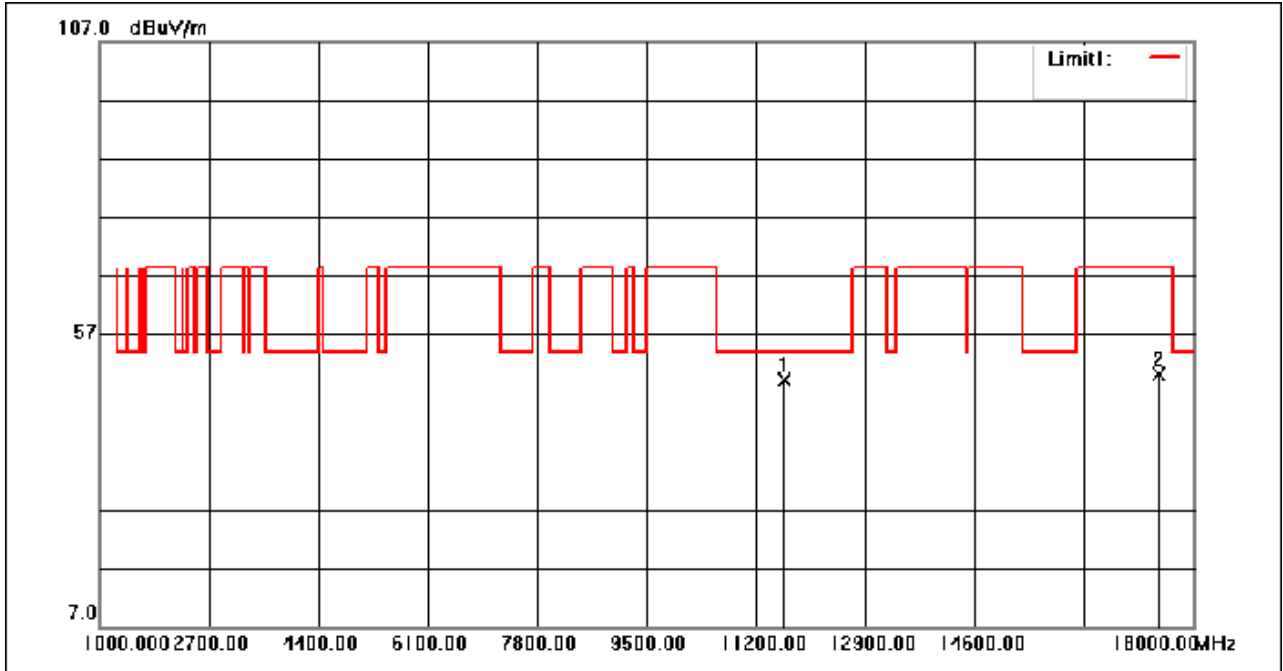
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 71 of 196

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.80	1.45	49.25	54.00	-4.75	peak
2	17475.000	41.29	8.90	50.19	68.30	-18.11	peak



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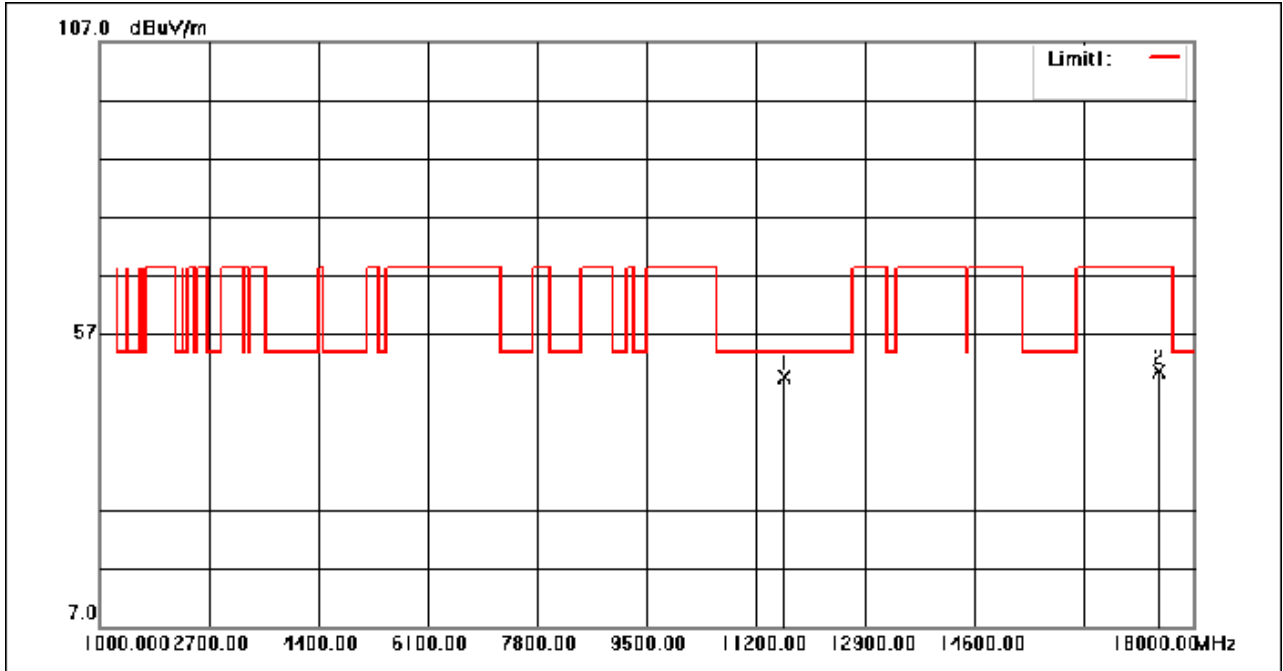
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.06	1.45	49.51	54.00	-4.49	peak
2	17475.000	41.73	8.90	50.63	68.30	-17.67	peak



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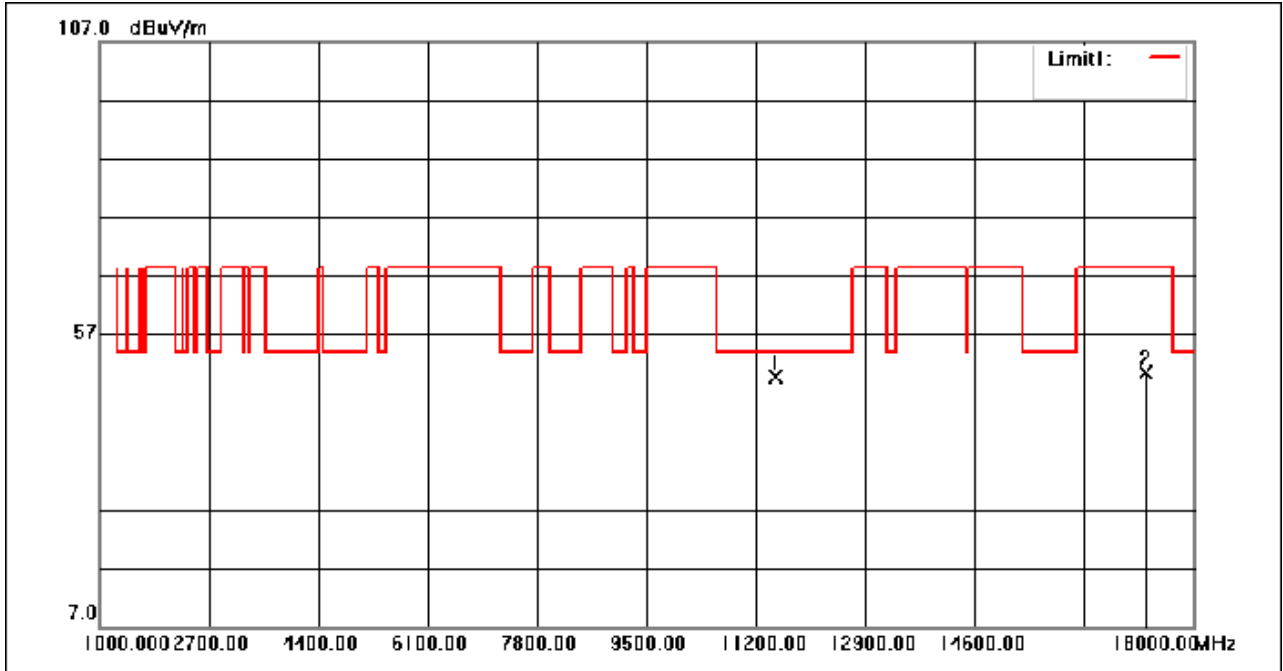
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.53	0.99	49.52	54.00	-4.48	peak
2	17265.000	41.31	9.03	50.34	68.30	-17.96	peak



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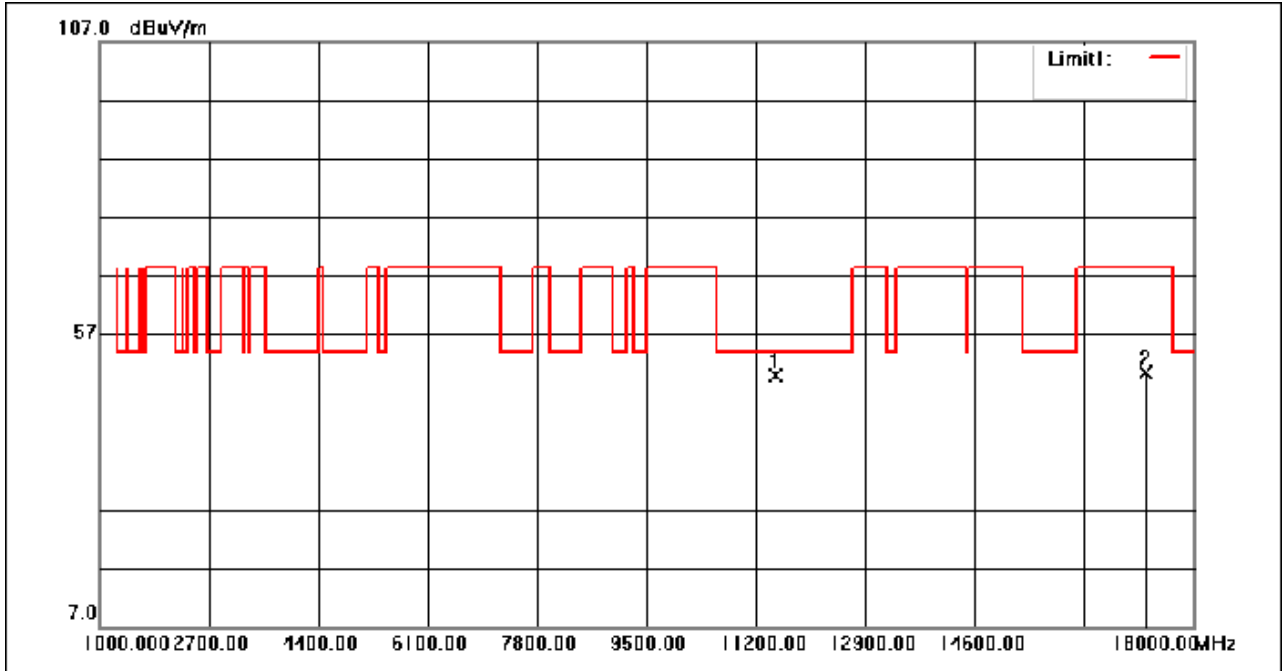
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.99	0.99	49.98	54.00	-4.02	peak
2	17265.000	41.33	9.03	50.36	68.30	-17.94	peak



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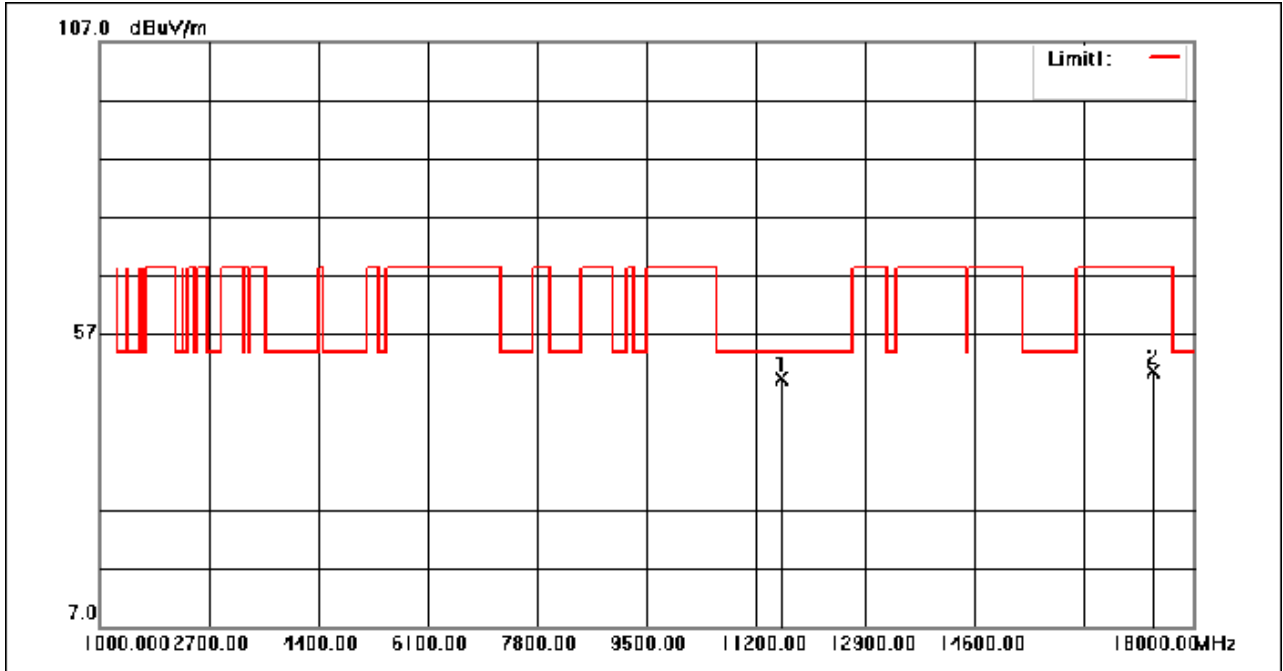
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.11	1.25	49.36	54.00	-4.64	peak
2	17385.000	41.60	8.96	50.56	68.30	-17.74	peak



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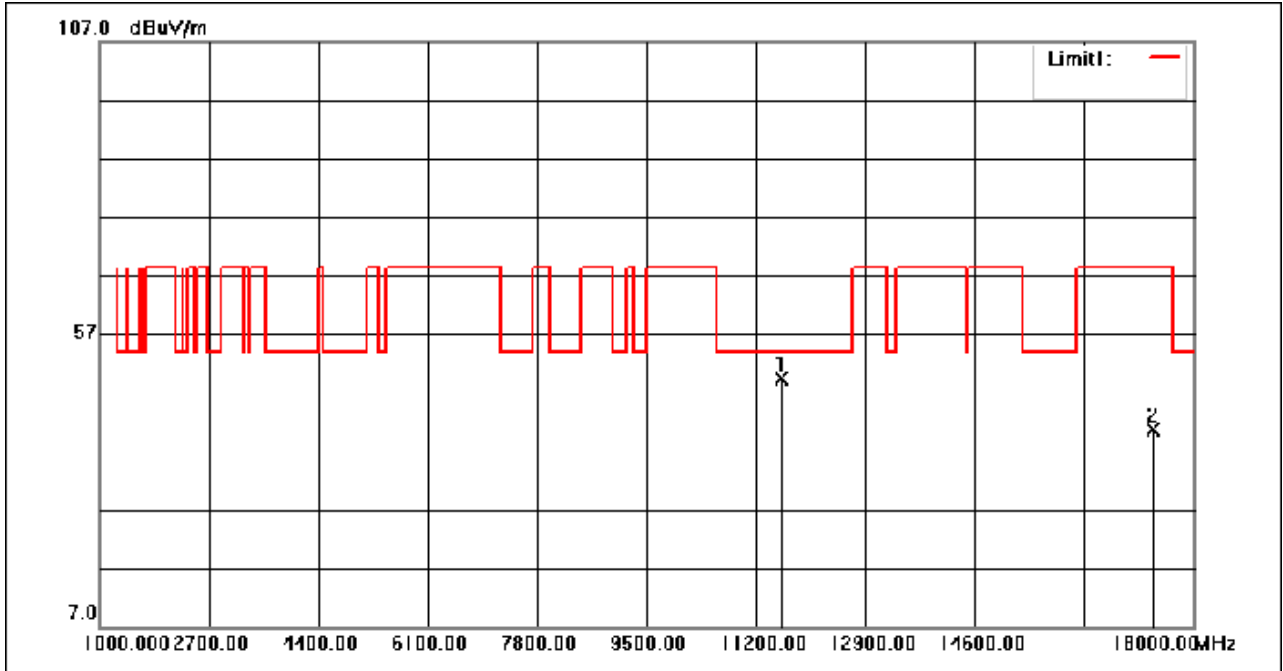
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.17	1.25	49.42	54.00	-4.58	peak
2	17385.000	31.63	8.96	40.59	68.30	-27.71	peak



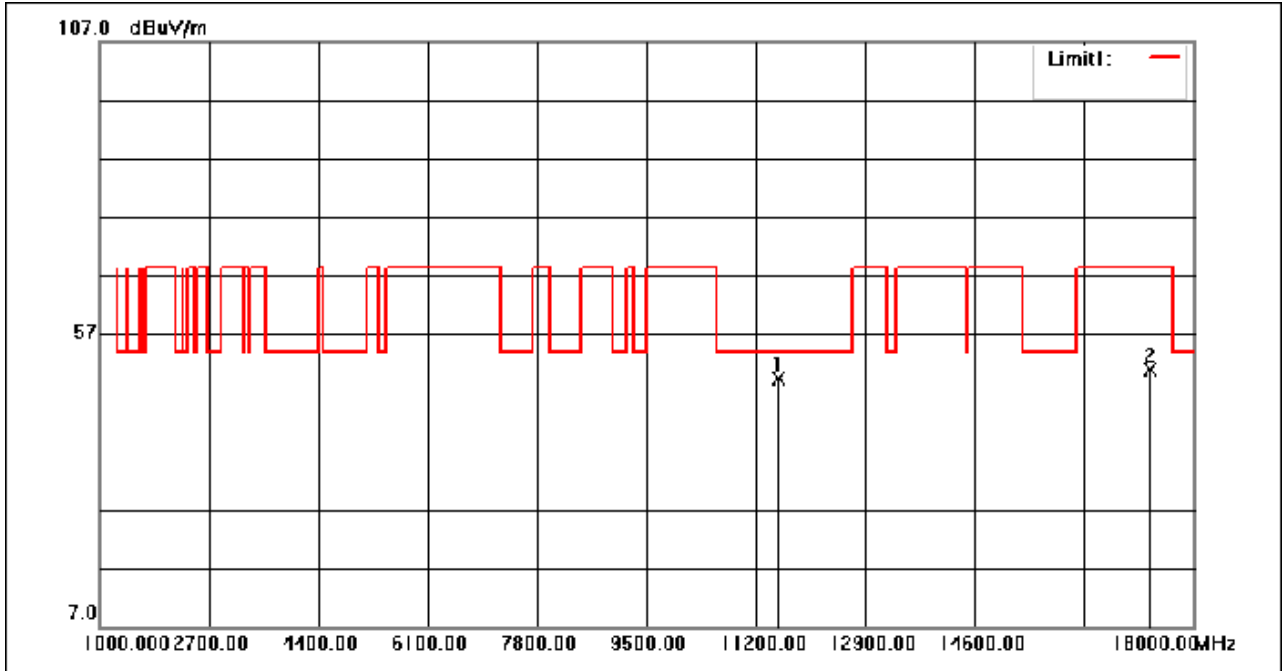
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	48.34	1.12	49.46	54.00	-4.54	peak
2	17325.000	41.87	8.99	50.86	68.30	-17.44	peak



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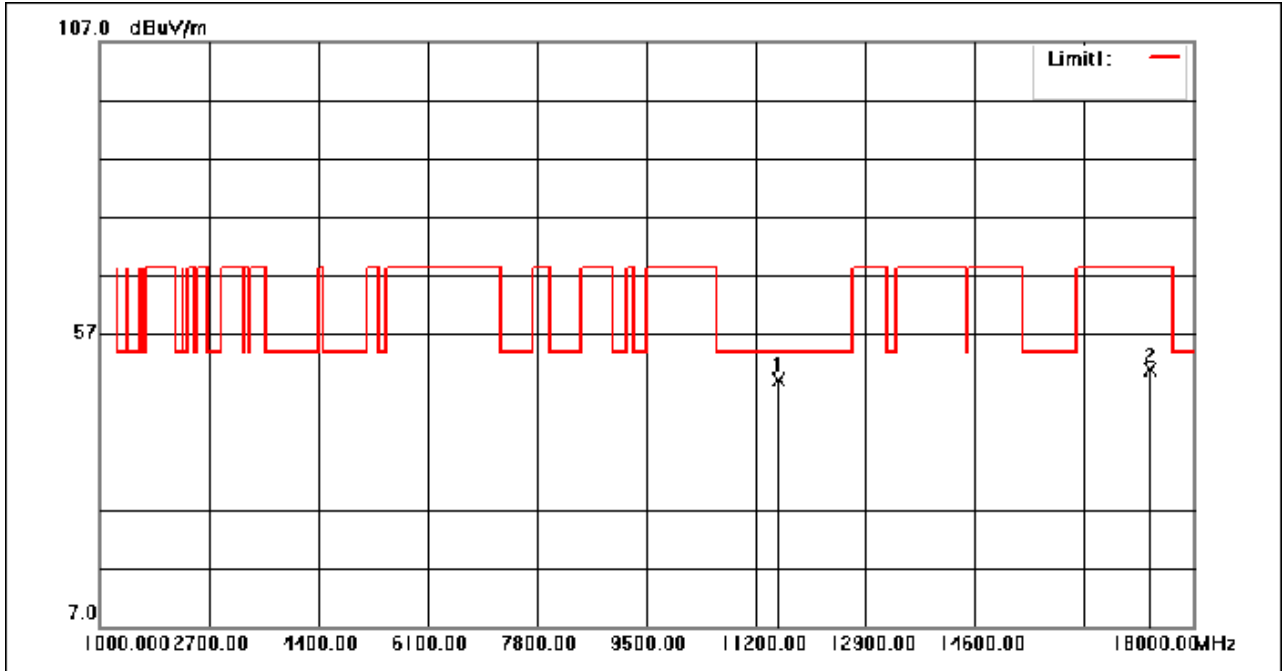
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	47.97	1.12	49.09	54.00	-4.91	peak
2	17325.000	41.92	8.99	50.91	68.30	-17.39	peak



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7.8 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: KDB 789033 D02 II G

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 58.0 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data

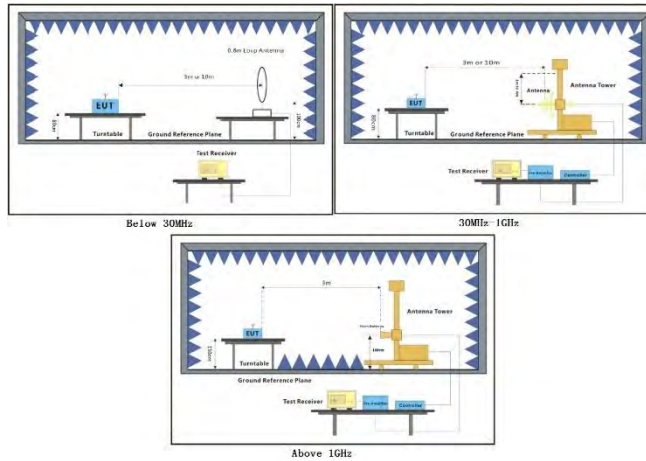


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		rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_ Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_ Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_ Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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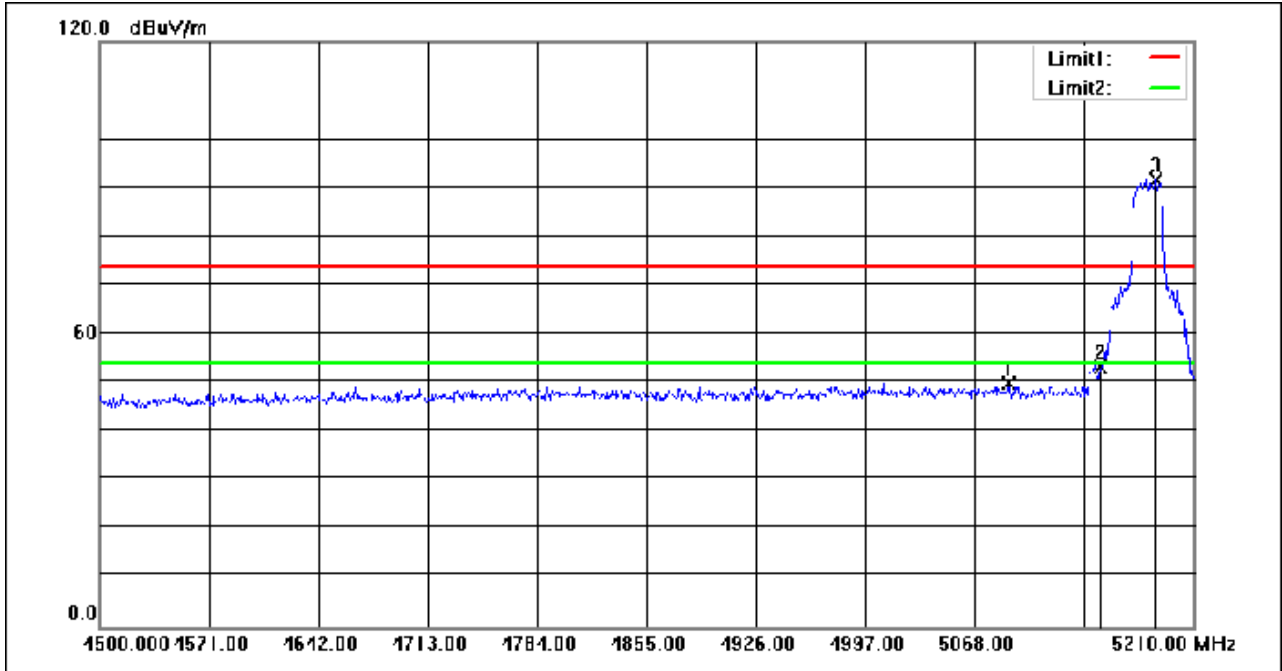
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5090.010	60.66	-10.63	50.03	74.00	-23.97	peak
2	5150.000	63.78	-10.64	53.14	74.00	-20.86	peak
3	5185.860	102.43	-10.65	91.78	74.00	17.78	peak



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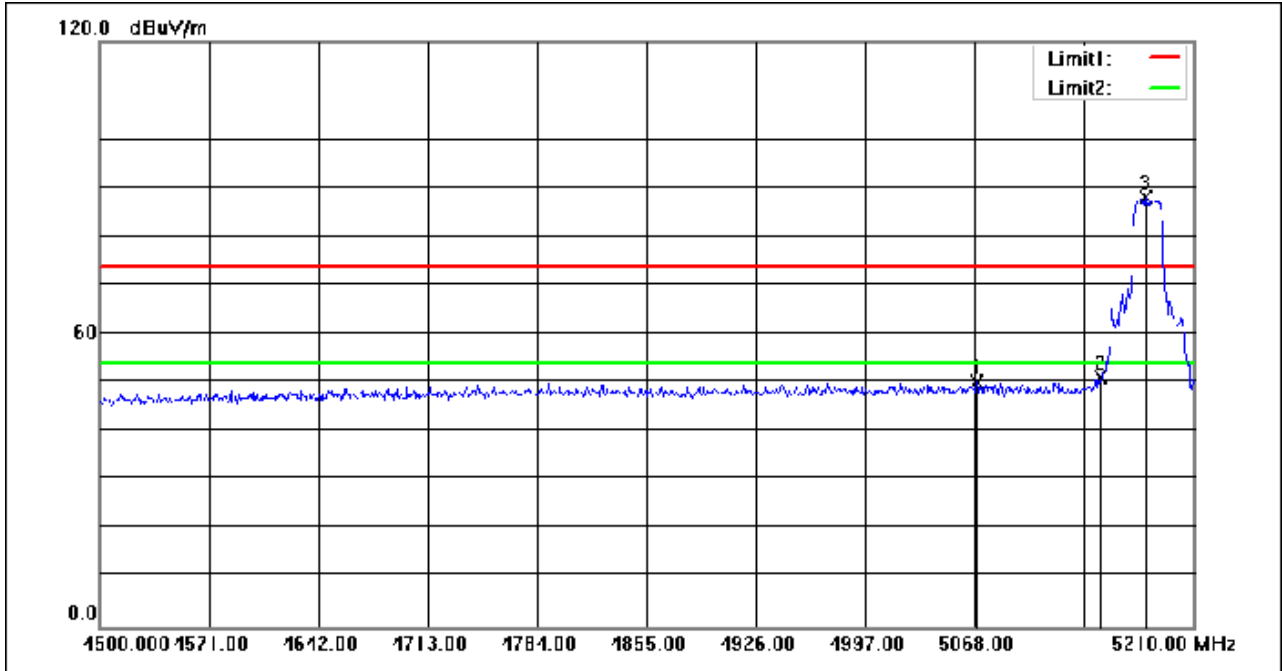
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Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5069.420	60.79	-10.62	50.17	74.00	-23.83	peak
2	5150.000	61.82	-10.64	51.18	74.00	-22.82	peak
3	5178.760	98.66	-10.64	88.02	74.00	14.02	peak



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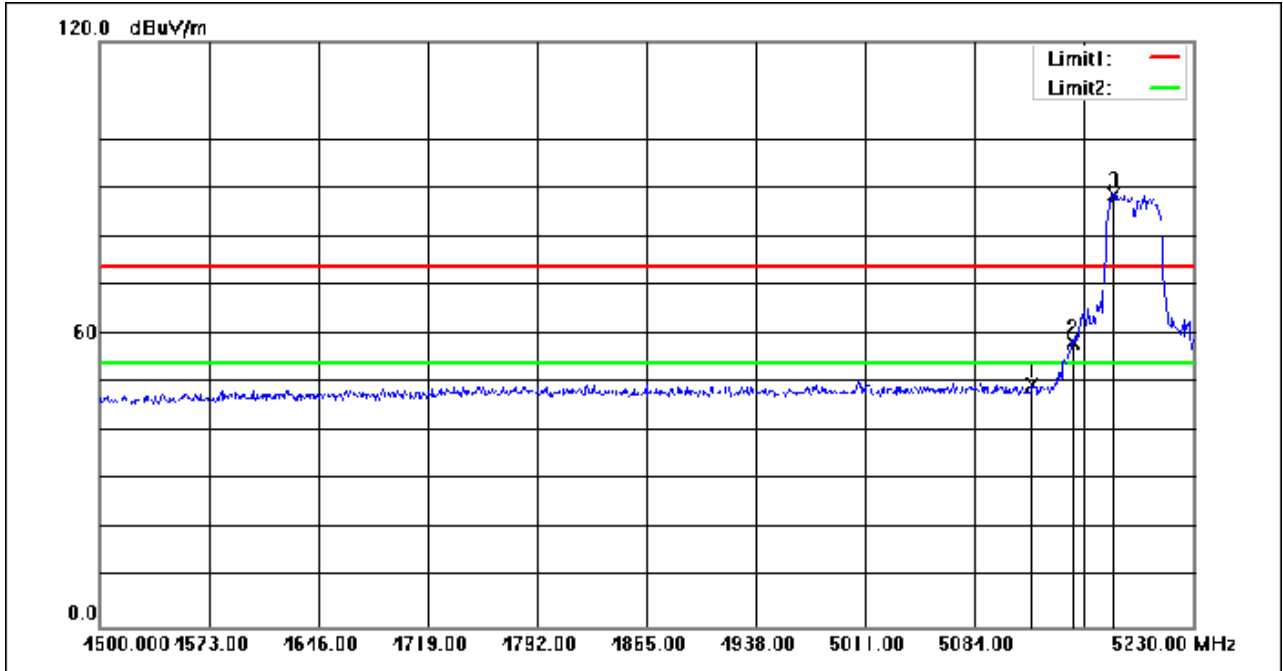
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5121.960	60.36	-10.63	49.73	74.00	-24.27	peak
2	5150.000	68.92	-10.64	58.28	74.00	-15.72	peak
3	5176.710	99.44	-10.64	88.80	74.00	14.80	peak



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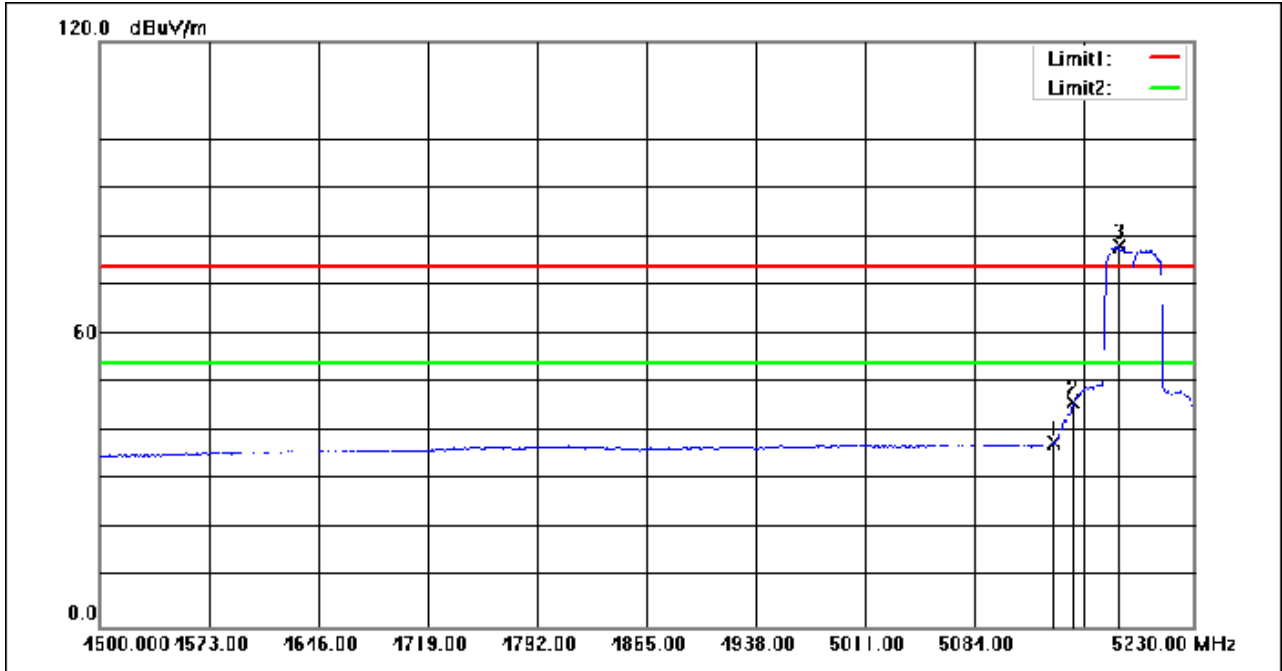
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.560	48.36	-10.64	37.72	54.00	-16.28	AVG
2	5150.000	56.64	-10.64	46.00	54.00	-8.00	AVG
3	5180.360	88.74	-10.64	78.10	54.00	24.10	AVG



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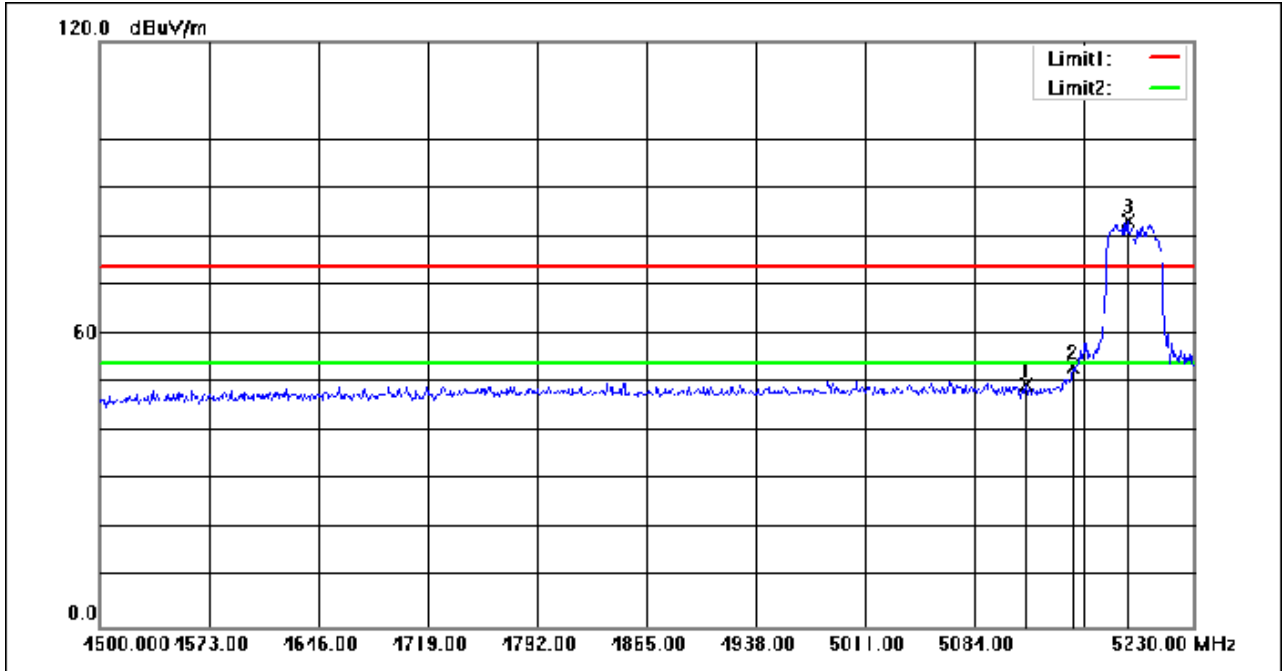
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 86 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5118.310	60.36	-10.63	49.73	74.00	-24.27	peak
2	5150.000	63.95	-10.64	53.31	74.00	-20.69	peak
3	5186.200	93.82	-10.65	83.17	74.00	9.17	peak



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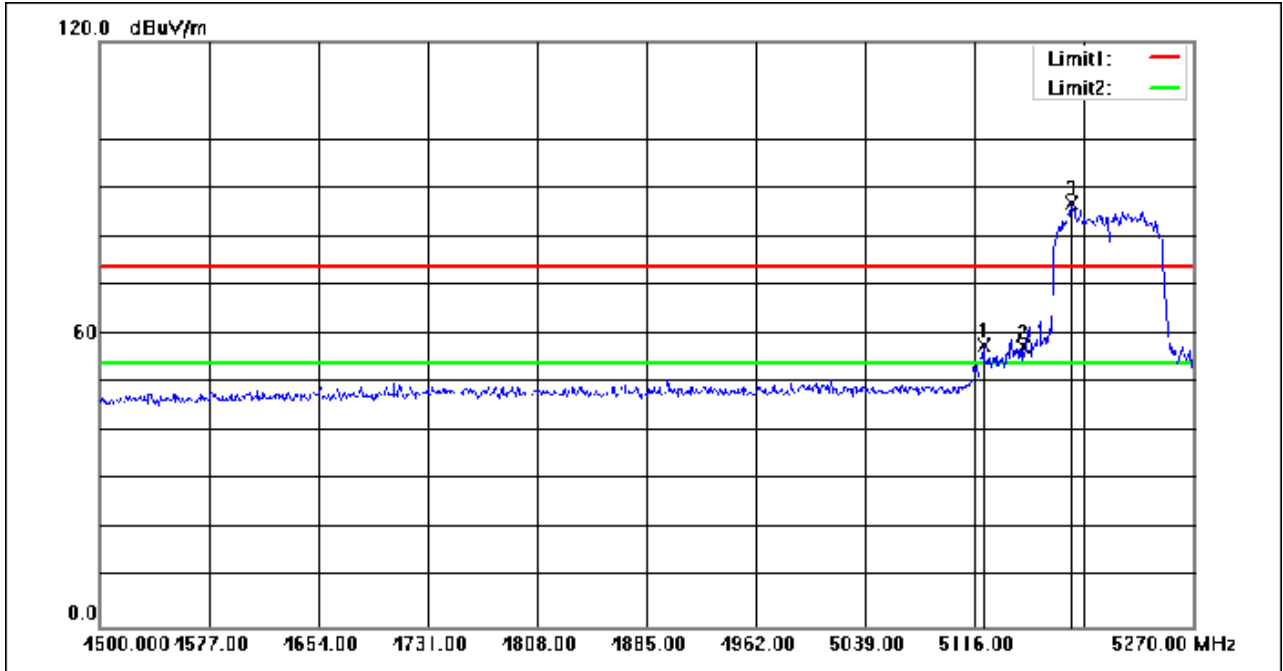
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 87 of 196

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5122.160	68.45	-10.63	57.82	74.00	-16.18	peak
2	5150.000	68.23	-10.64	57.59	74.00	-16.41	peak
3	5184.530	97.46	-10.64	86.82	74.00	12.82	peak



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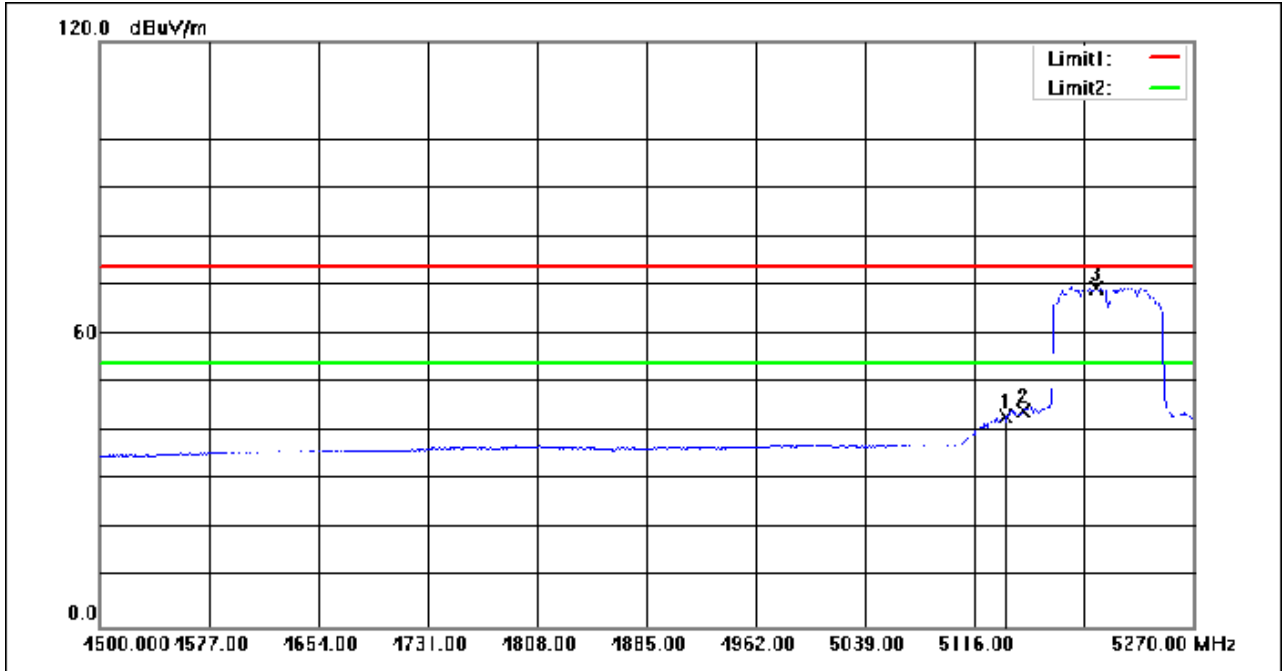
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 88 of 196

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5138.330	53.70	-10.64	43.06	54.00	-10.94	AVG
2	5150.000	55.02	-10.64	44.38	54.00	-9.62	AVG
3	5201.470	80.15	-10.65	69.50	54.00	15.50	AVG



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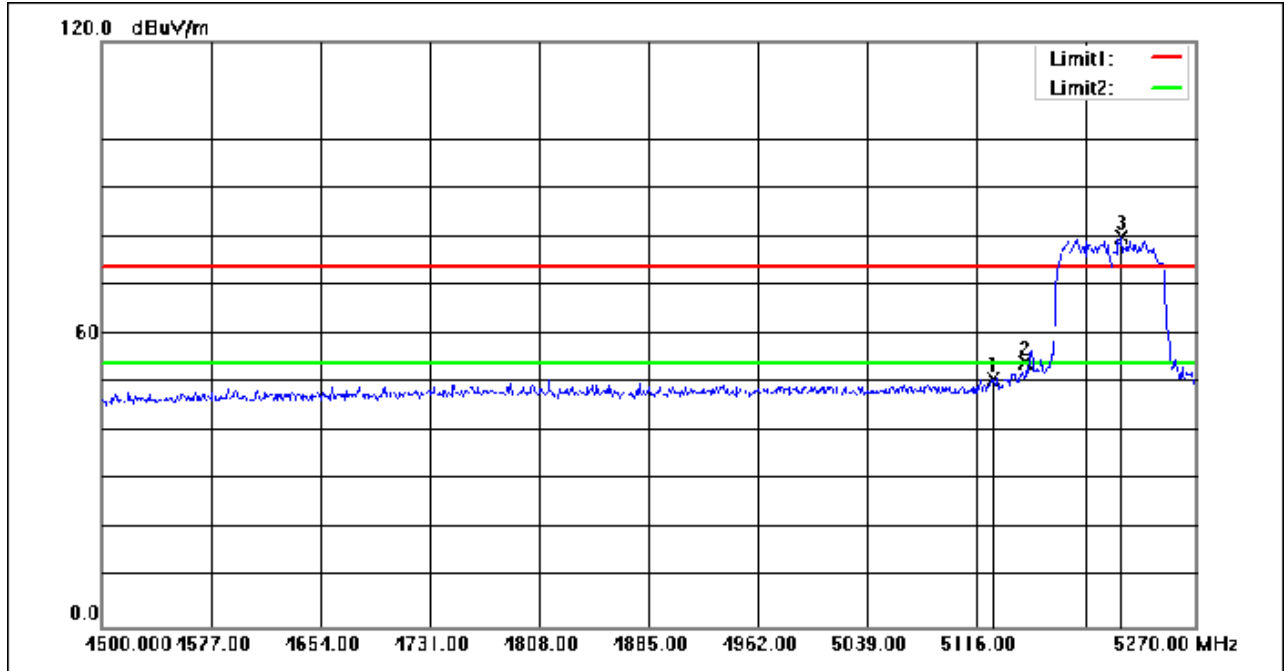
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 89 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5127.550	61.51	-10.63	50.88	74.00	-23.12	peak
2	5150.000	64.87	-10.64	54.23	74.00	-19.77	peak
3	5218.410	90.59	-10.56	80.03	74.00	6.03	peak



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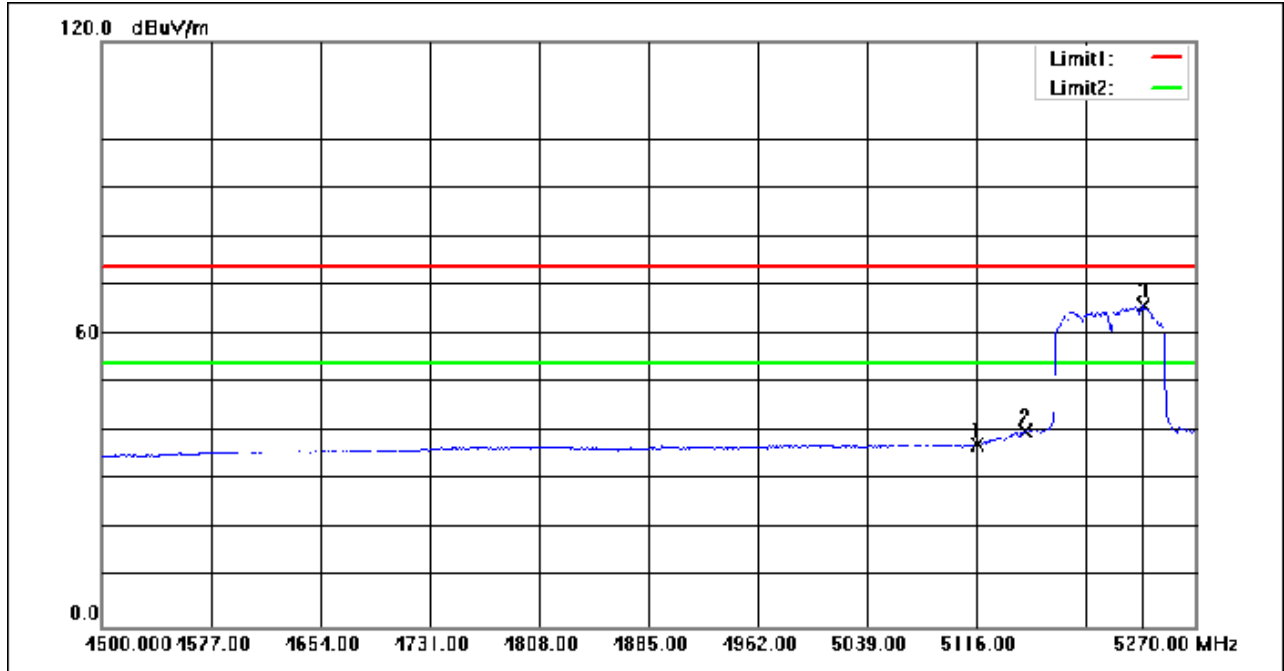
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 90 of 196

Test Mode: 00; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5116.000	48.13	-10.63	37.50	54.00	-16.50	AVG
2	5150.000	50.58	-10.64	39.94	54.00	-14.06	AVG
3	5233.040	76.24	-10.49	65.75	54.00	11.75	AVG

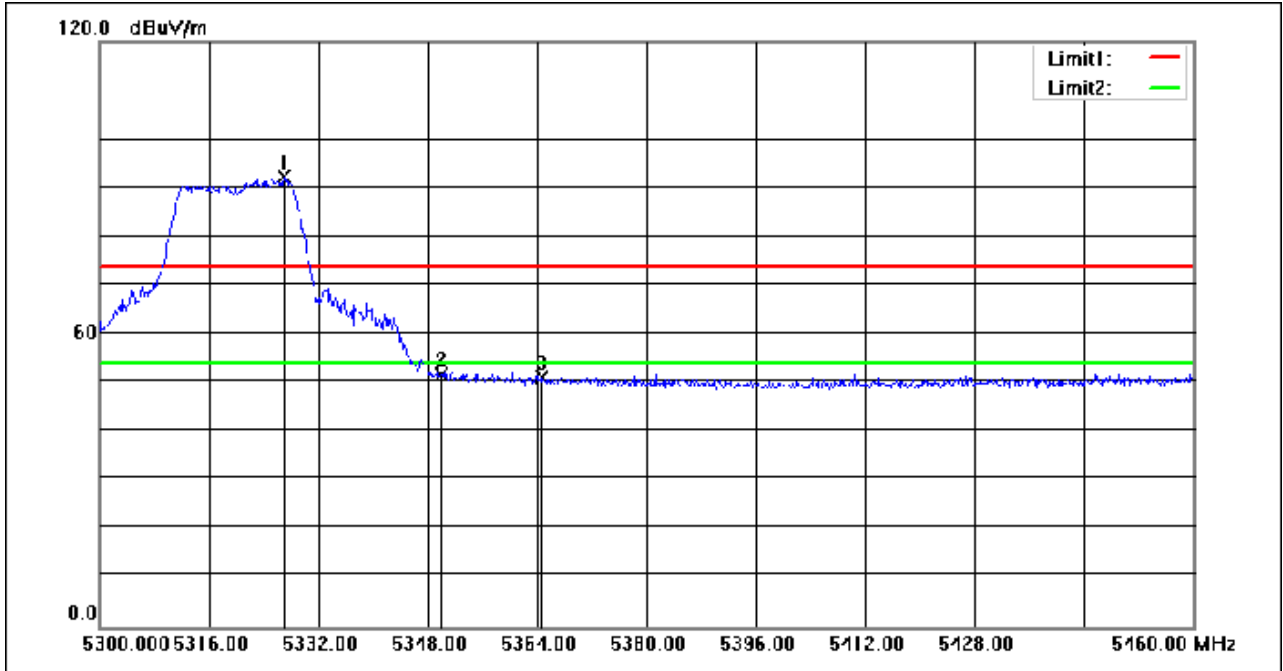


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5326.880	102.26	-10.05	92.21	74.00	18.21	peak
2	5350.000	61.68	-9.94	51.74	74.00	-22.26	peak
3	5364.640	61.14	-9.87	51.27	74.00	-22.73	peak

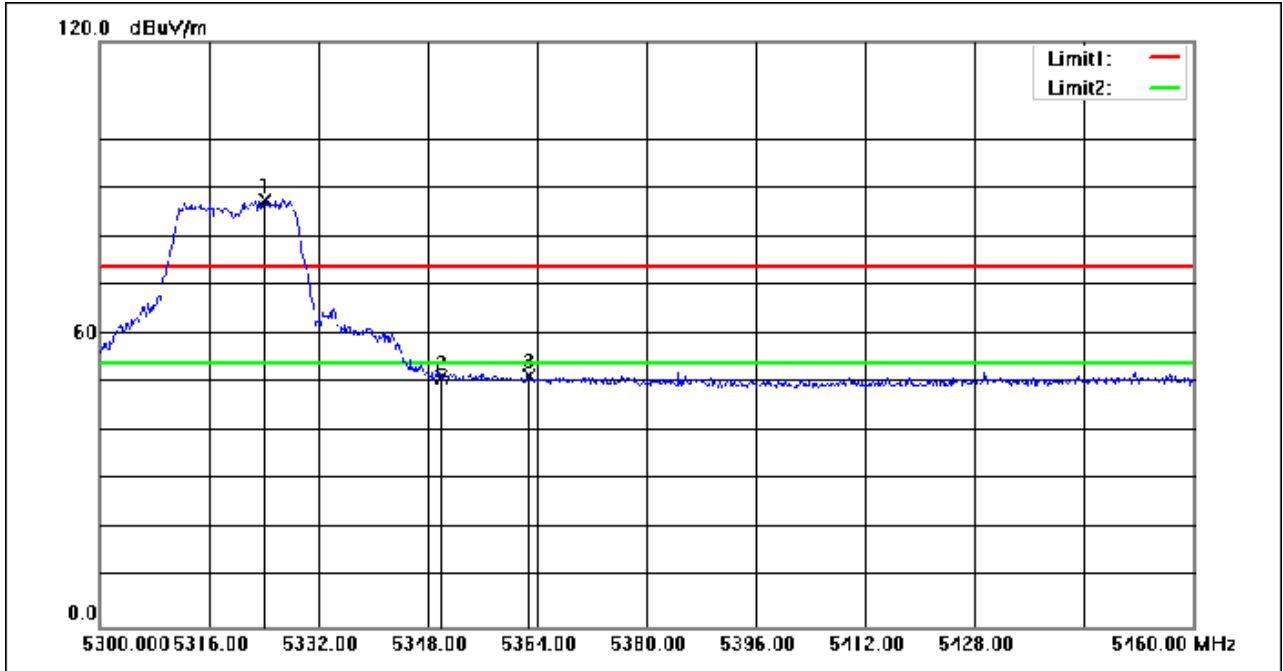


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.160	97.43	-10.06	87.37	74.00	13.37	peak
2	5350.000	60.98	-9.94	51.04	74.00	-22.96	peak
3	5362.720	61.20	-9.88	51.32	74.00	-22.68	peak

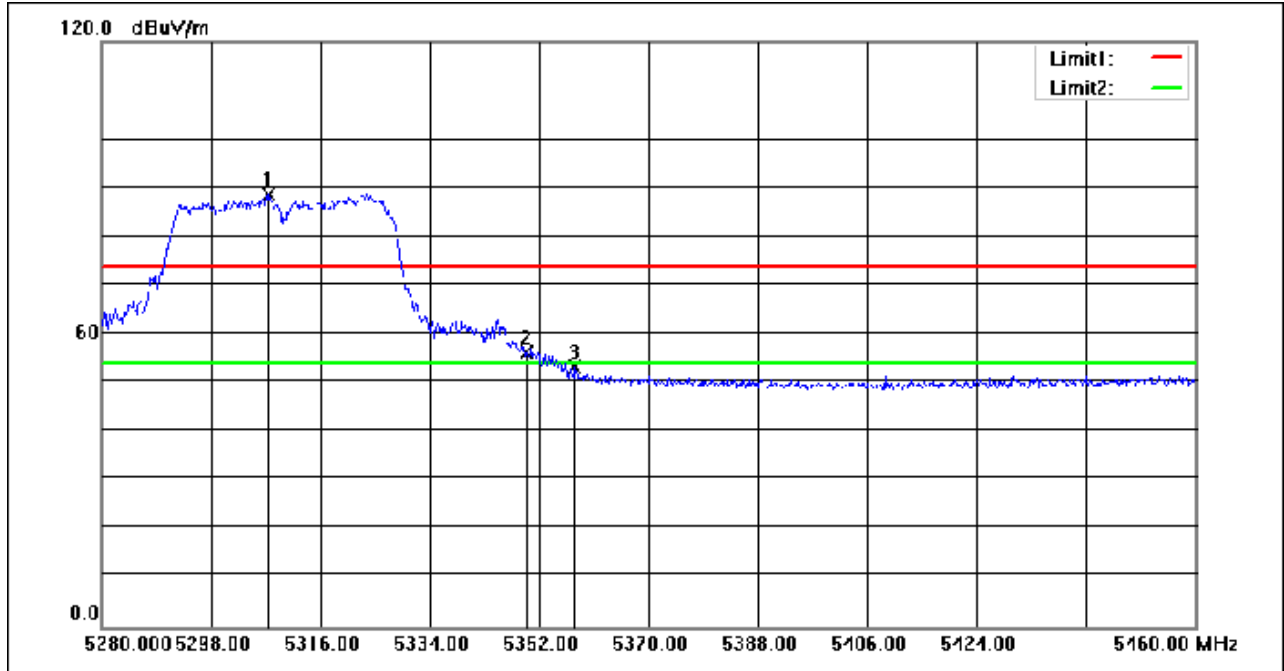


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.540	98.81	-10.14	88.67	74.00	14.67	peak
2	5350.000	66.11	-9.94	56.17	74.00	-17.83	peak
3	5357.940	63.16	-9.90	53.26	74.00	-20.74	peak

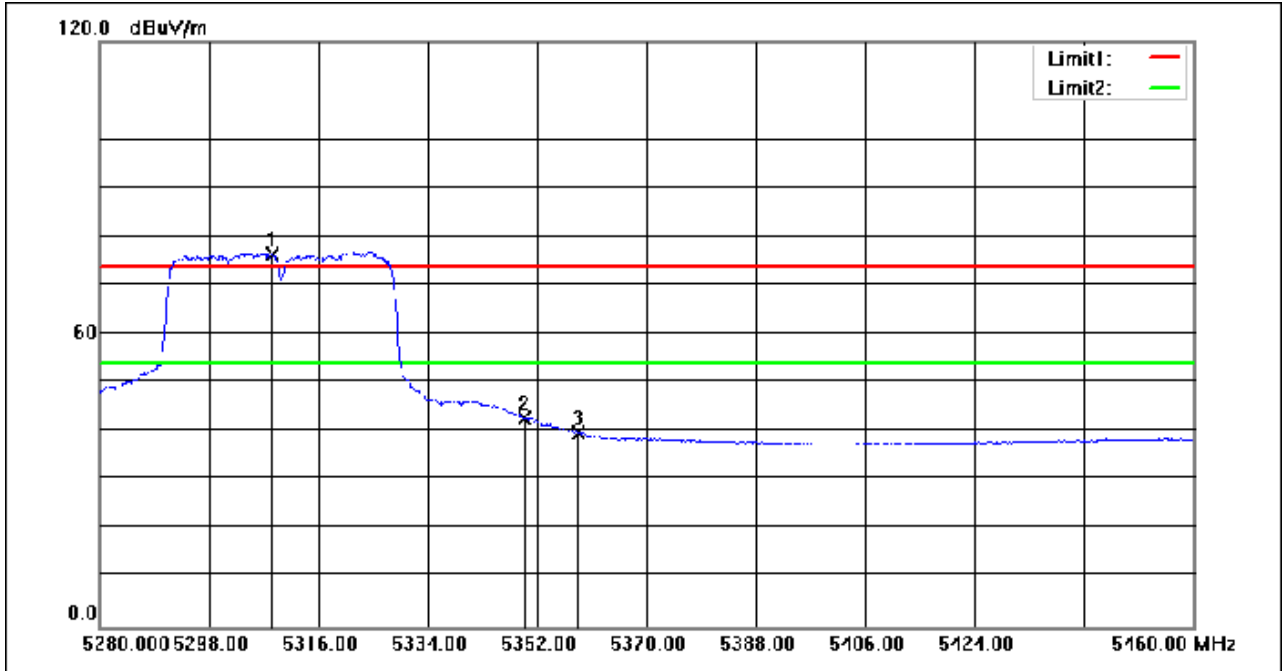


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



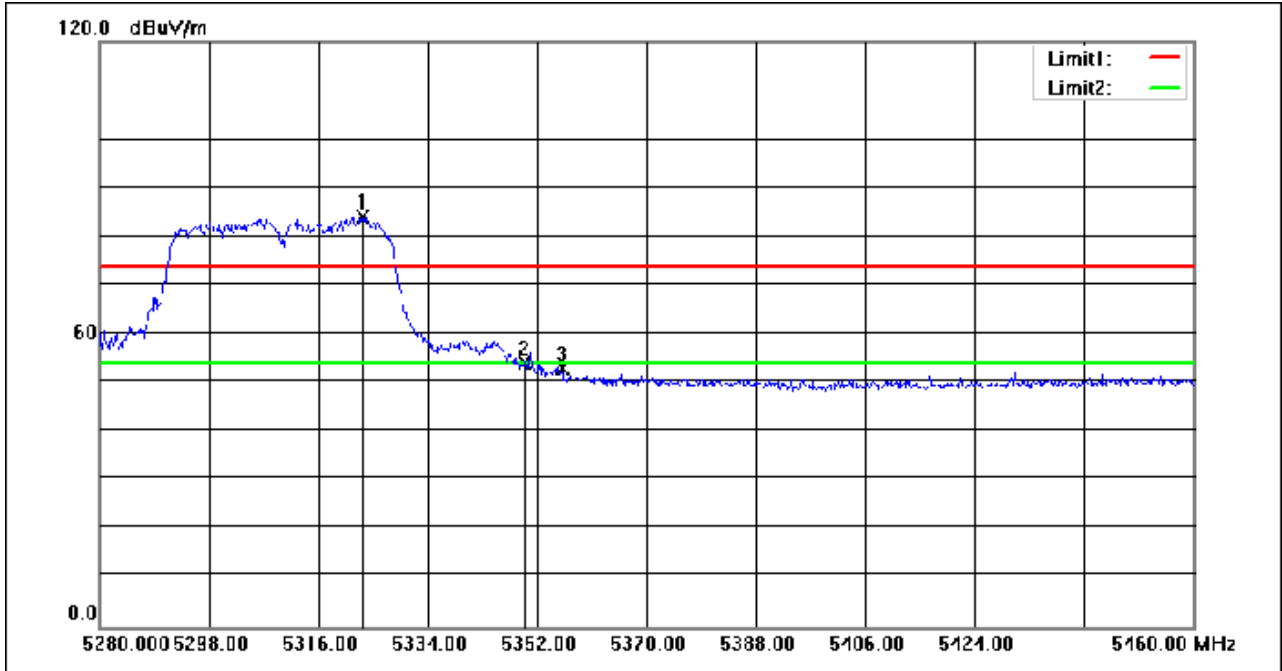
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5308.440	86.54	-10.13	76.41	54.00	22.41	AVG
2	5350.000	52.76	-9.94	42.82	54.00	-11.18	AVG
3	5358.840	49.73	-9.89	39.84	54.00	-14.16	AVG



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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.200	94.20	-10.07	84.13	74.00	10.13	peak
2	5350.000	64.07	-9.94	54.13	74.00	-19.87	peak
3	5356.140	62.81	-9.91	52.90	74.00	-21.10	peak

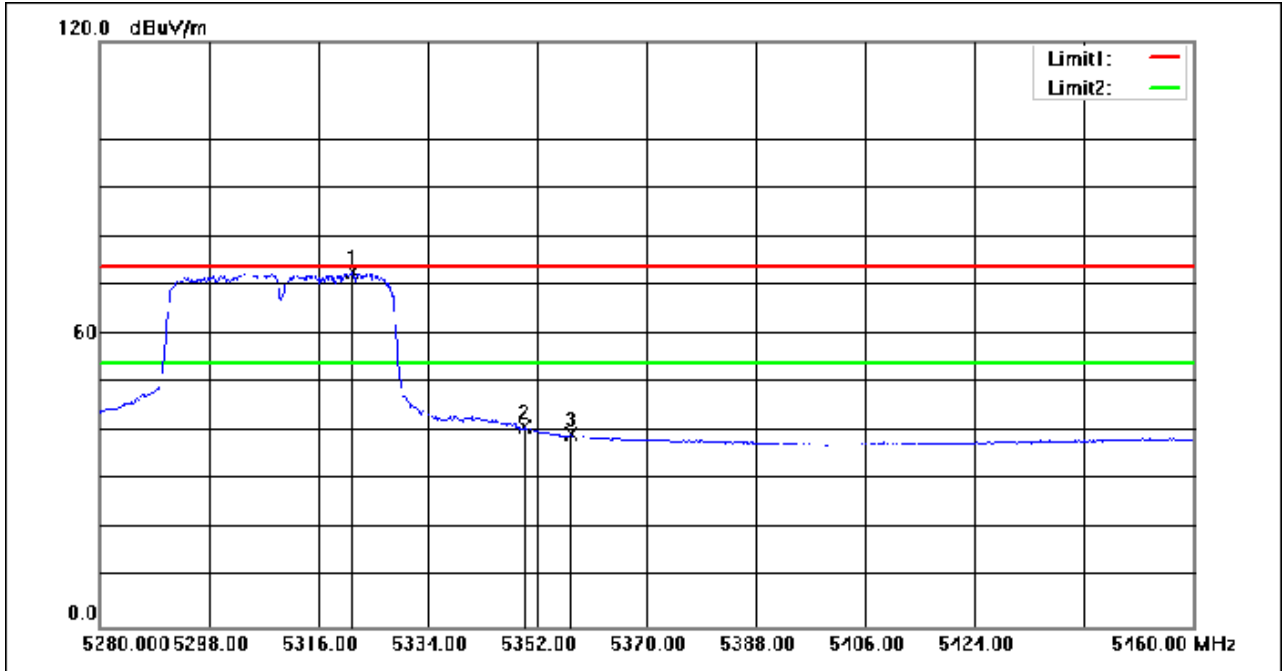


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5321.580	82.89	-10.07	72.82	54.00	18.82	AVG
2	5350.000	50.81	-9.94	40.87	54.00	-13.13	AVG
3	5357.580	49.45	-9.90	39.55	54.00	-14.45	AVG



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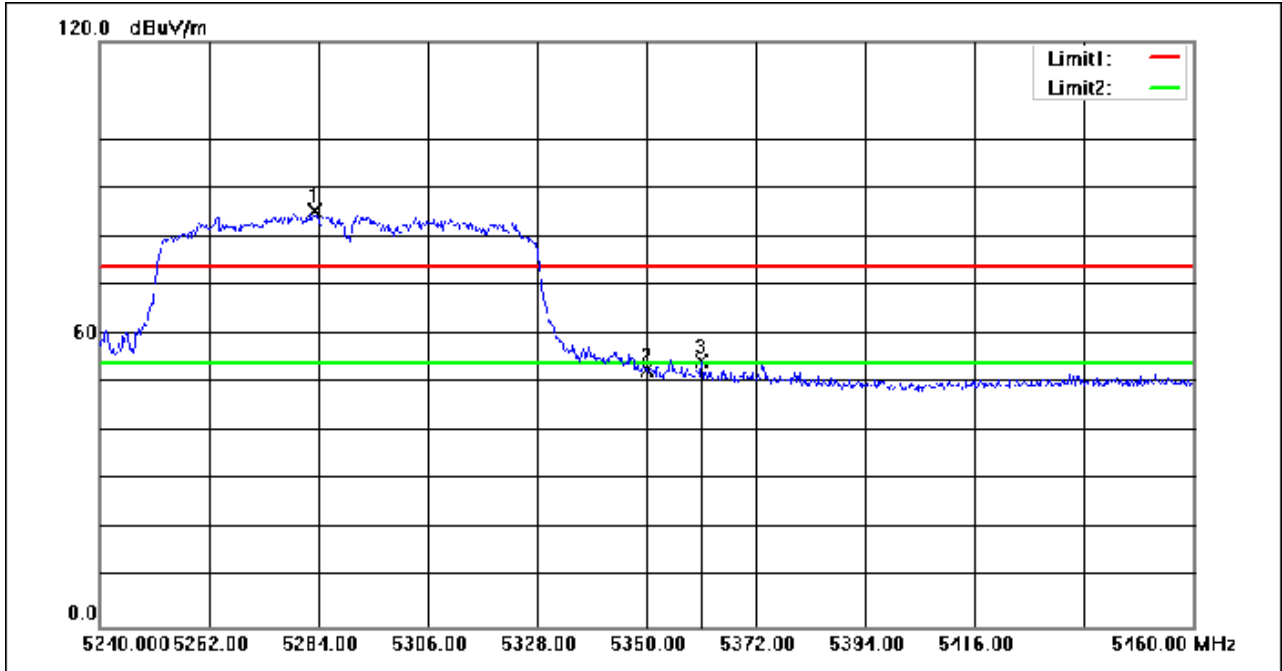
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 97 of 196

Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5283.340	95.59	-10.26	85.33	74.00	11.33	peak
2	5350.000	62.63	-9.94	52.69	74.00	-21.31	peak
3	5361.000	64.48	-9.89	54.59	74.00	-19.41	peak

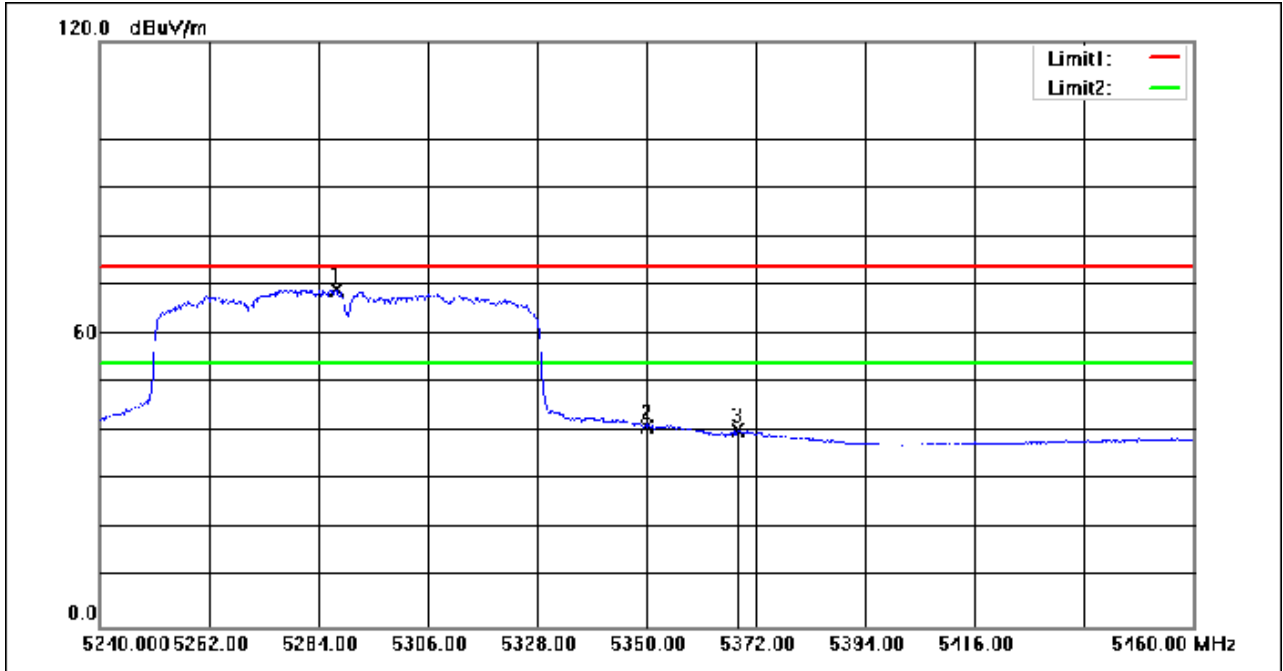


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5287.520	79.42	-10.24	69.18	54.00	15.18	AVG
2	5350.000	50.84	-9.94	40.90	54.00	-13.10	AVG
3	5368.260	50.07	-9.85	40.22	54.00	-13.78	AVG

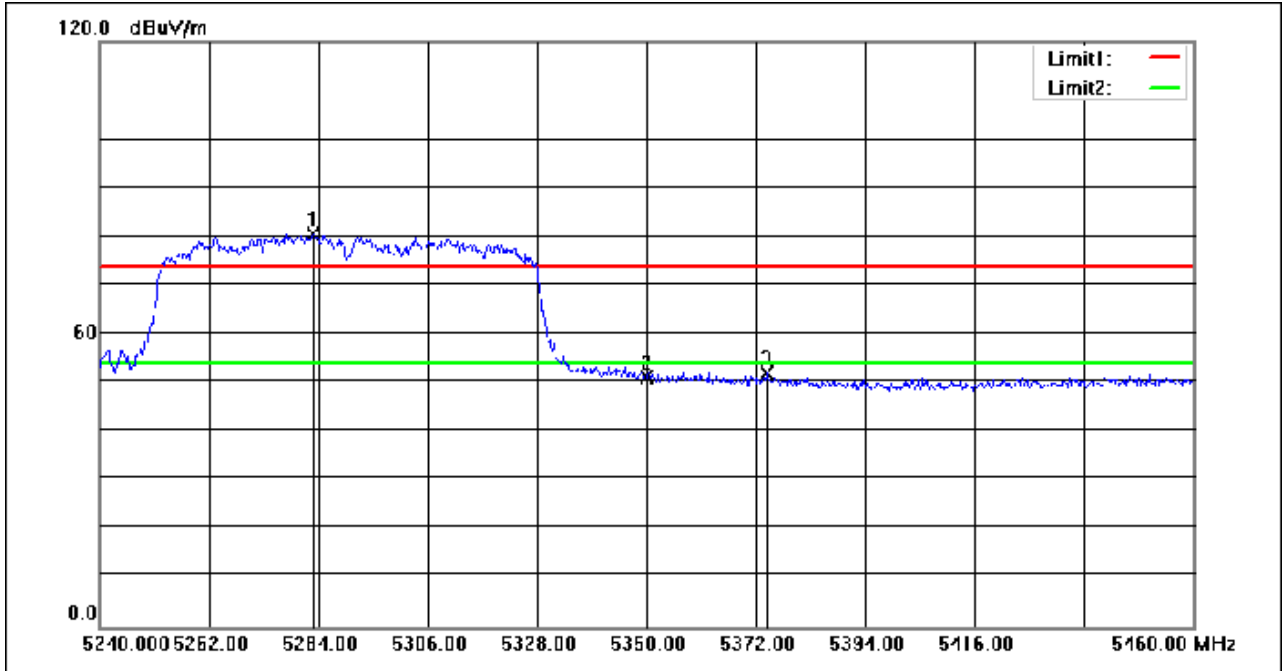


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5282.900	90.94	-10.26	80.68	74.00	6.68	peak
2	5350.000	60.99	-9.94	51.05	74.00	-22.95	peak
3	5374.200	61.94	-9.82	52.12	74.00	-21.88	peak



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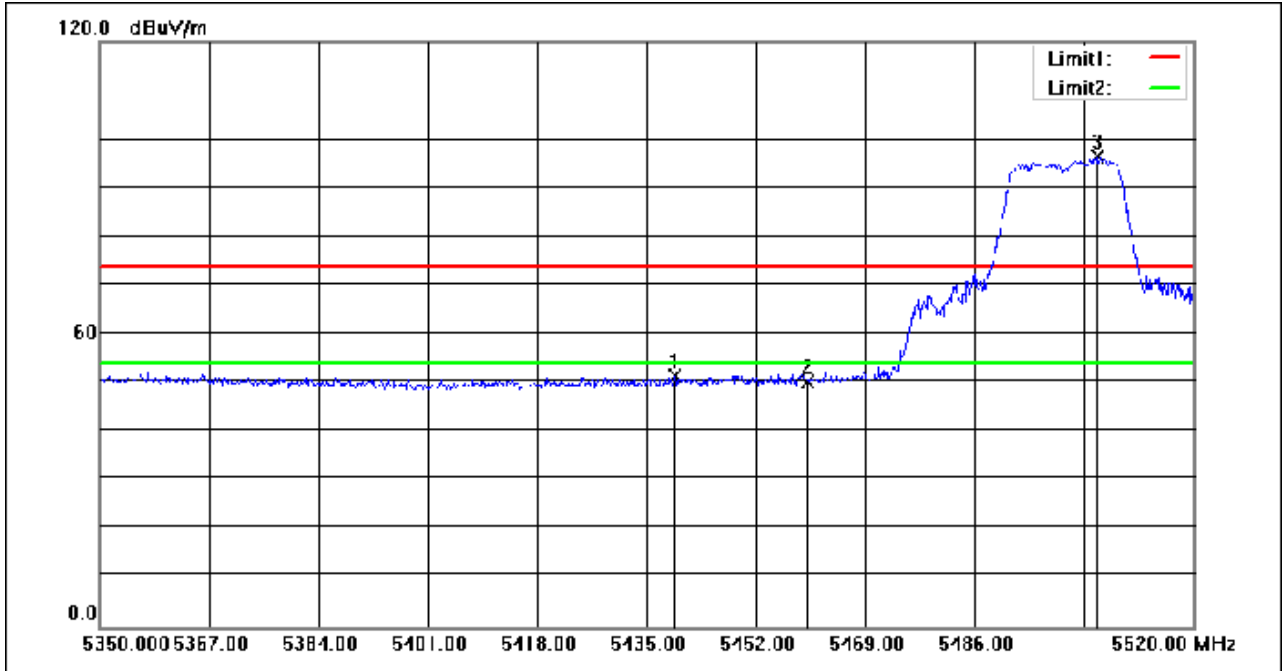
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 100 of 196

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



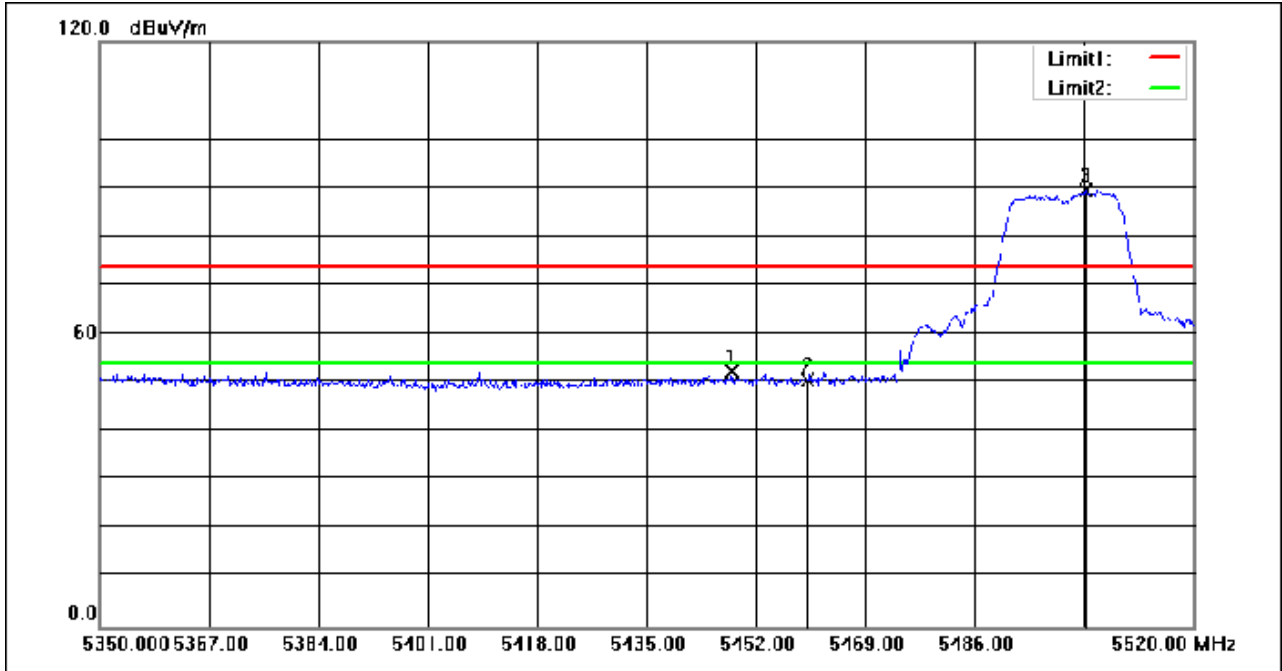
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5439.420	61.05	-9.62	51.43	74.00	-22.57	peak
2	5460.000	59.74	-9.59	50.15	74.00	-23.85	peak
3	5505.210	105.84	-9.51	96.33	74.00	22.33	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5448.260	61.86	-9.61	52.25	74.00	-21.75	peak
2	5460.000	60.04	-9.59	50.45	74.00	-23.55	peak
3	5503.340	99.01	-9.51	89.50	74.00	15.50	peak



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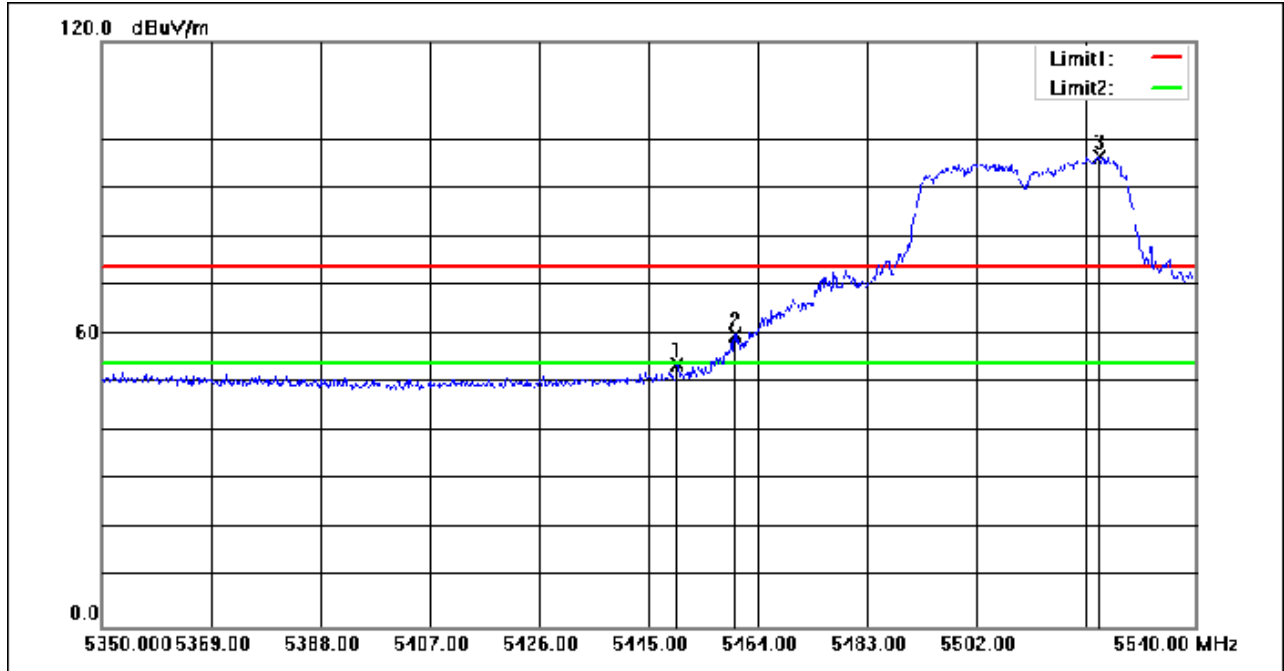
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 102 of 196

Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



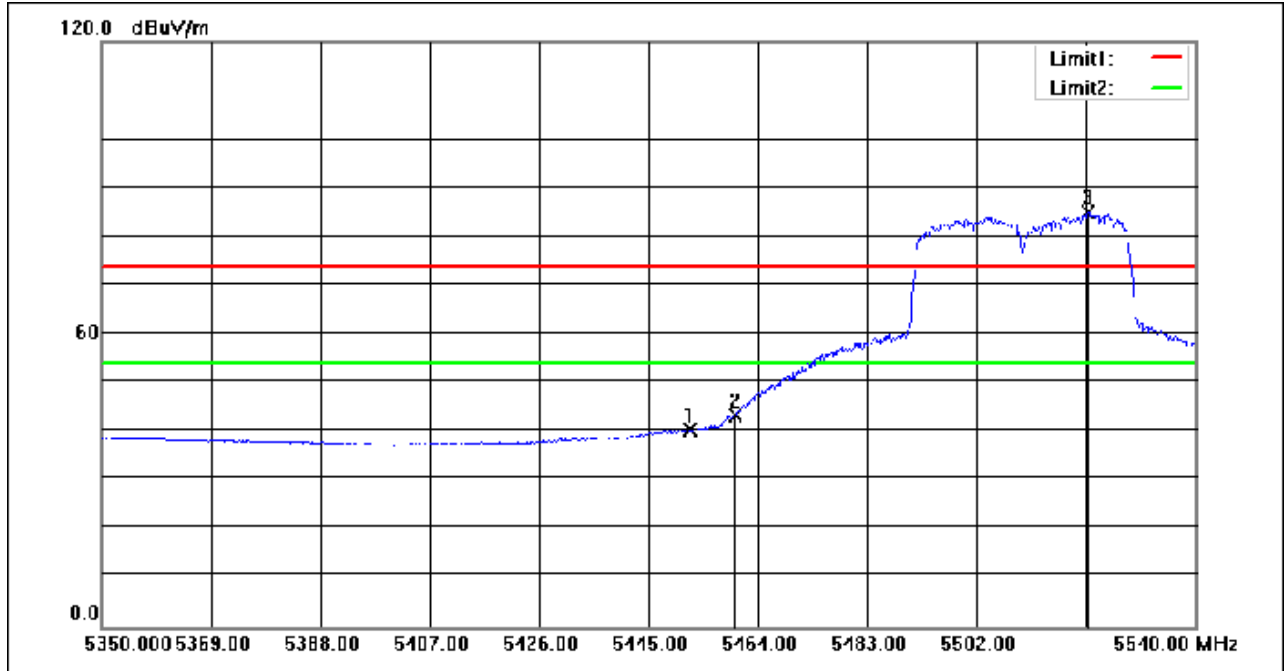
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5449.940	63.49	-9.61	53.88	74.00	-20.12	peak
2	5460.000	69.59	-9.59	60.00	74.00	-14.00	peak
3	5523.470	105.94	-9.47	96.47	74.00	22.47	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



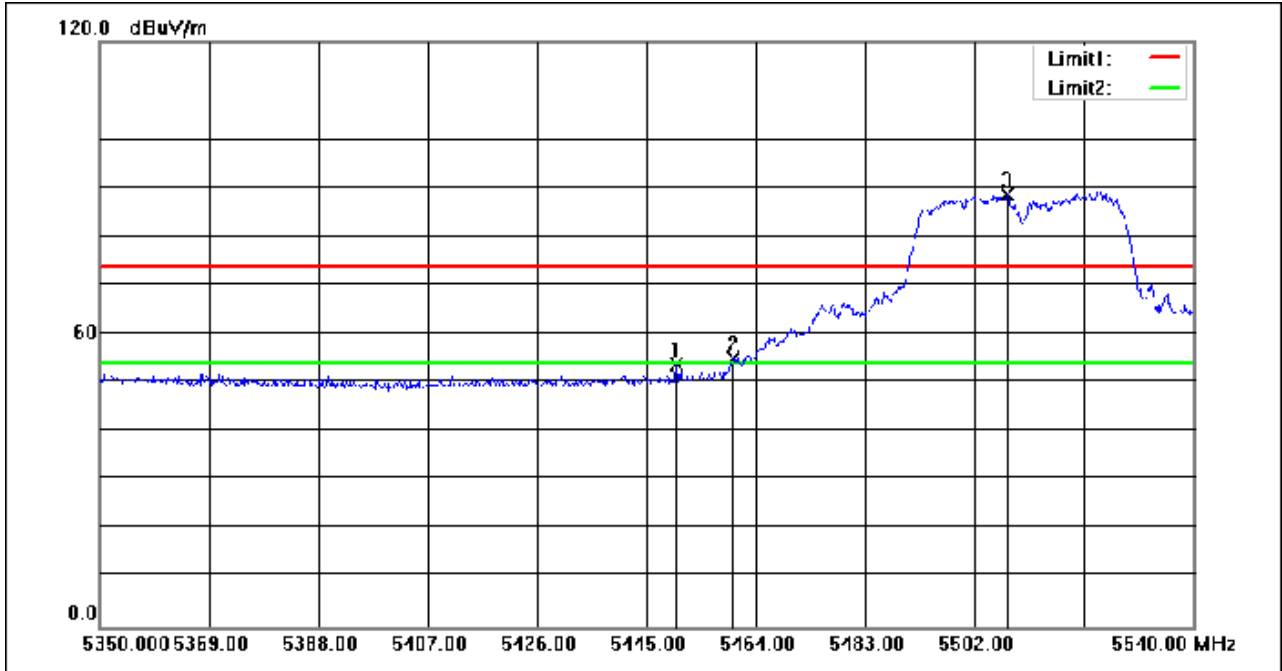
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.220	50.05	-9.61	40.44	54.00	-13.56	AVG
2	5460.000	53.08	-9.59	43.49	54.00	-10.51	AVG
3	5521.380	94.50	-9.47	85.03	54.00	31.03	AVG



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



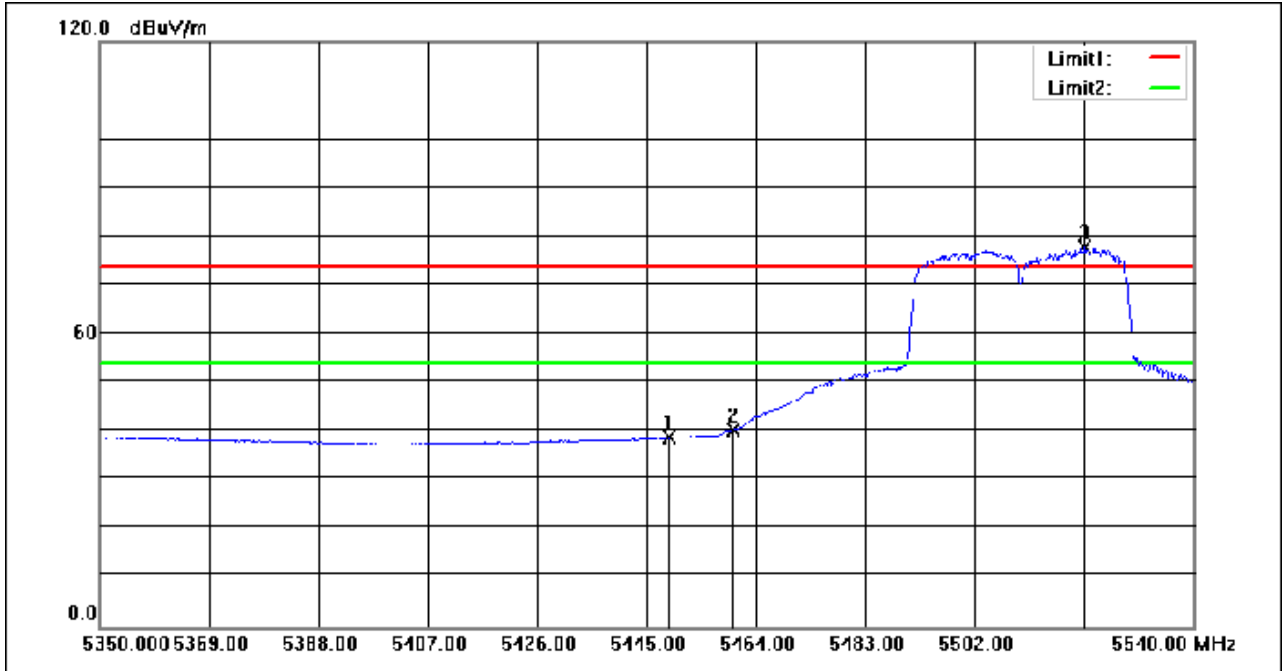
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5450.130	63.33	-9.61	53.72	74.00	-20.28	peak
2	5460.000	64.65	-9.59	55.06	74.00	-18.94	peak
3	5507.700	98.24	-9.50	88.74	74.00	14.74	peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5448.800	48.48	-9.61	38.87	54.00	-15.13	AVG
2	5460.000	49.98	-9.59	40.39	54.00	-13.61	AVG
3	5521.190	87.26	-9.47	77.79	54.00	23.79	AVG

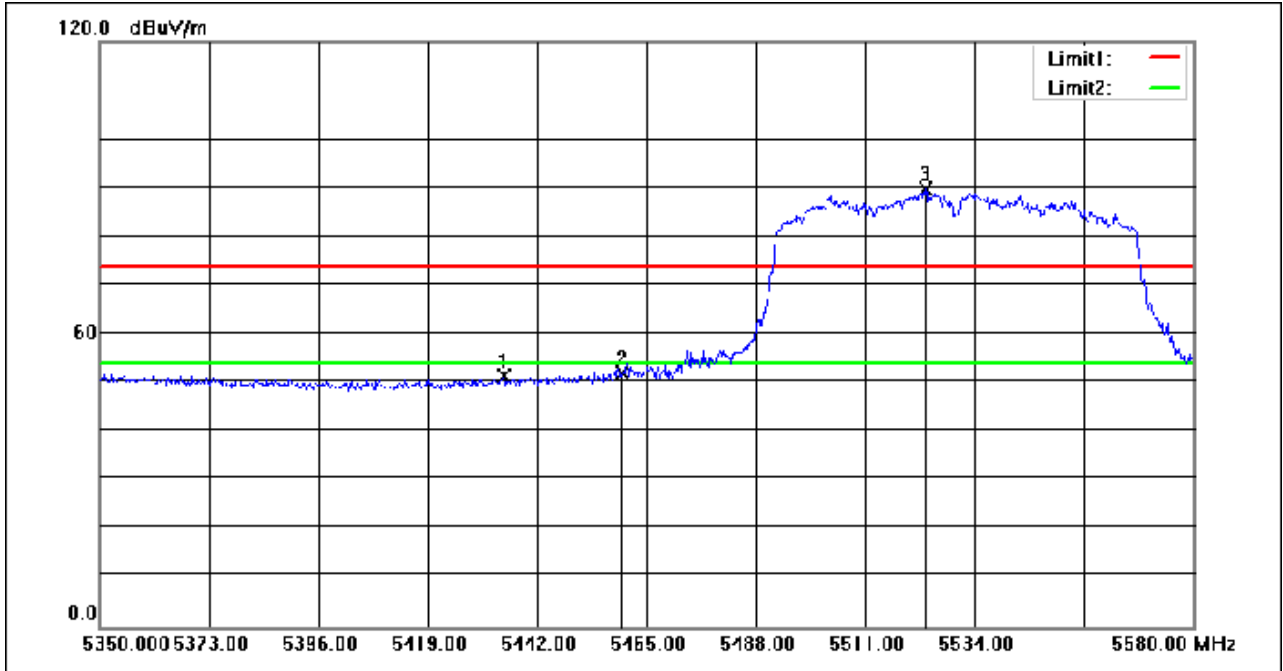


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5435.100	61.13	-9.63	51.50	74.00	-22.50	peak
2	5460.000	61.71	-9.59	52.12	74.00	-21.88	peak
3	5523.650	99.31	-9.47	89.84	74.00	15.84	peak

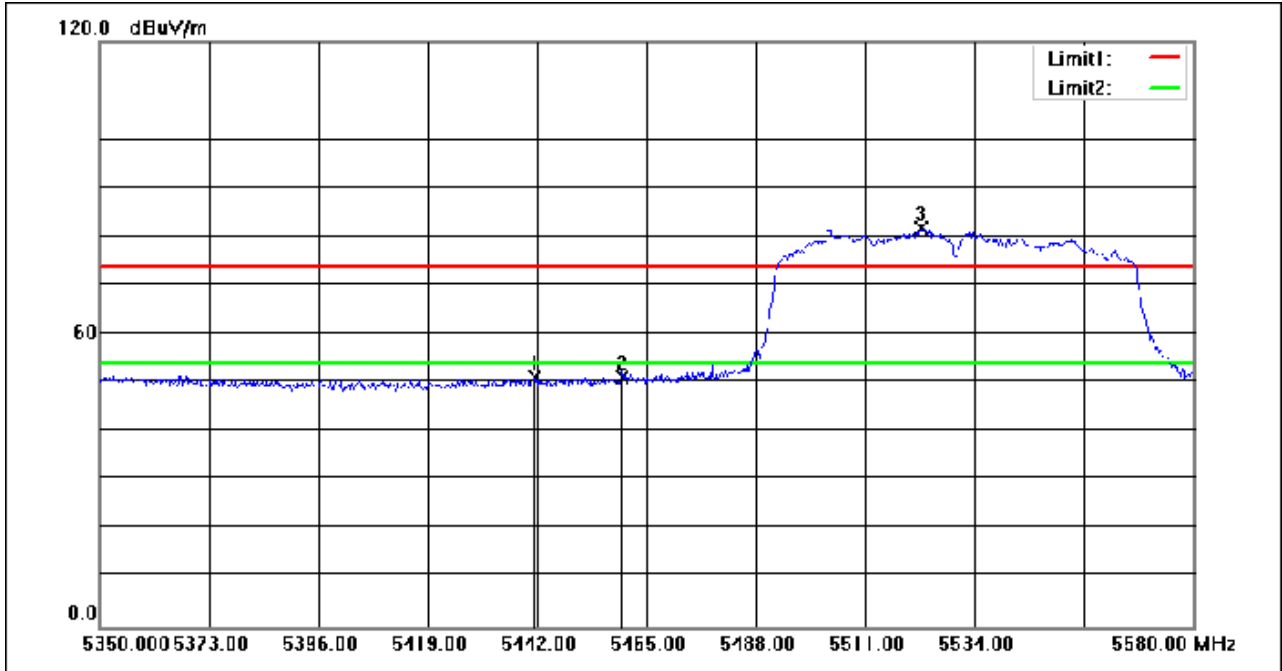


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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5441.540	60.74	-9.62	51.12	74.00	-22.88	peak
2	5460.000	60.75	-9.59	51.16	74.00	-22.84	peak
3	5522.730	91.13	-9.47	81.66	74.00	7.66	peak



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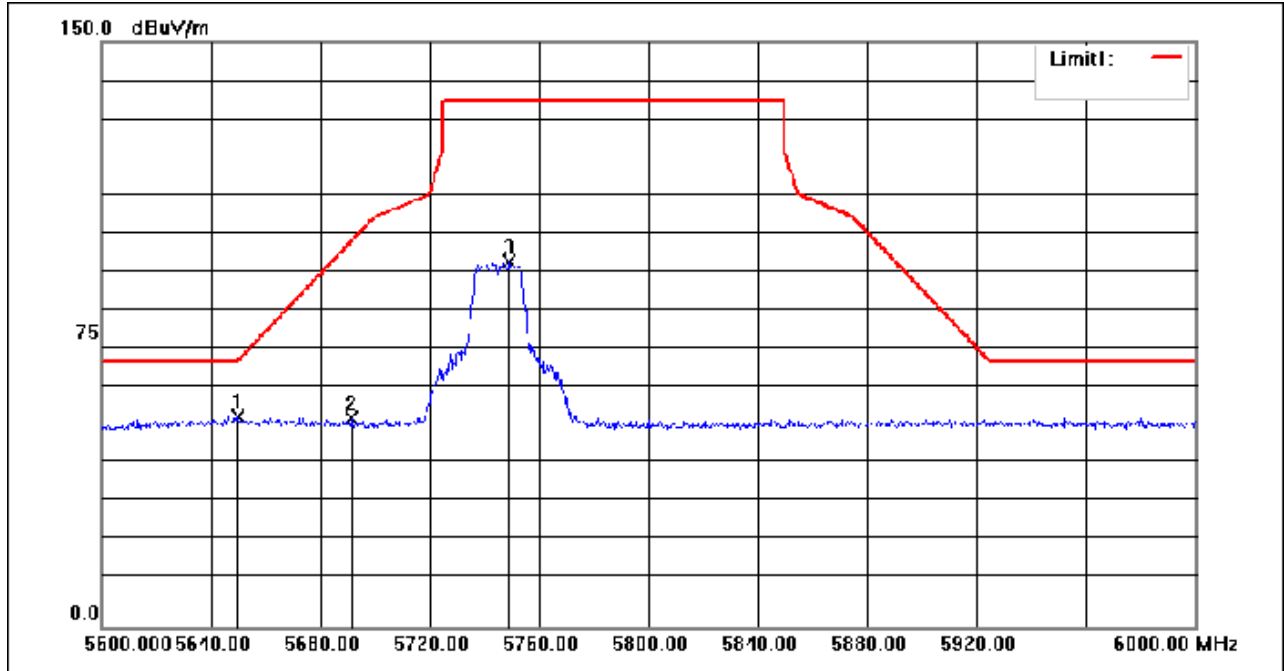
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 108 of 196

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.000	62.98	-9.17	53.81	68.20	-14.39	peak
2	5691.200	62.61	-9.03	53.58	98.69	-45.11	peak
3	5749.200	102.25	-8.85	93.40	135.00	-41.60	peak

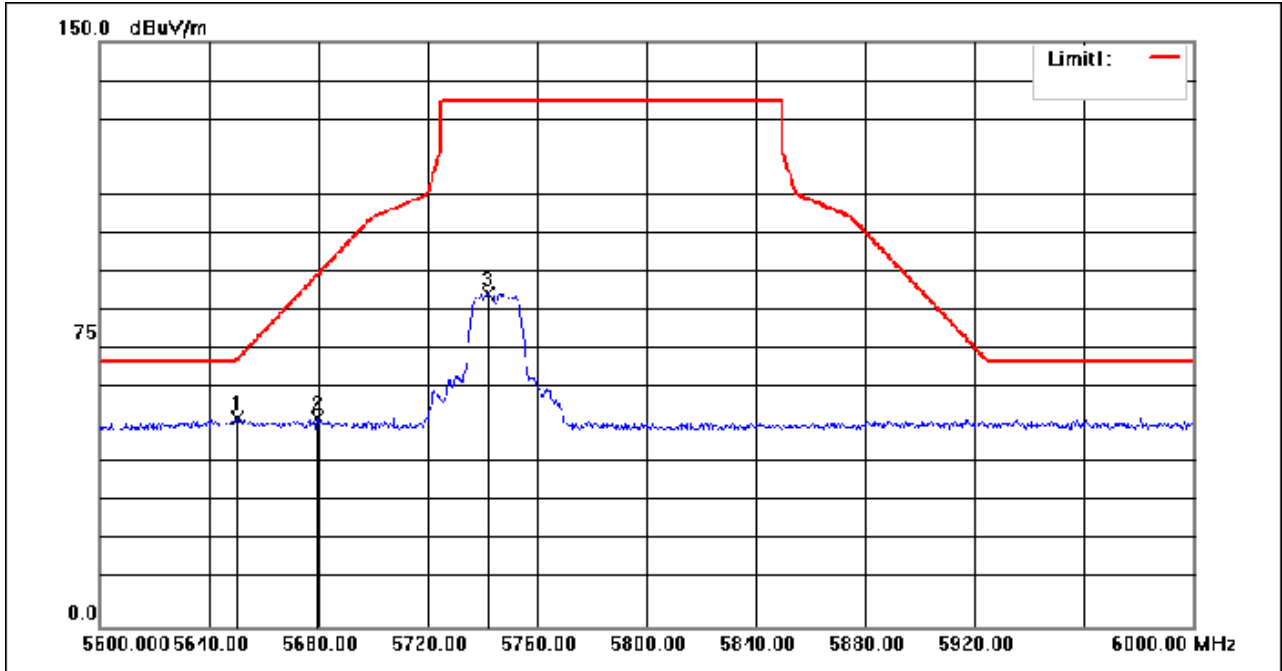


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



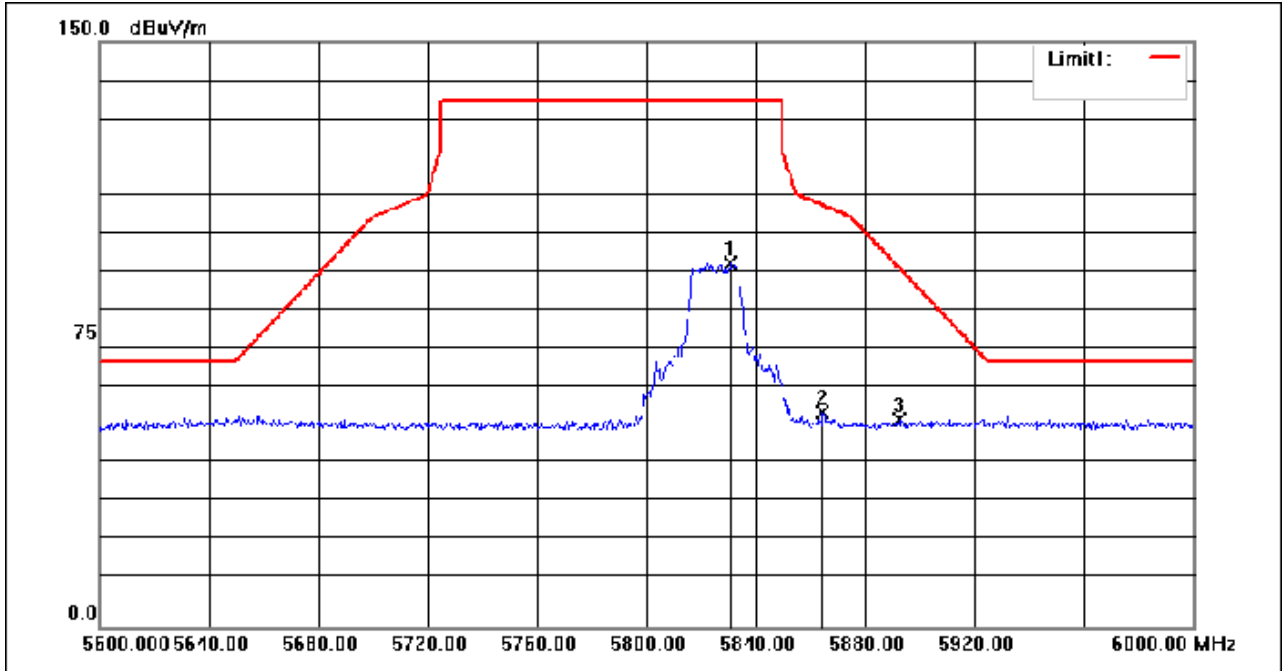
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5650.400	62.58	-9.17	53.41	68.50	-15.09	peak
2	5679.600	62.35	-9.08	53.27	90.10	-36.83	peak
3	5742.000	94.27	-8.87	85.40	135.00	-49.60	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	101.70	-8.56	93.14	135.00	-41.86	peak
2	5864.400	63.36	-8.40	54.96	108.17	-53.21	peak
3	5892.400	61.41	-8.28	53.13	92.32	-39.19	peak

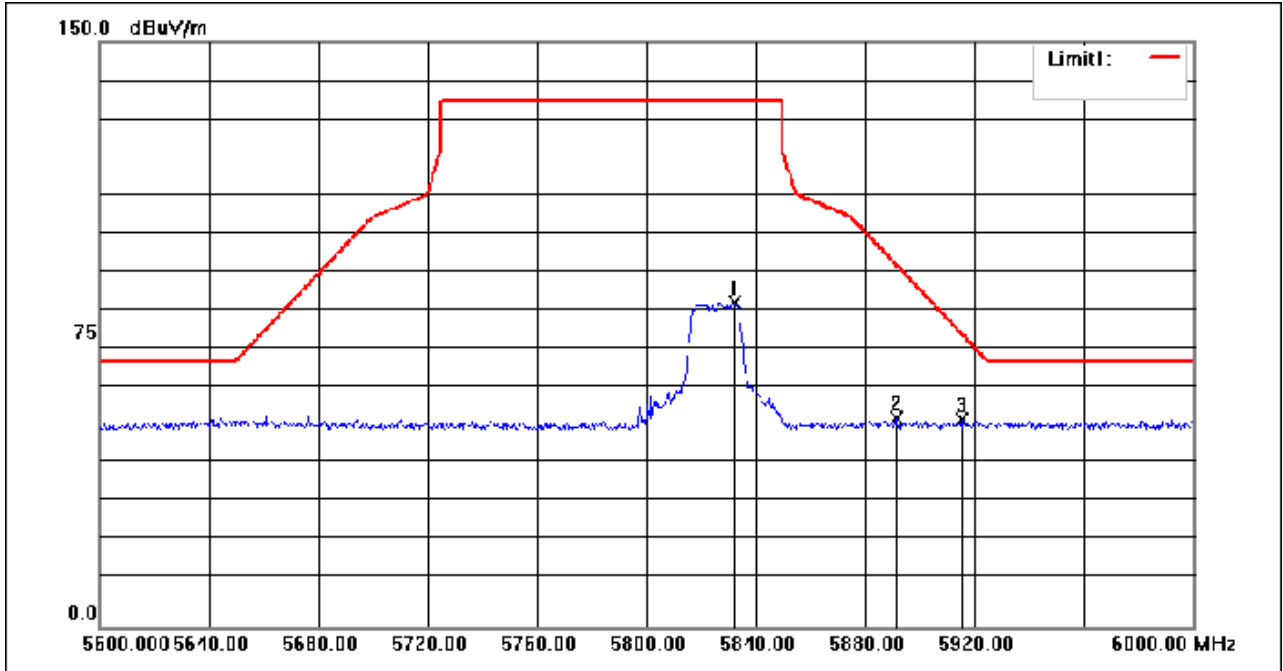


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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5832.000	91.63	-8.55	83.08	135.00	-51.92	peak
2	5891.200	61.62	-8.29	53.33	93.21	-39.88	peak
3	5915.600	61.17	-8.17	53.00	75.16	-22.16	peak



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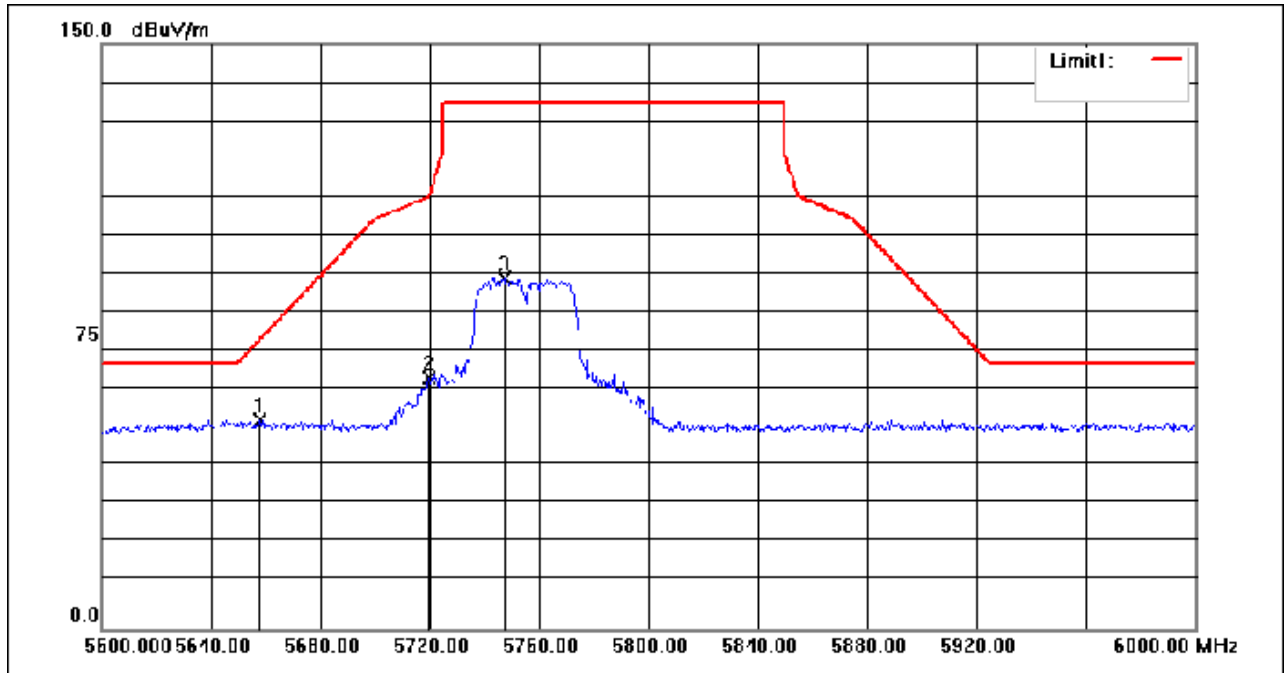
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 112 of 196

Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5657.600	62.69	-9.15	53.54	73.82	-20.28	peak
2	5719.600	73.21	-8.94	64.27	110.69	-46.42	peak
3	5747.200	98.52	-8.86	89.66	135.00	-45.34	peak



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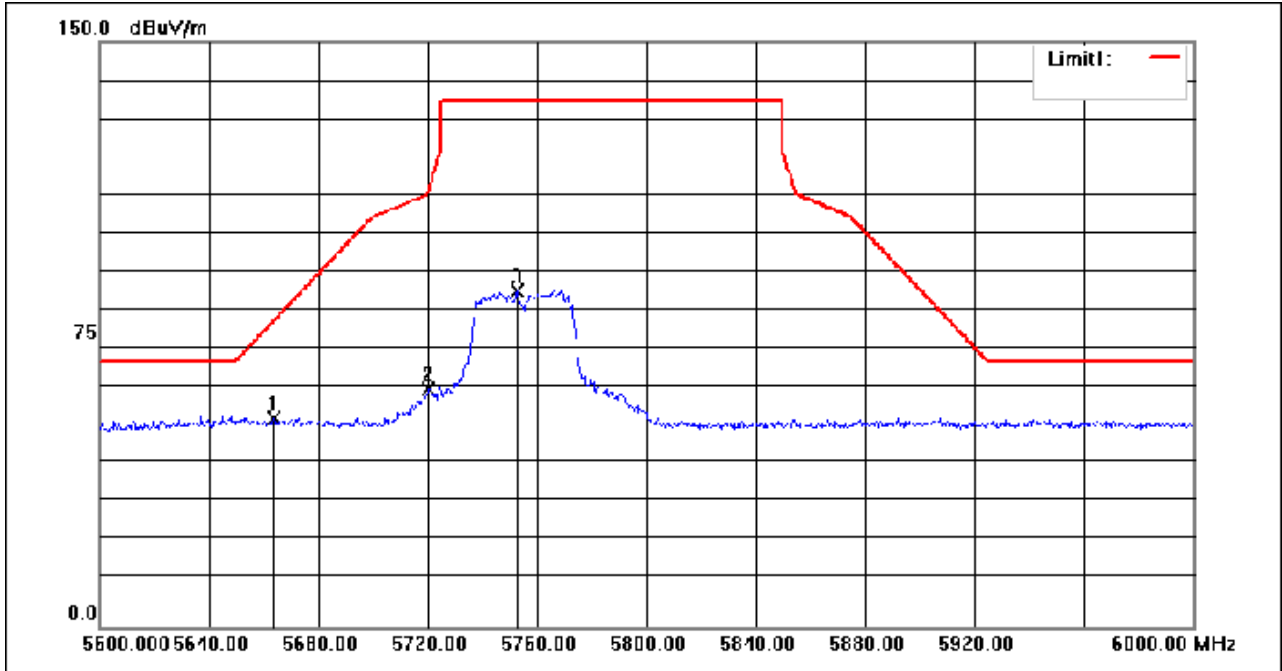
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 113 of 196

Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5663.600	62.51	-9.12	53.39	78.26	-24.87	peak
2	5720.400	69.79	-8.94	60.85	111.71	-50.86	peak
3	5752.800	94.90	-8.84	86.06	135.00	-48.94	peak

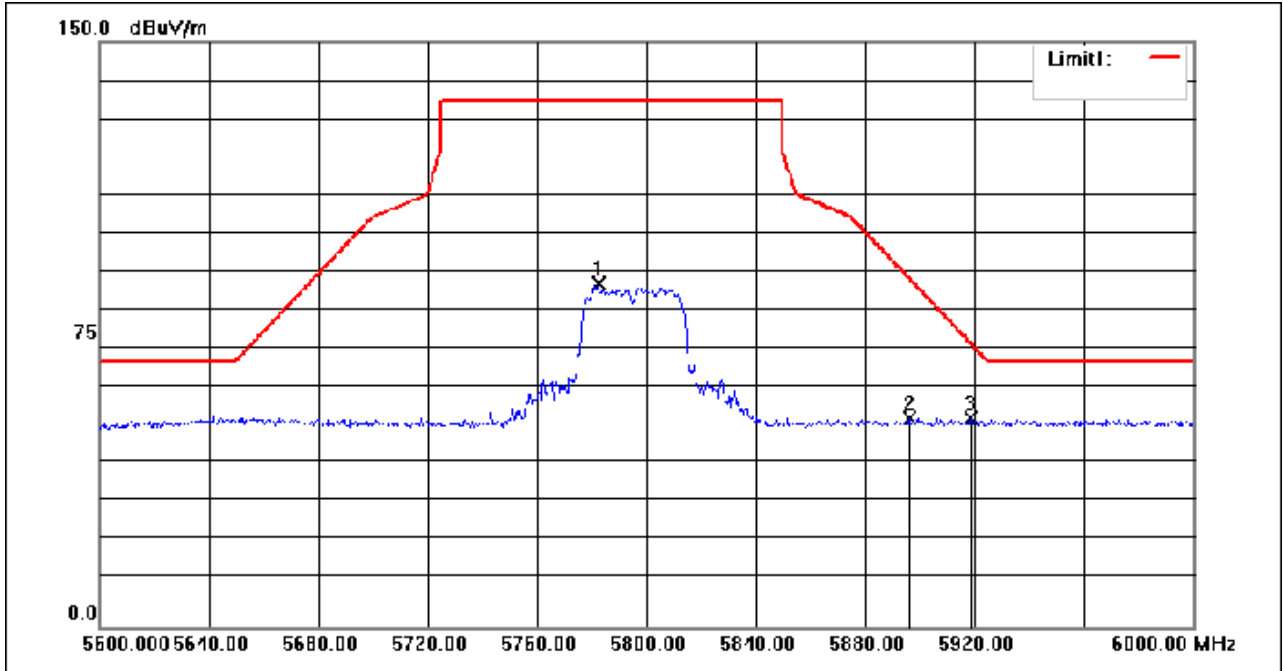


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



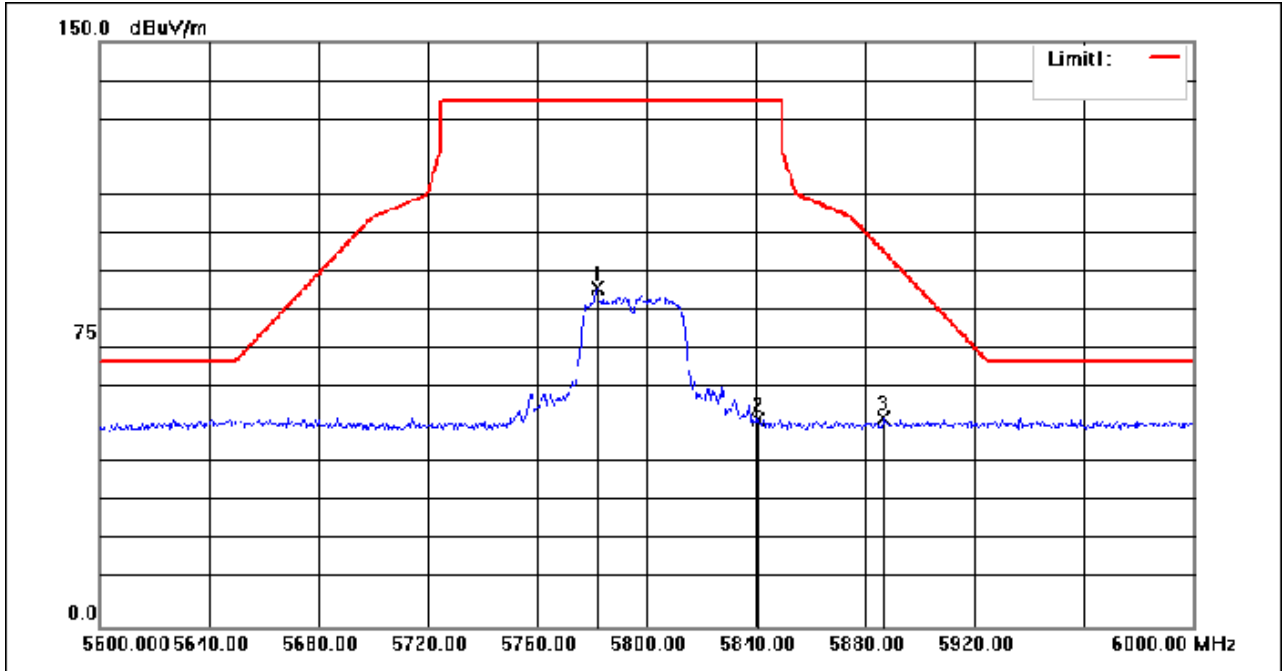
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5782.400	96.66	-8.75	87.91	135.00	-47.09	peak
2	5896.000	61.68	-8.27	53.41	89.66	-36.25	peak
3	5918.400	61.75	-8.16	53.59	73.08	-19.49	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5782.000	95.60	-8.75	86.85	135.00	-48.15	peak
2	5840.800	61.57	-8.51	53.06	135.00	-81.94	peak
3	5886.800	61.64	-8.30	53.34	96.47	-43.13	peak

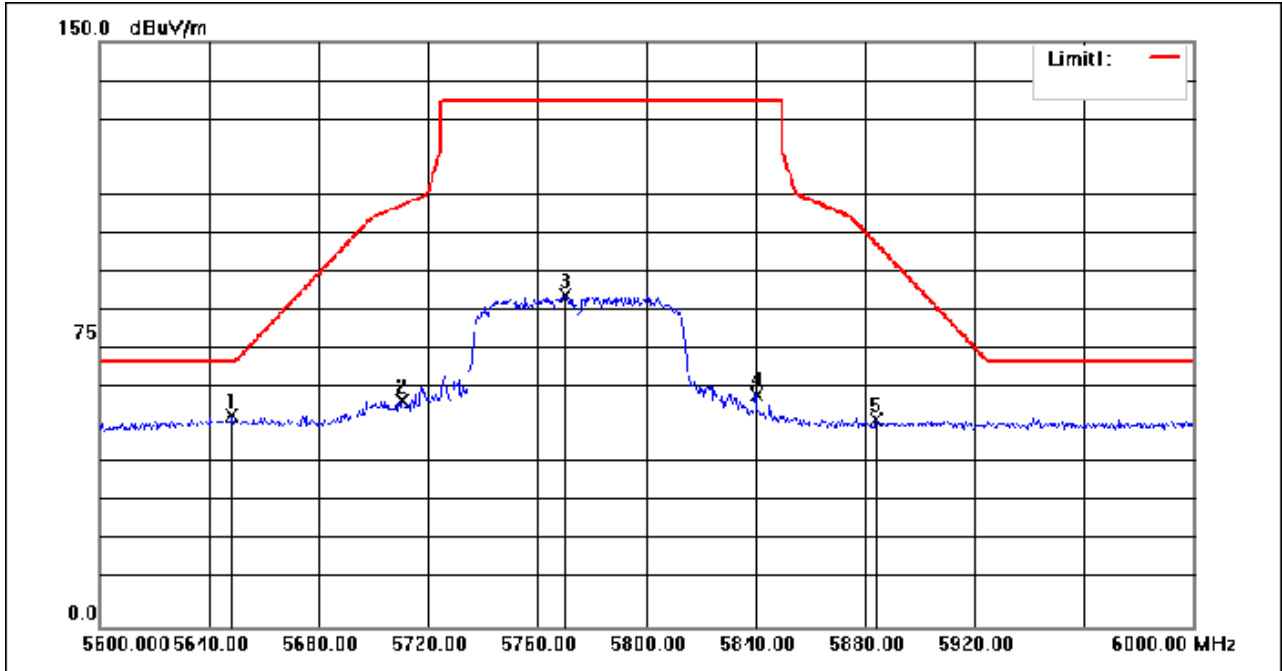


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.400	63.21	-9.18	54.03	68.20	-14.17	peak
2	5710.400	67.06	-8.97	58.09	108.11	-50.02	peak
3	5770.400	93.67	-8.78	84.89	135.00	-50.11	peak
4	5840.000	67.95	-8.51	59.44	135.00	-75.56	peak
5	5884.000	61.27	-8.32	52.95	98.54	-45.59	peak



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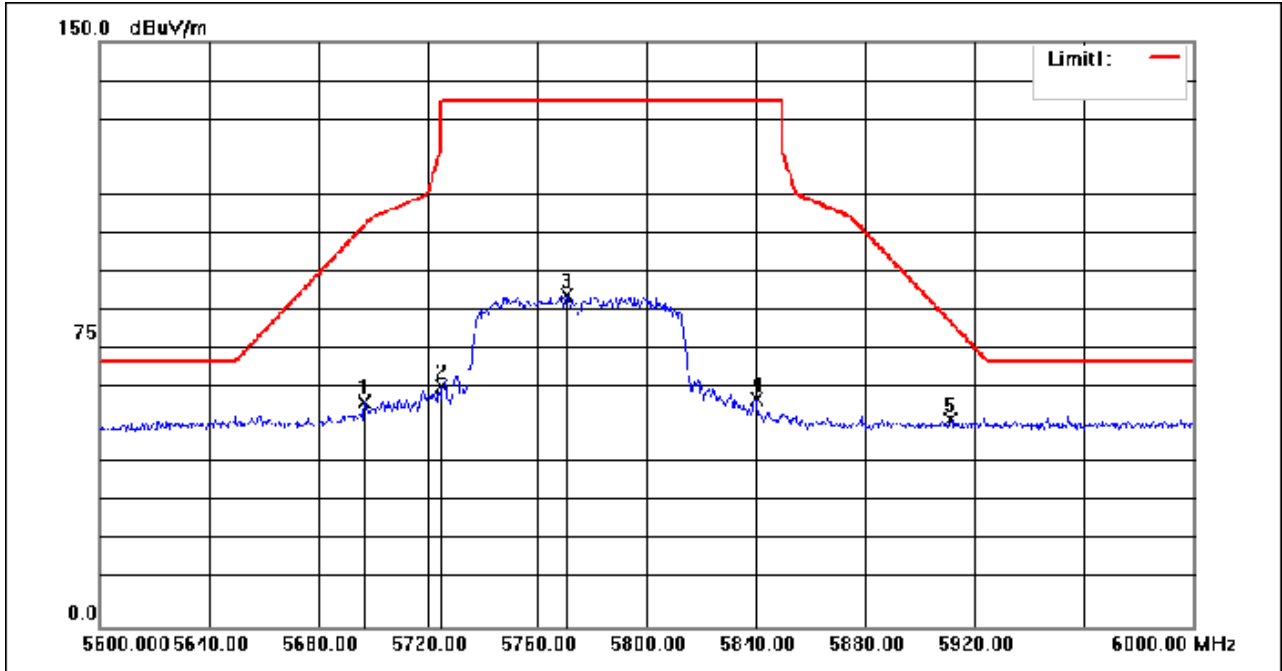
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5696.800	66.43	-9.02	57.41	102.83	-45.42	peak
2	5725.200	70.55	-8.93	61.62	135.00	-73.38	peak
3	5770.800	93.72	-8.78	84.94	135.00	-50.06	peak
4	5840.000	67.00	-8.51	58.49	135.00	-76.51	peak
5	5911.200	61.19	-8.20	52.99	78.41	-25.42	peak



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

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7.9 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 43.7 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 58.0 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

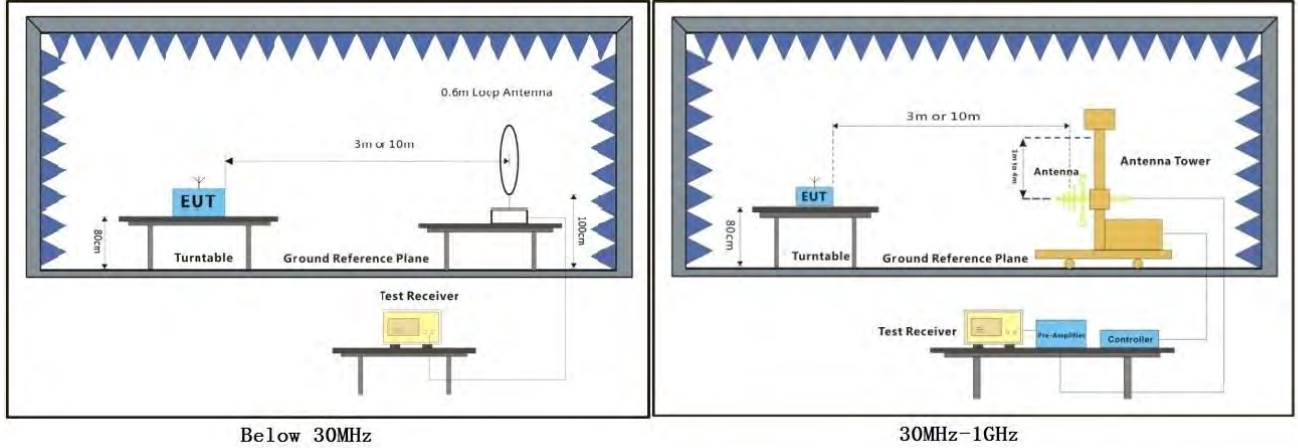
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with the data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.10.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.10.4 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. Level= Read Level+ Cable Loss+ Antenna Factor- 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.

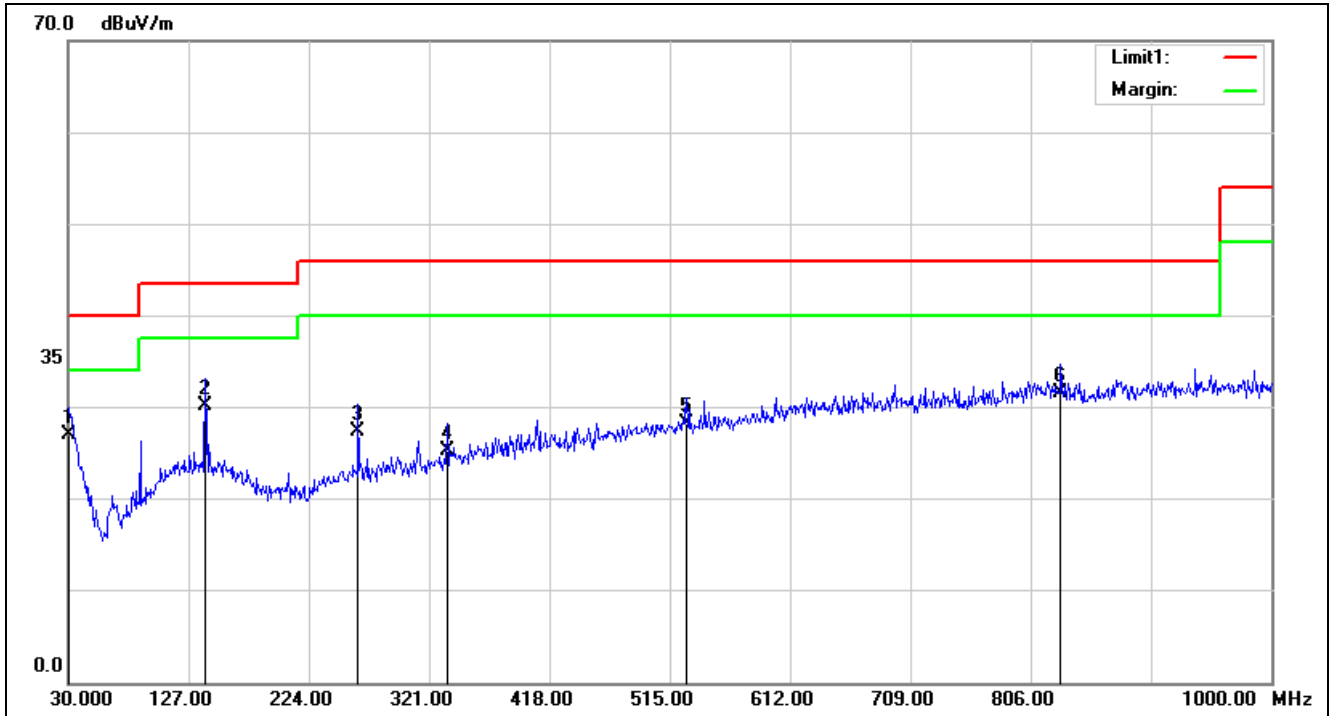


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Below 1GHz

Mode:00; Polarization:Horizontal;



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	1.69	25.38	27.07	40.00	-12.93	100	158	QP
2	140.5800	10.33	19.83	30.16	43.50	-13.34	100	247	QP
3	263.7700	7.72	19.68	27.40	46.00	-18.60	100	52	QP
4	335.5500	3.42	21.87	25.29	46.00	-20.71	100	305	QP
5	528.5800	2.65	25.58	28.23	46.00	-17.77	100	118	QP
6	830.2500	3.69	27.98	31.67	46.00	-14.33	100	306	QP



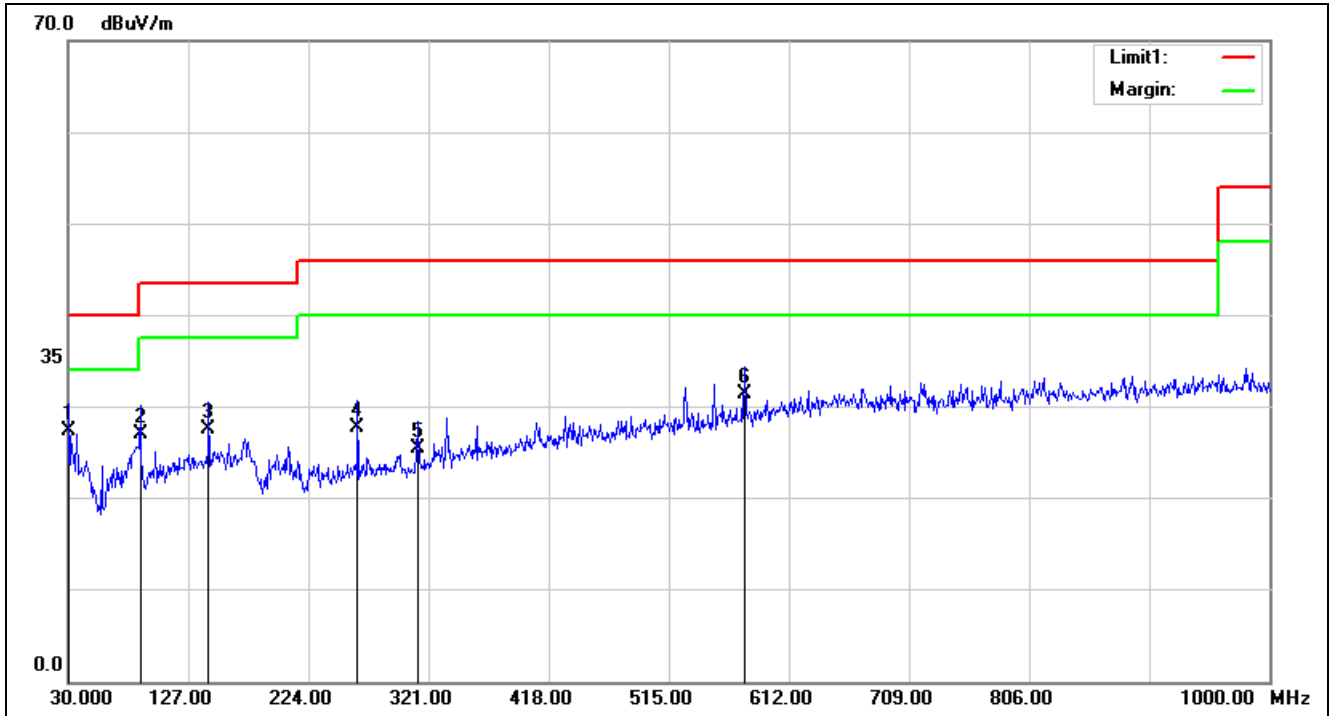
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Mode:00; Polarization:Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.9700	2.05	25.38	27.43	40.00	-12.57	100	278	QP
2	88.2000	10.70	16.42	27.12	43.50	-16.38	100	18	QP
3	143.4900	7.59	19.93	27.52	43.50	-15.98	100	96	QP
4	263.7700	8.02	19.68	27.70	46.00	-18.30	100	118	QP
5	312.2700	4.38	21.05	25.43	46.00	-20.57	100	202	QP
6	576.1100	5.22	26.19	31.41	46.00	-14.59	100	48	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2211002146AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2211002146AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11ac (VHT20)	SISO	5180	0.978	1.175	83.23	0.80	0.03
		5200	0.978	1.175	83.23	0.80	0.03
		5240	0.978	1.174	83.30	0.79	0.01
		5260	0.978	1.174	83.30	0.79	0.03
		5300	0.978	1.174	83.30	0.79	0.01
		5320	0.978	1.174	83.30	0.79	0.03
		5500	0.978	1.175	83.23	0.80	0.03
		5580	0.978	1.174	83.30	0.79	0.03
		5700	0.978	1.175	83.23	0.80	0.03
		5745	0.976	1.174	83.13	0.80	0.03
		5785	0.978	1.174	83.30	0.79	0.03
5825	0.978	1.174	83.30	0.79	0.03		
802.11ac (VHT40)	SISO	5190	0.494	0.691	71.49	1.46	0.03
		5230	0.494	0.691	71.49	1.46	0.03
		5270	0.494	0.691	71.49	1.46	0.02
		5310	0.494	0.692	71.39	1.46	0.01
		5510	0.494	0.692	71.39	1.46	0.03
		5550	0.494	0.692	71.39	1.46	0.03
		5670	0.494	0.691	71.49	1.46	0.01
		5755	0.494	0.691	71.49	1.46	0.03
5795	0.494	0.691	71.49	1.46	0.03		
802.11ac (VHT80)	SISO	5210	0.250	0.448	55.80	2.53	0.11
		5290	0.250	0.448	55.80	2.53	0.04
		5530	0.249	0.448	55.58	2.55	0.06
		5610	0.250	0.448	55.80	2.53	0.03
		5775	0.256	0.449	57.02	2.44	0.10



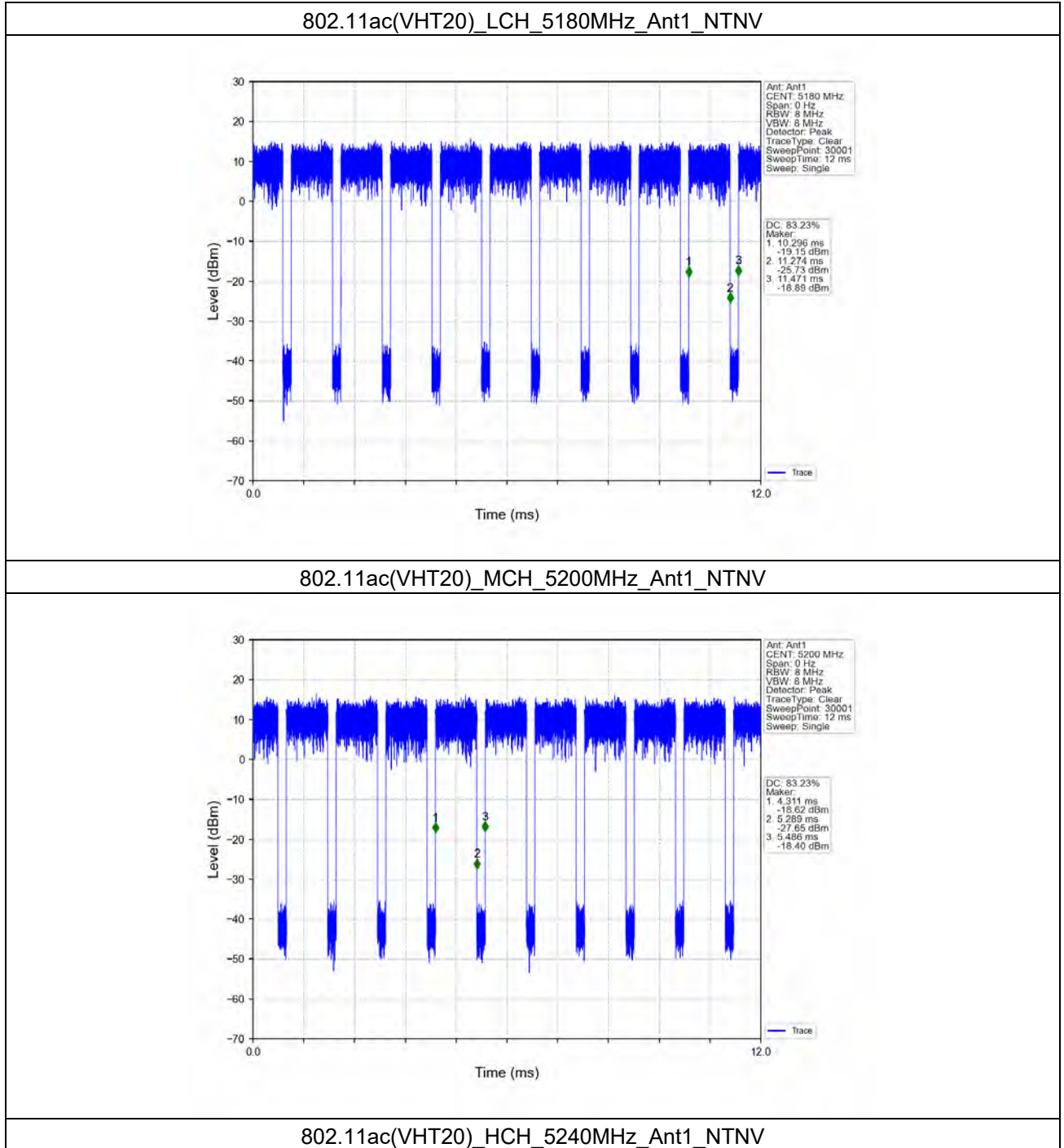
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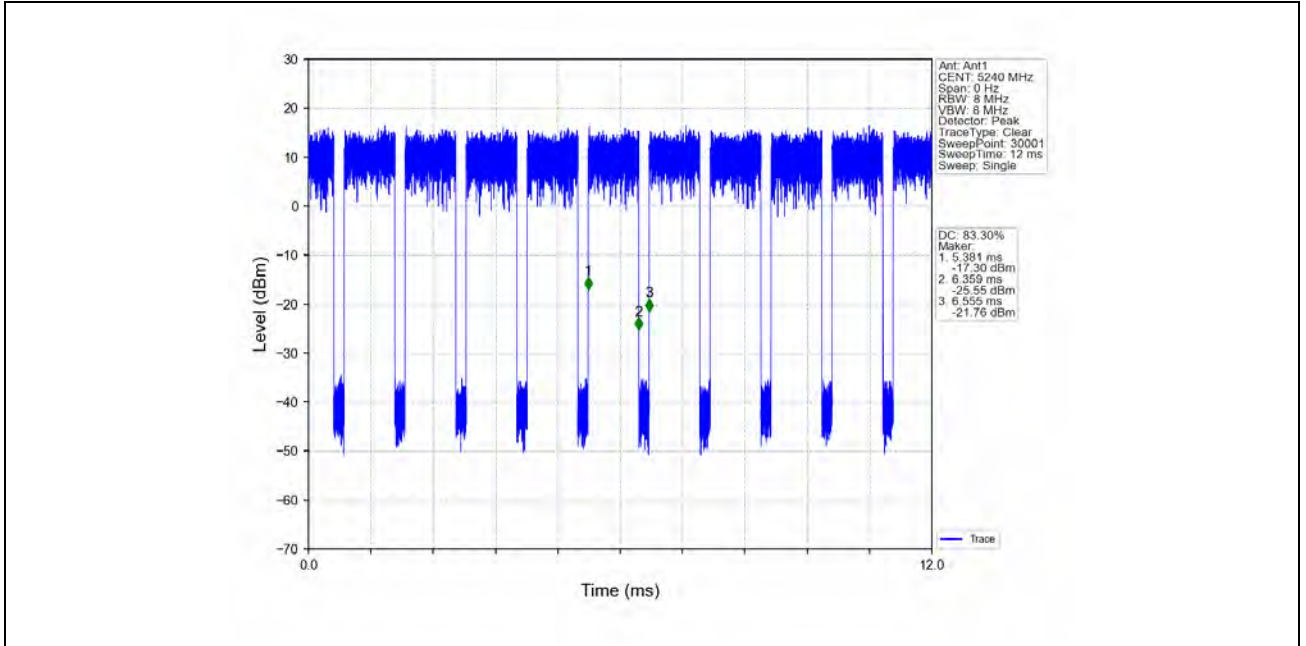
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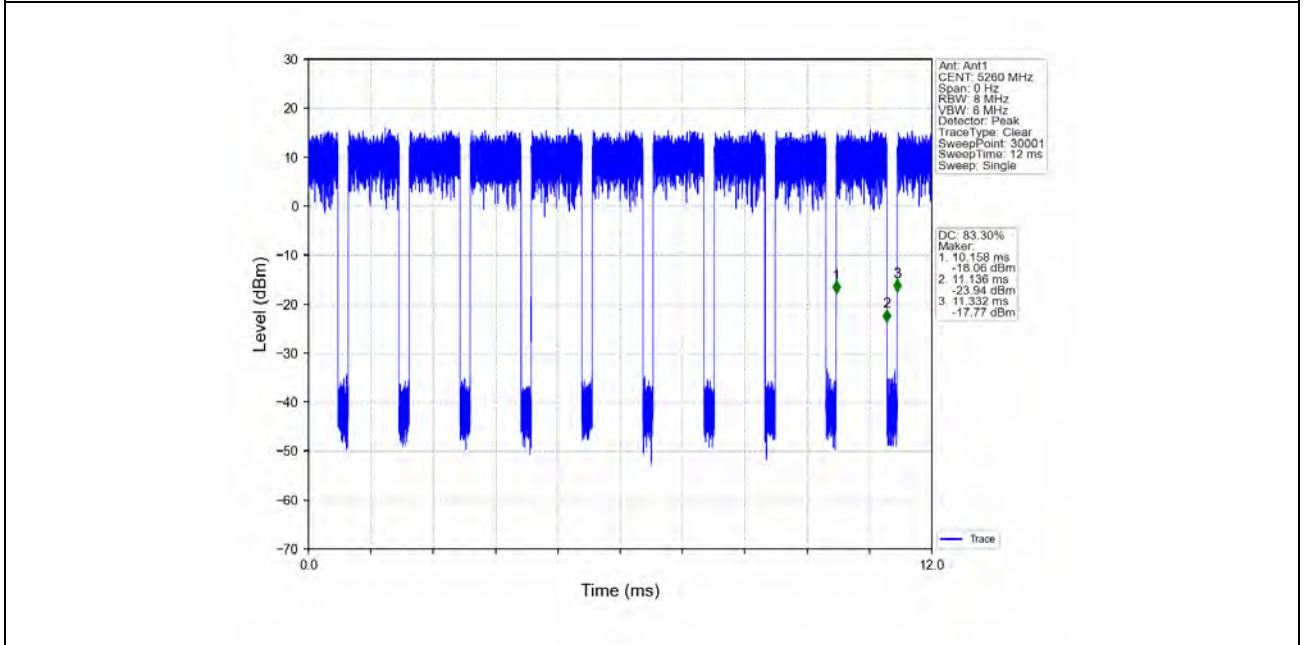
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

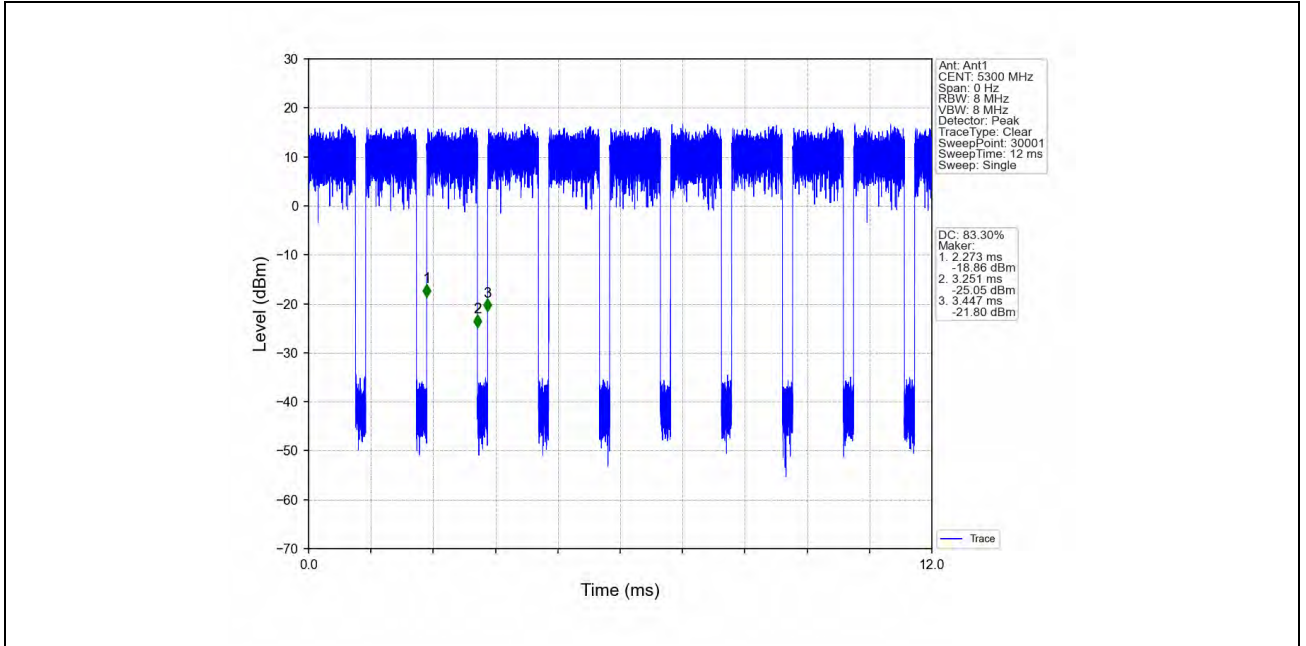


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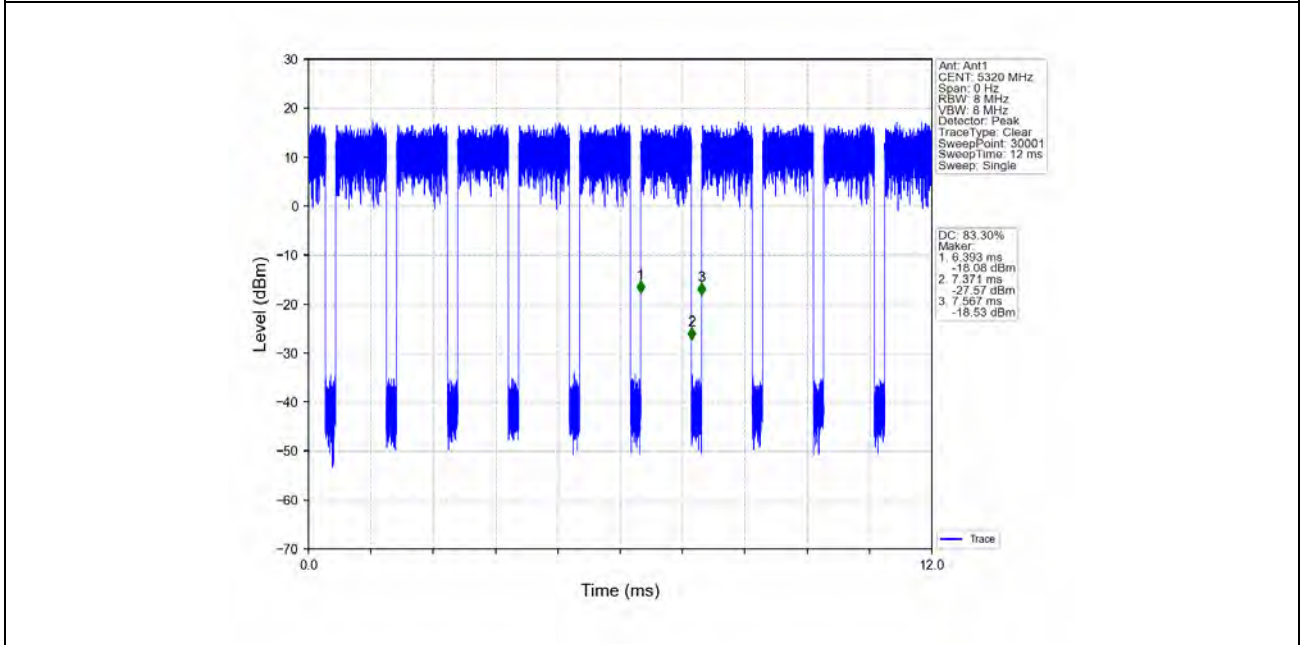
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

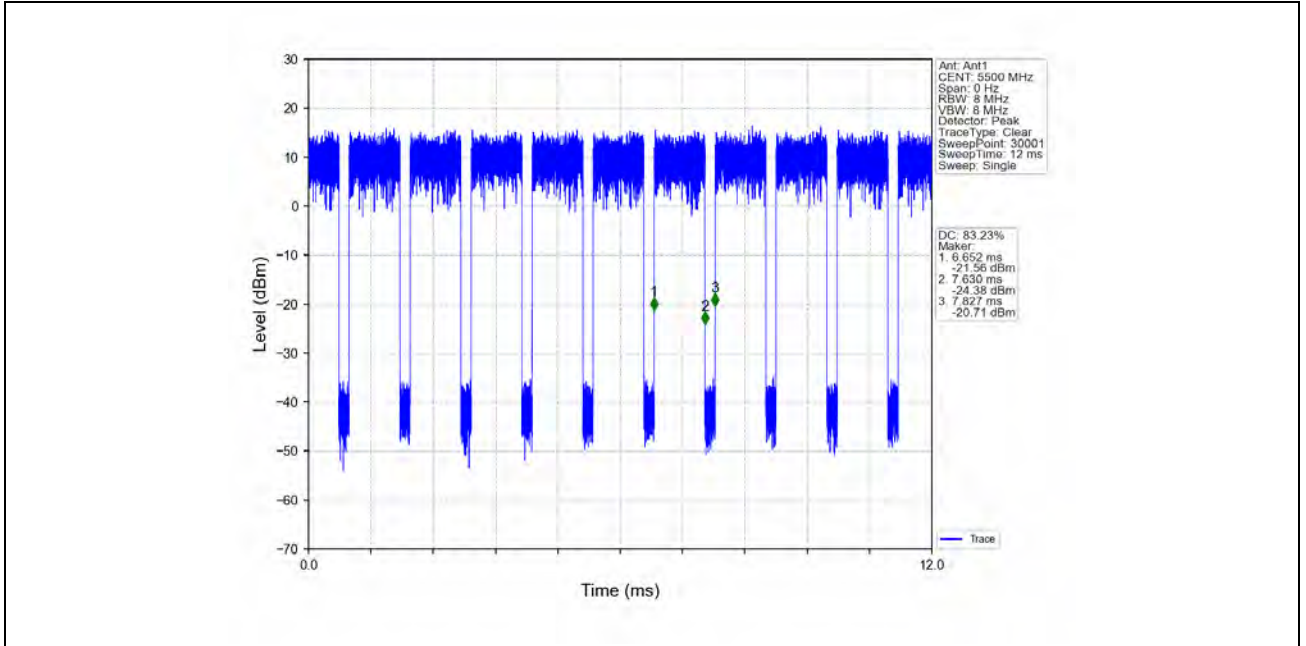


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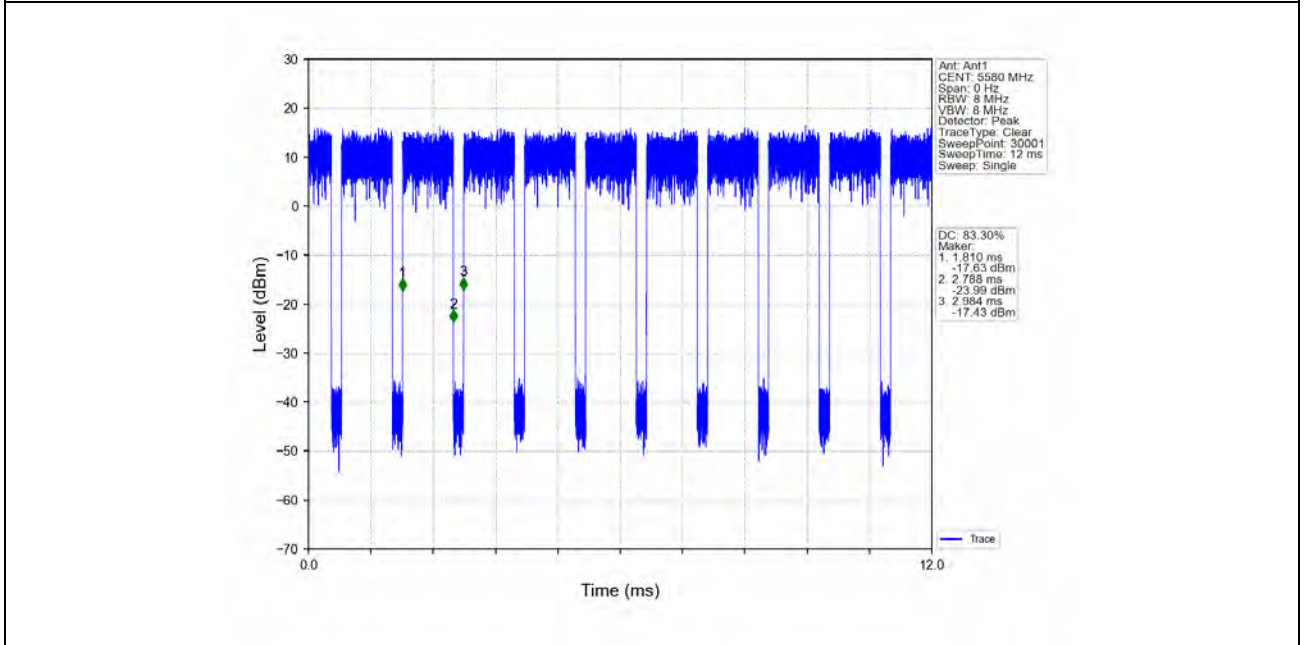
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

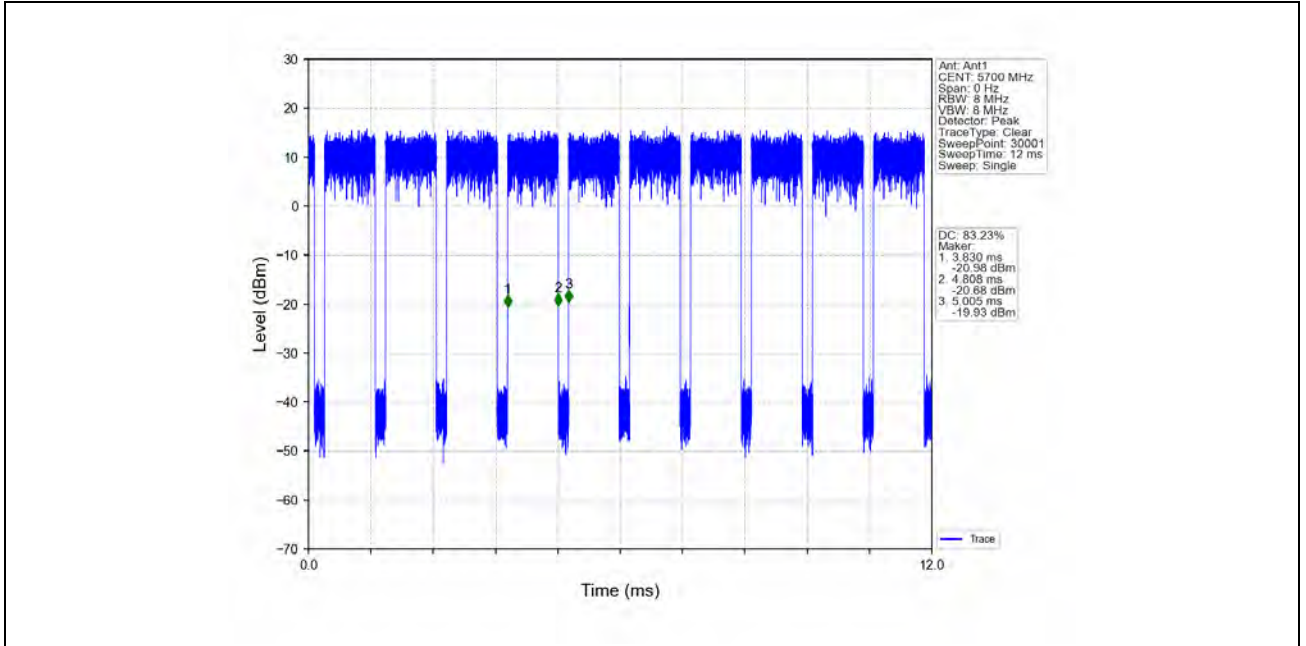


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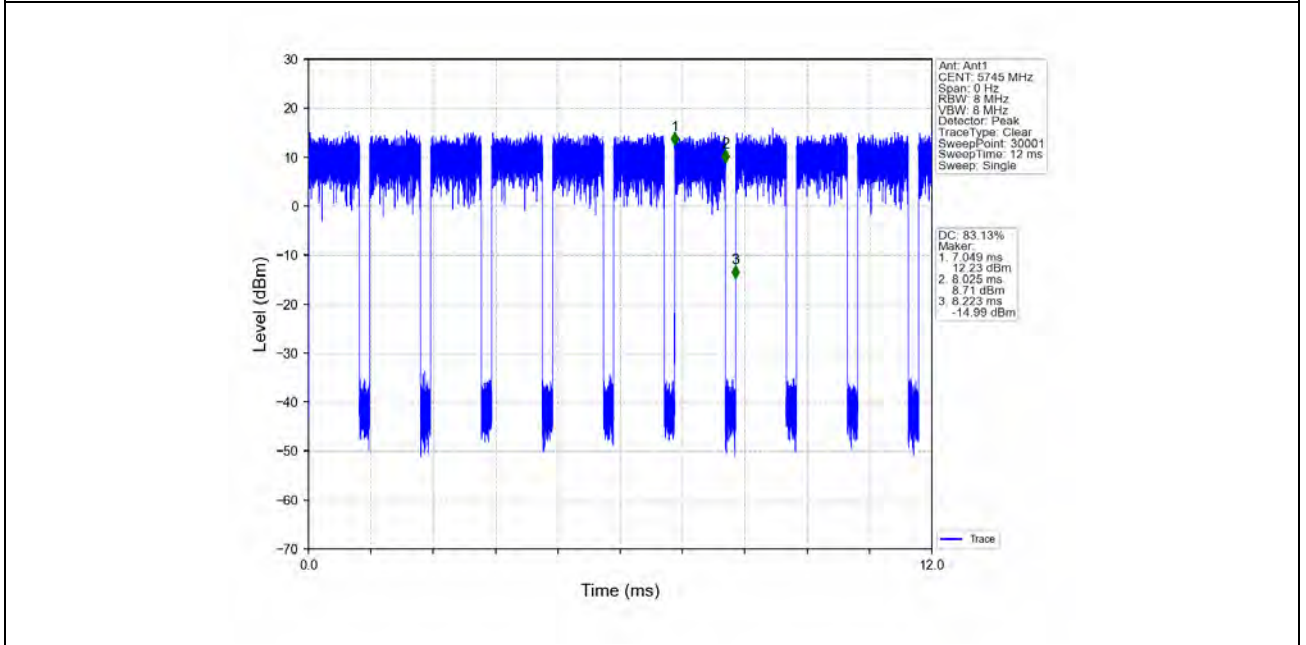
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

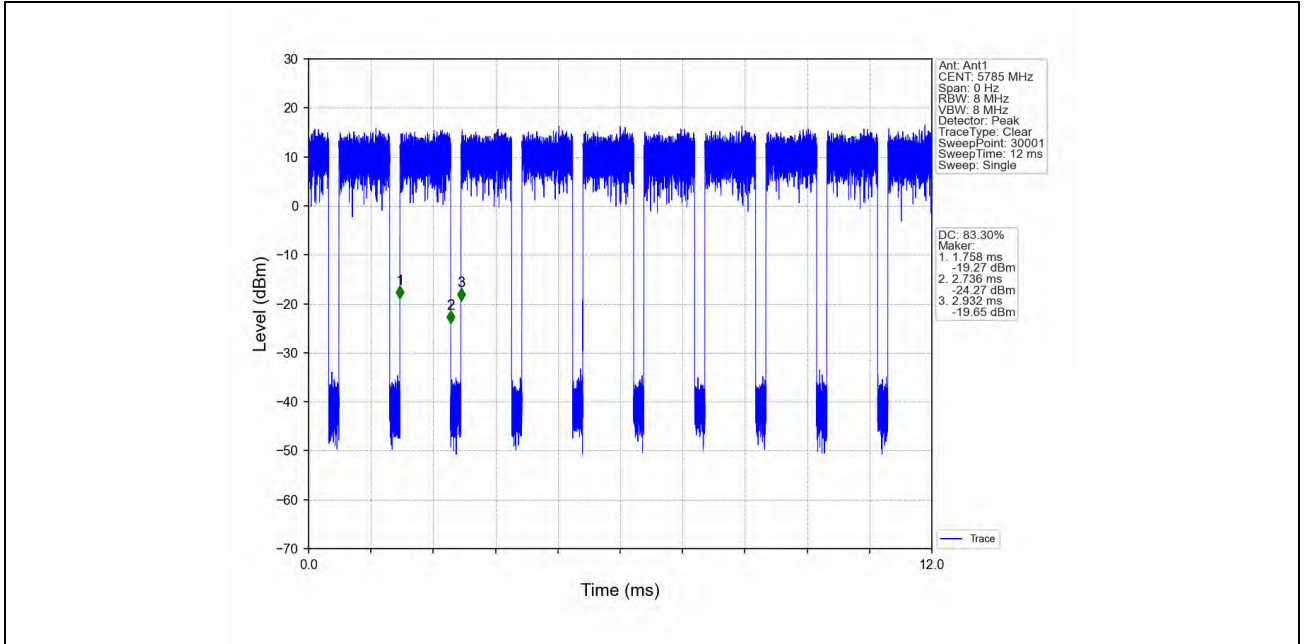


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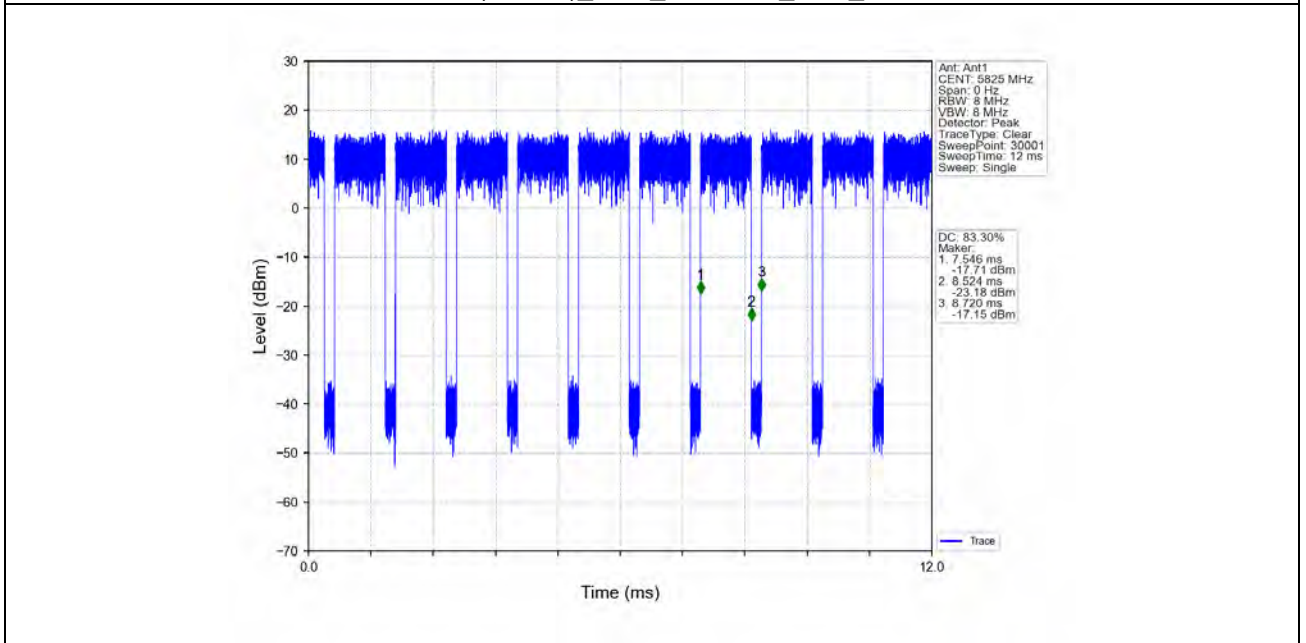
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

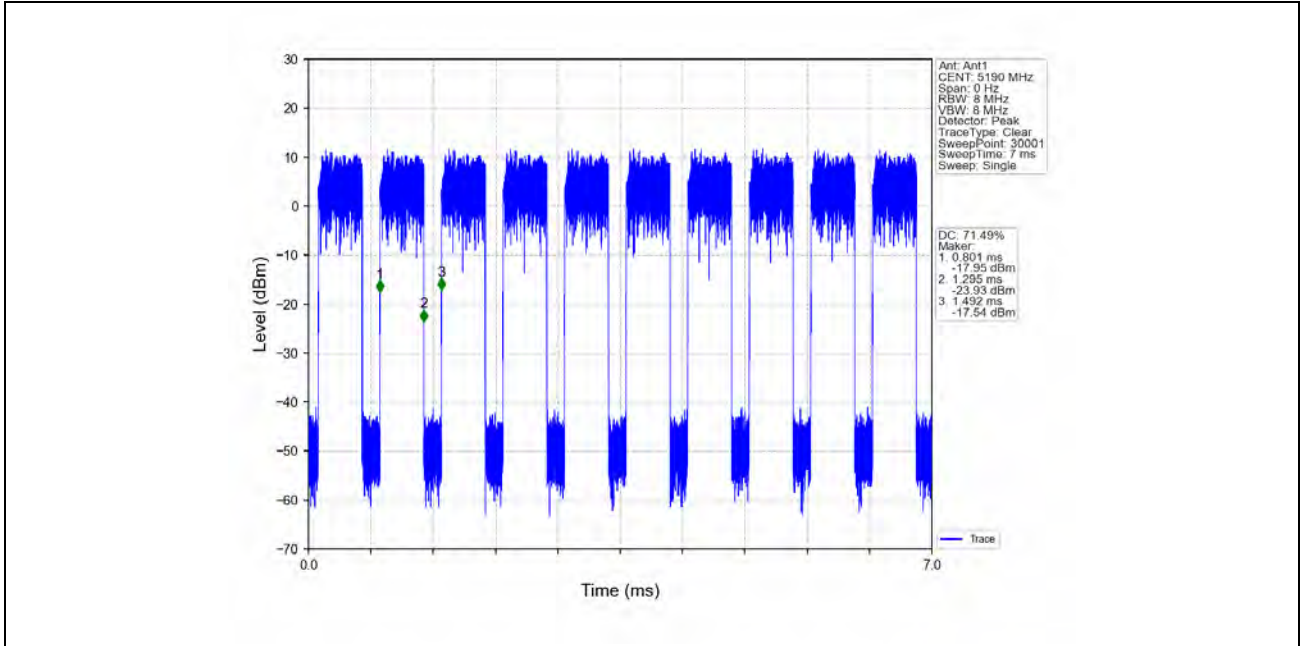


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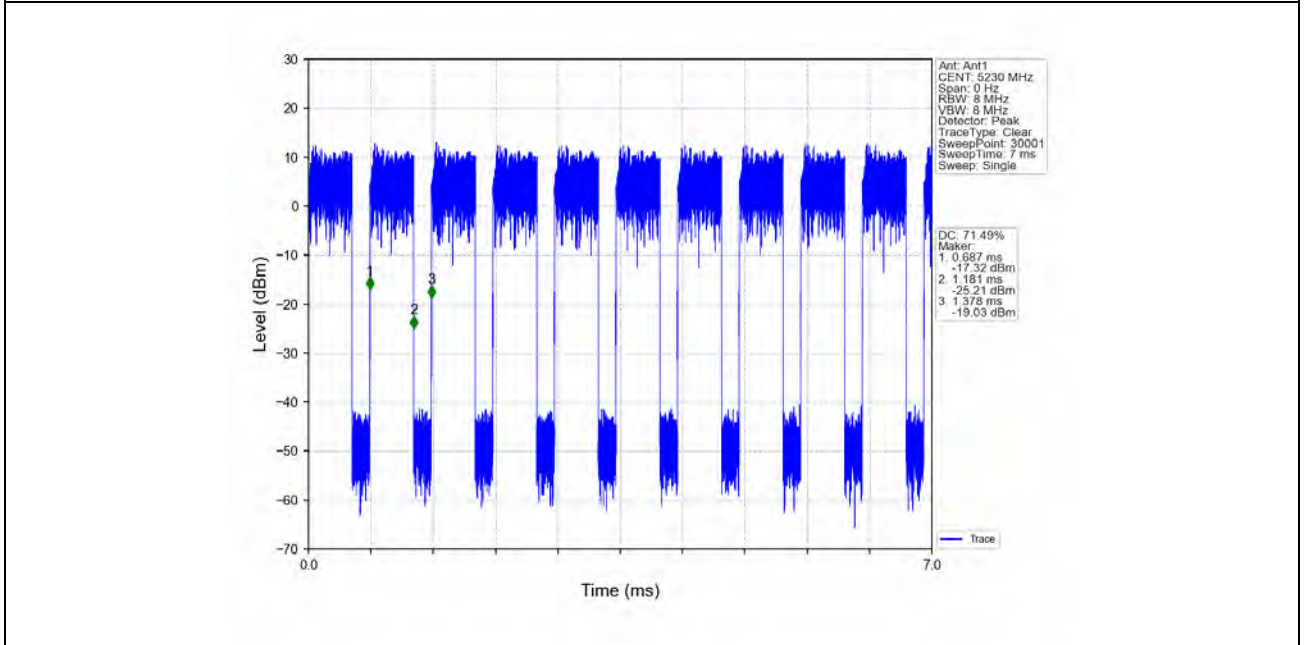
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV

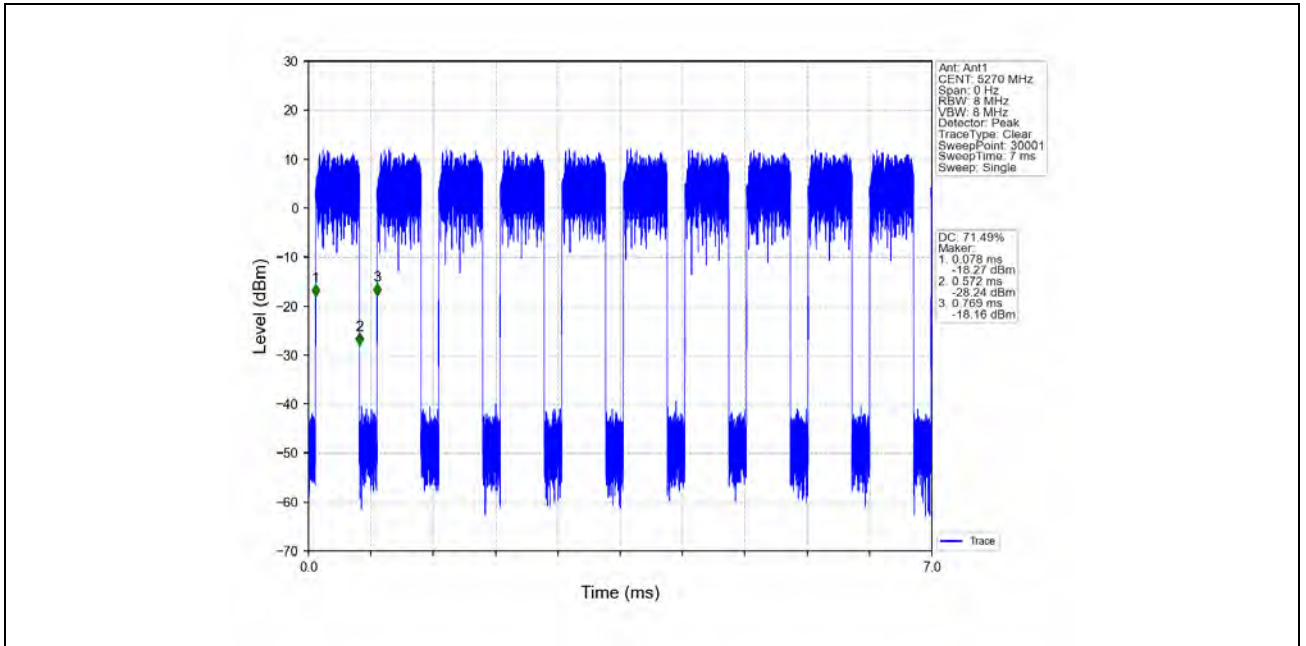


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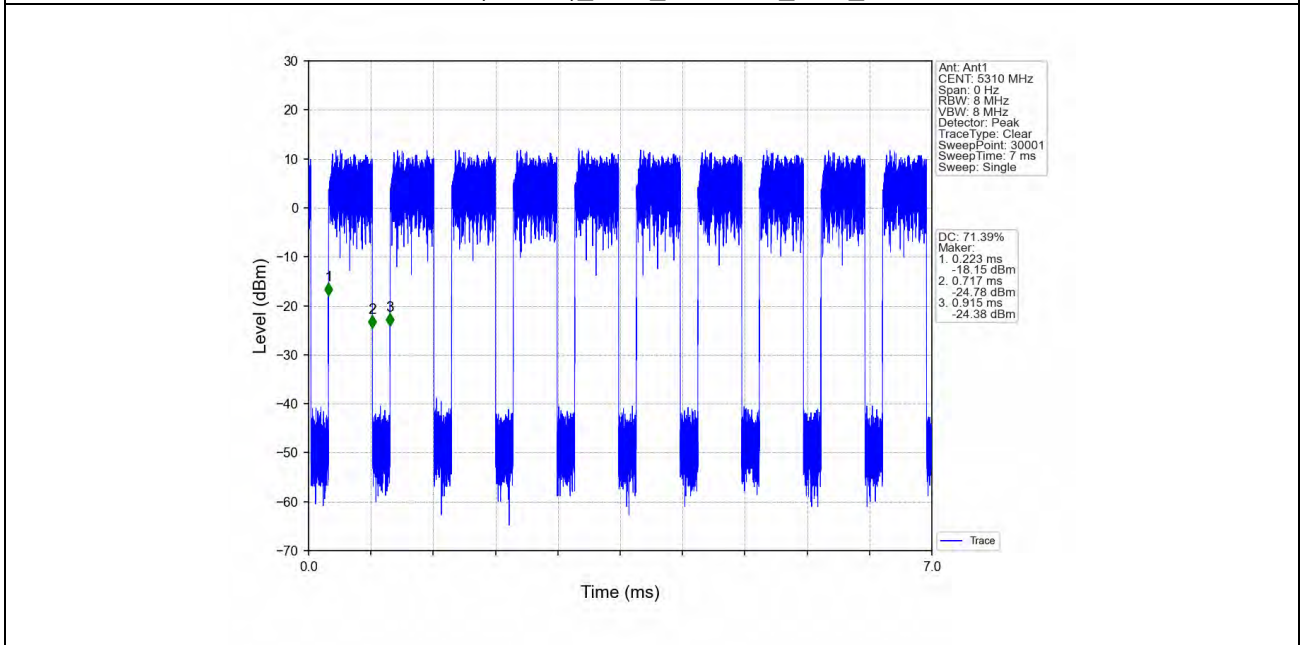
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

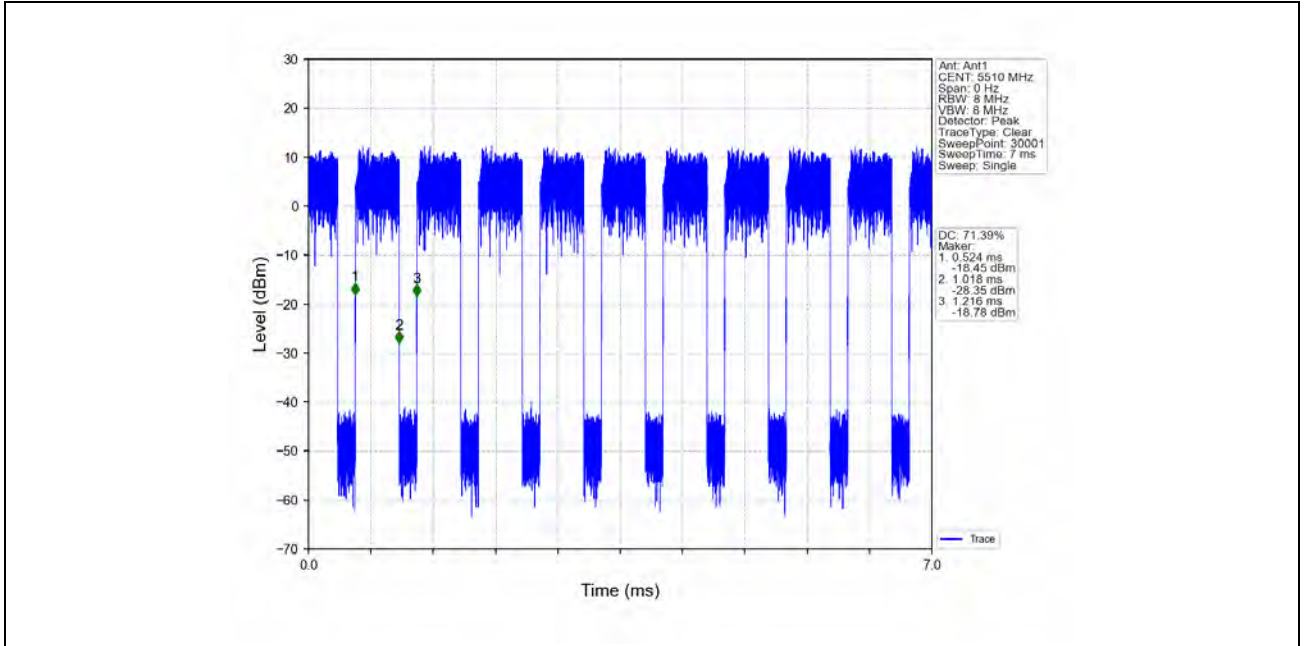


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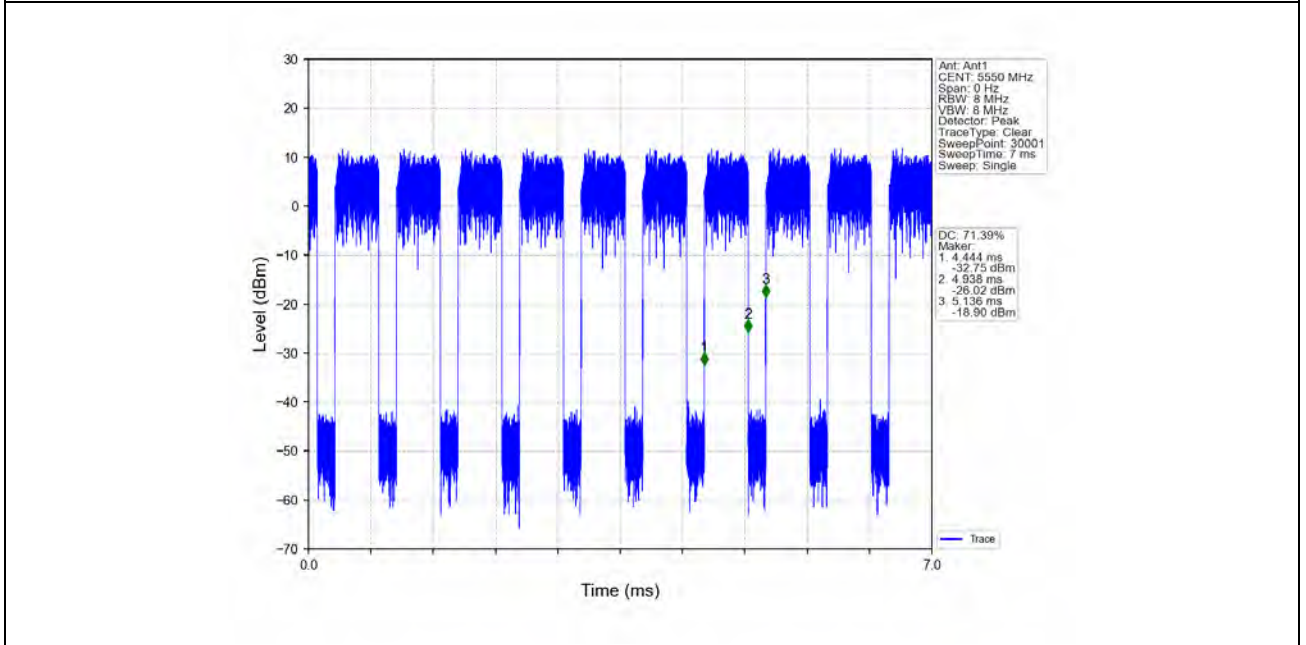
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



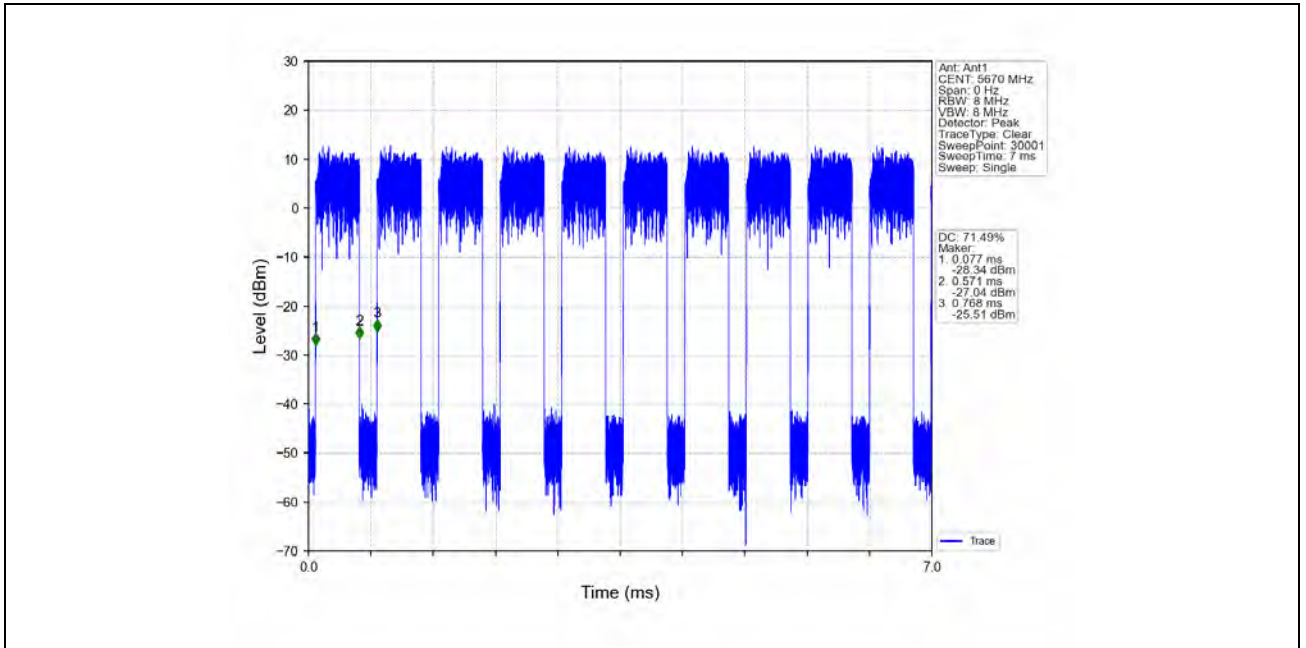
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



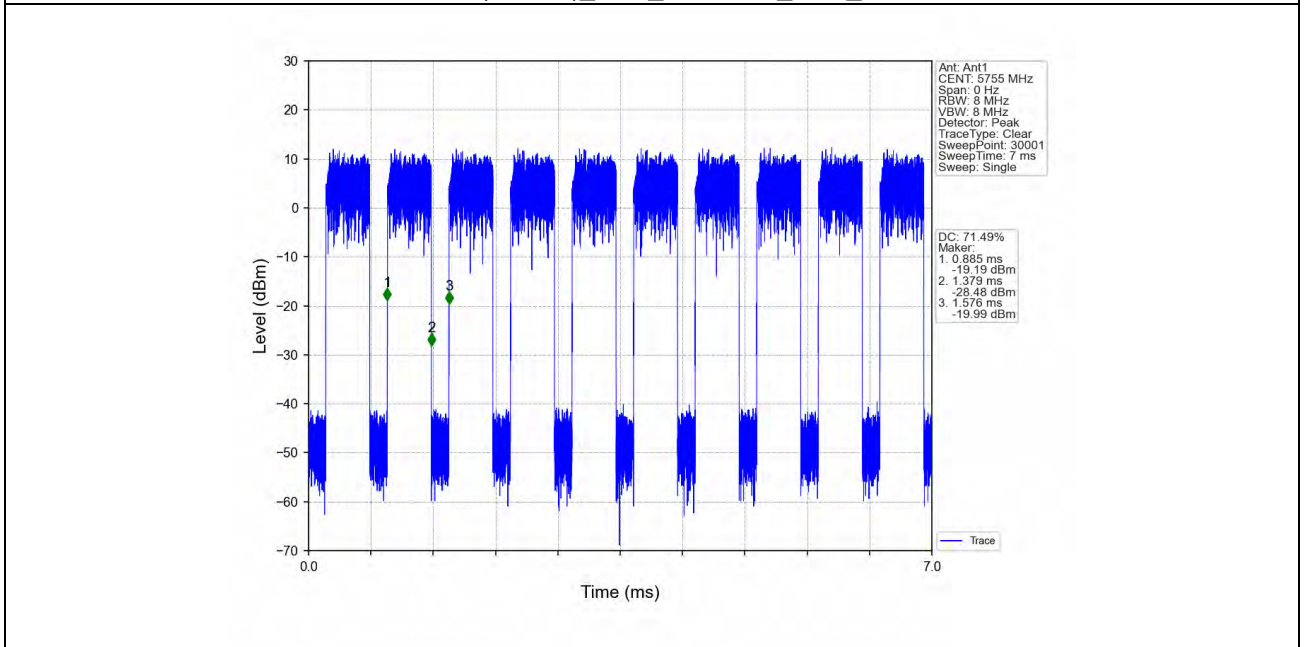
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

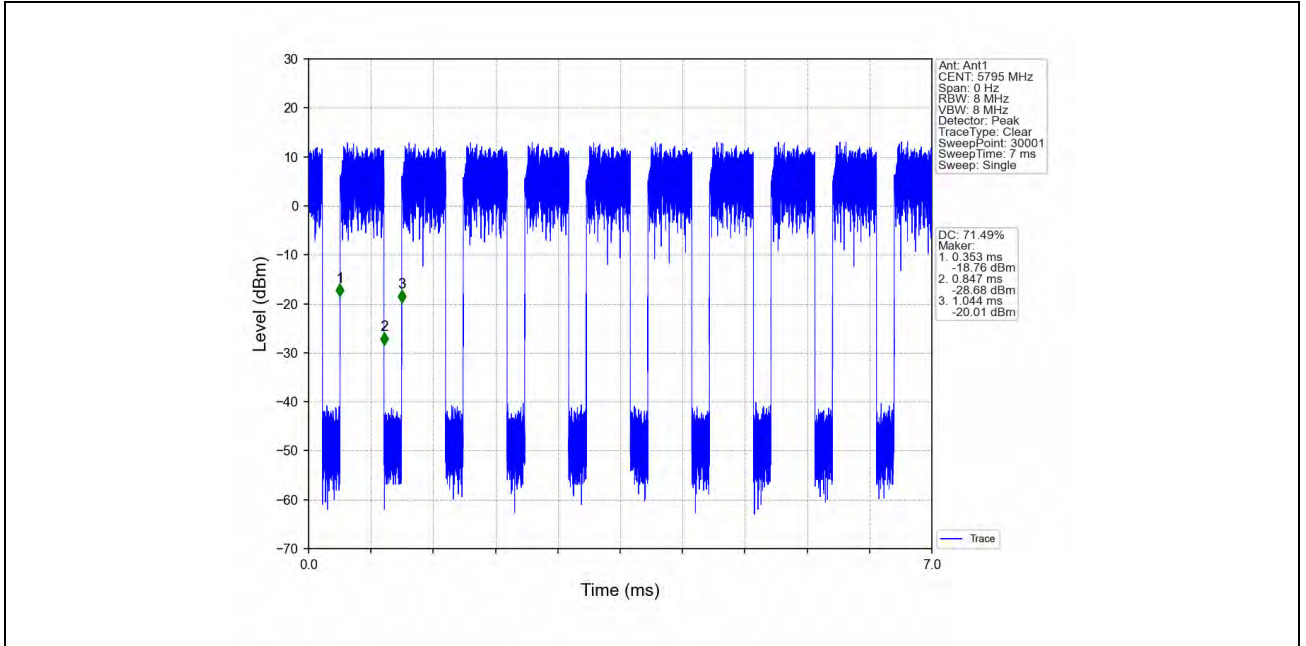


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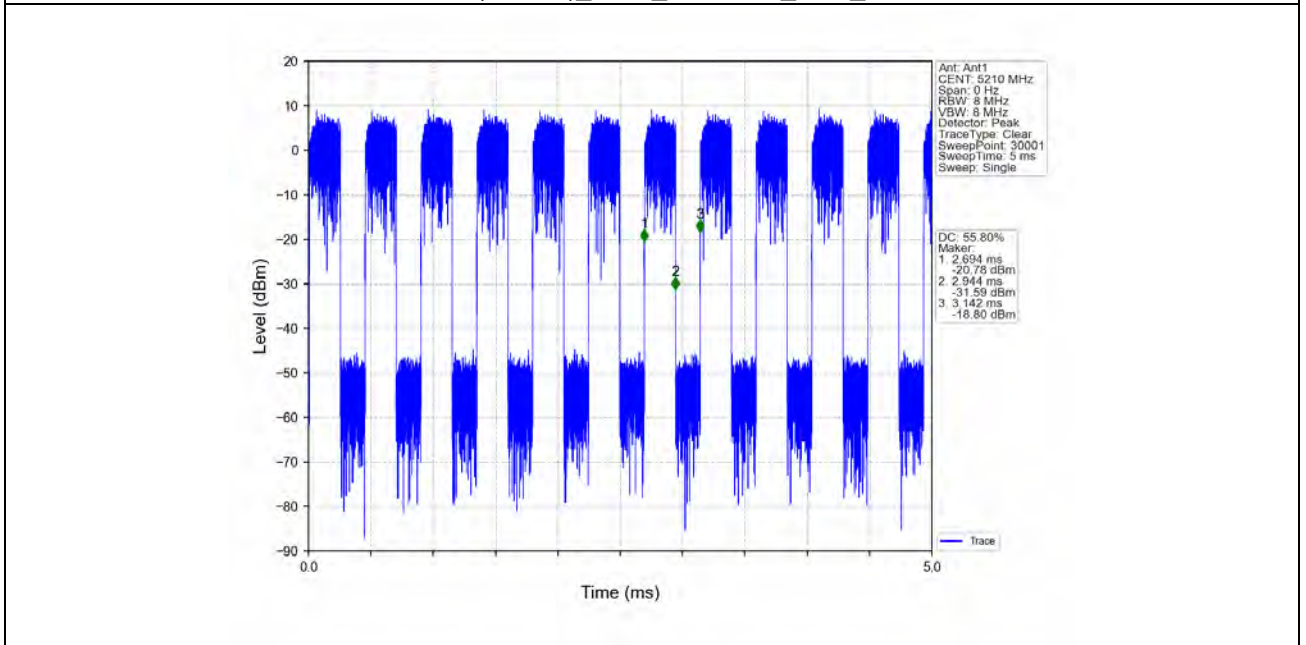
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

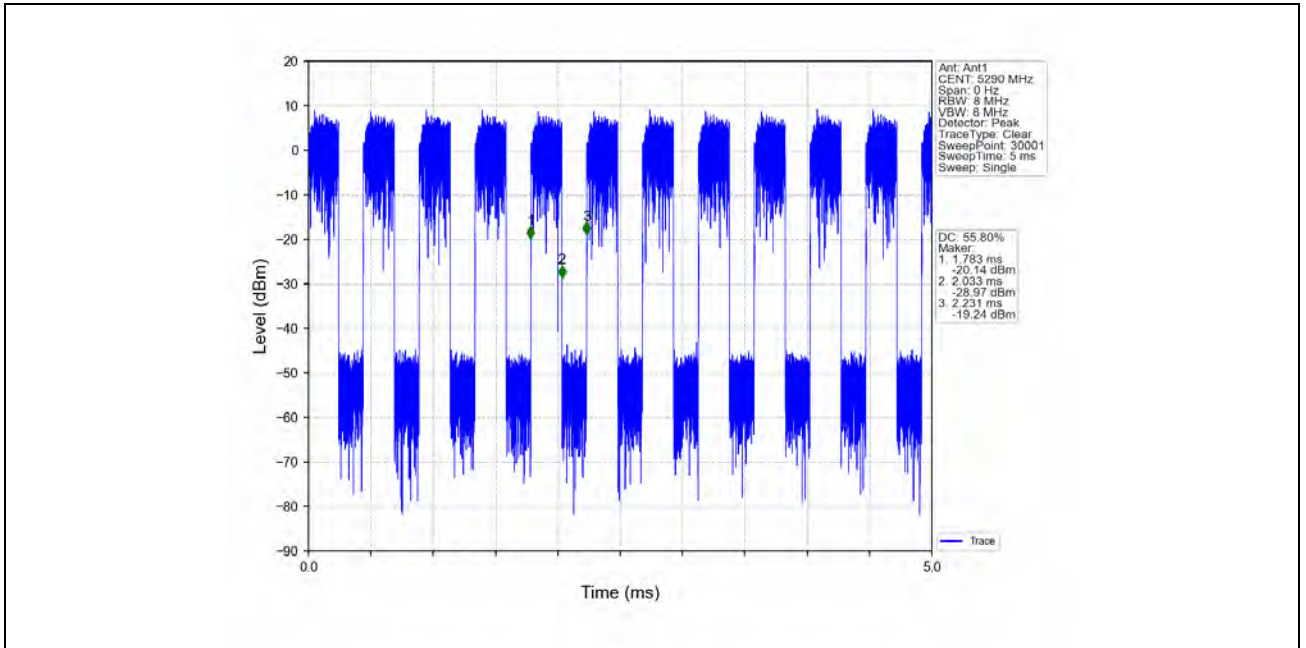


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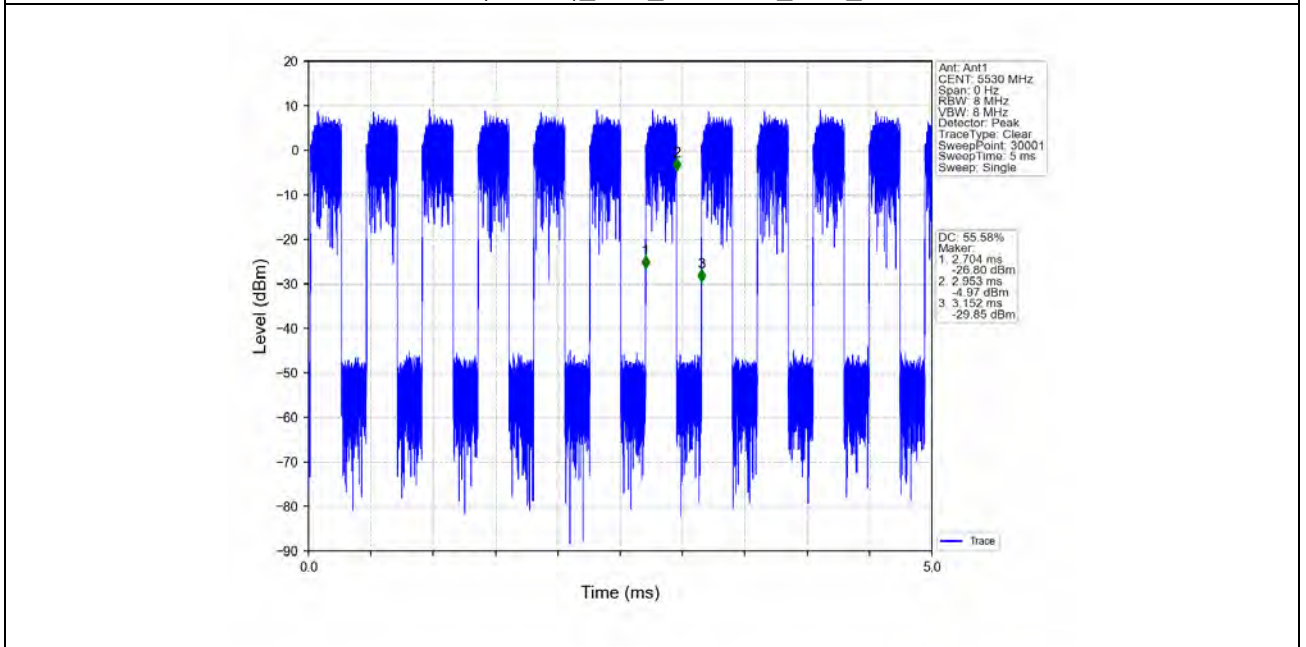
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



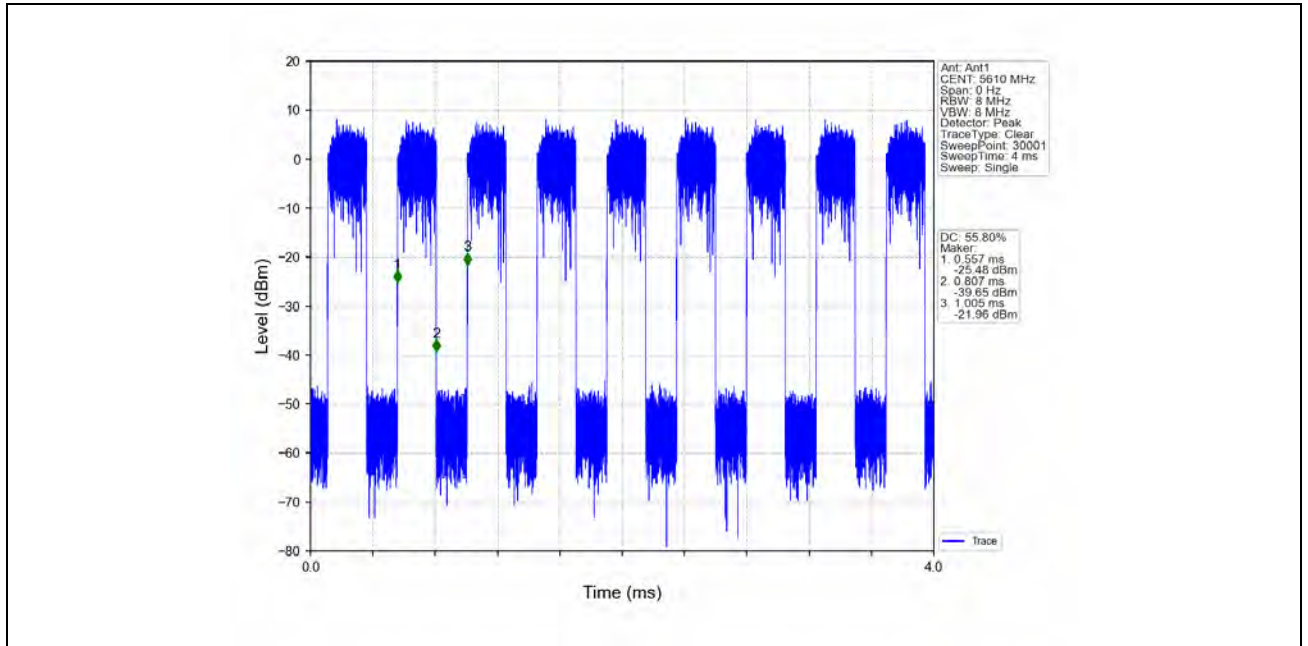
802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



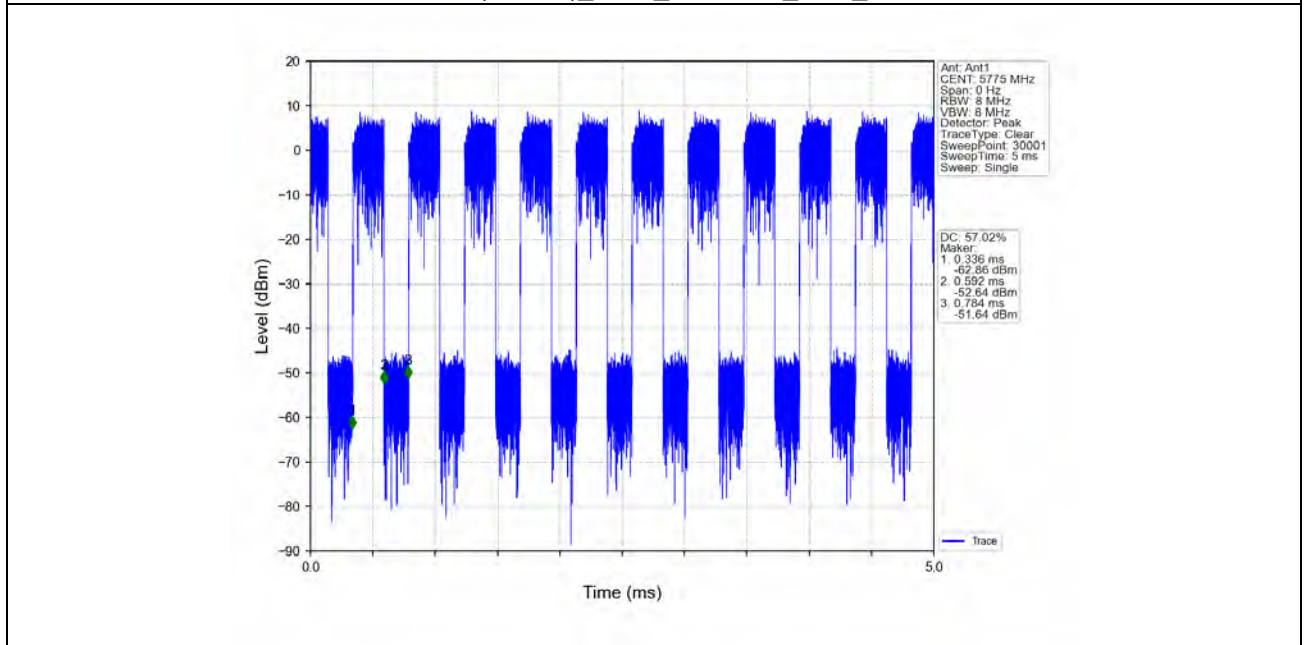
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2. Bandwidth

2.1 OBW

2.1.1 Test Result



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Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11ac (VHT20)	SISO	5180	1	21.910	Pass
		5200	1	20.554	Pass
		5240	1	20.571	Pass
		5260	1	21.449	Pass
		5300	1	20.493	Pass
		5320	1	20.286	Pass
		5500	1	19.142	Pass
		5580	1	19.680	Pass
		5700	1	22.345	Pass
		5745	1	20.009	Pass
		5785	1	19.643	Pass
		5825	1	19.310	Pass
802.11ac (VHT40)	SISO	5190	1	37.870	Pass
		5230	1	37.636	Pass
		5270	1	38.163	Pass
		5310	1	37.706	Pass
		5510	1	36.941	Pass
		5550	1	37.445	Pass
		5670	1	38.313	Pass
		5755	1	38.006	Pass
802.11ac (VHT80)	SISO	5210	1	76.226	Pass
		5290	1	76.109	Pass
		5530	1	75.213	Pass
		5610	1	75.675	Pass
		5775	1	76.444	Pass

2.1.2 Test Graph

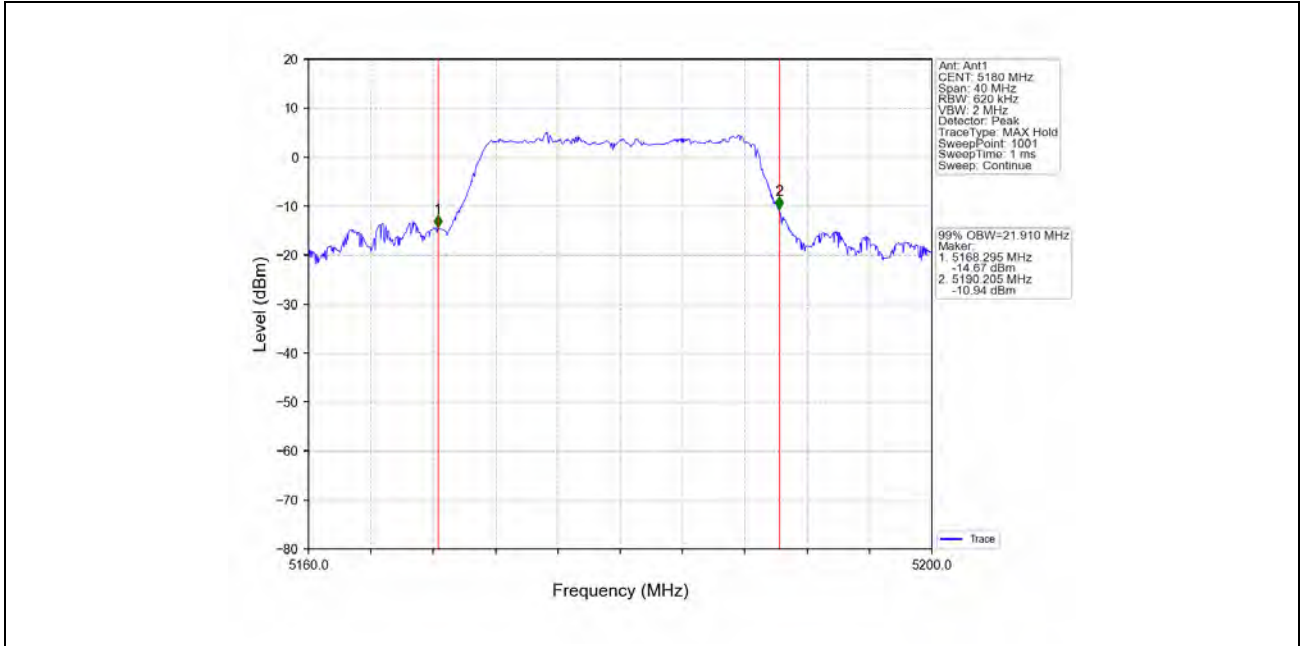
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



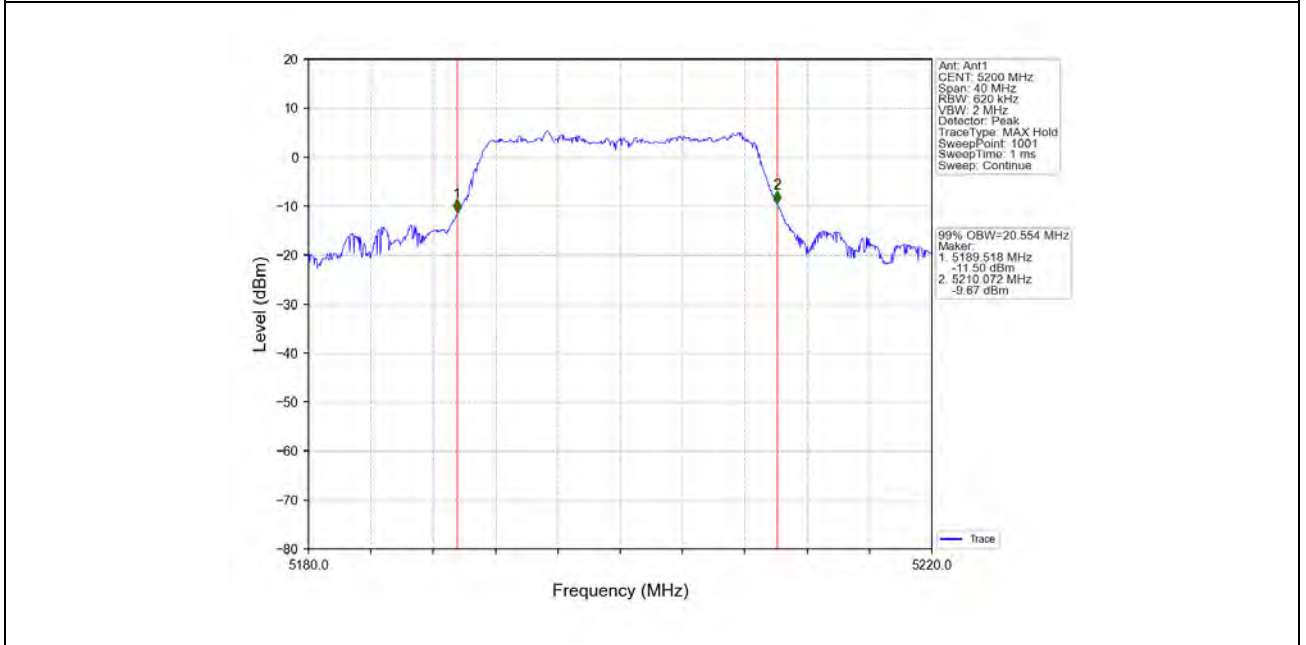
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

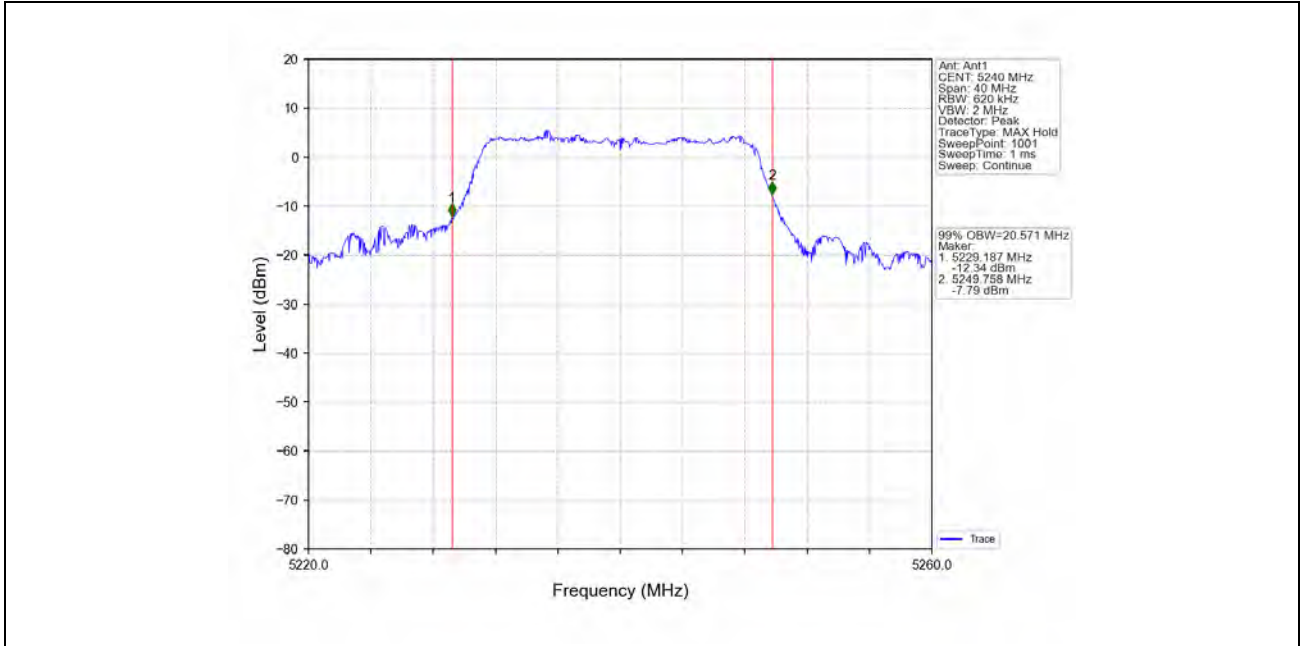


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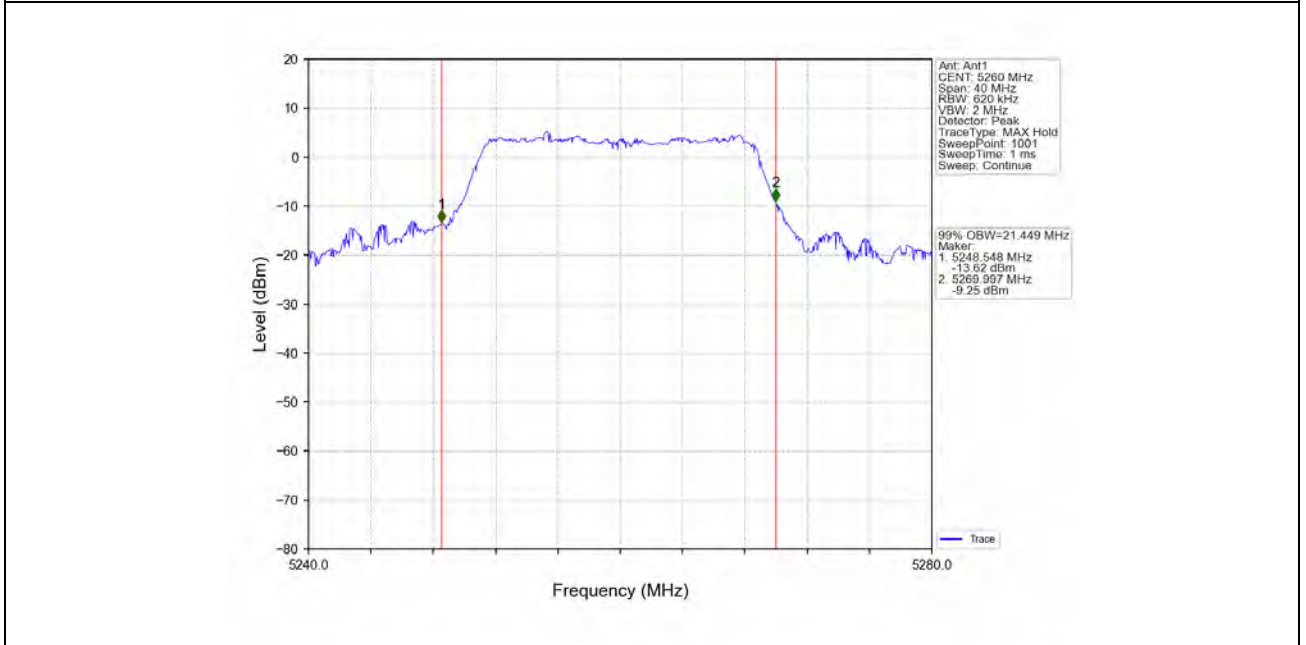
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV

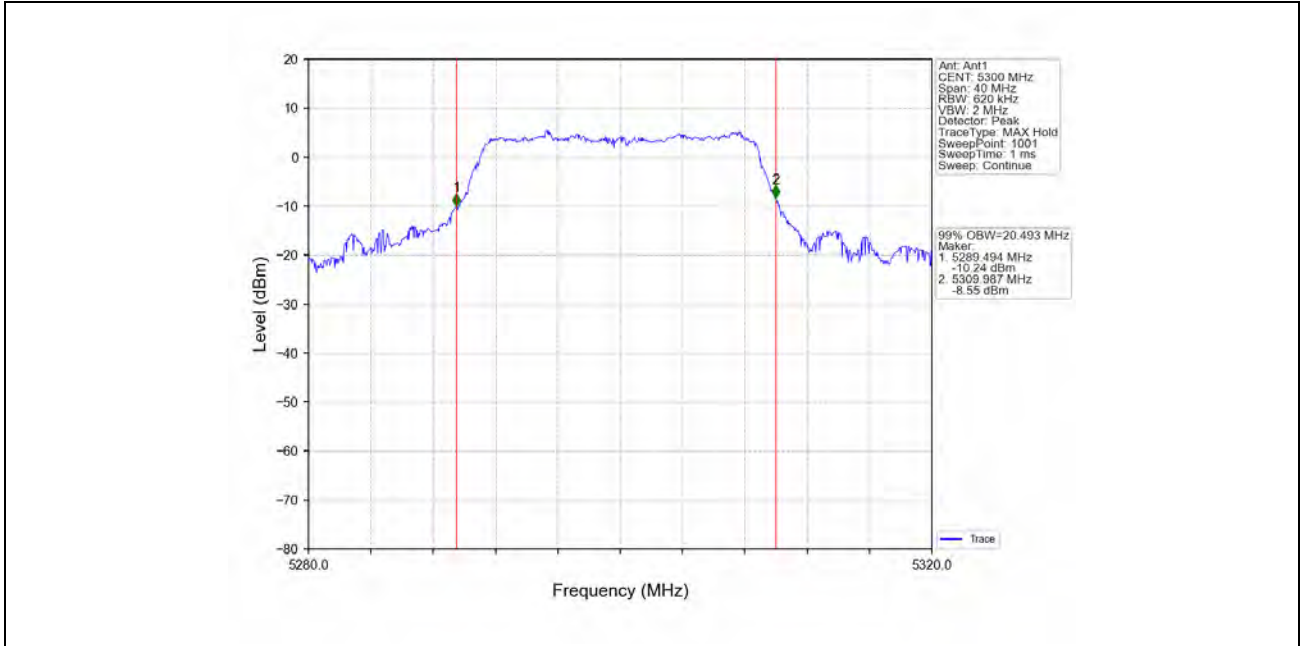


802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

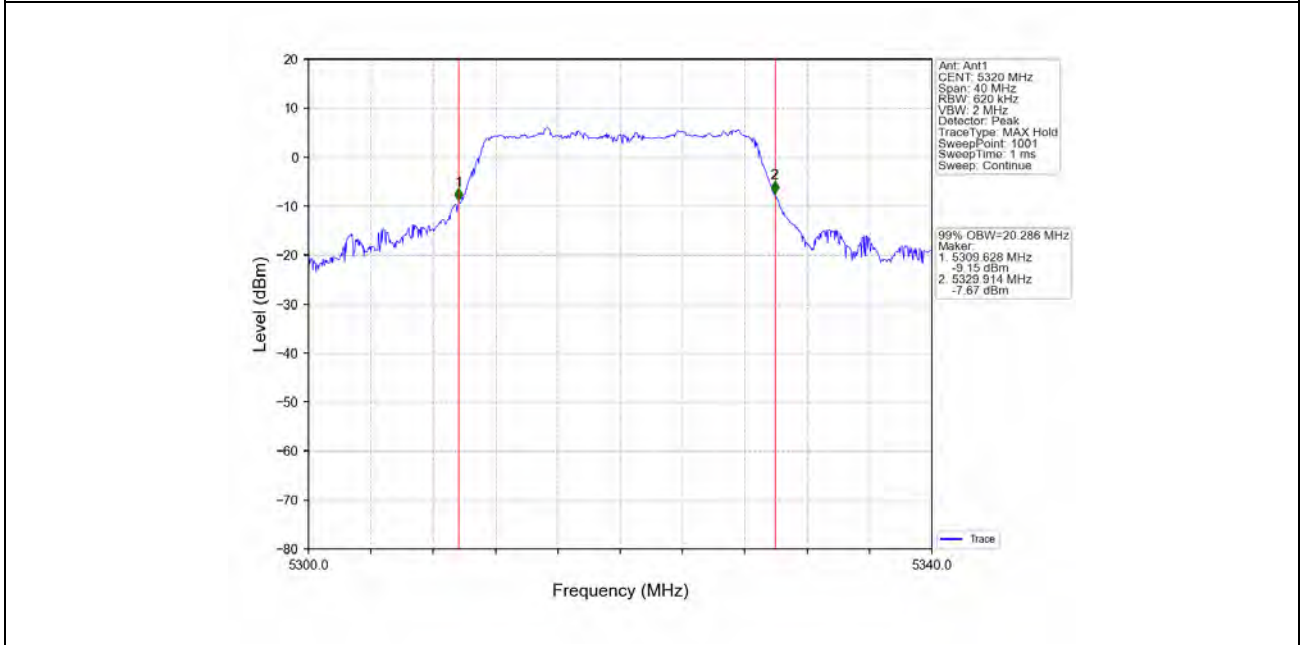


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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV

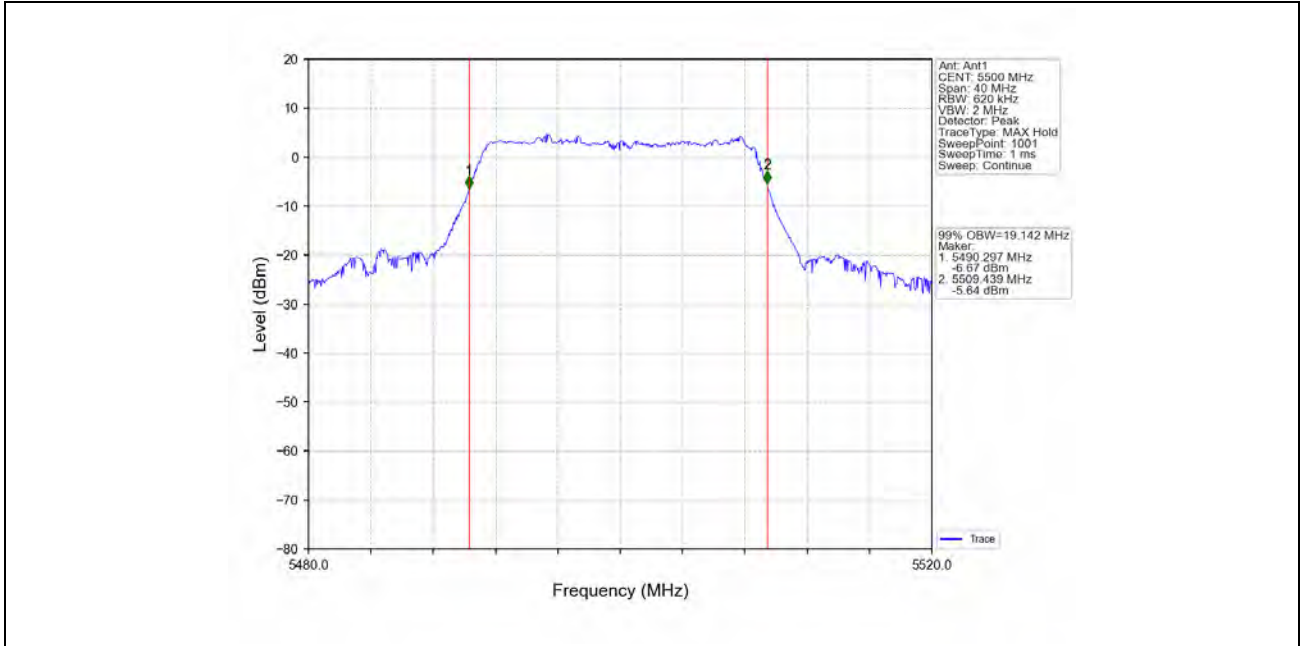


802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

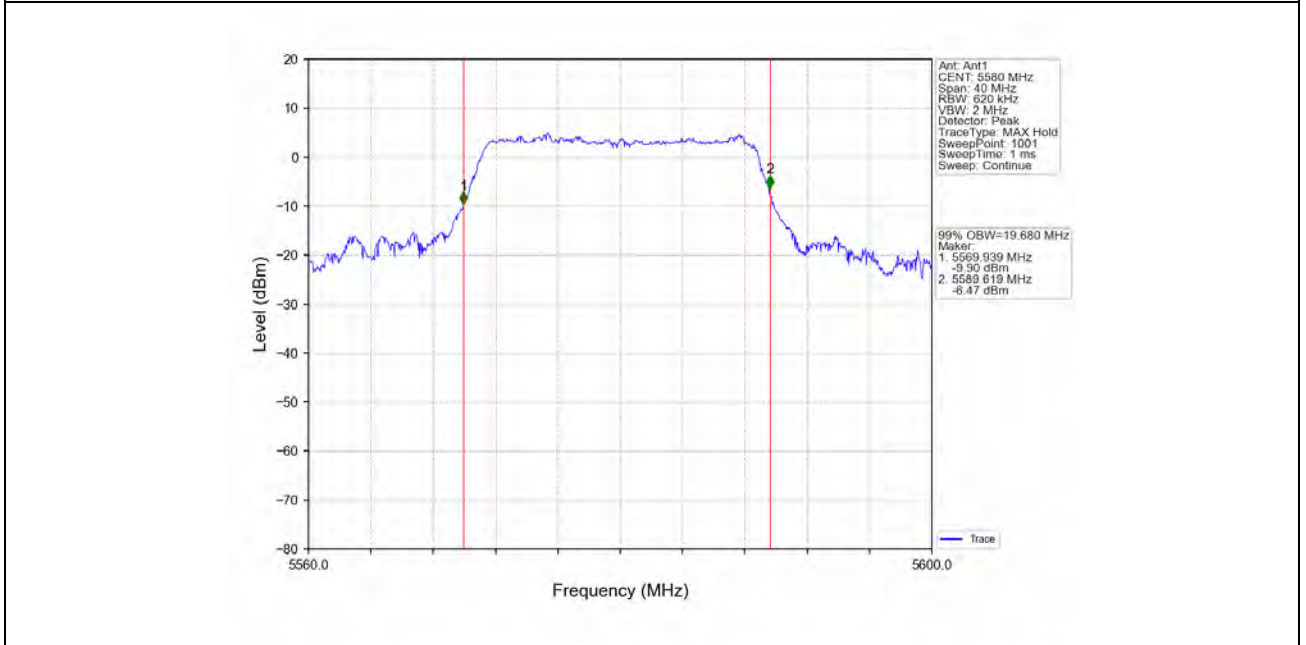


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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

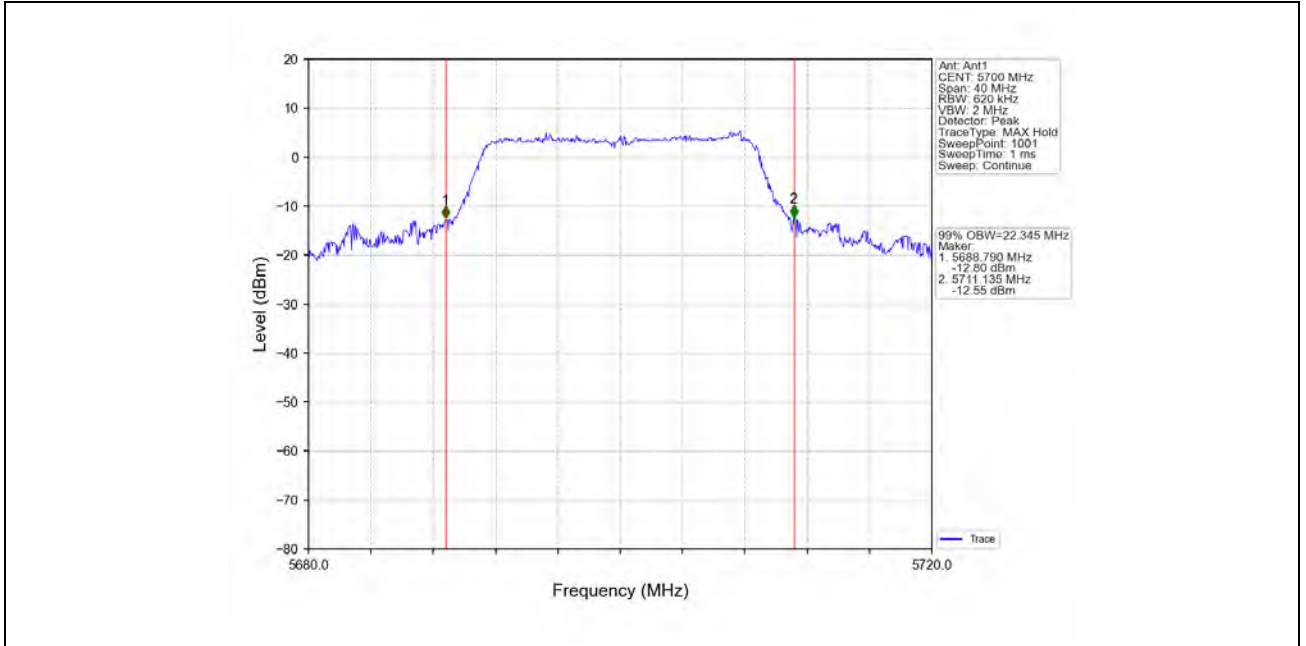


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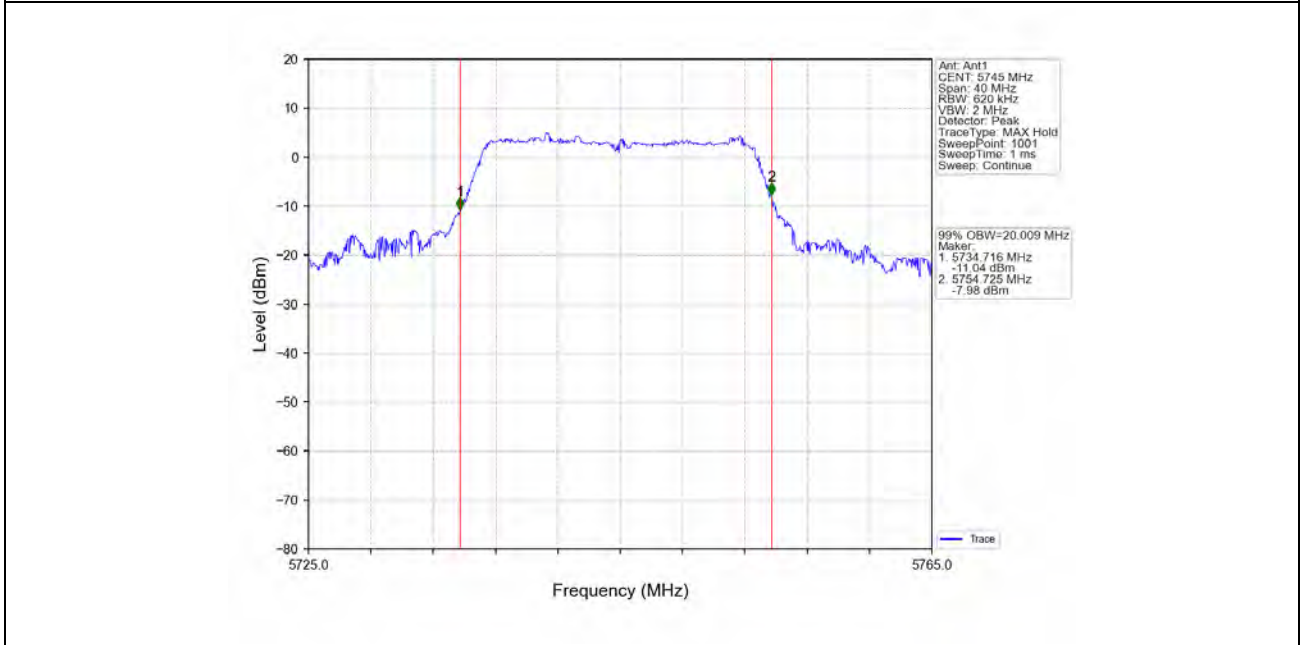
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

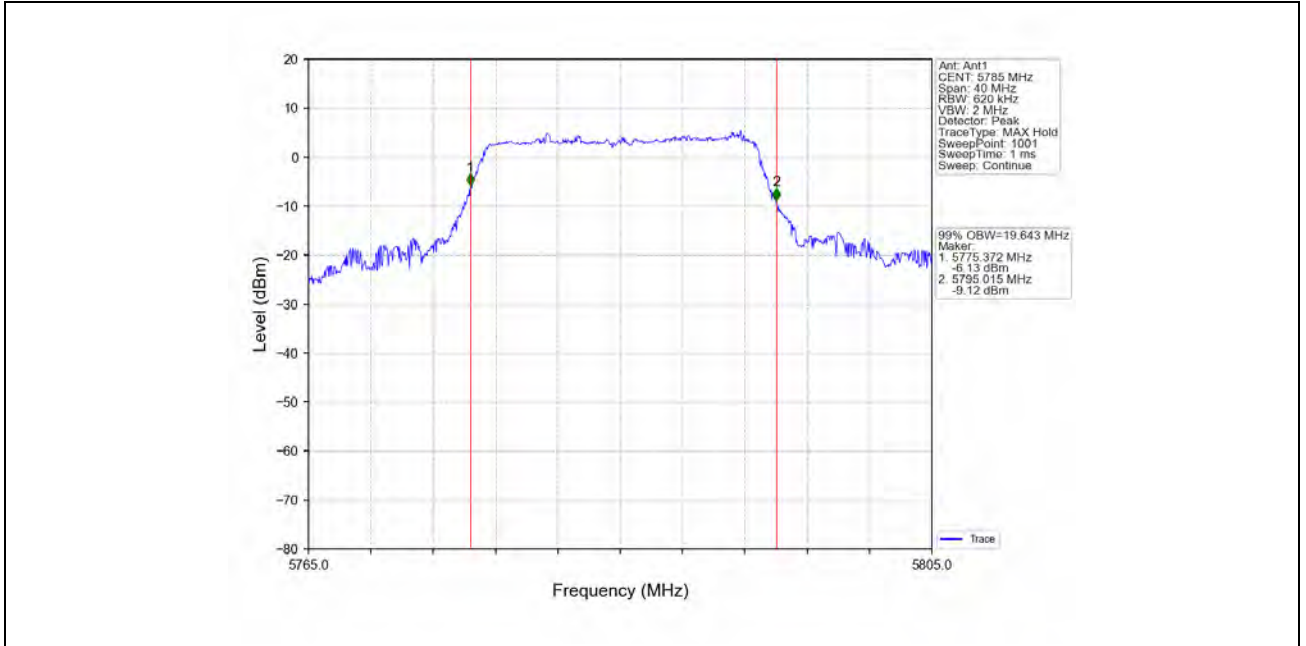


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

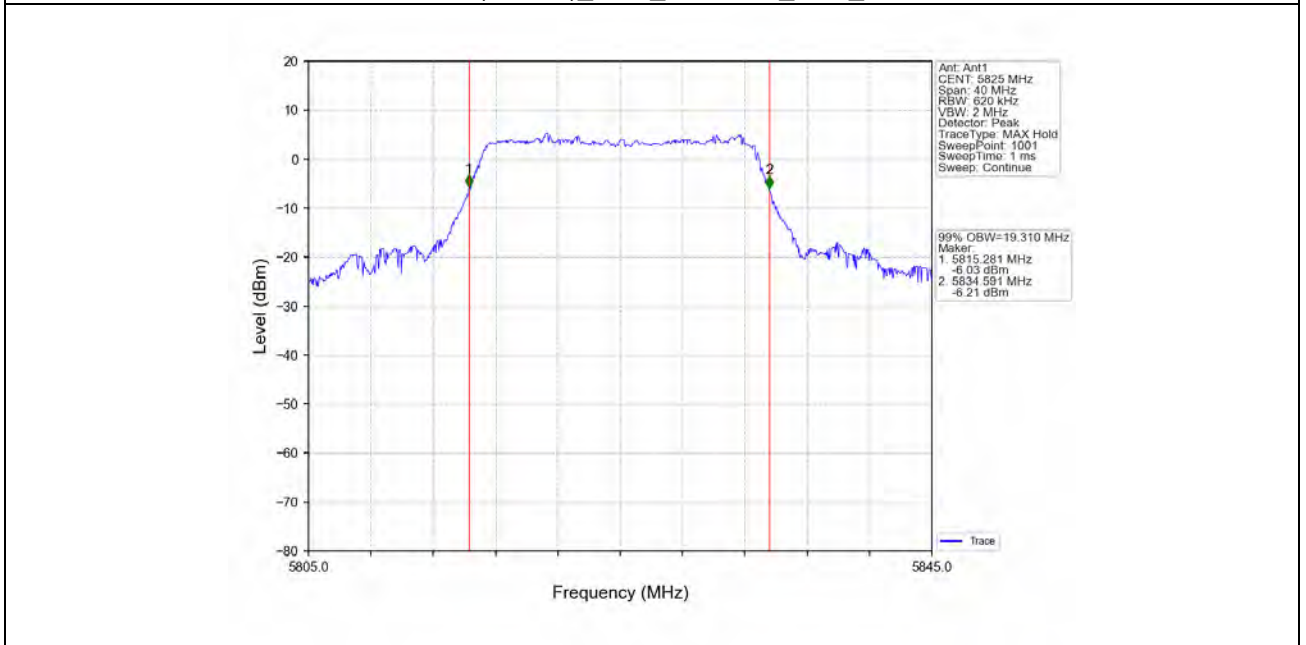


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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

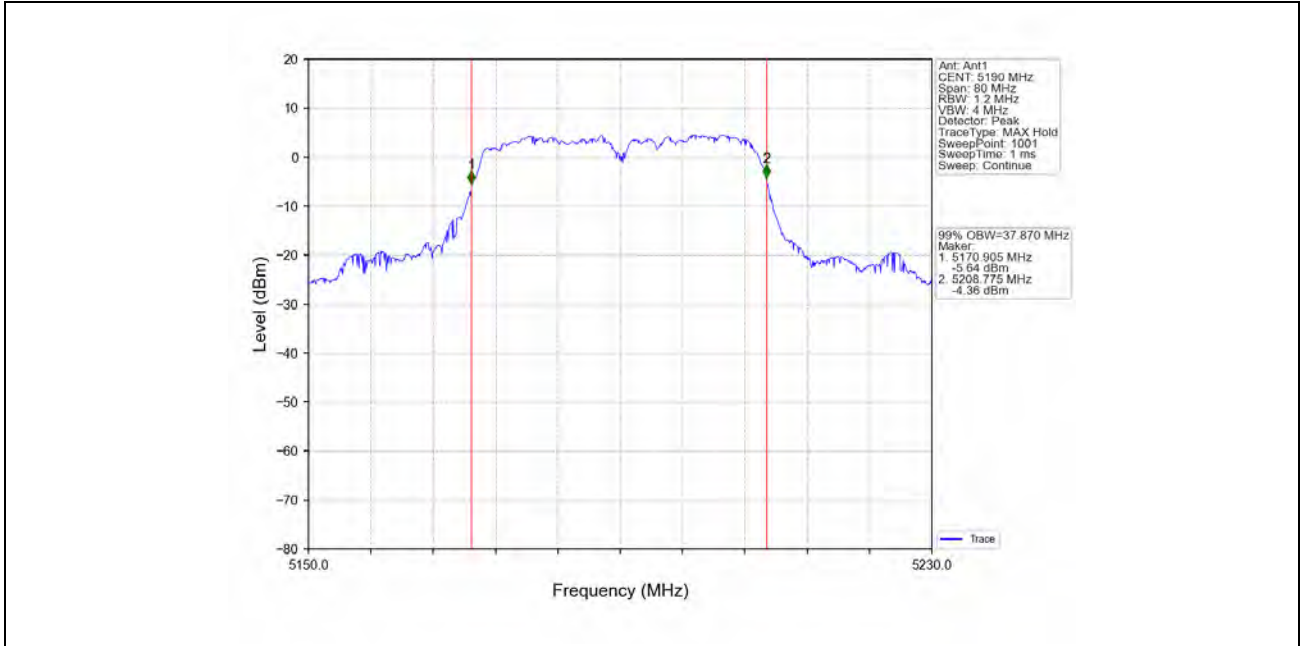


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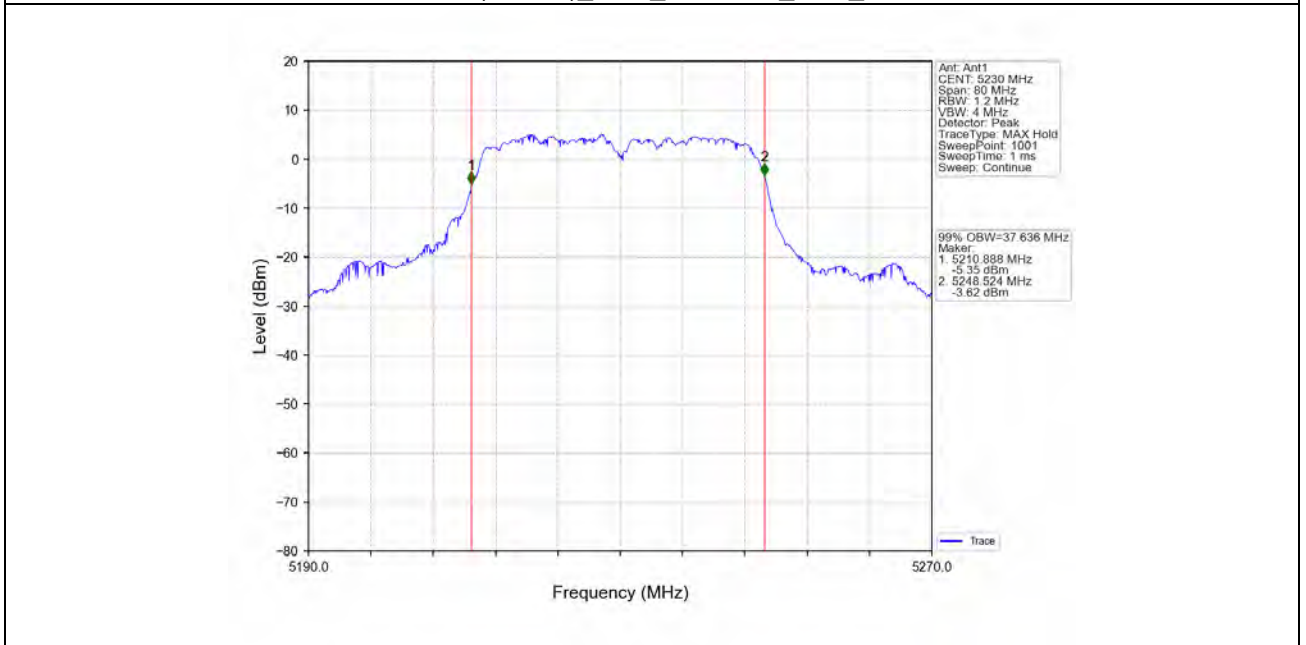
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV

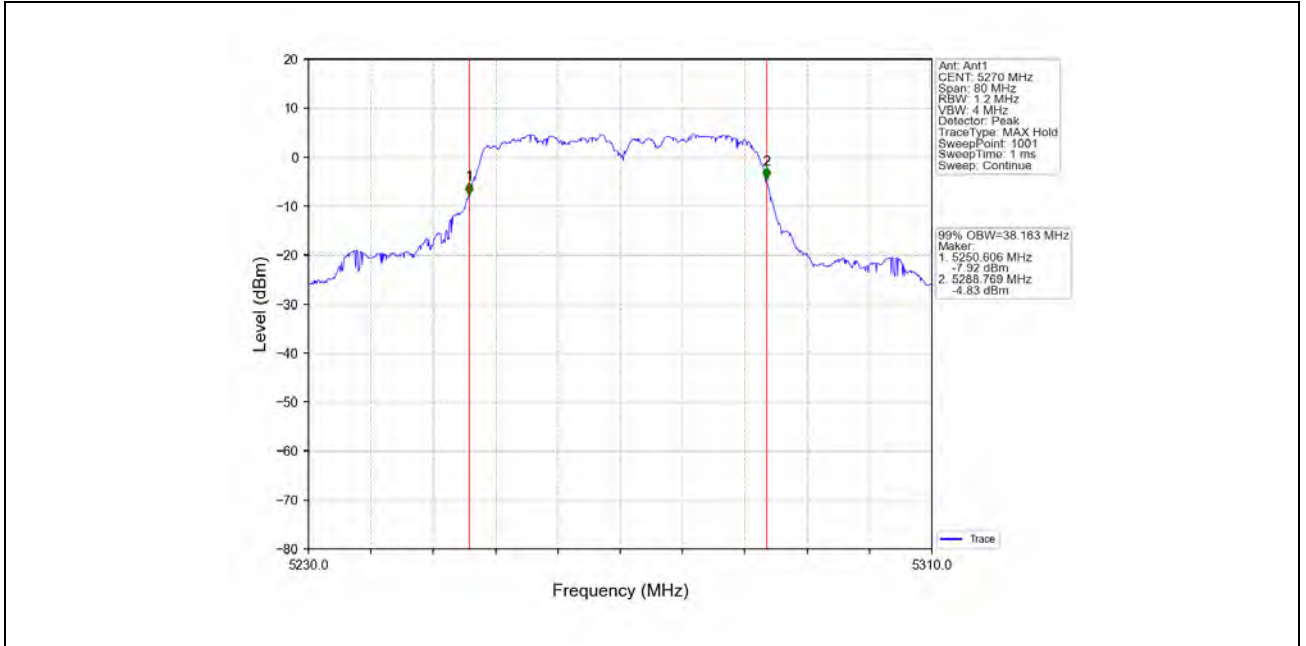


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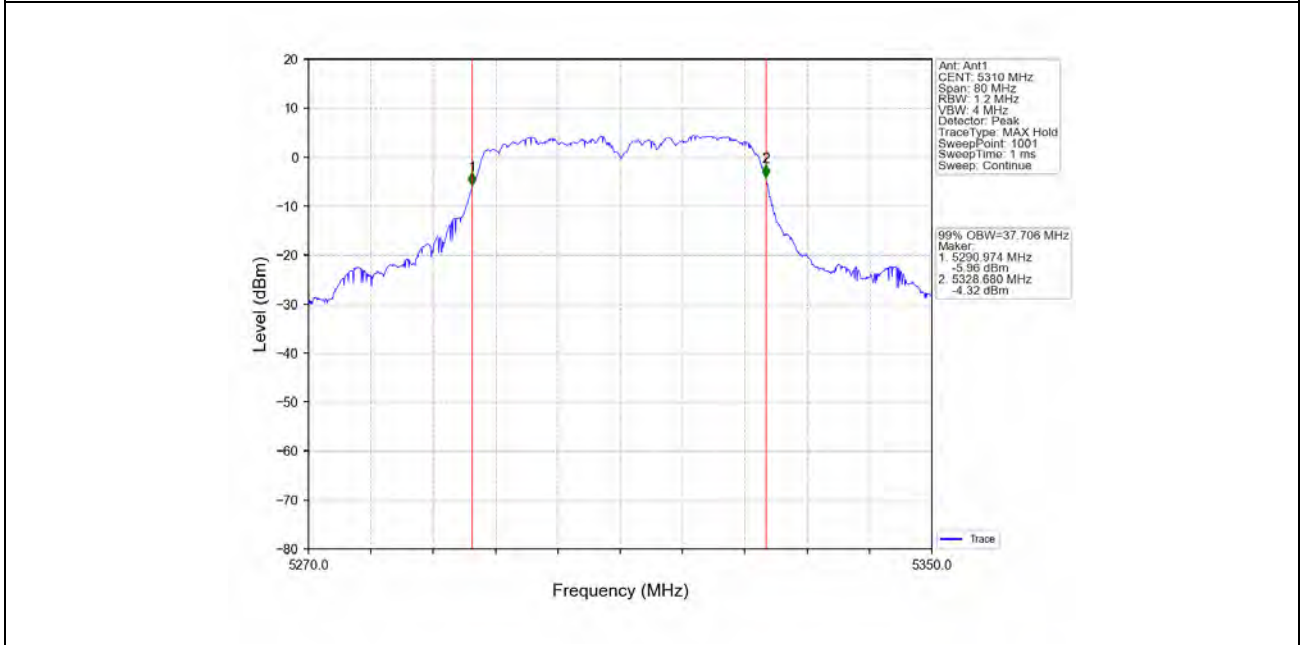
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV

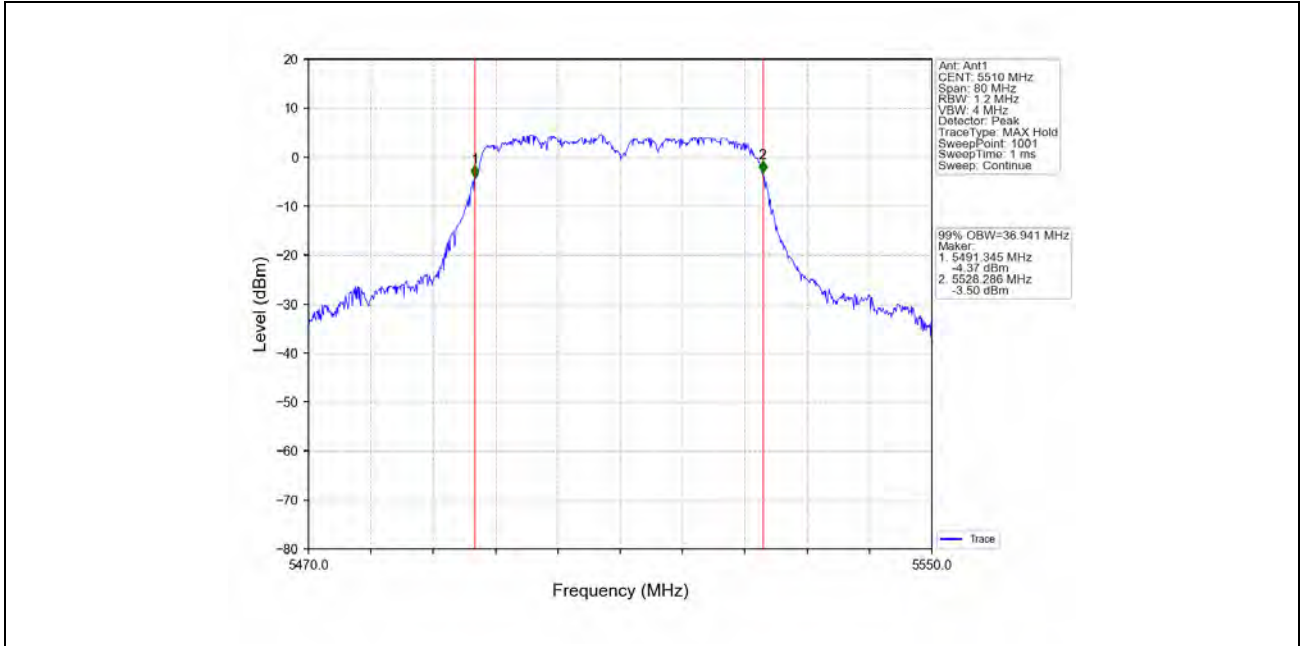


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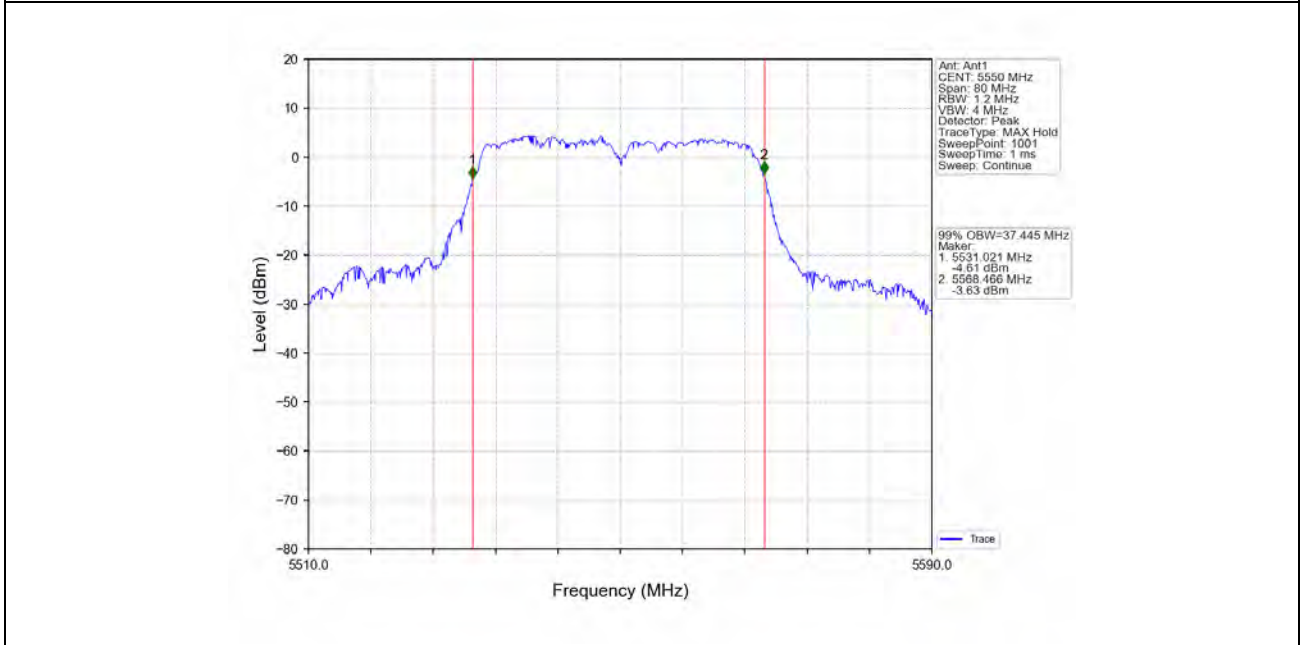
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV

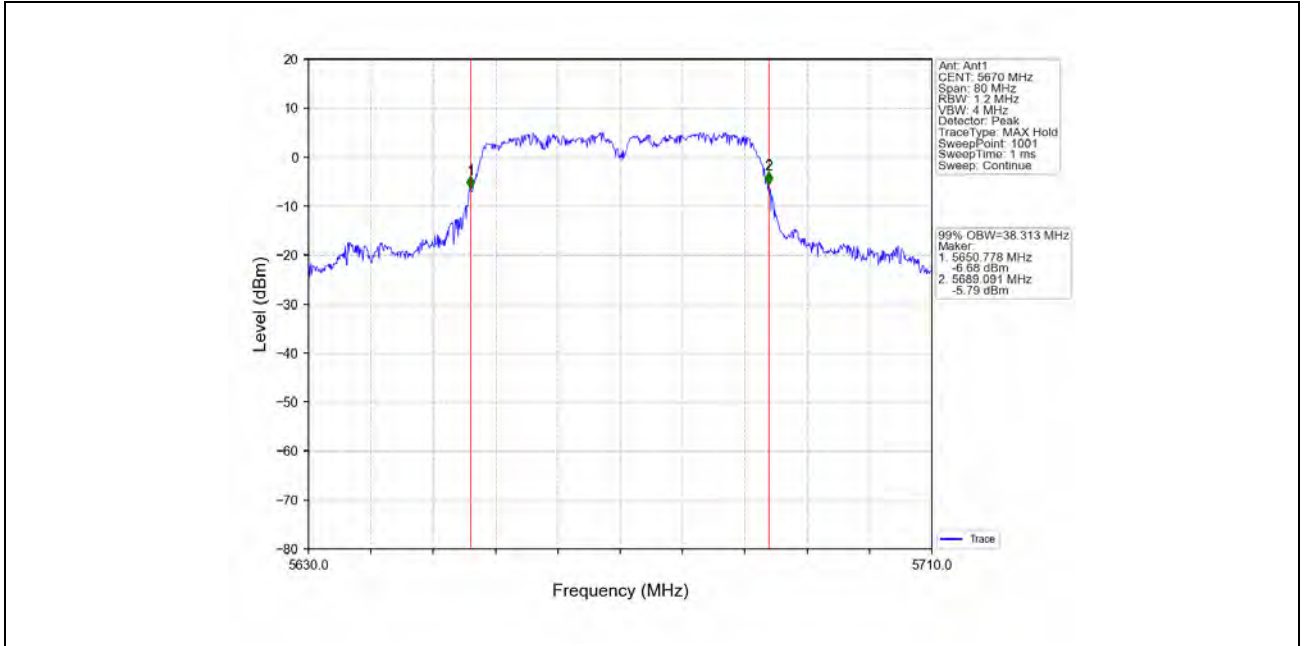


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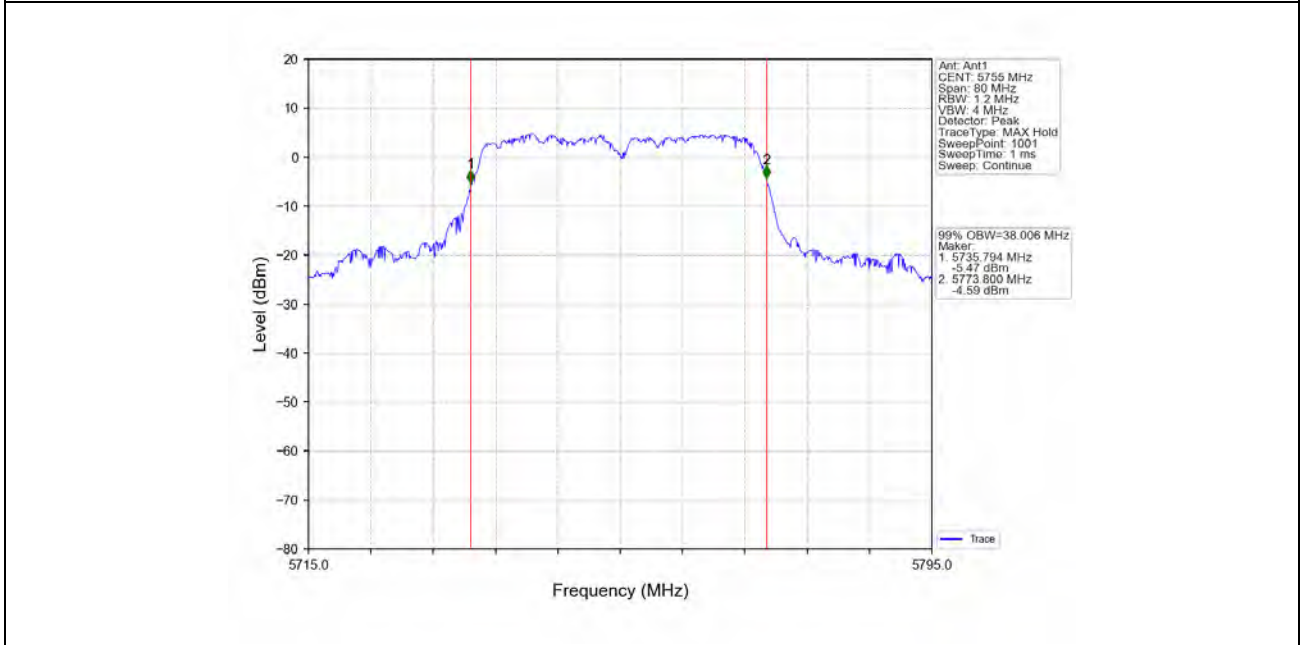
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

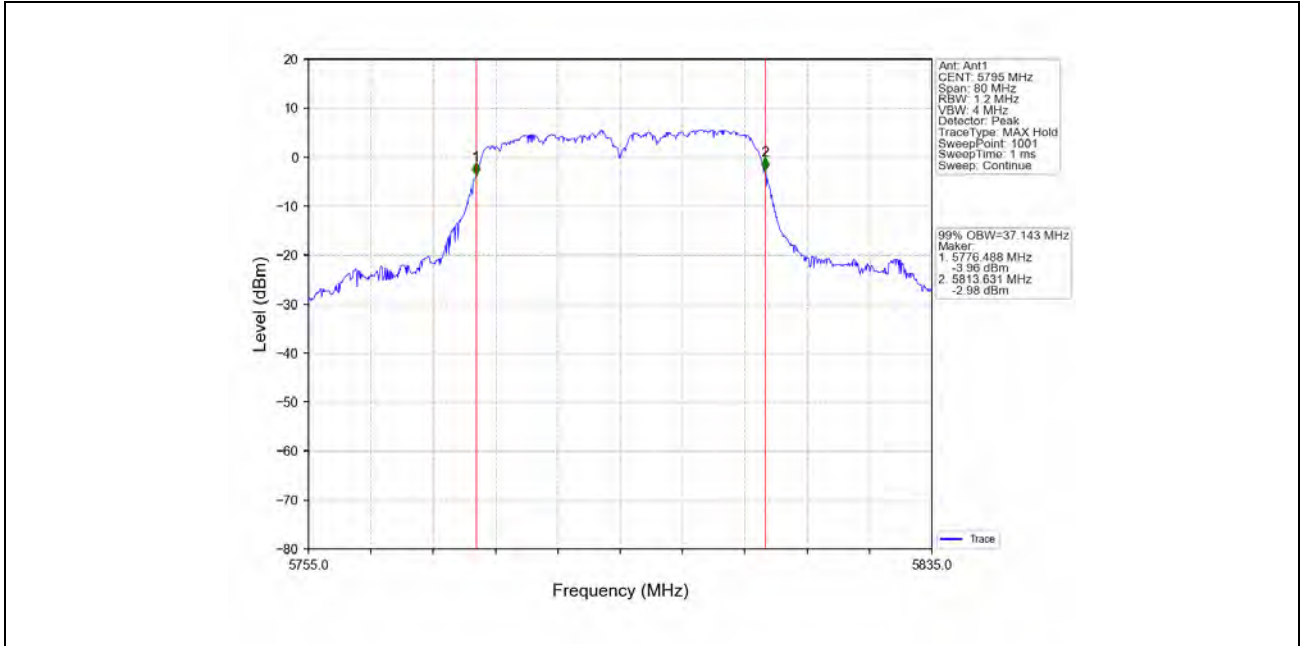


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

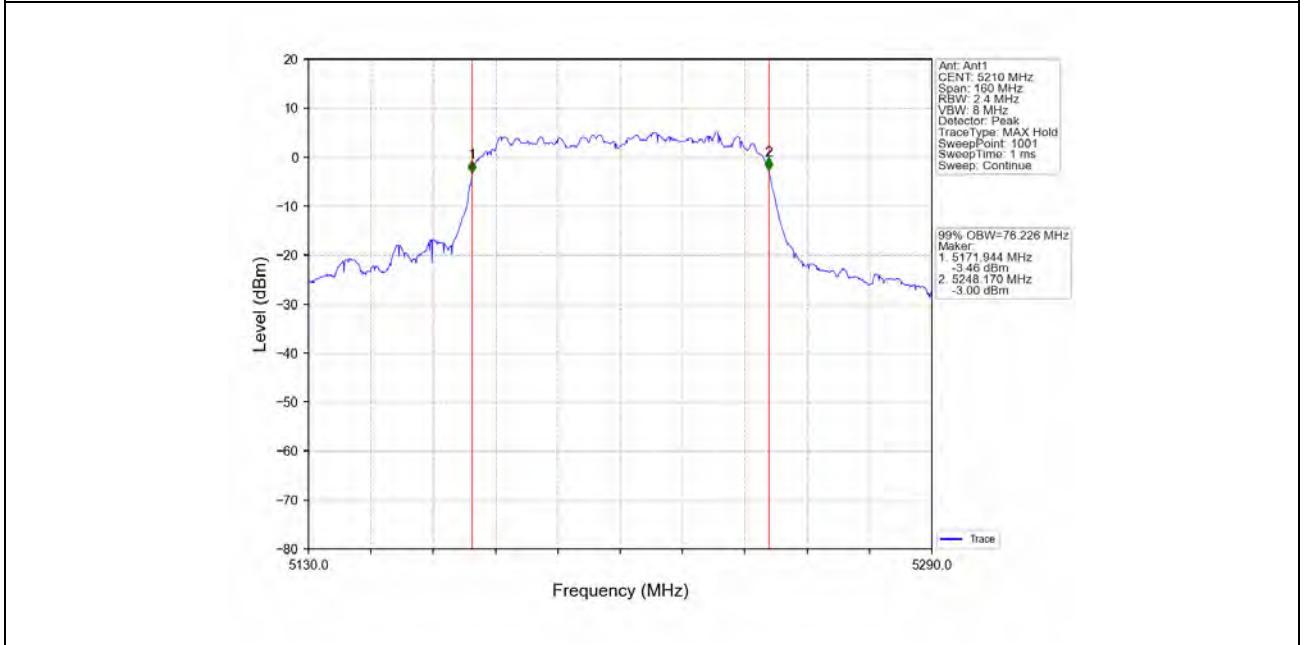


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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

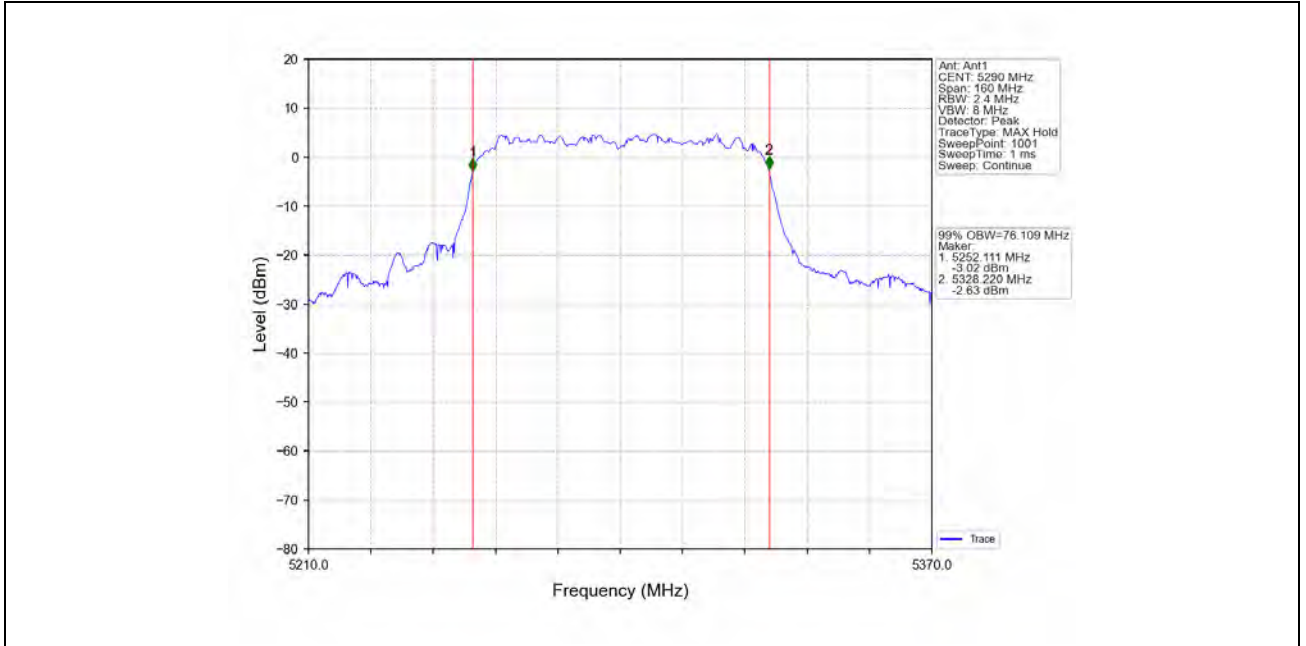


802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

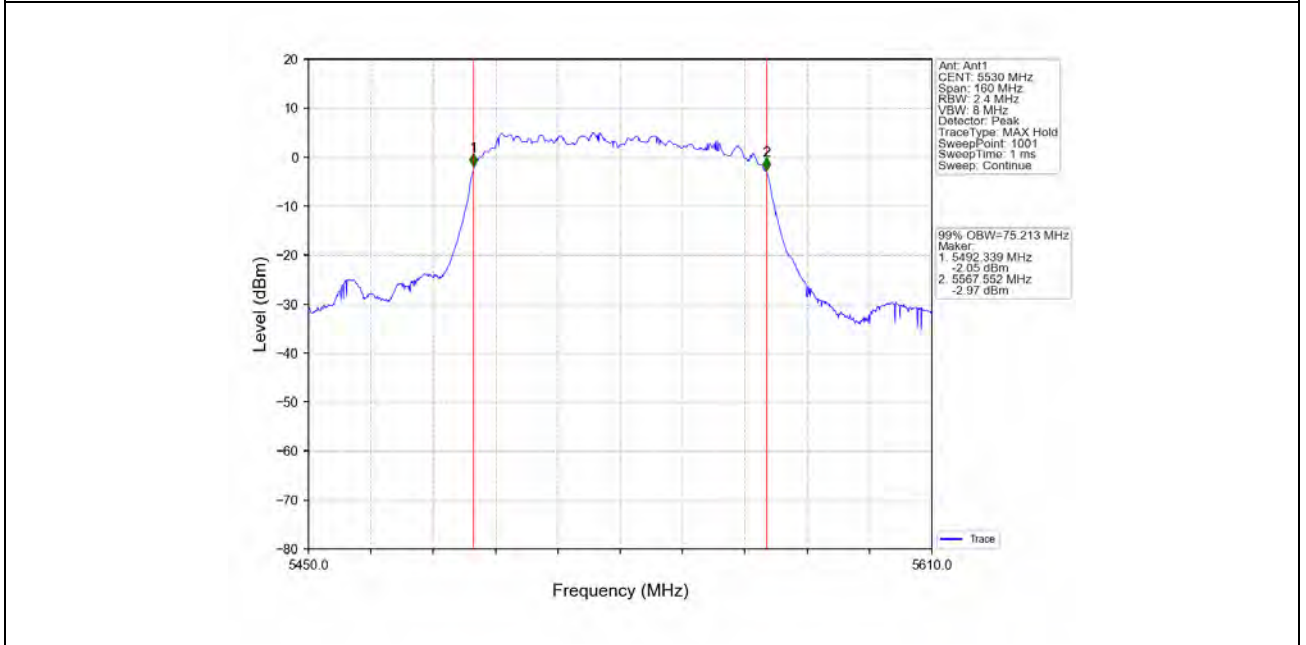


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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV

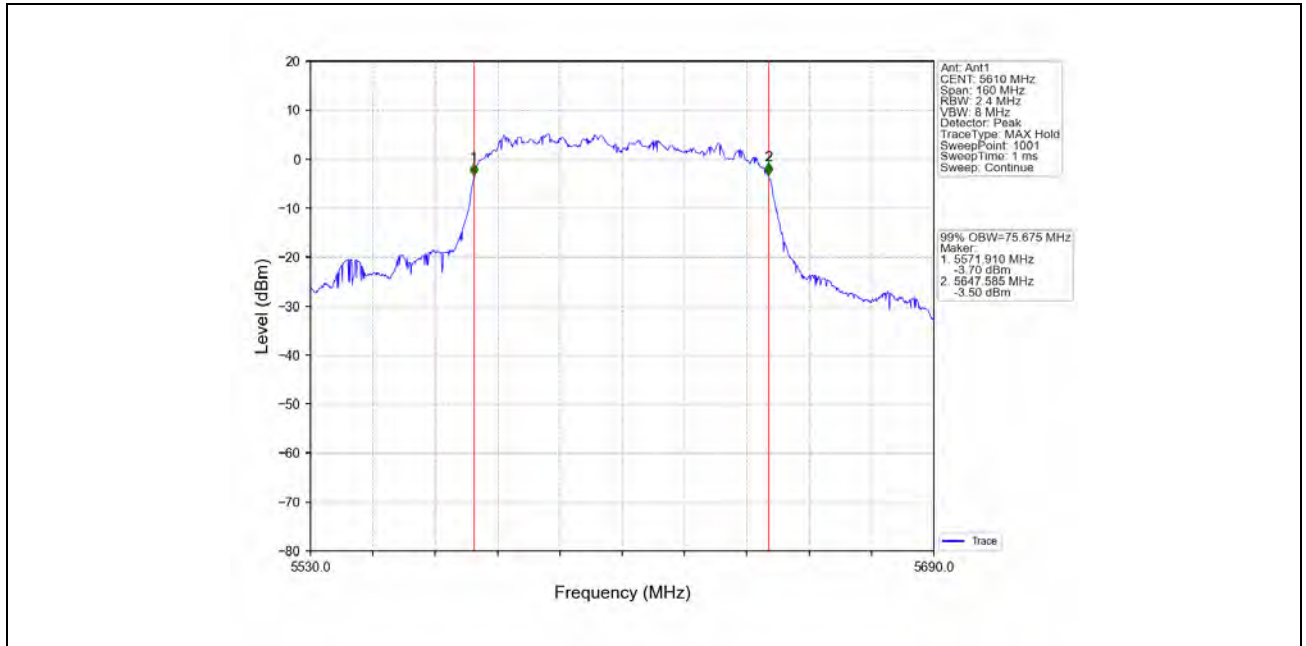


802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV

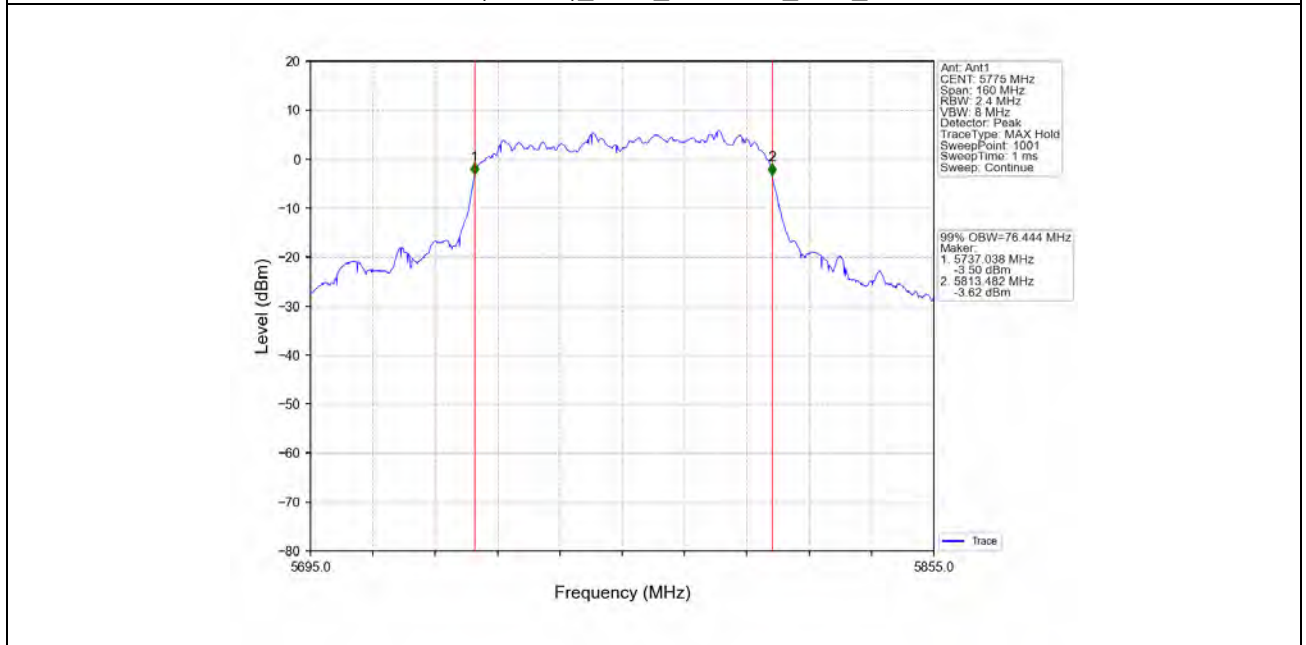


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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)	Verdict
------	----	-----------	-----	---------------------	---------



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 153 of 196

	Type	(MHz)		Result	Limit	
802.11ac (VHT20)	SISO	5745	1	17.604	>=0.5	Pass
		5785	1	17.387	>=0.5	Pass
		5825	1	17.605	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.235	>=0.5	Pass
		5795	1	35.184	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.105	>=0.5	Pass



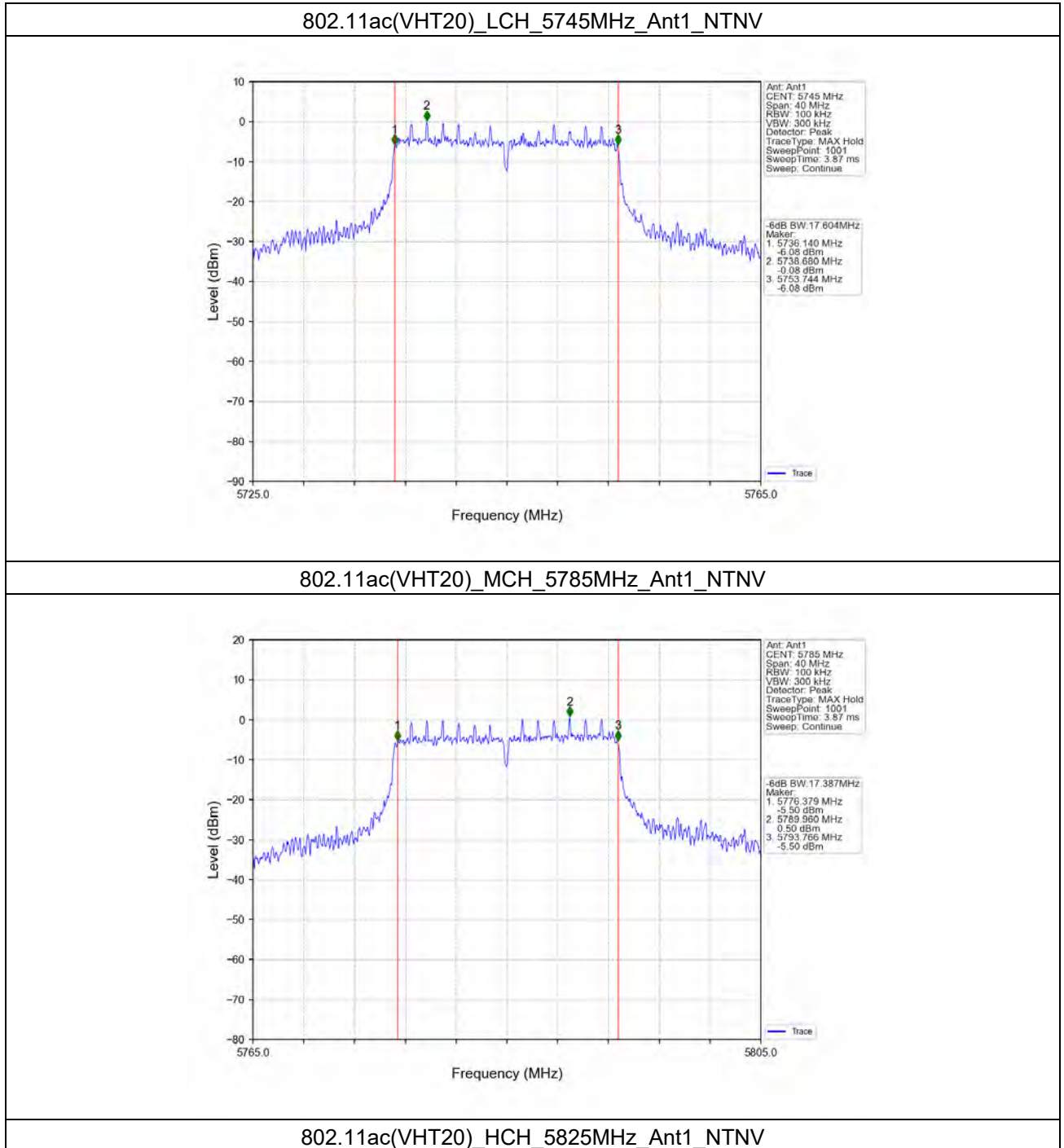
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2.2.2 Test Graph

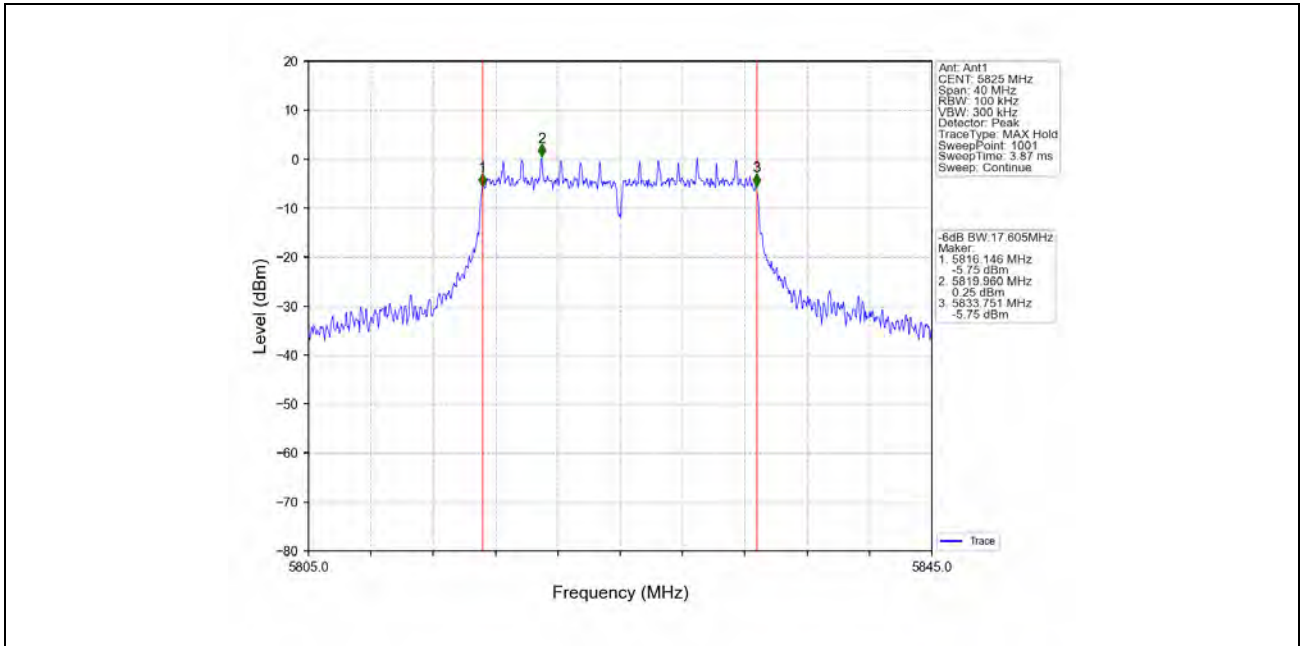


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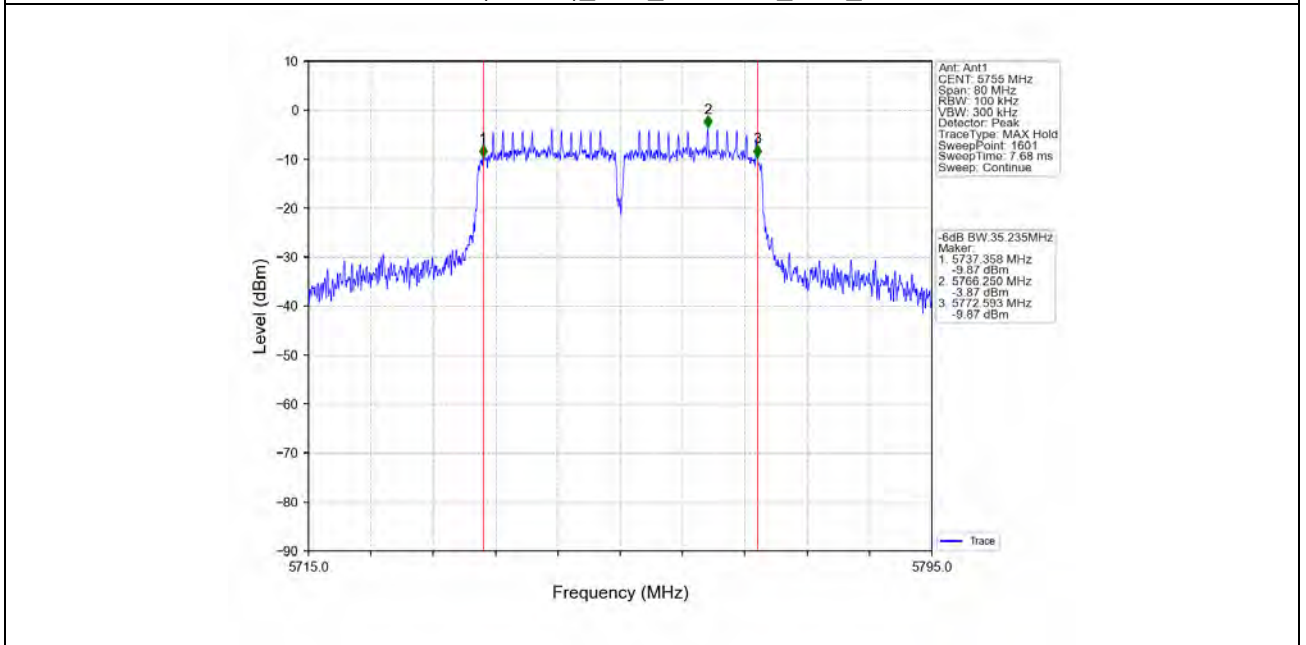
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

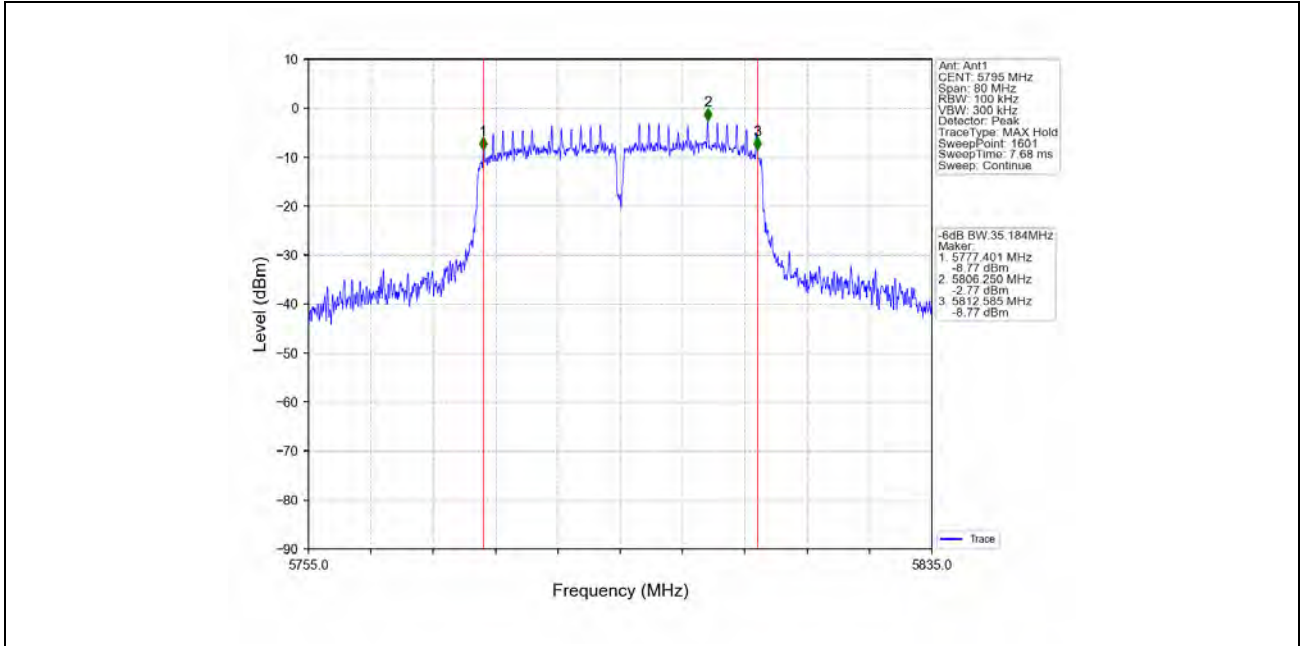


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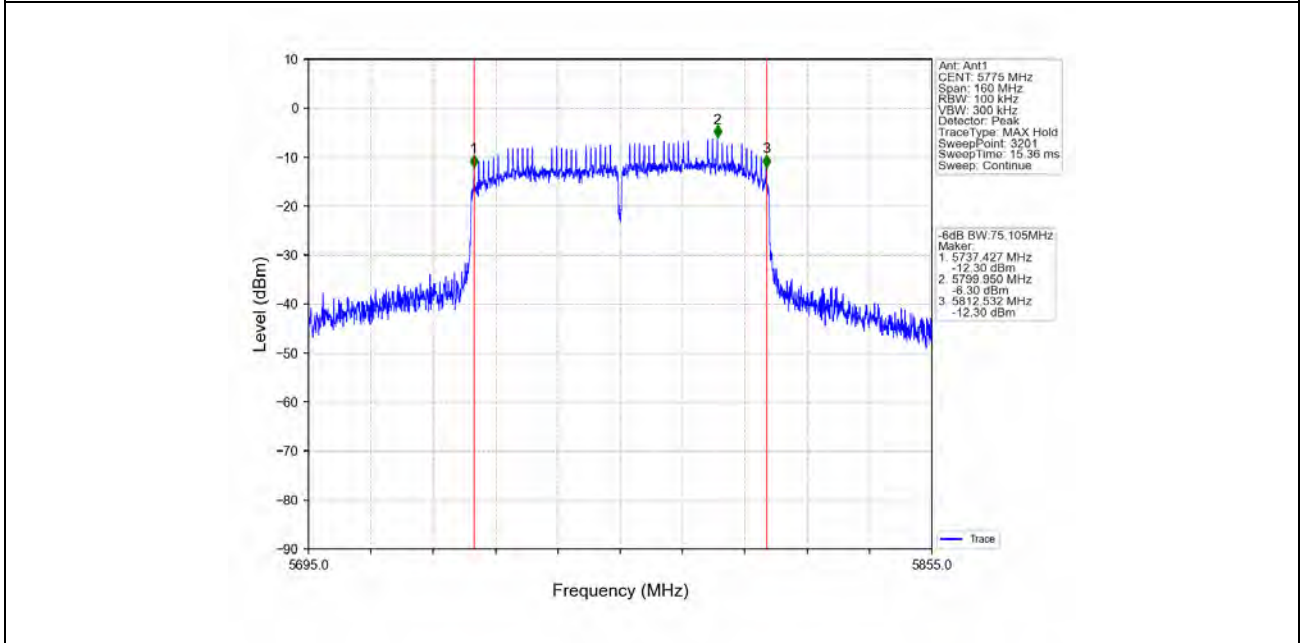
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11ac (VHT20)	SISO	5180	1	38.910	Pass
		5200	1	36.313	Pass
		5240	1	33.294	Pass
		5260	1	38.884	Pass
		5300	1	33.482	Pass
		5320	1	33.391	Pass
		5500	1	22.410	Pass
		5580	1	31.033	Pass
802.11ac (VHT40)	SISO	5190	1	53.837	Pass
		5230	1	47.055	Pass
		5270	1	58.025	Pass
		5310	1	49.507	Pass
		5510	1	42.806	Pass
		5550	1	43.334	Pass
		5670	1	71.647	Pass
802.11ac (VHT80)	SISO	5210	1	99.347	Pass
		5290	1	100.335	Pass
		5530	1	83.008	Pass
		5610	1	90.184	Pass

2.3.2 Test Graph

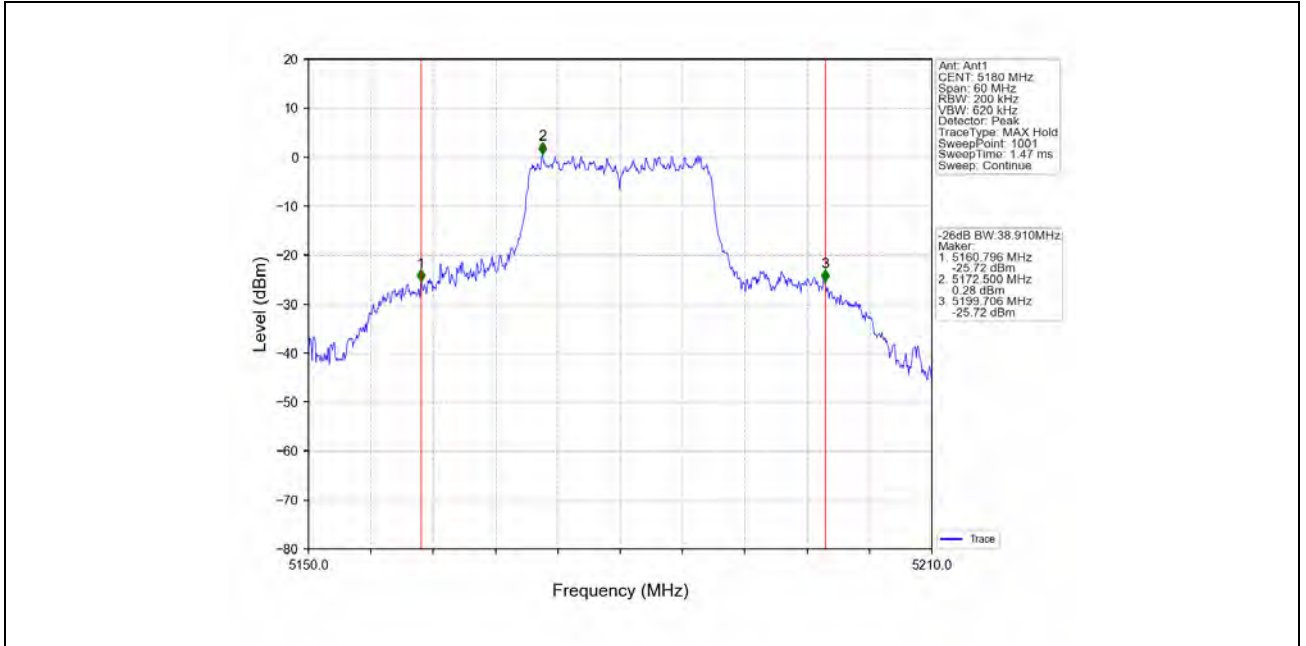
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



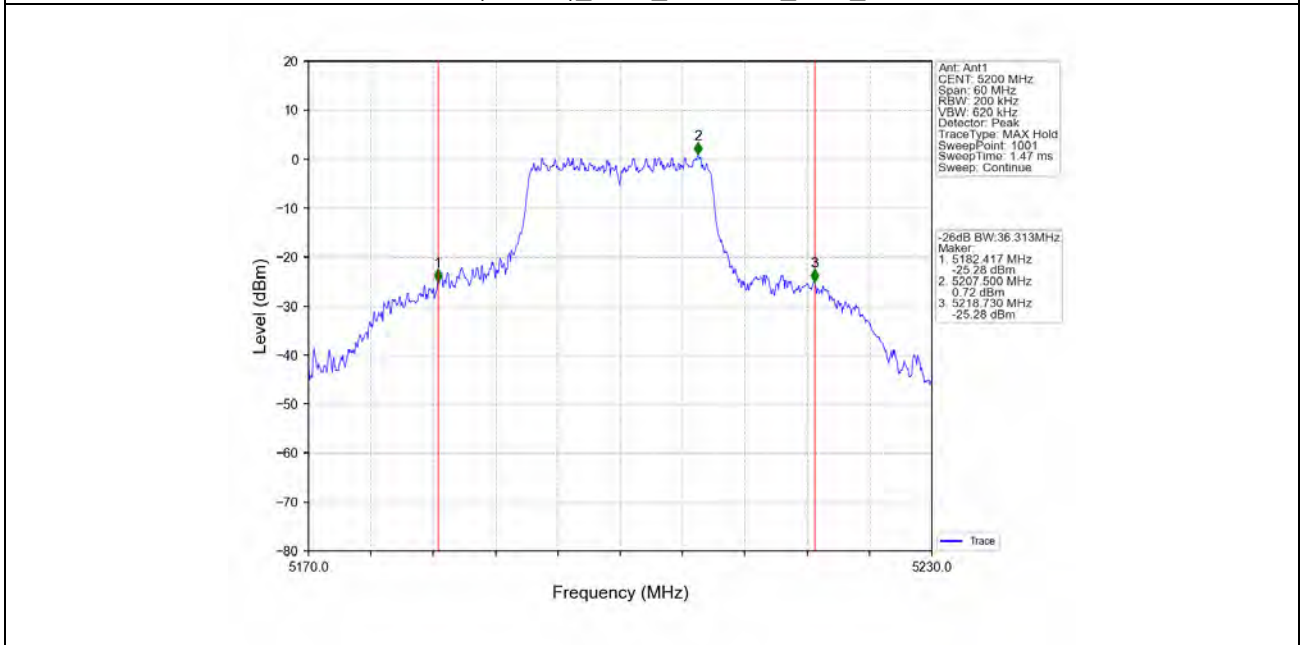
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

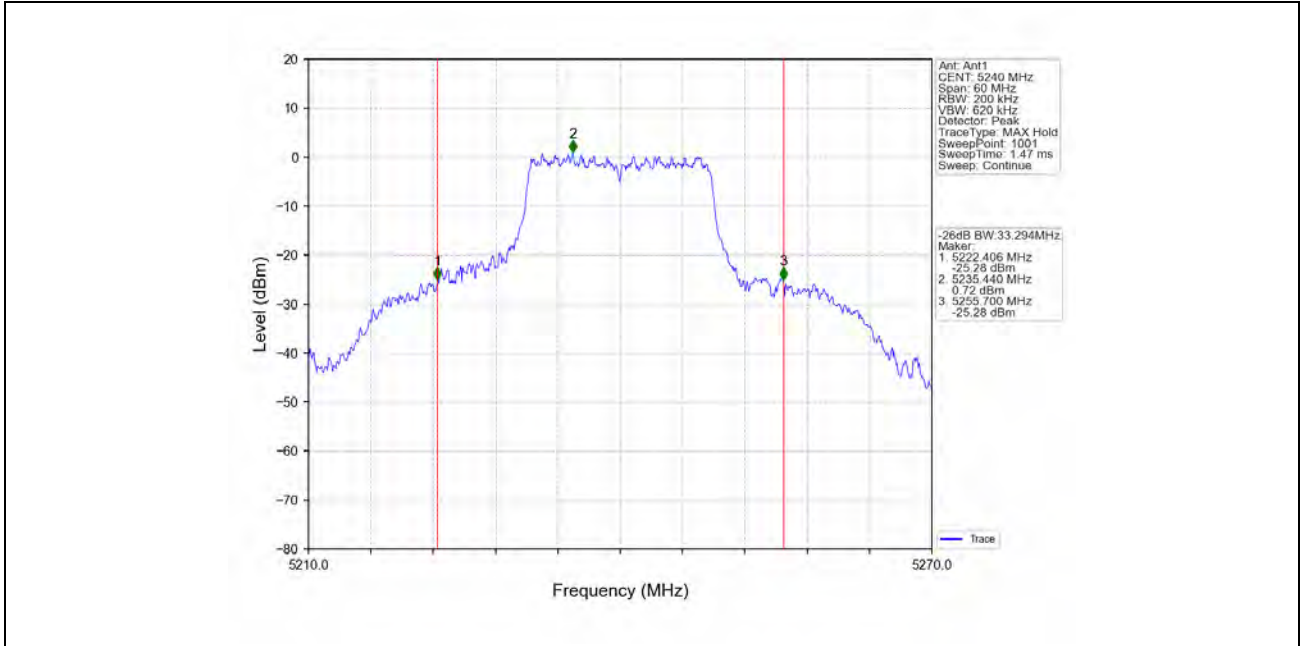


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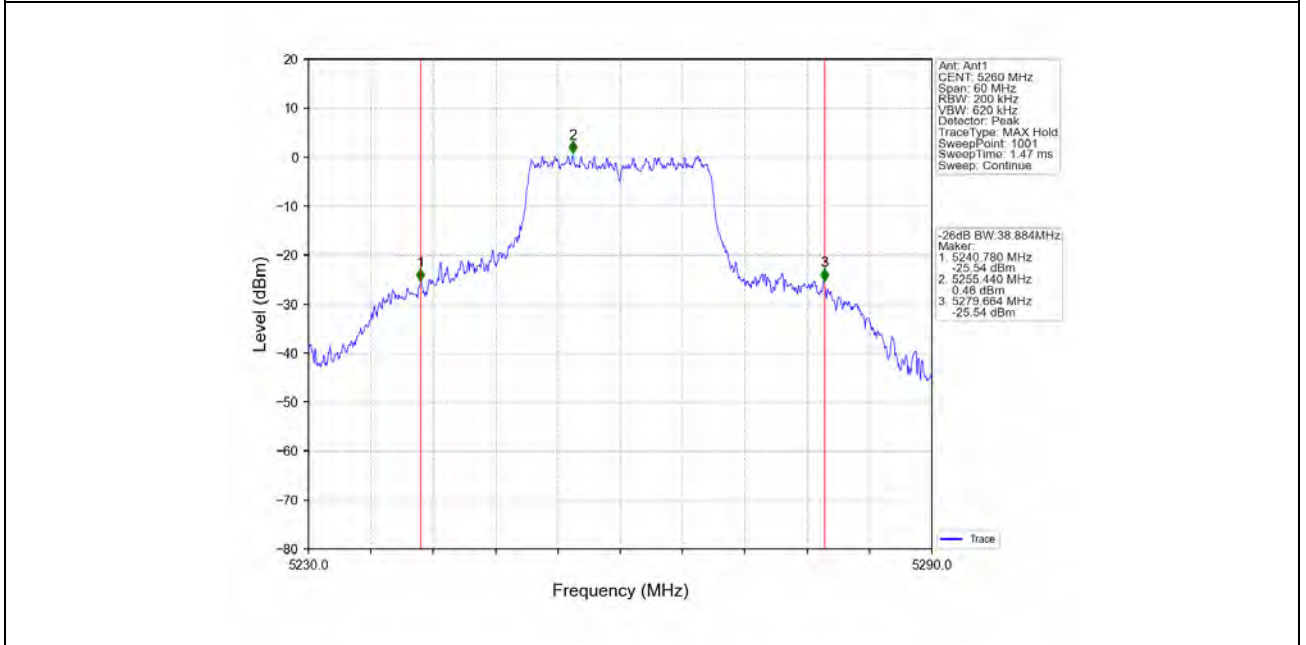
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV

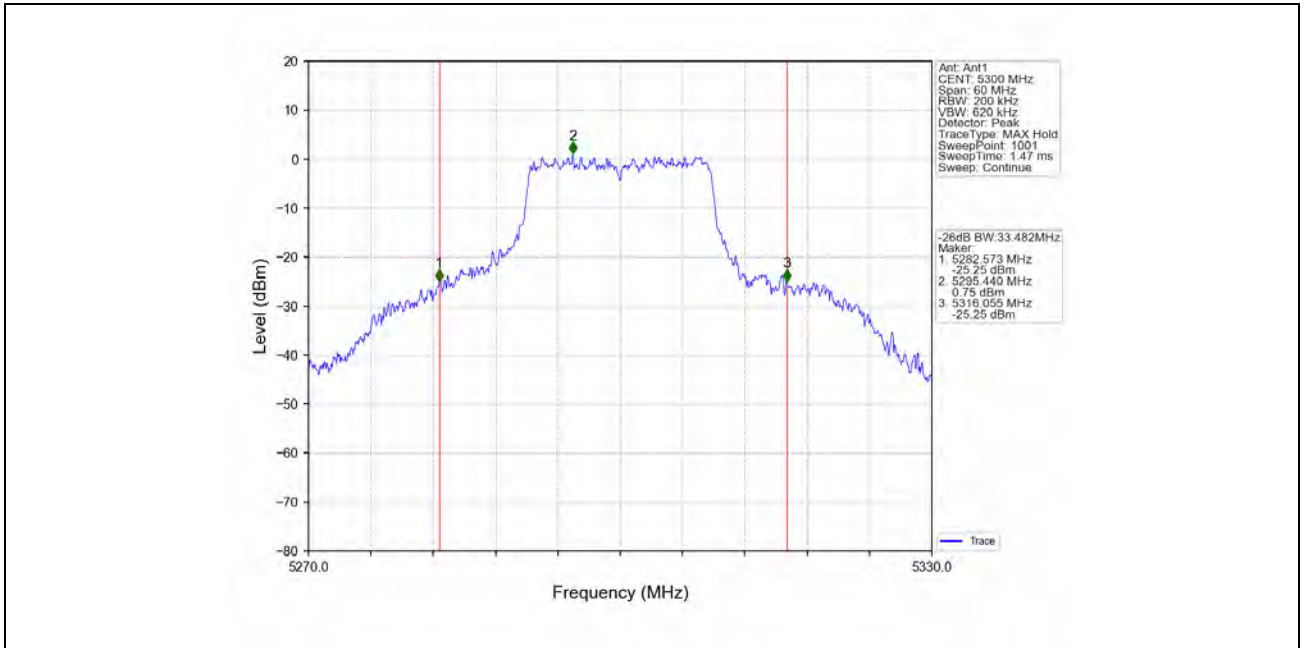


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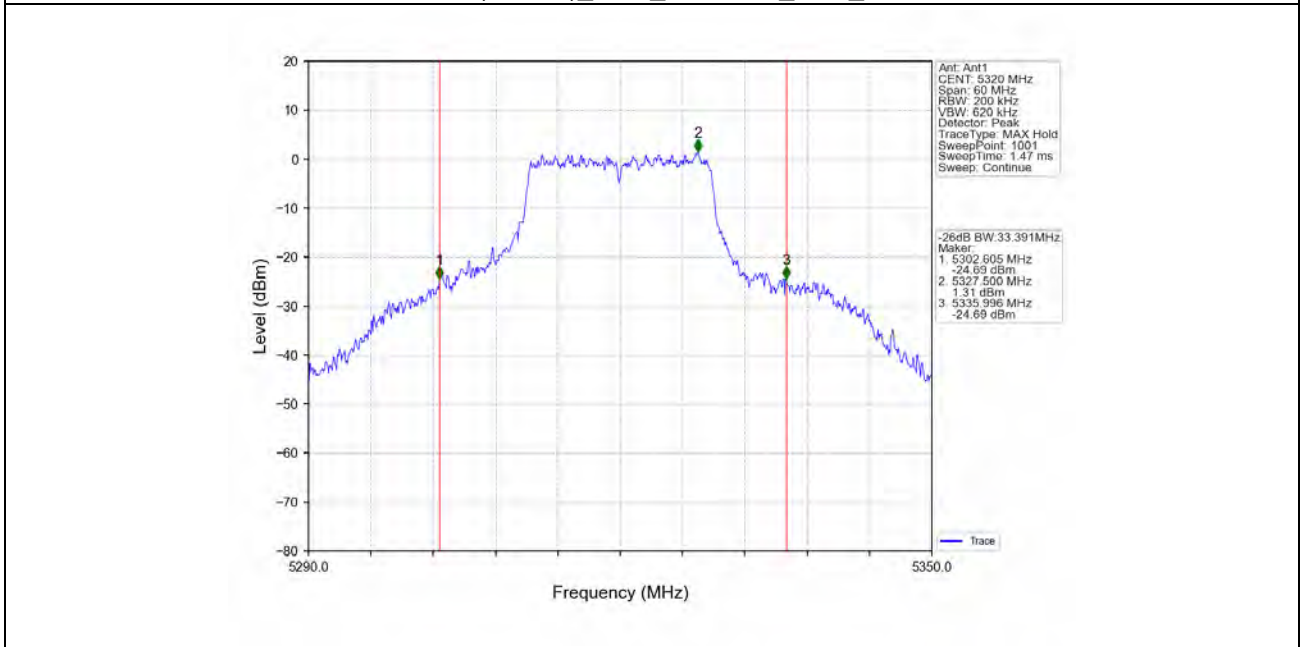
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV

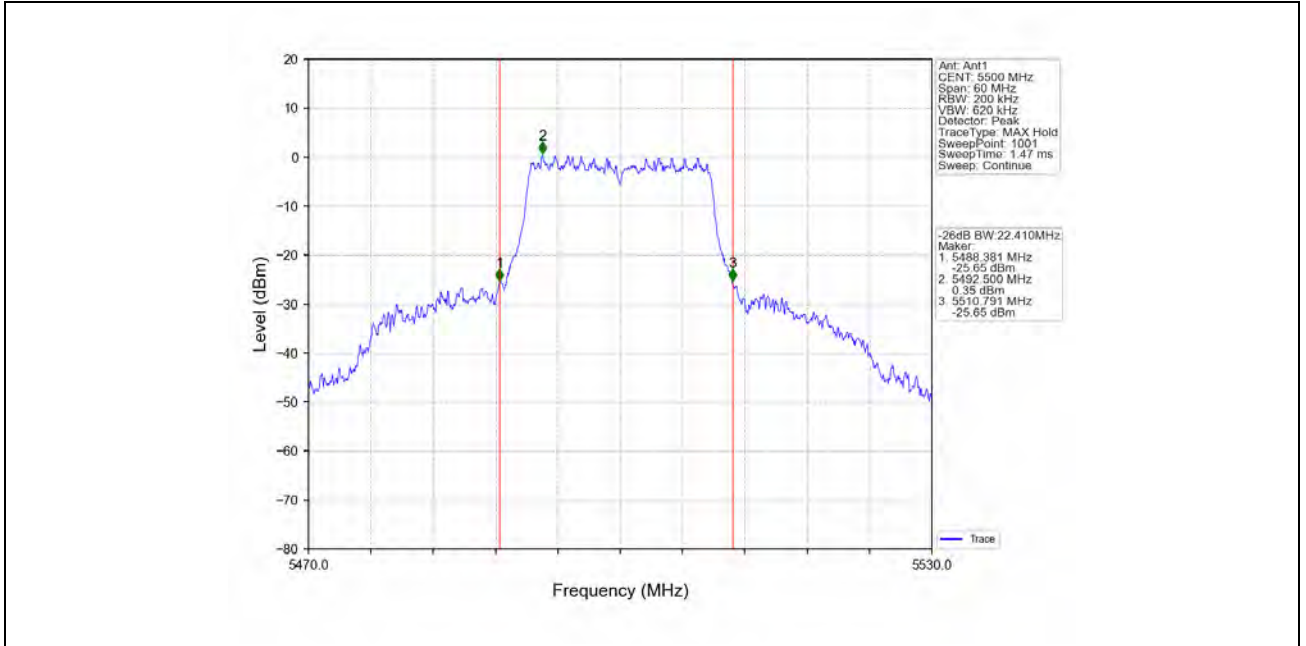


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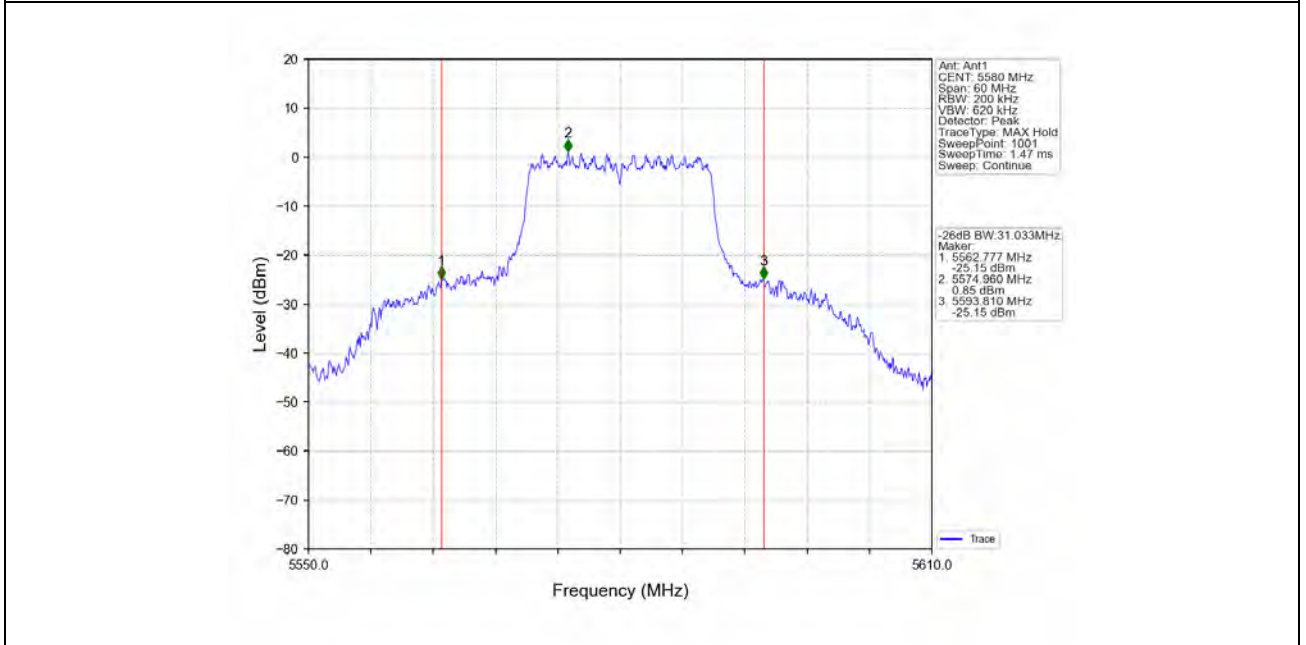
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802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV

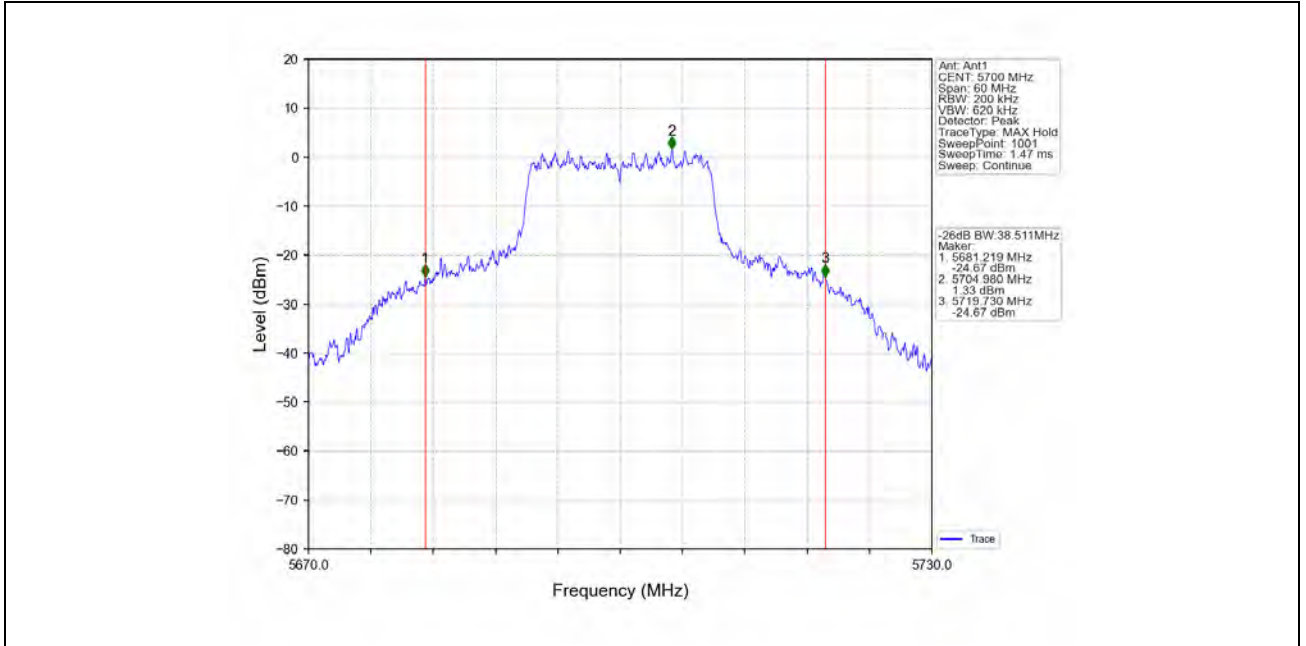


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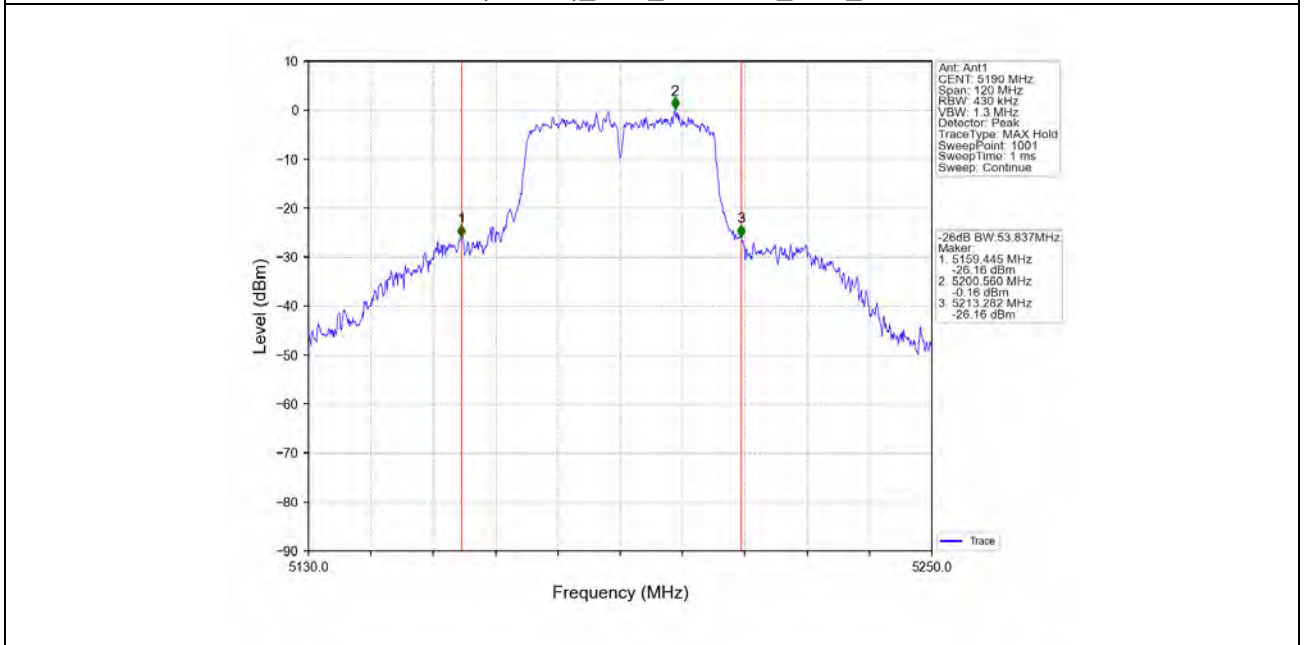
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

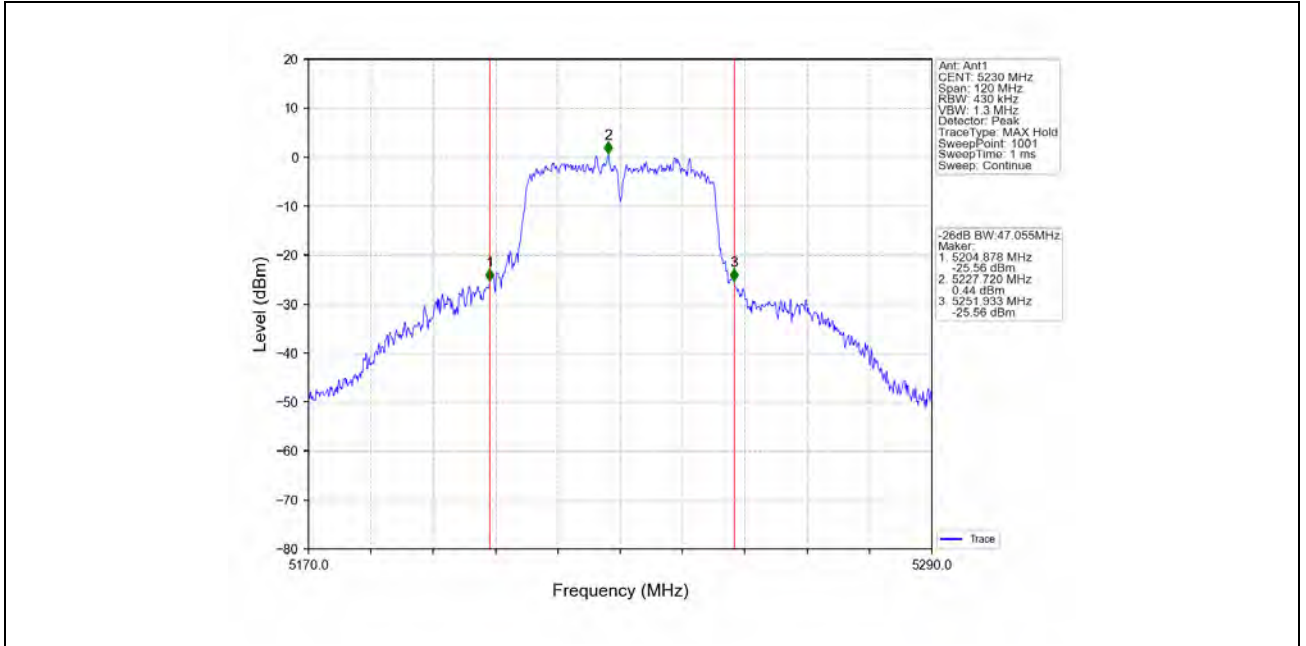


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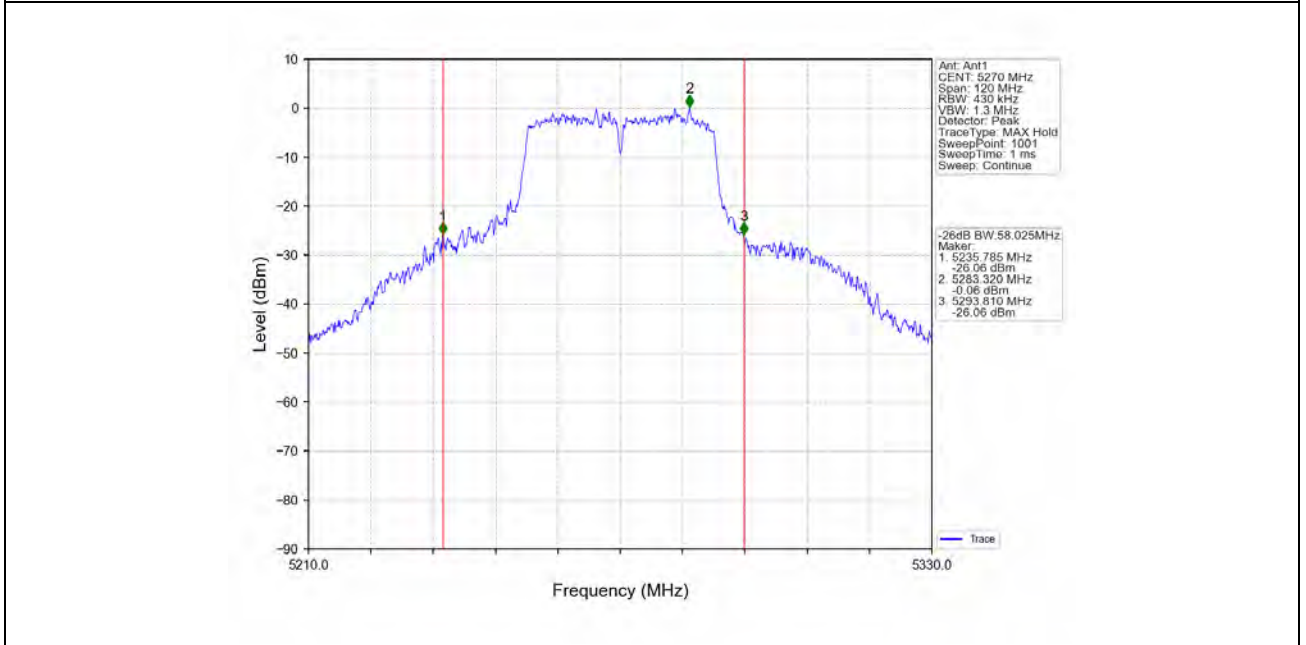
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV

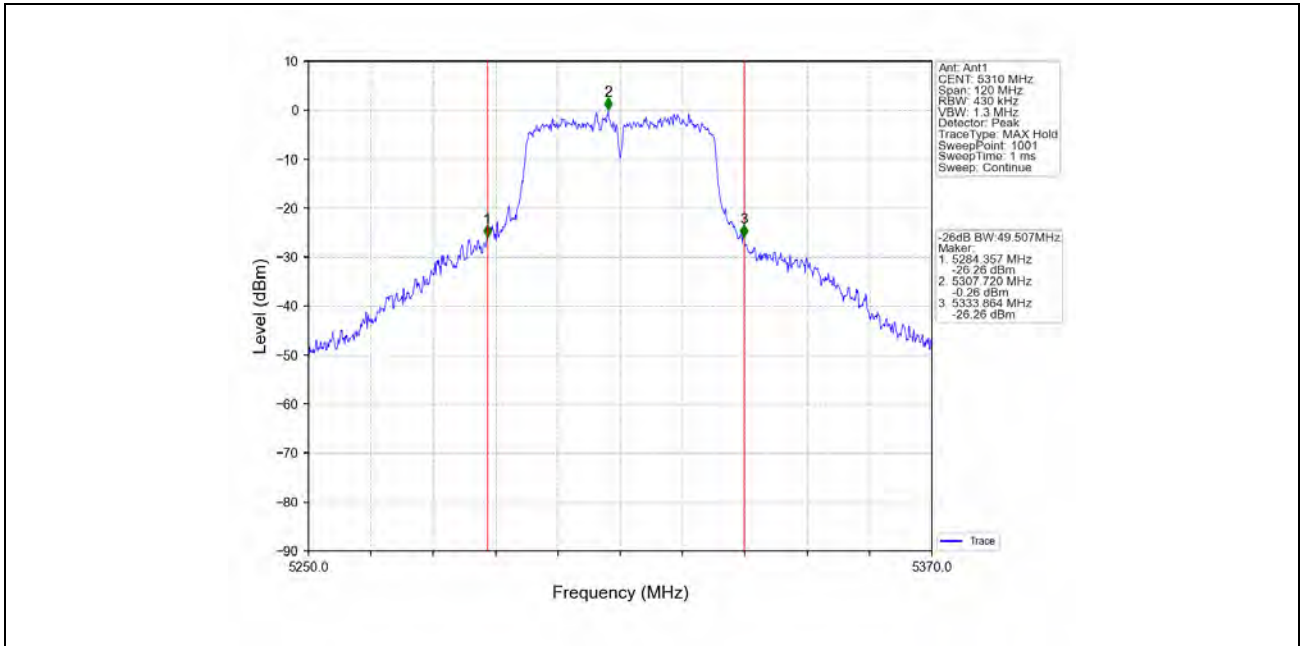


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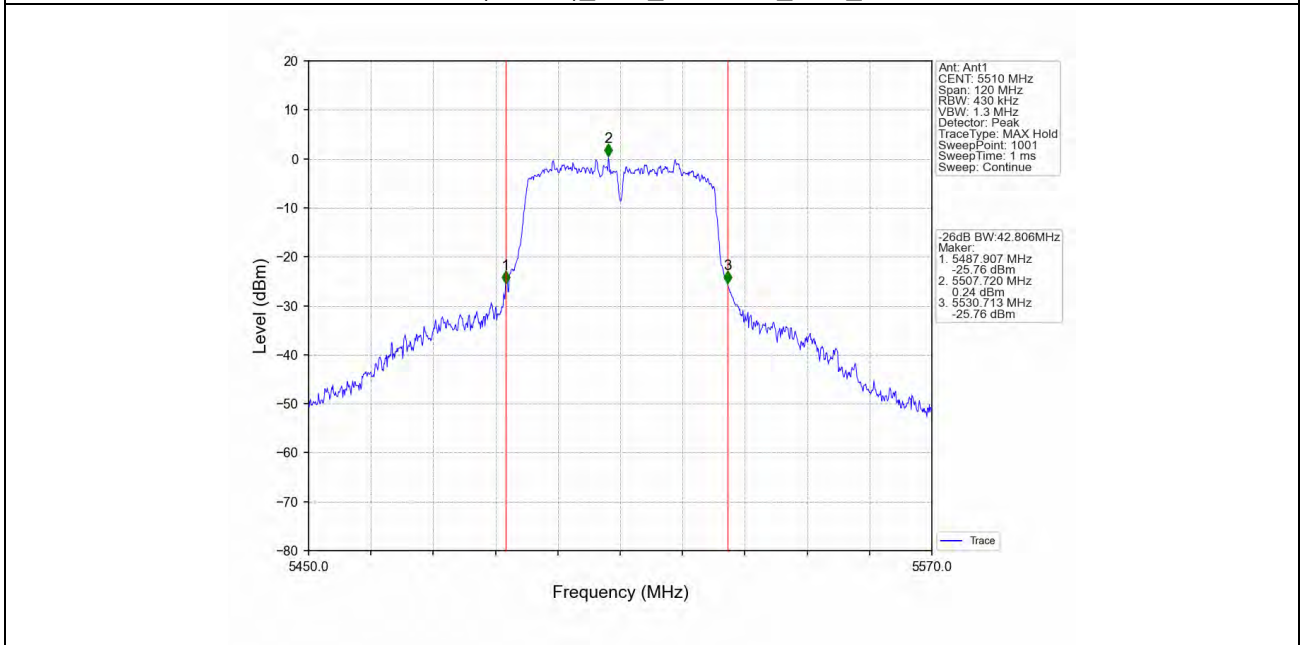
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV

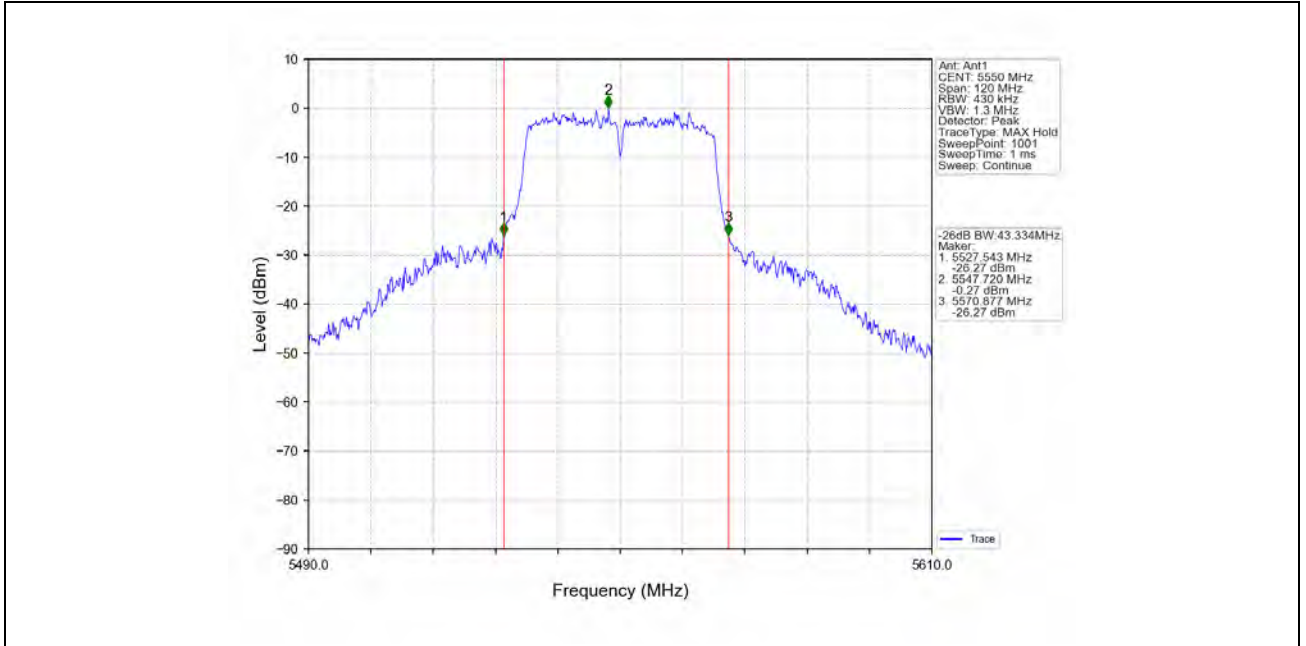


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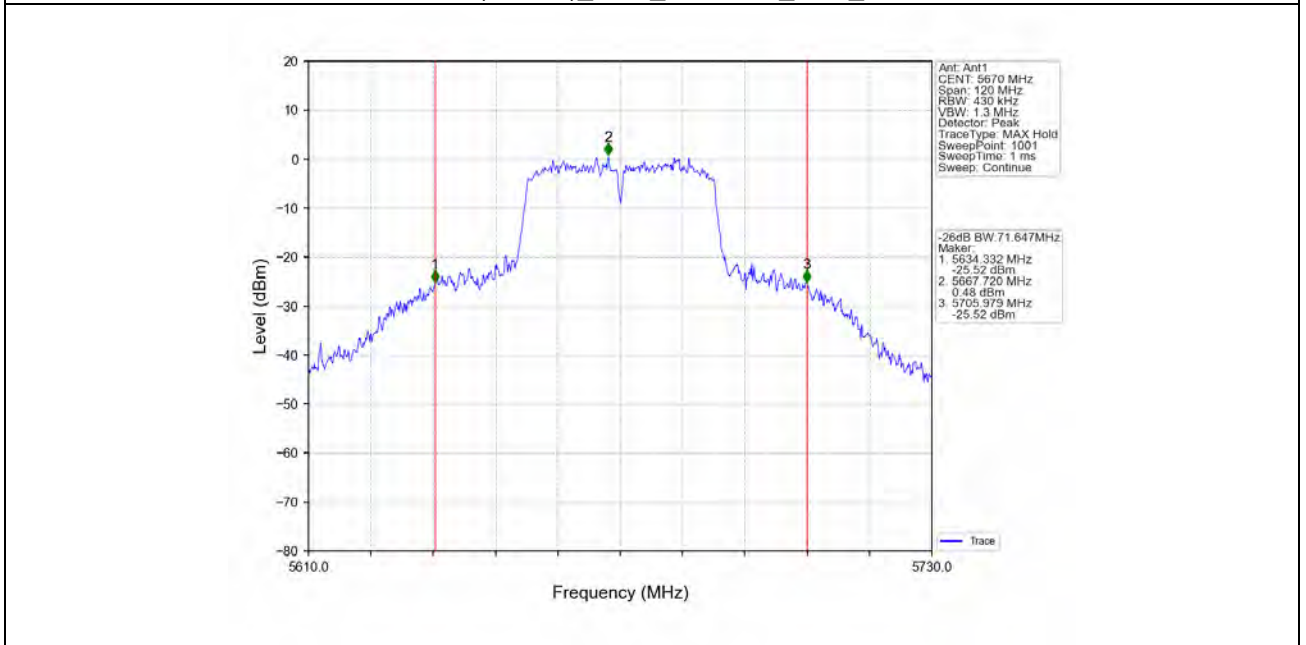
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

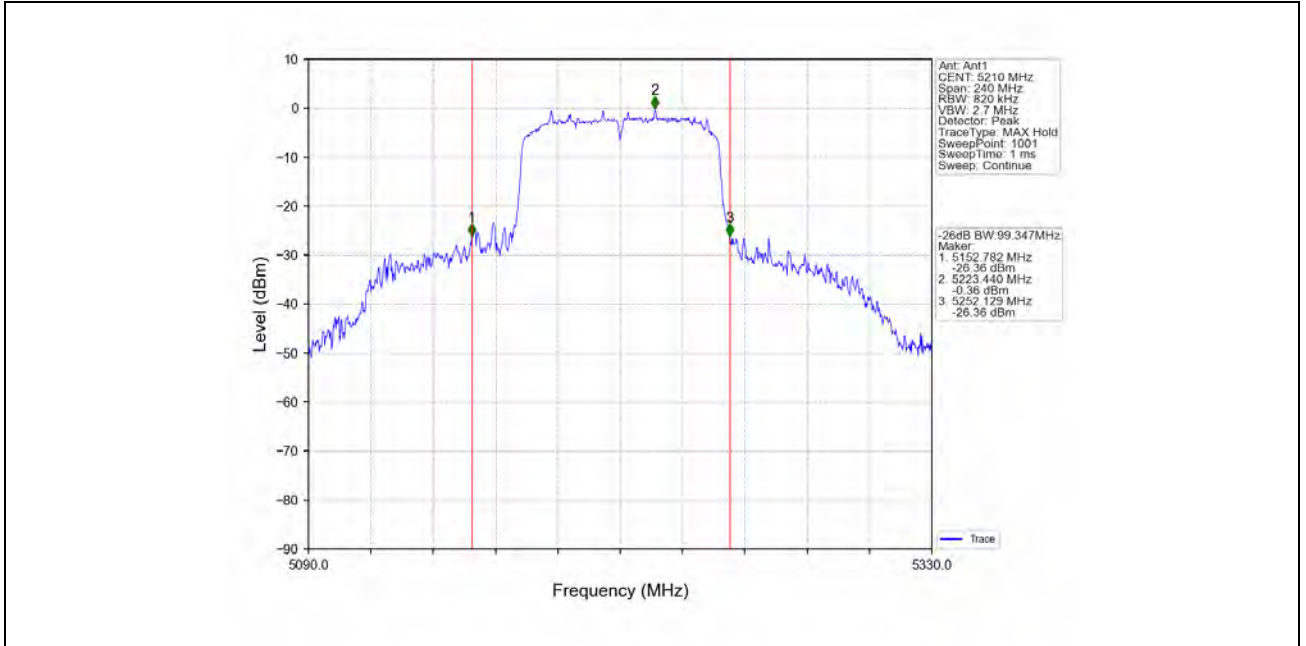


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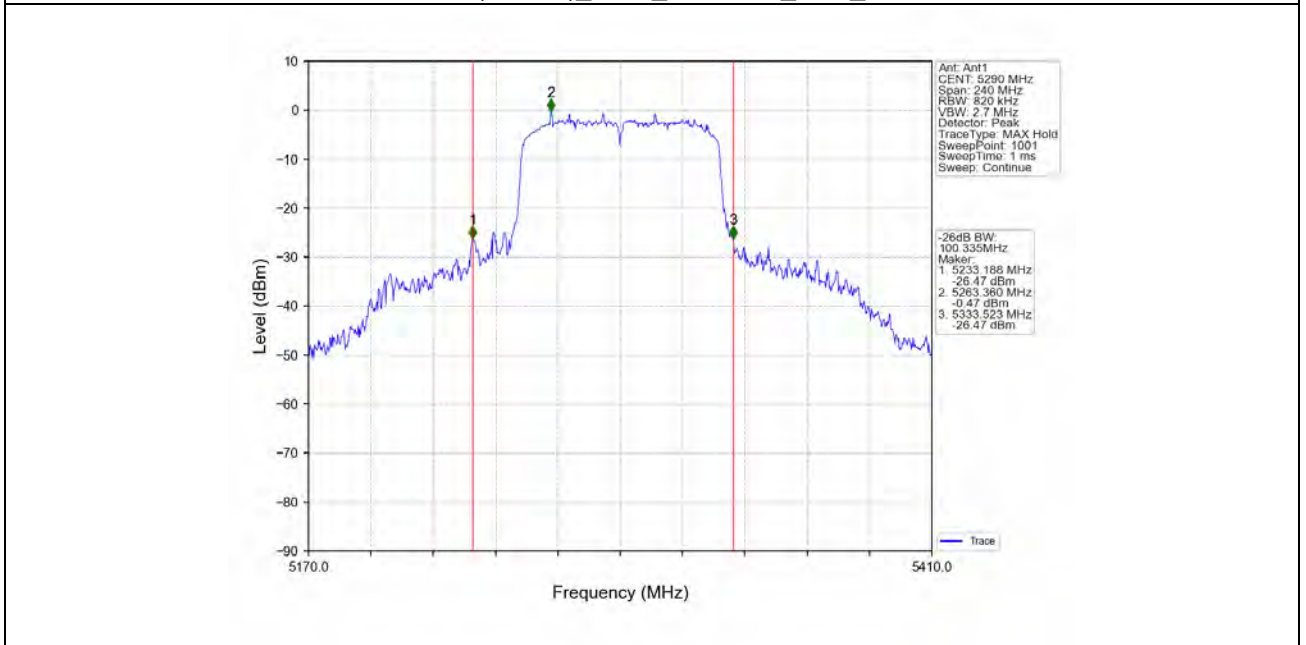
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV

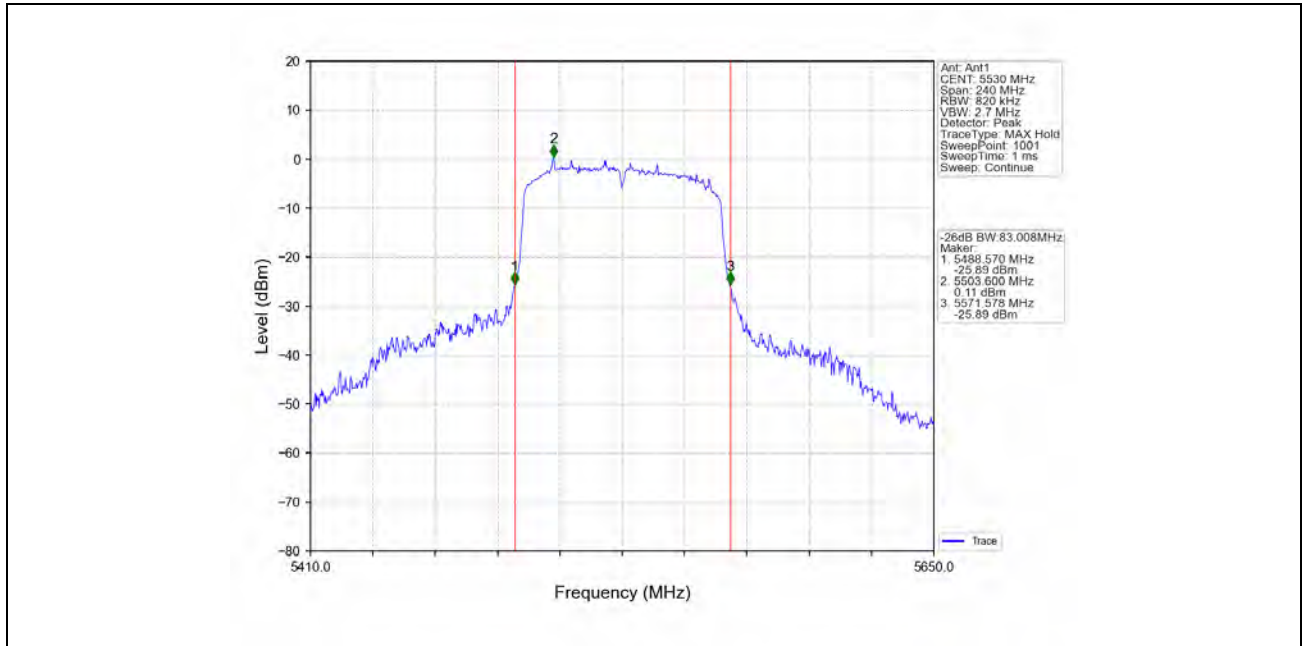


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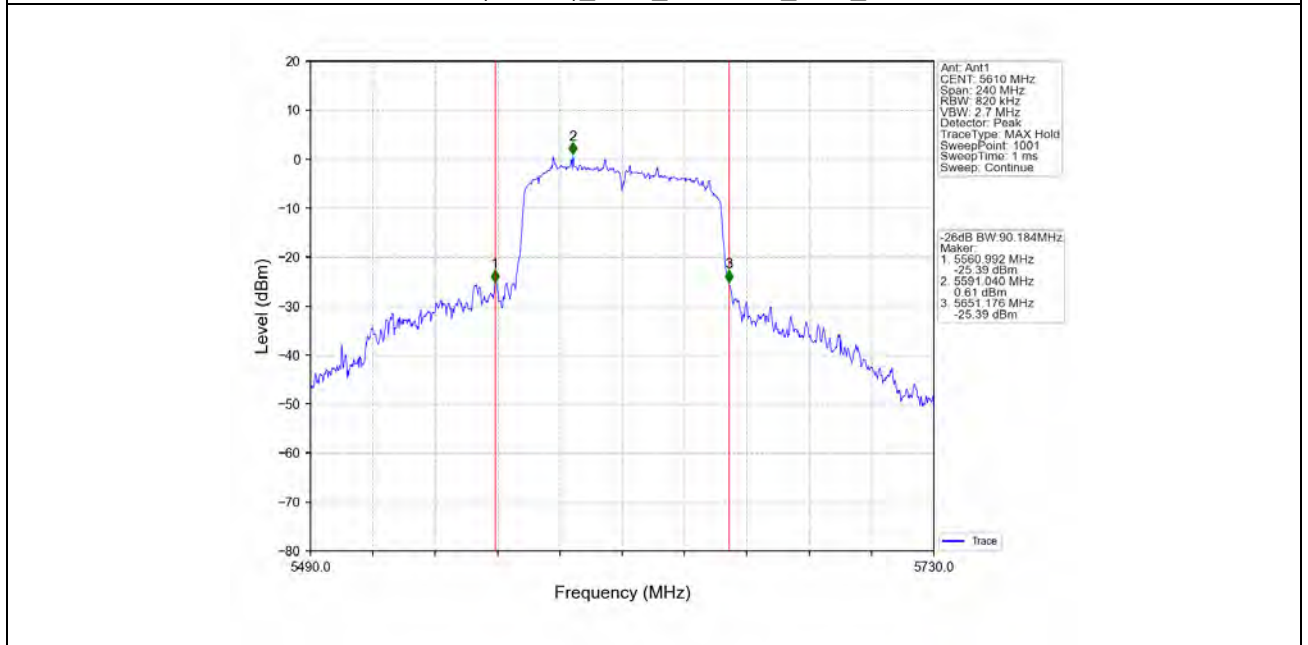
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221100214601

Page: 168 of 196

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	10.72	<=23.98	Pass
		5200	10.98	<=23.98	Pass
		5240	10.86	<=23.98	Pass
		5260	10.73	<=23.98	Pass
		5300	11.16	<=23.98	Pass
		5320	10.59	<=23.98	Pass
		5500	10.33	<=23.98	Pass
		5580	10.46	<=23.98	Pass
		5700	10.99	<=23.98	Pass
		5745	10.61	<=30	Pass
		5785	10.97	<=30	Pass
		5825	10.99	<=30	Pass
802.11ac (VHT40)	SISO	5190	9.44	<=23.98	Pass
		5230	9.83	<=23.98	Pass
		5270	9.52	<=23.98	Pass
		5310	9.52	<=23.98	Pass
		5510	9.50	<=23.98	Pass
		5550	9.22	<=23.98	Pass
		5670	10.18	<=23.98	Pass
		5755	9.78	<=30	Pass
		5795	9.63	<=30	Pass
802.11ac (VHT80)	SISO	5210	9.36	<=23.98	Pass
		5290	9.31	<=23.98	Pass
		5530	9.07	<=23.98	Pass
		5610	8.95	<=23.98	Pass
		5775	9.24	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

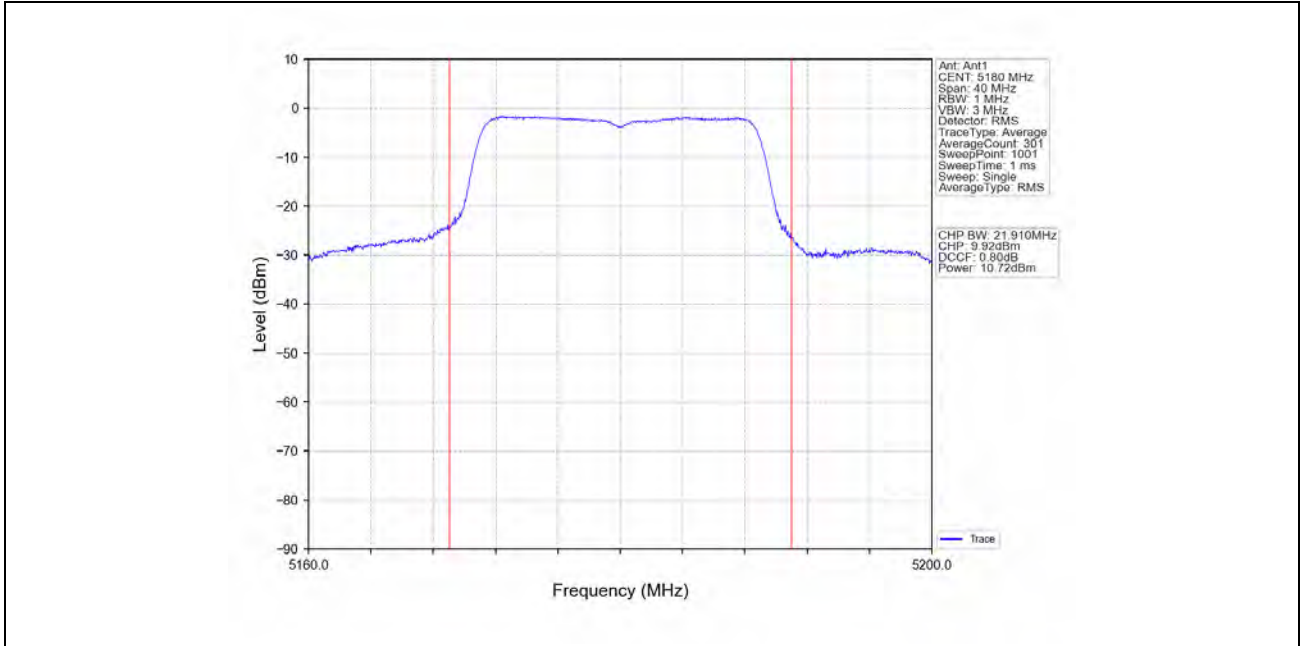
3.1.2 Test Graph

802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

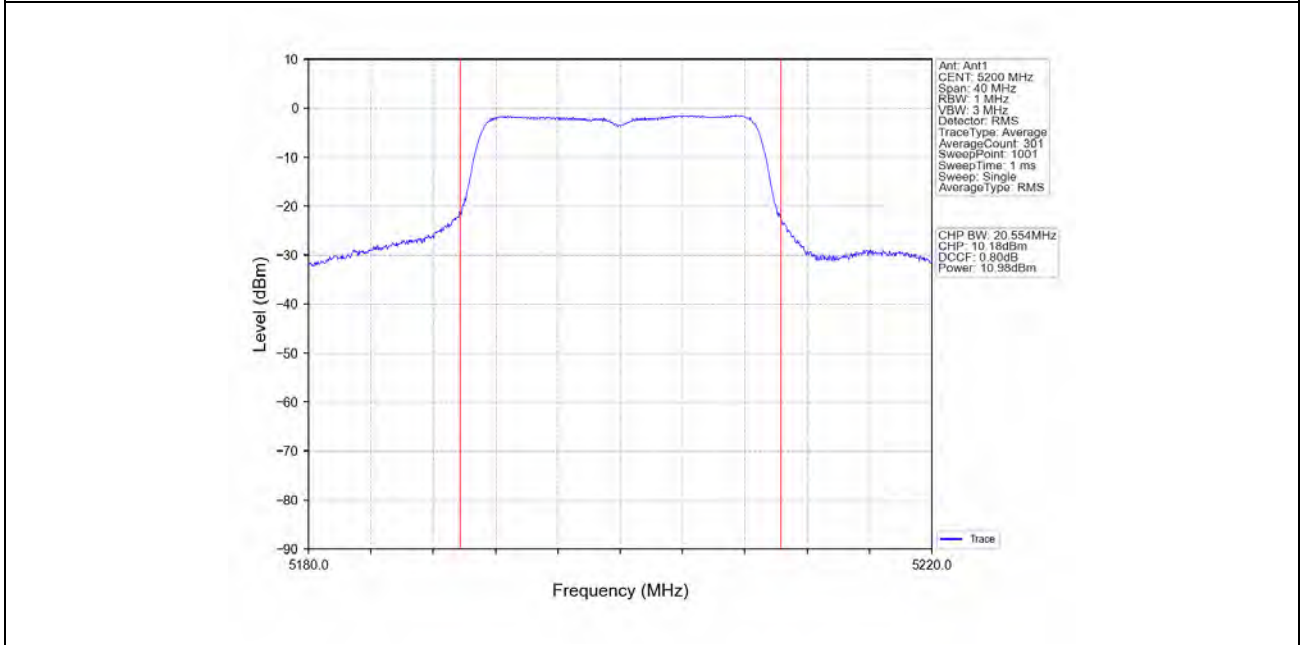


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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

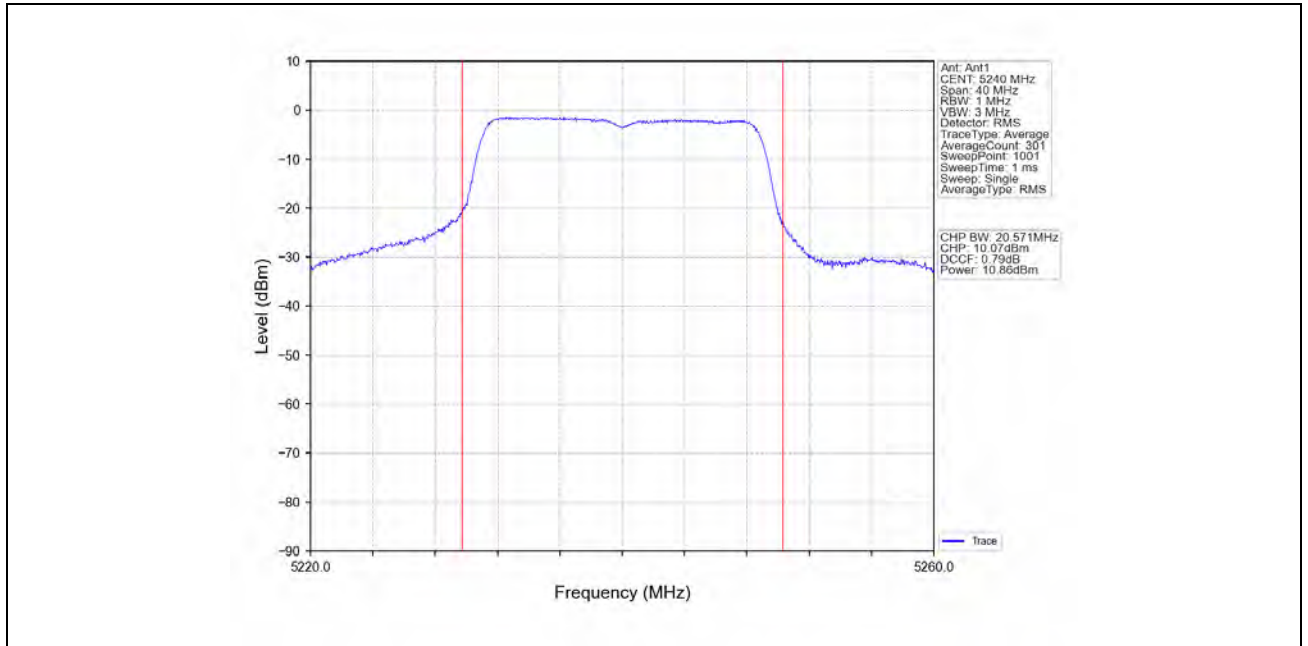


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

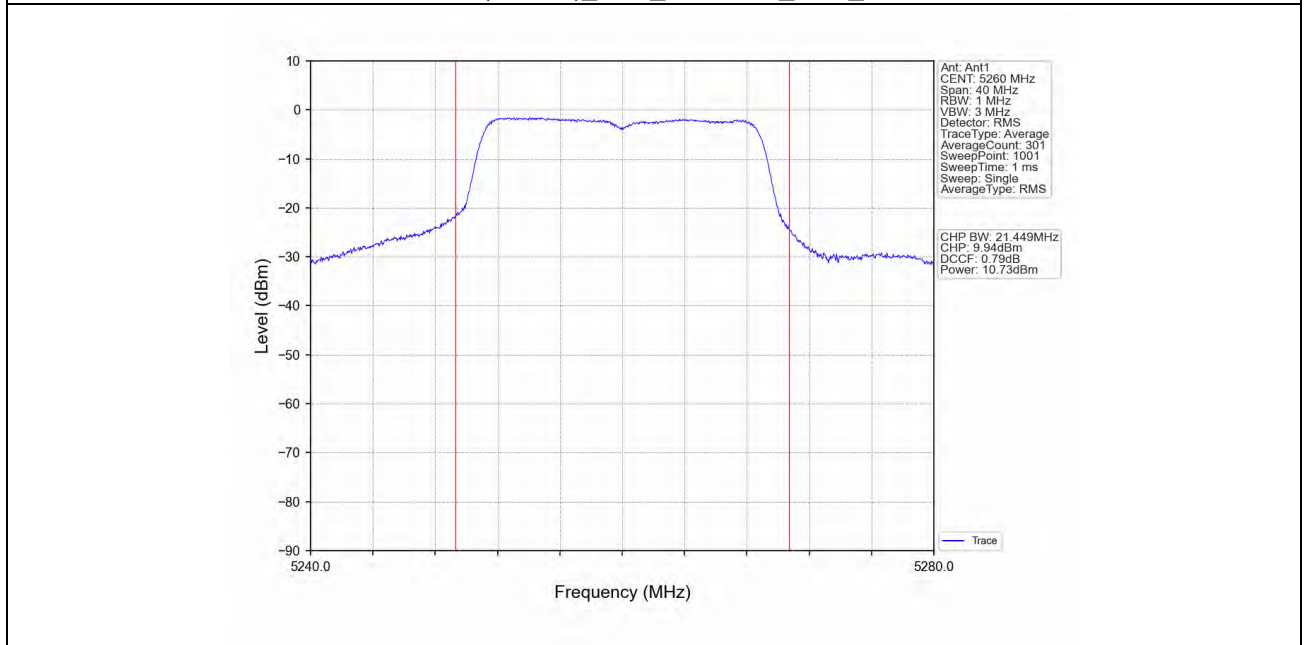


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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



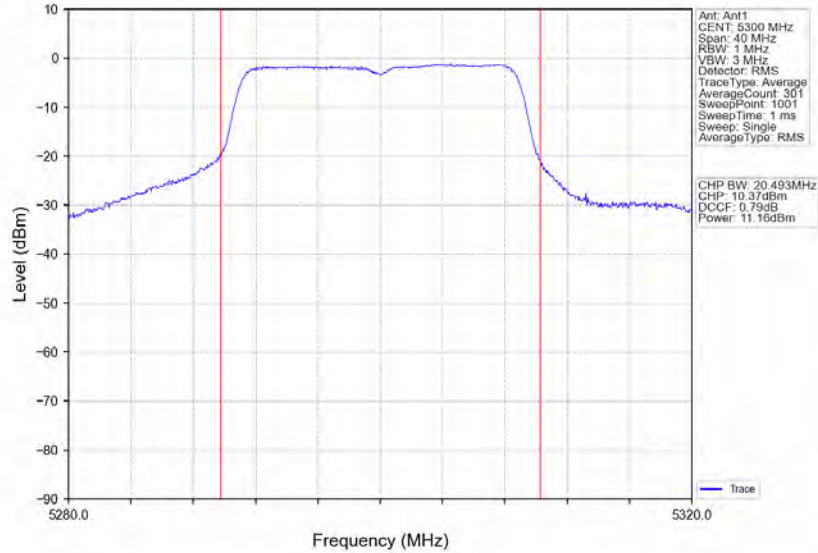
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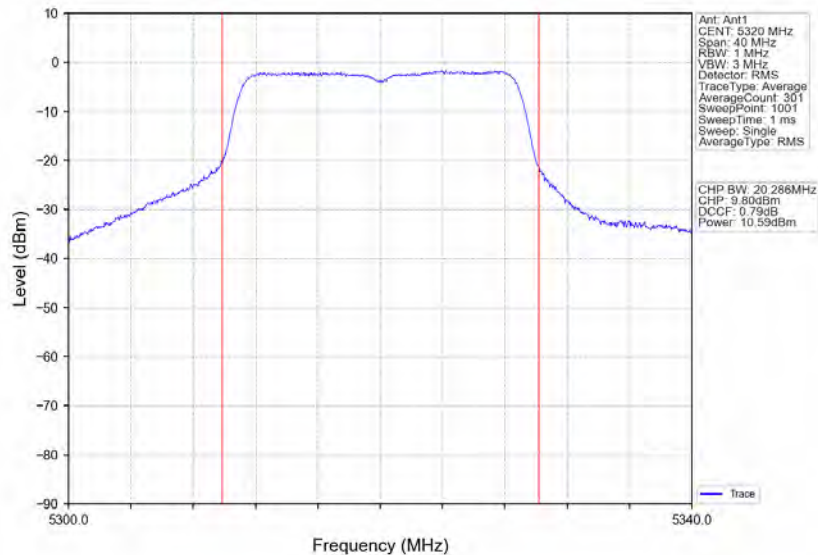
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



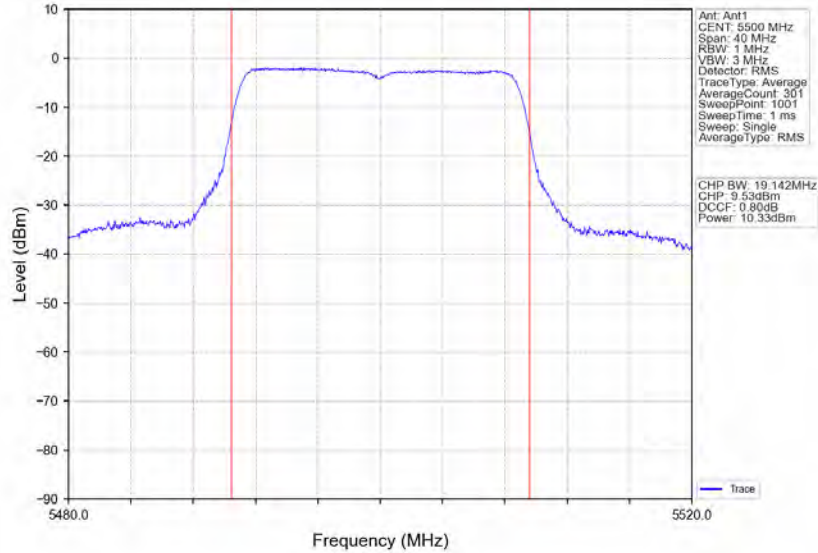
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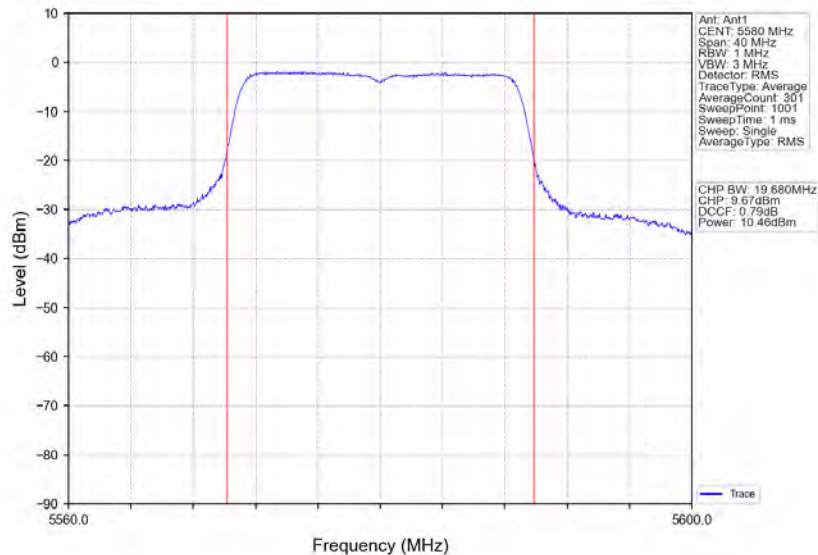
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



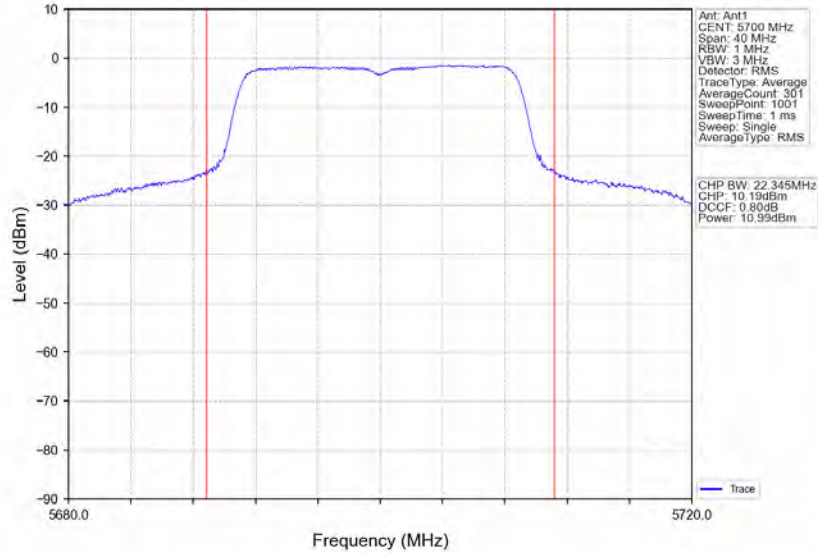
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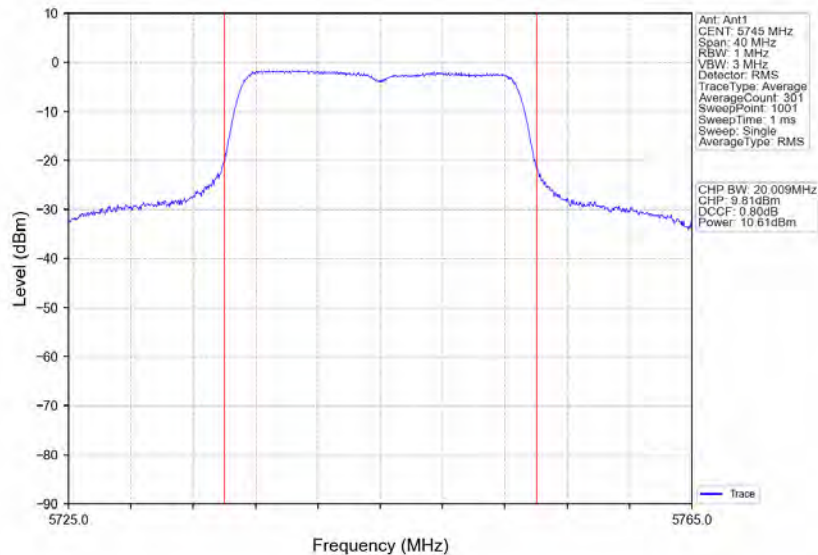
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



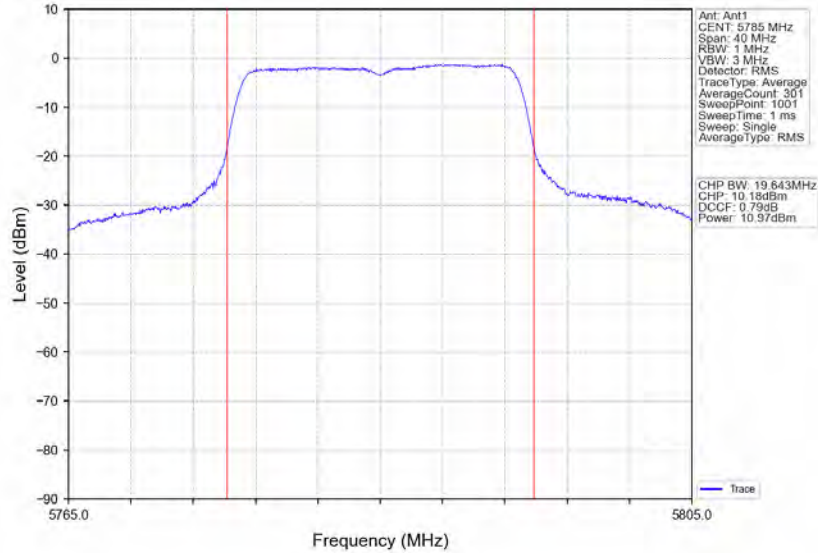
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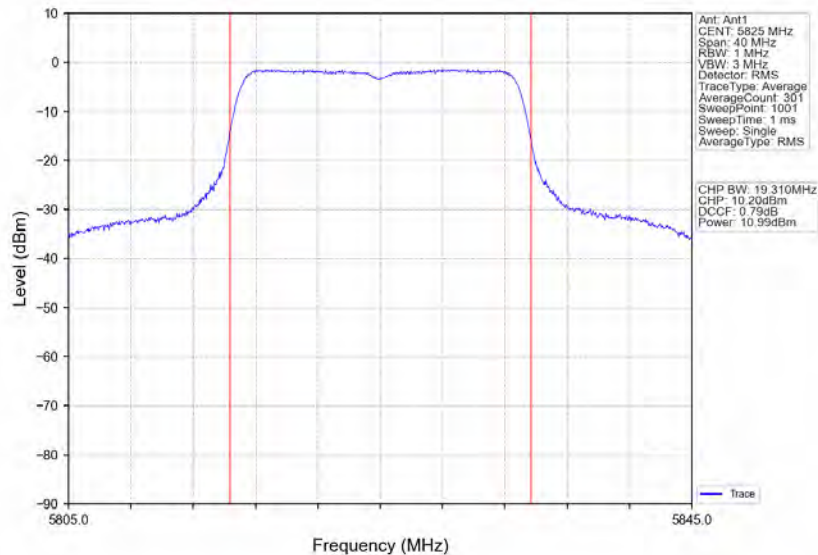
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



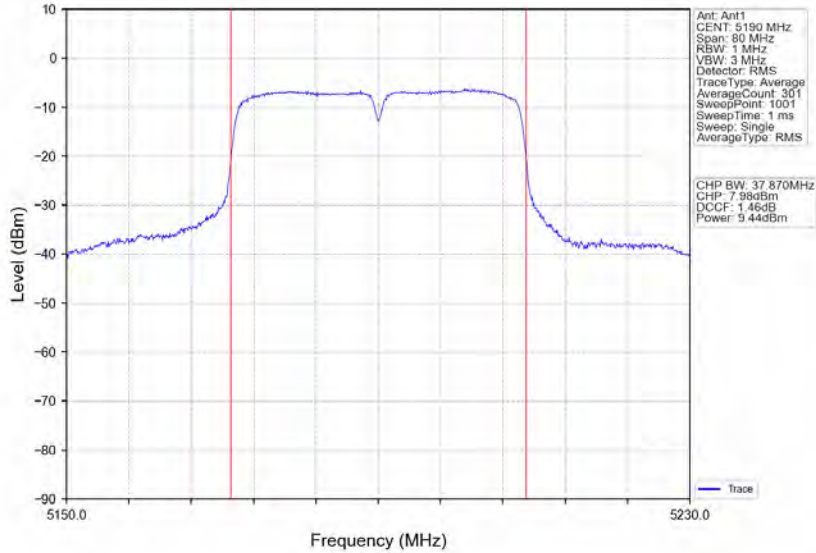
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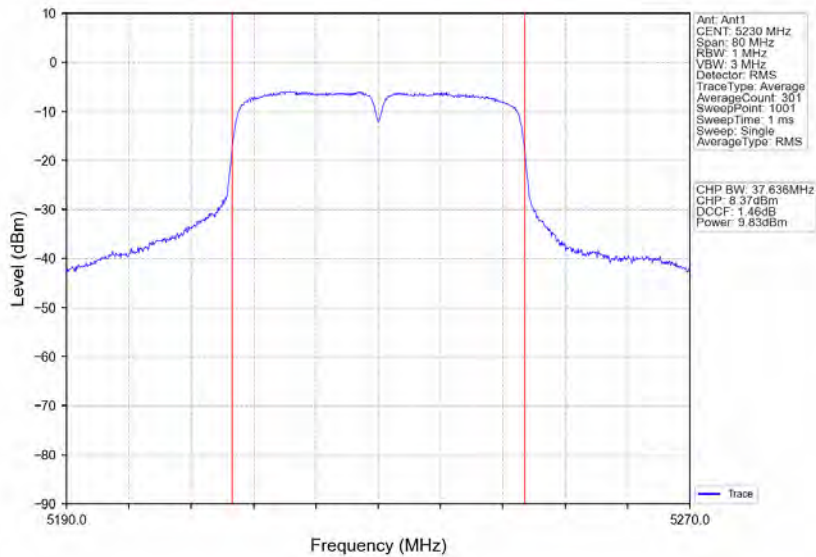
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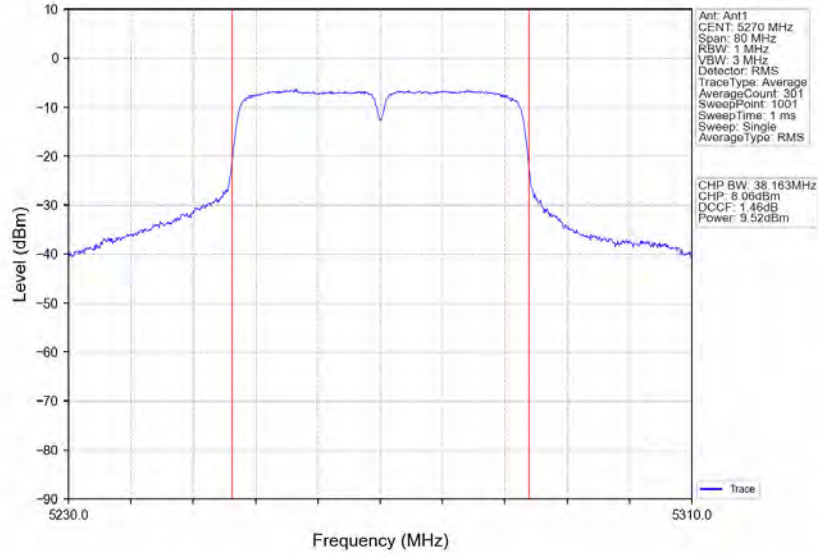
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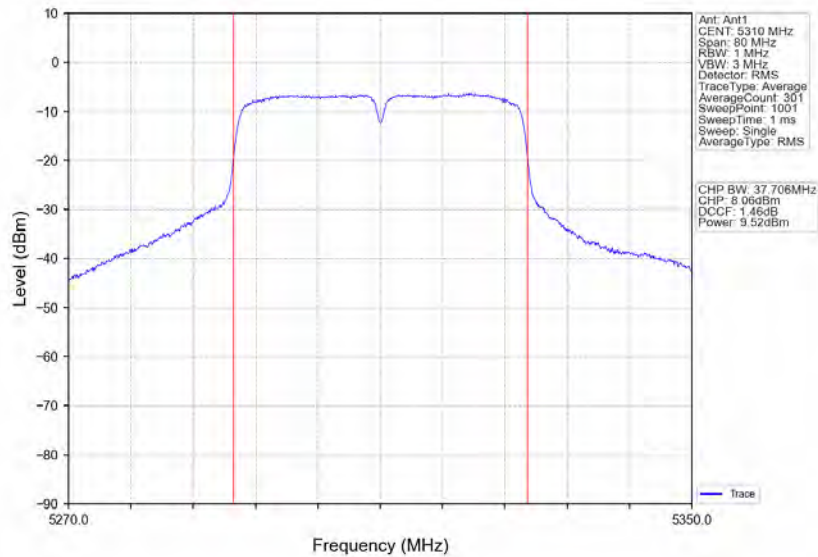
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802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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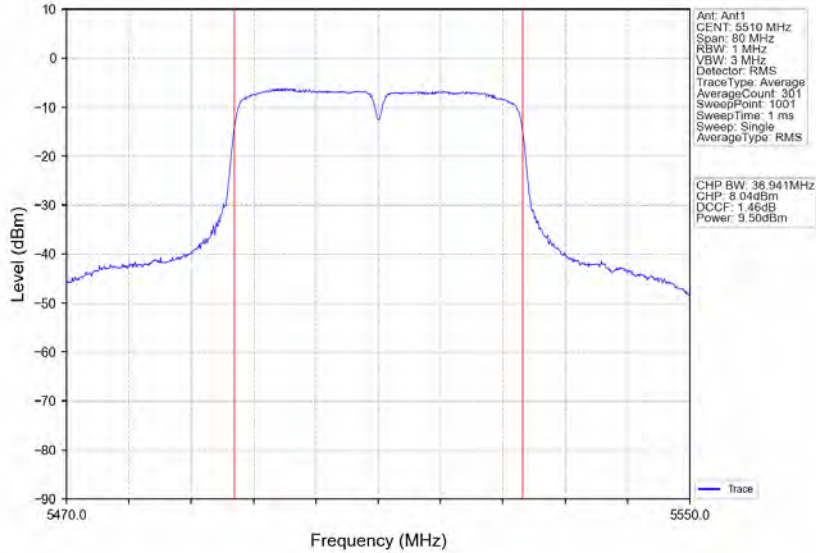
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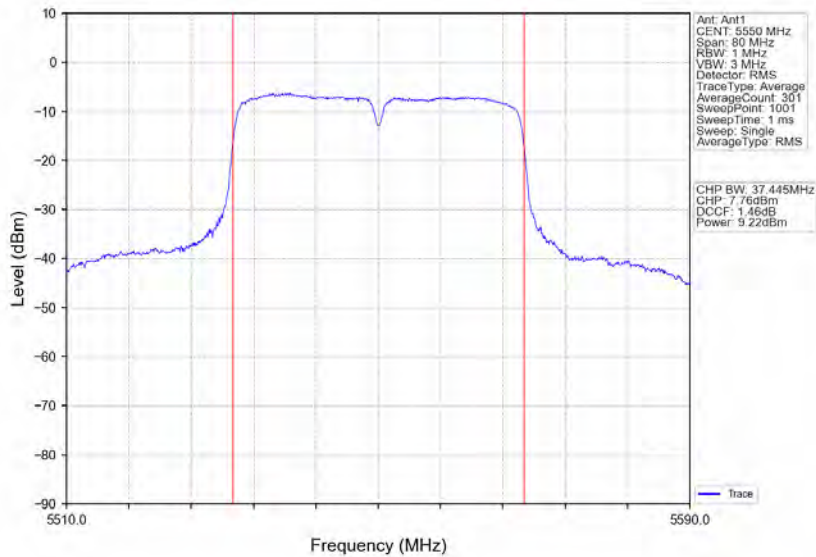
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802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



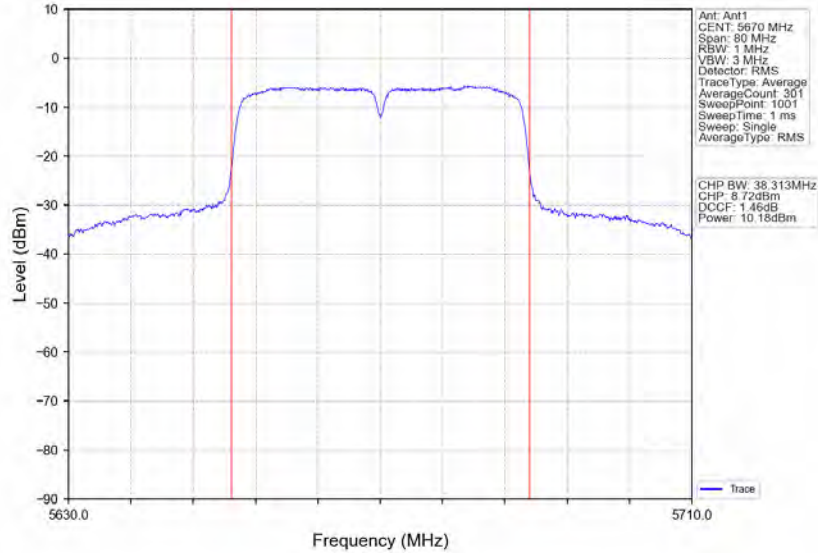
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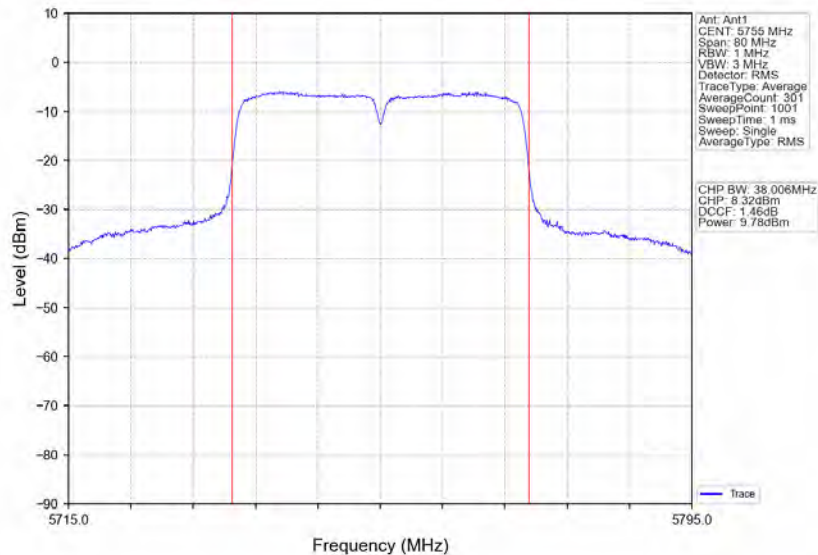
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802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



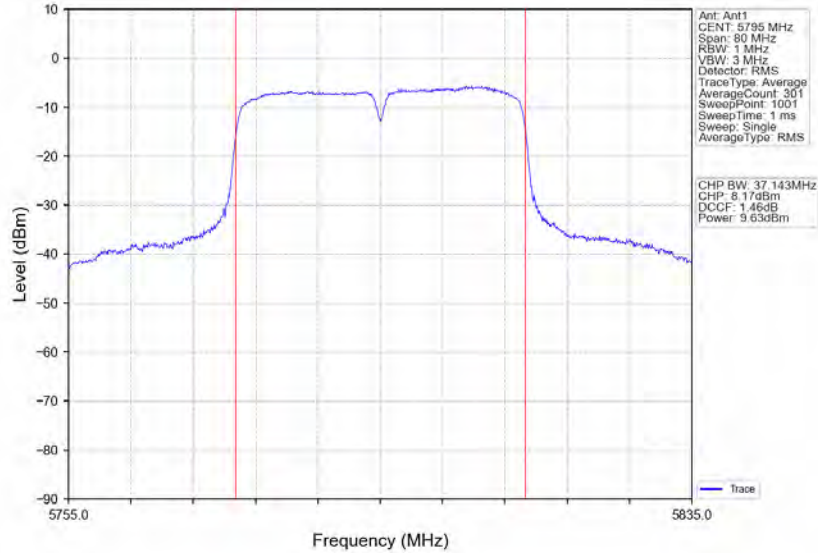
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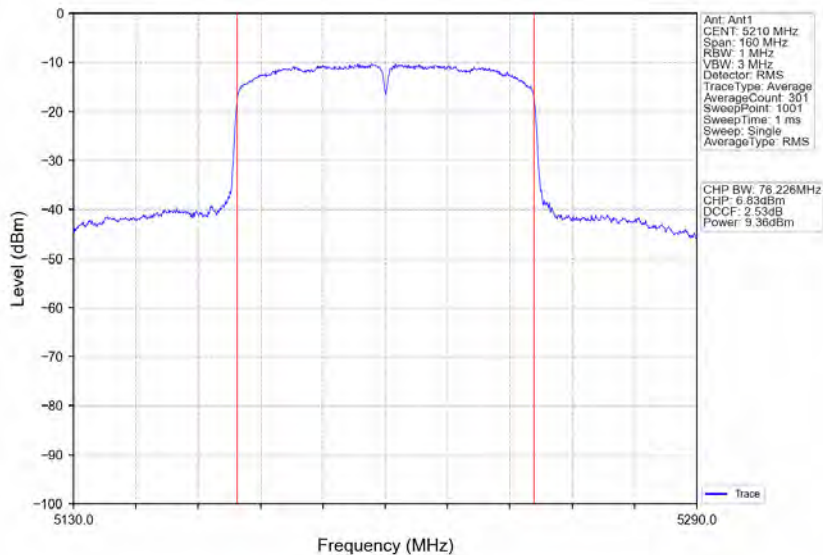
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



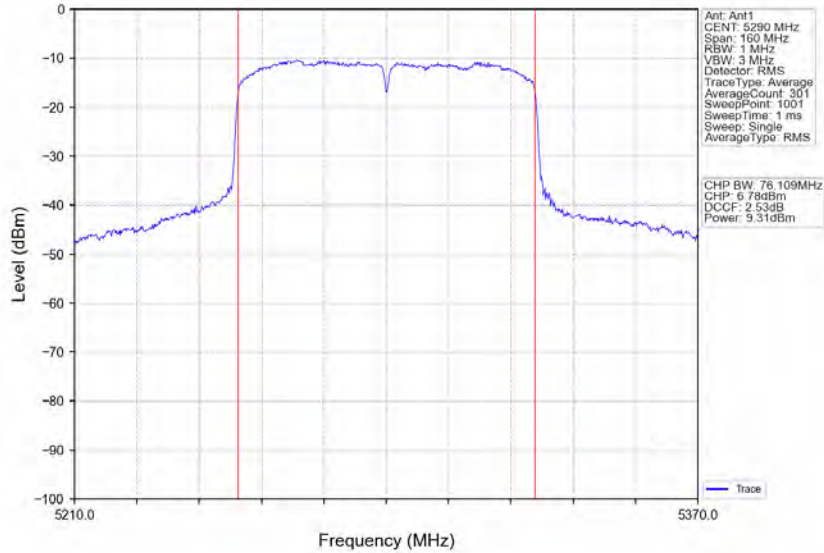
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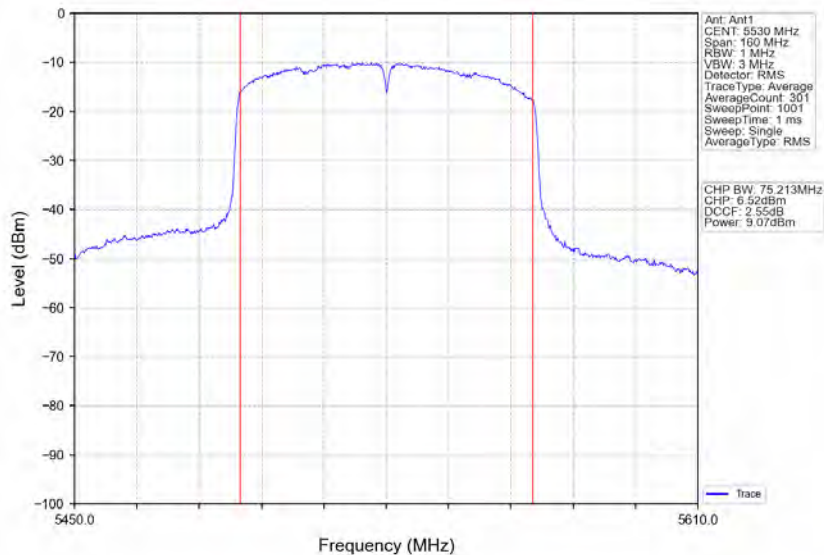
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802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



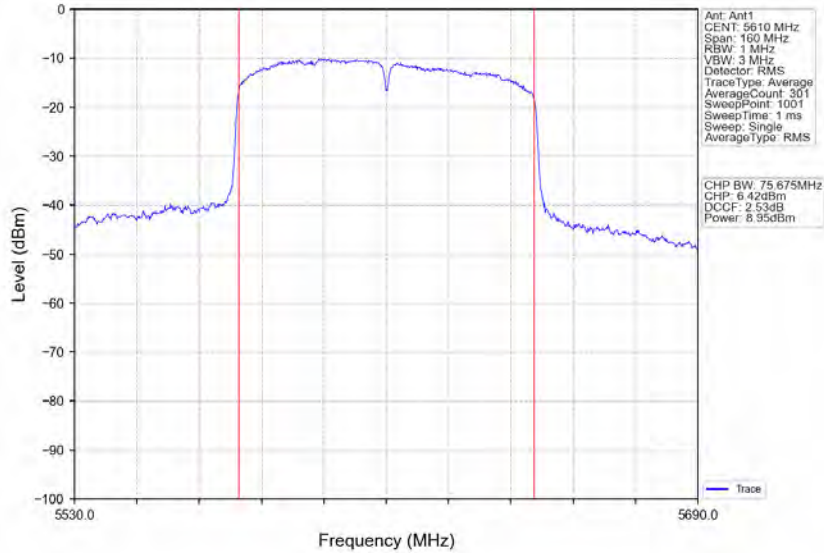
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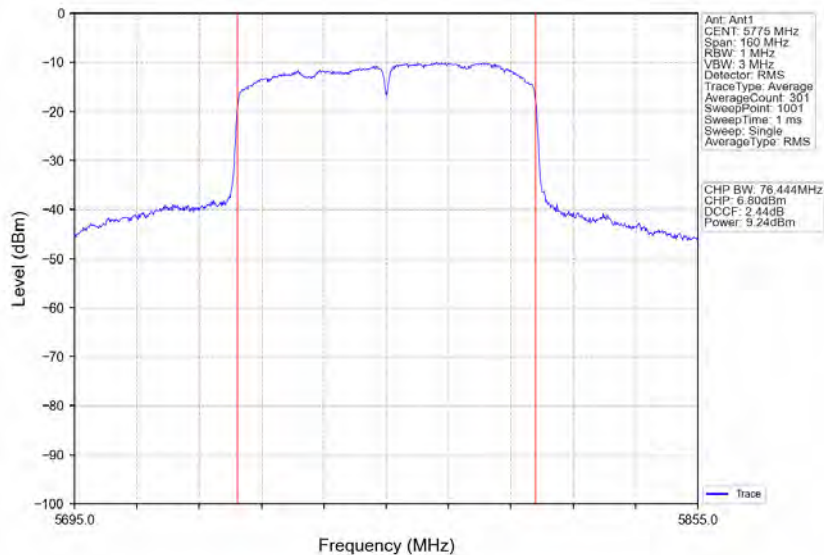
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802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5180	-1.00	<=11	Pass
		5200	-0.53	<=11	Pass
		5240	-0.49	<=11	Pass
		5260	-0.62	<=11	Pass
		5300	-0.24	<=11	Pass
		5320	-0.97	<=11	Pass
		5500	-1.01	<=11	Pass
		5580	-0.94	<=11	Pass
802.11ac (VHT40)	SISO	5700	-0.61	<=11	Pass
		5190	-4.69	<=11	Pass
		5230	-4.50	<=11	Pass
		5270	-4.68	<=11	Pass
		5310	-5.66	<=11	Pass
		5510	-4.63	<=11	Pass
		5550	-4.97	<=11	Pass
802.11ac (VHT80)	SISO	5670	-4.46	<=11	Pass
		5210	-7.70	<=11	Pass
		5290	-8.00	<=11	Pass
		5530	-7.59	<=11	Pass
		5610	-7.85	<=11	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

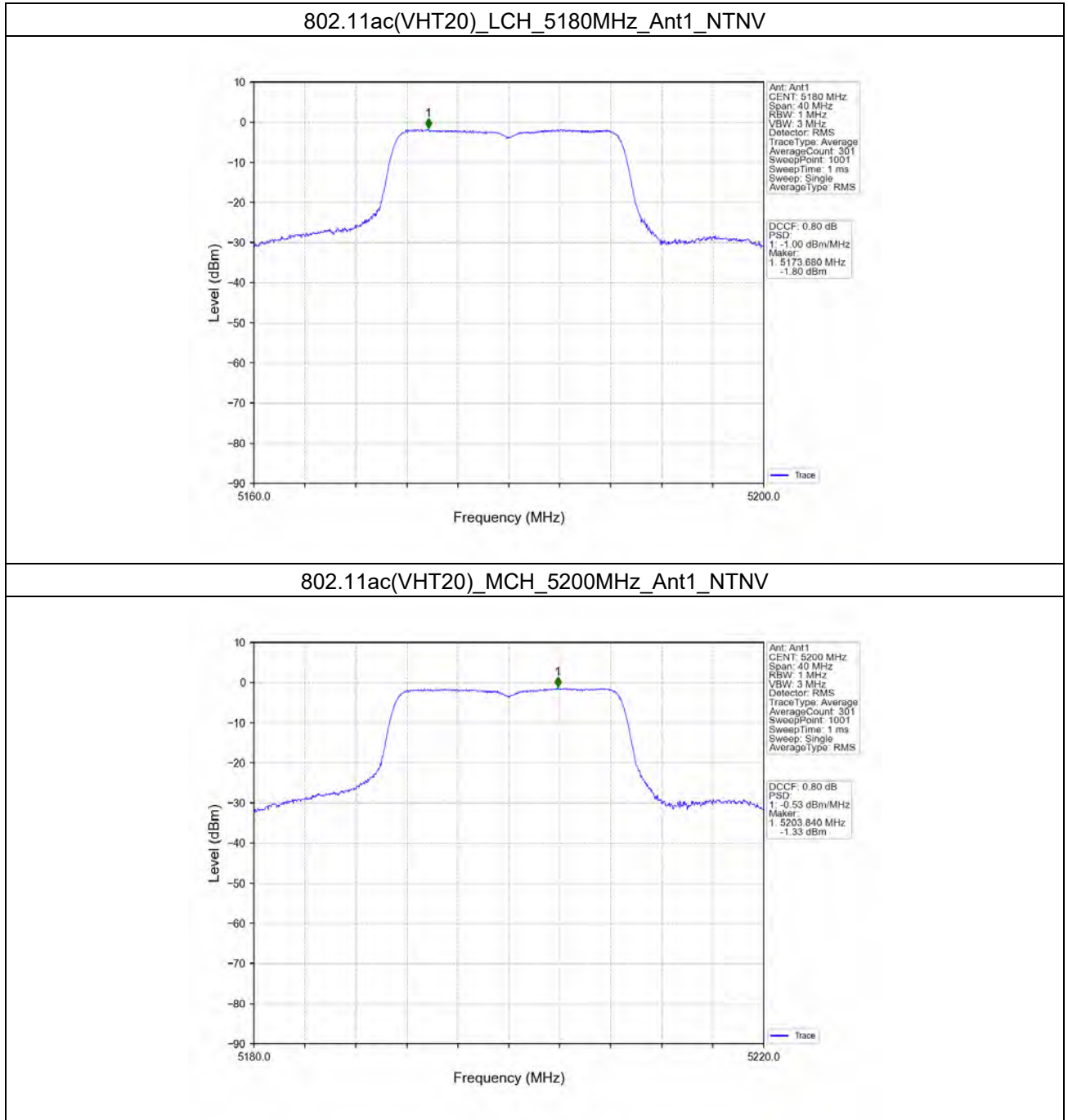


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4.1.2 Test Graph



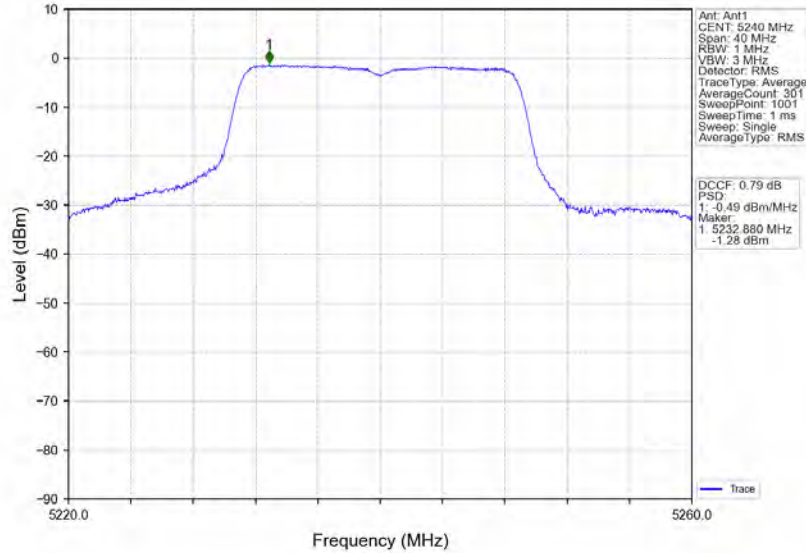
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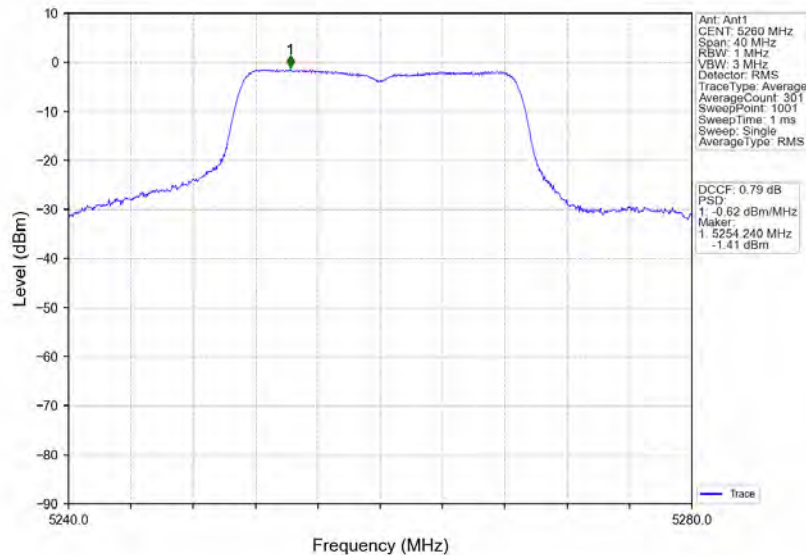
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



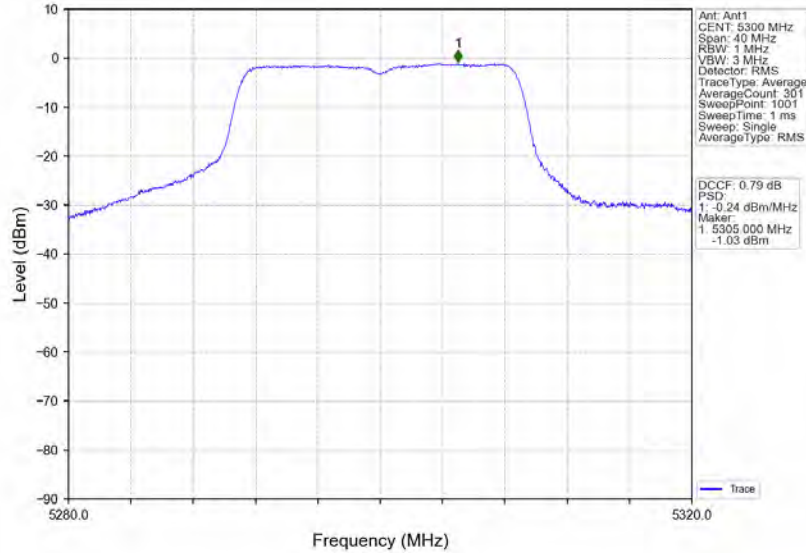
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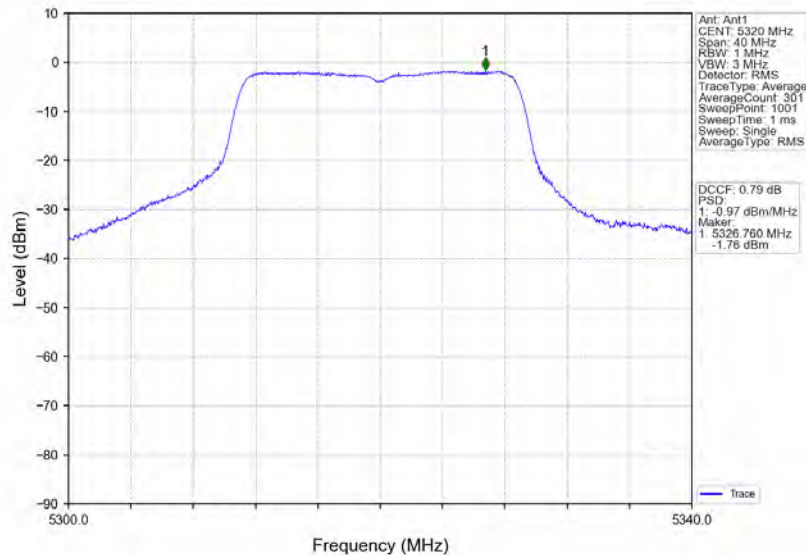
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



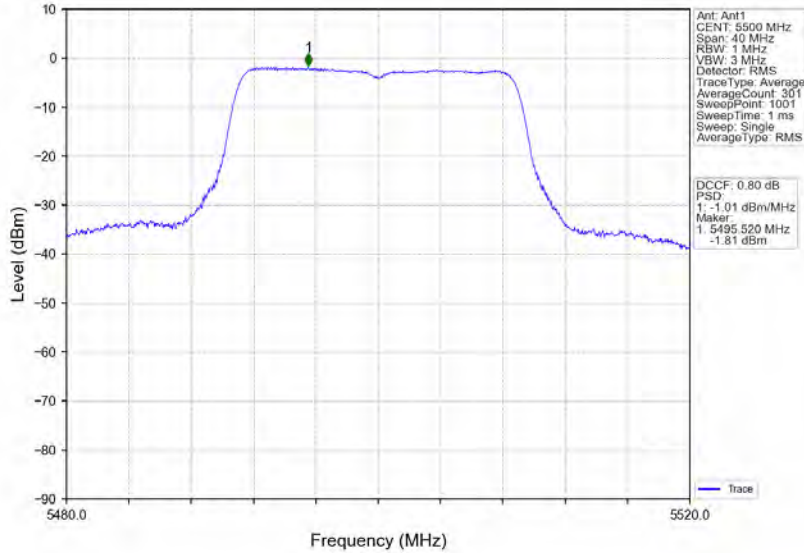
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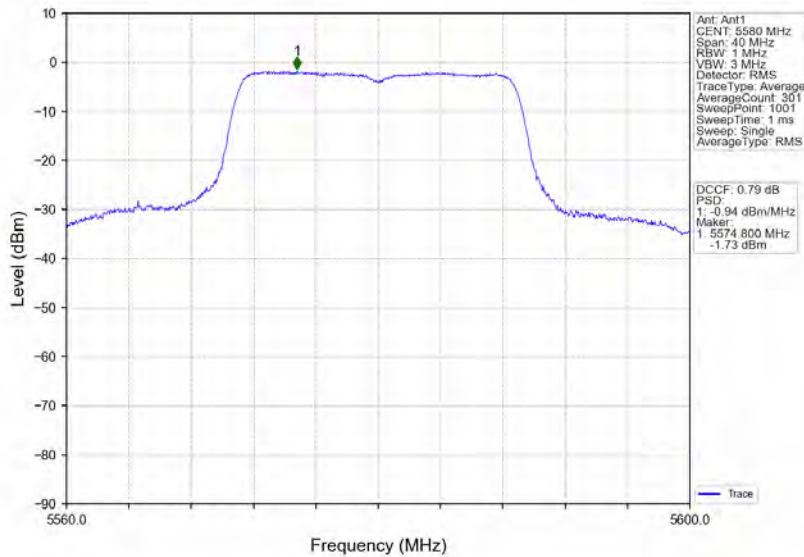
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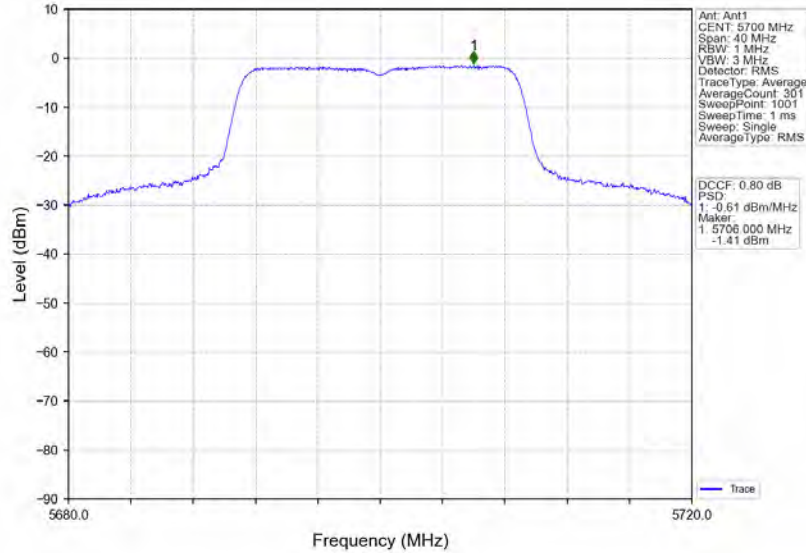
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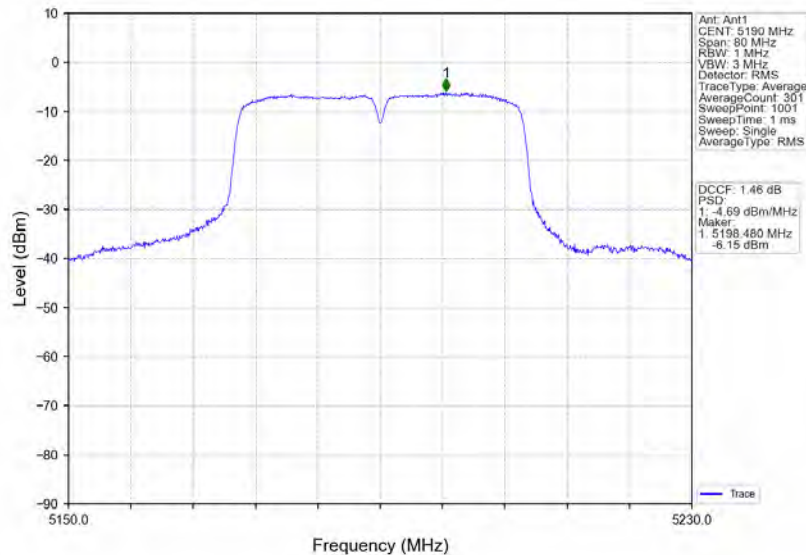
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



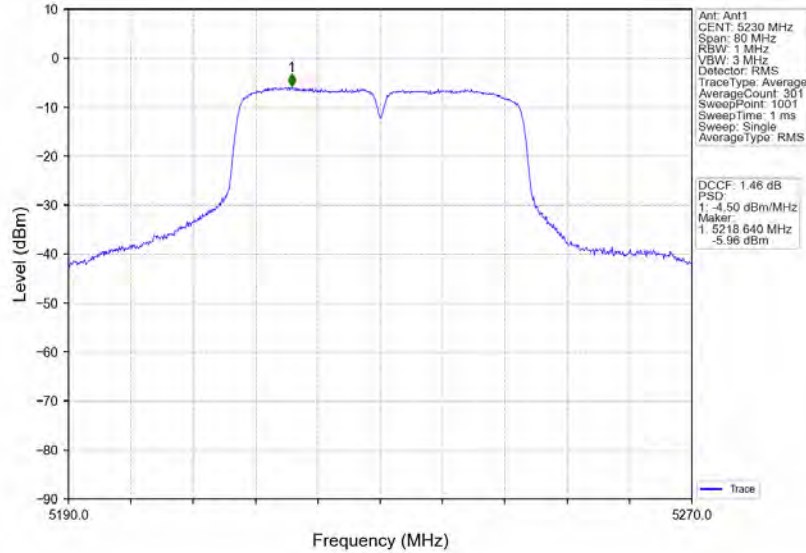
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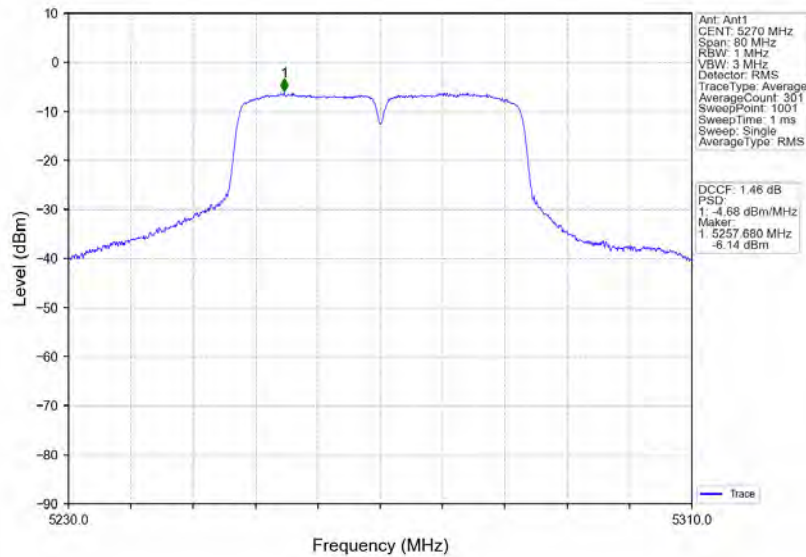
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



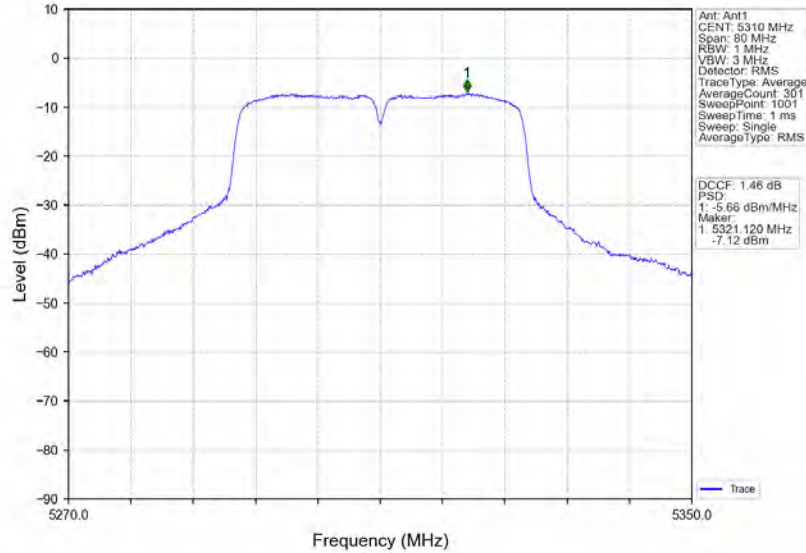
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



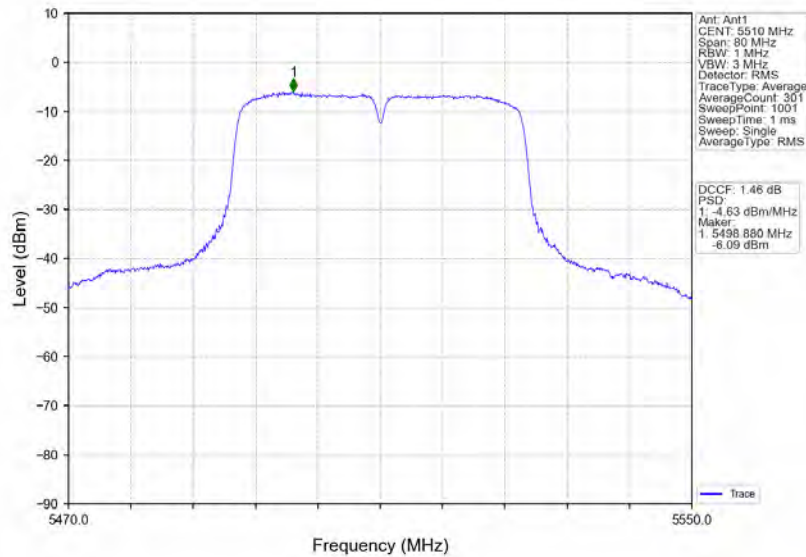
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802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



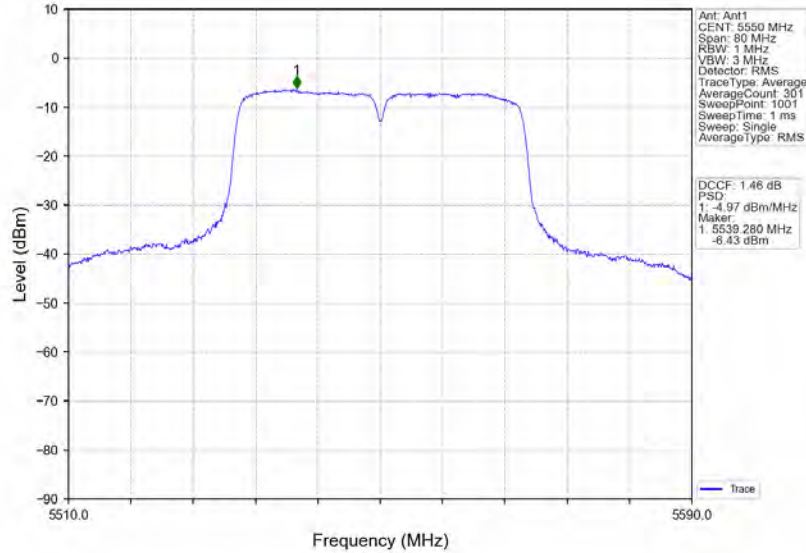
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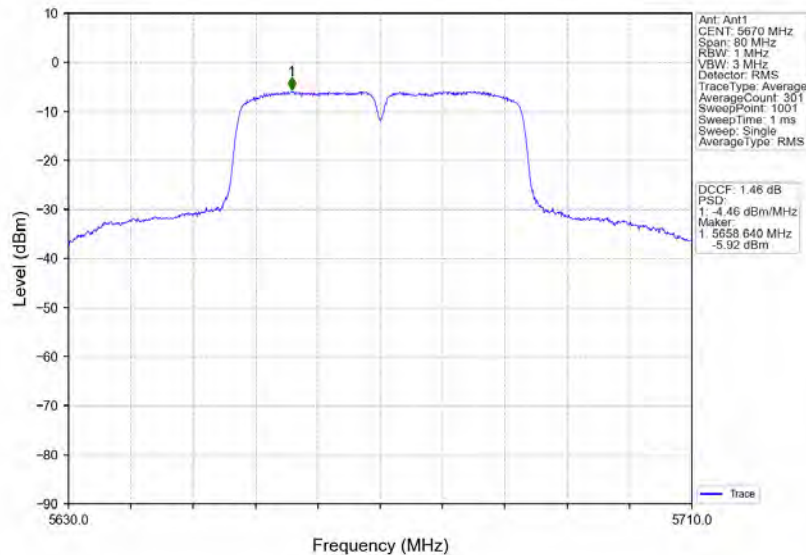
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802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



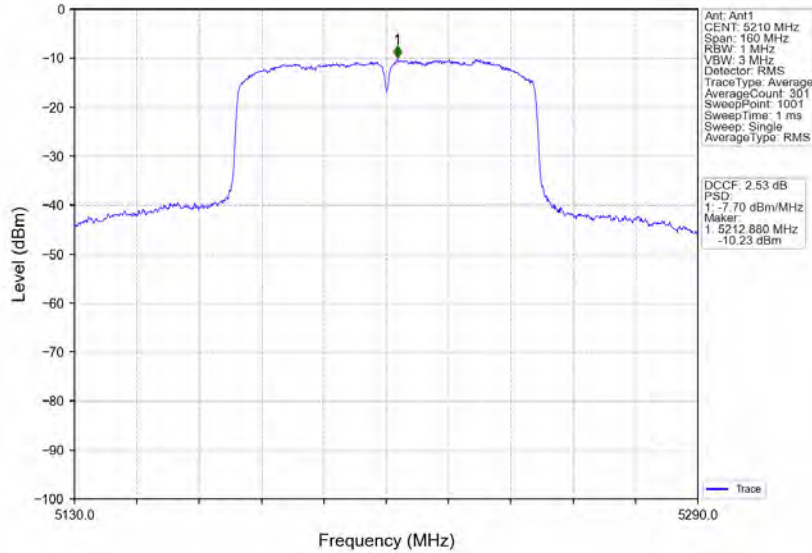
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



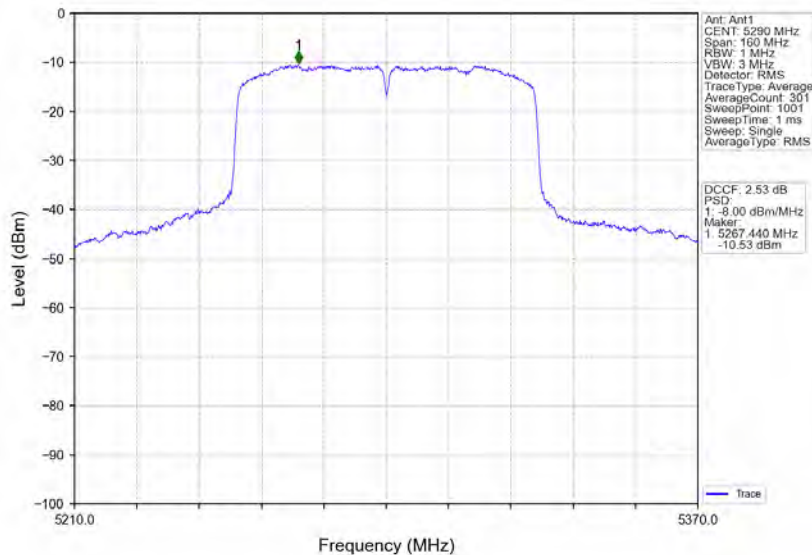
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



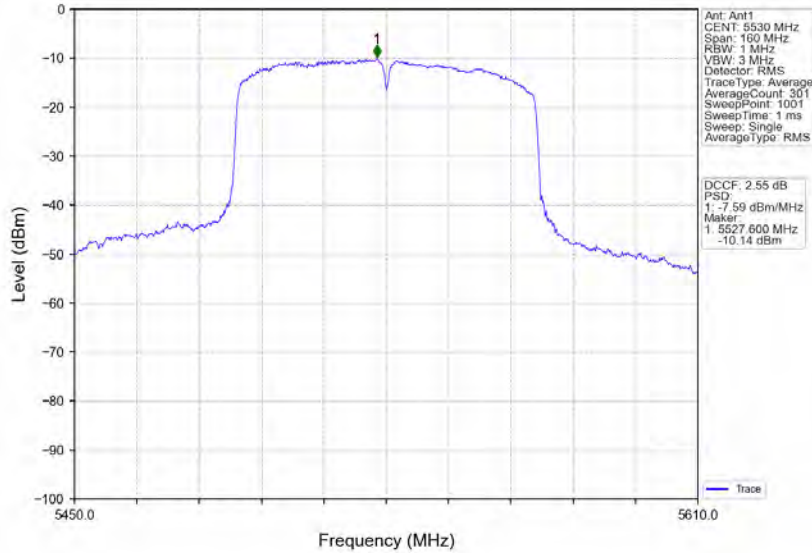
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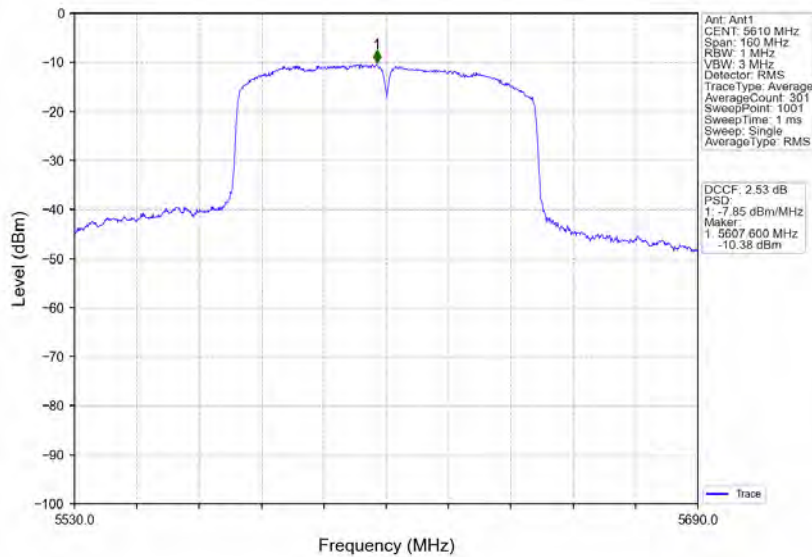
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802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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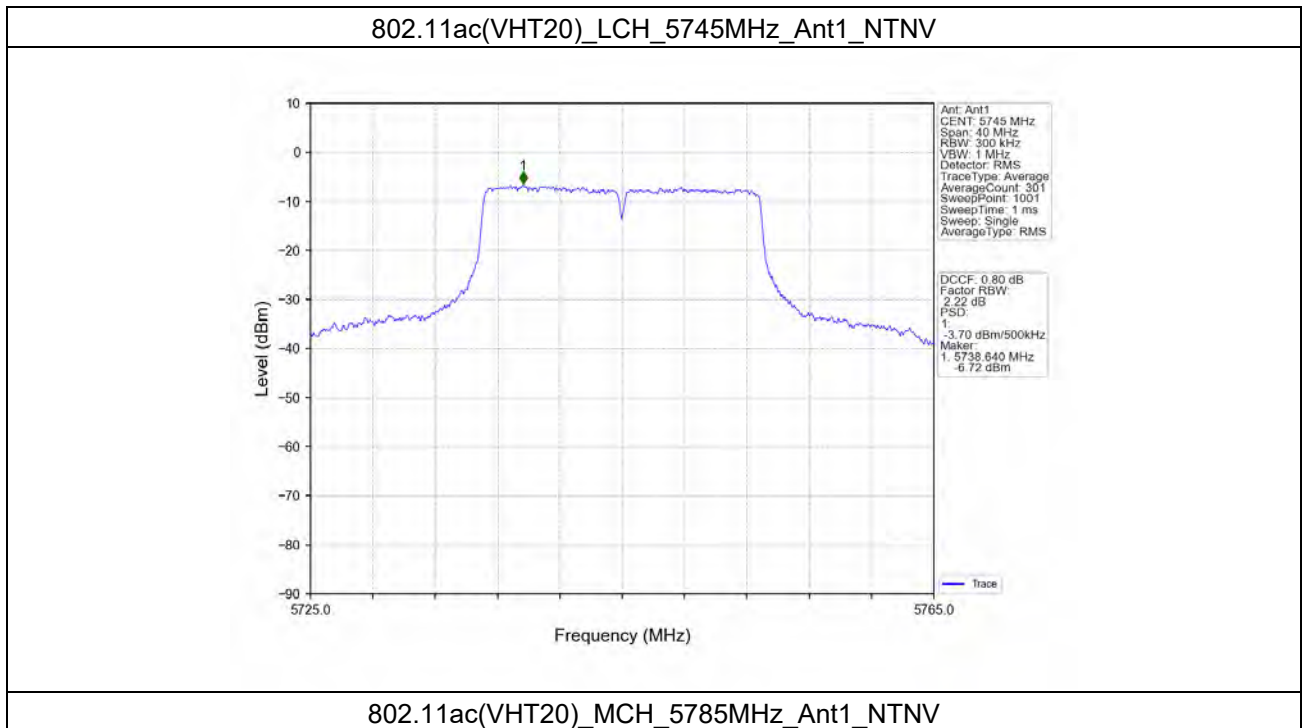
4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11ac (VHT20)	SISO	5745	-3.70	<=30	Pass
		5785	-2.96	<=30	Pass
		5825	-3.32	<=30	Pass
802.11ac (VHT40)	SISO	5755	-7.51	<=30	Pass
		5795	-6.47	<=30	Pass
802.11ac (VHT80)	SISO	5775	-9.77	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

4.2.2 Test Graph

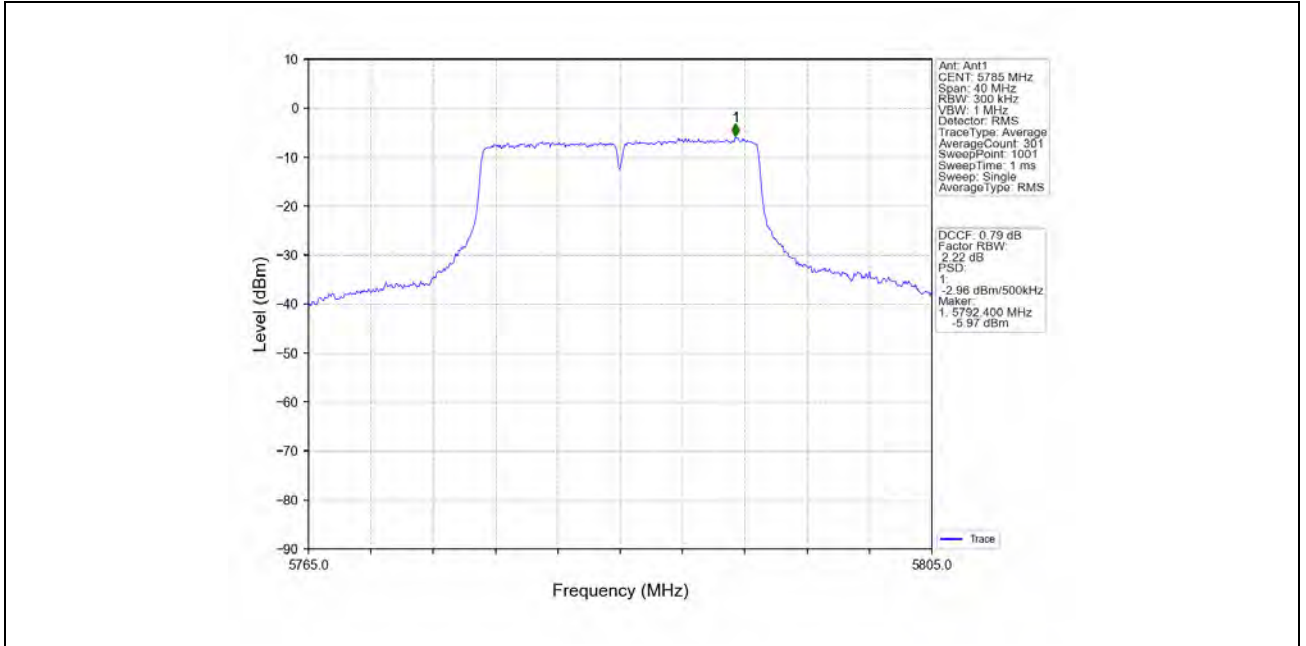


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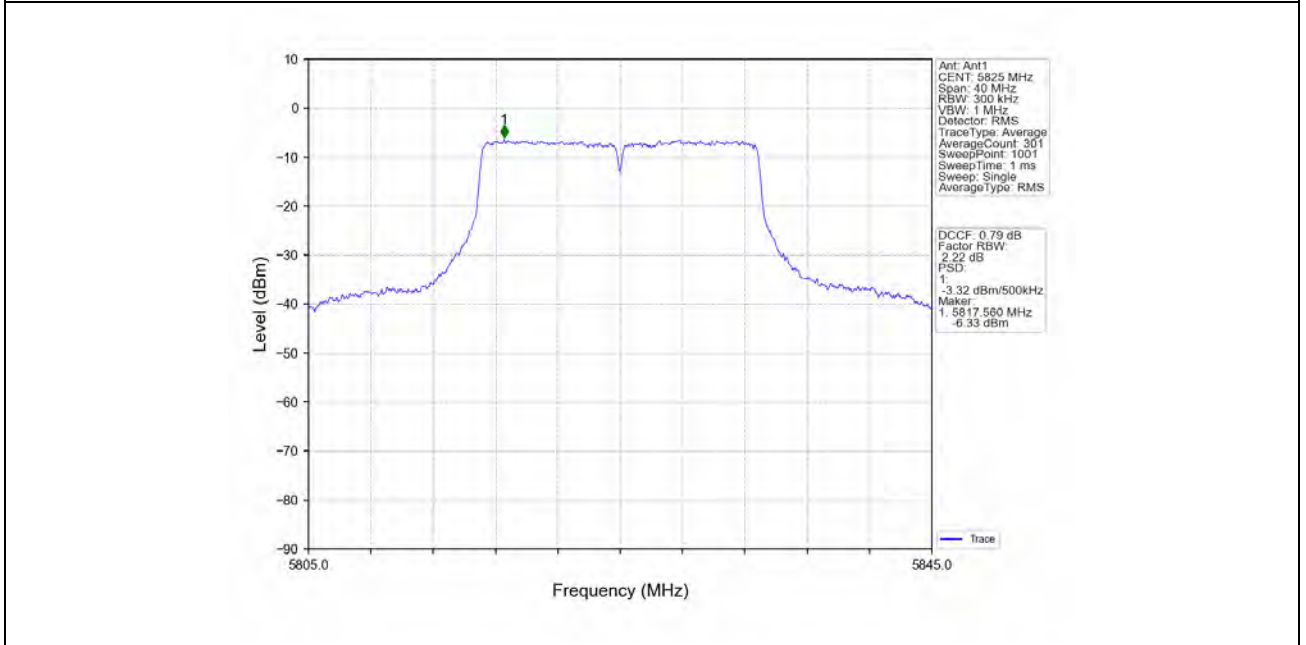
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

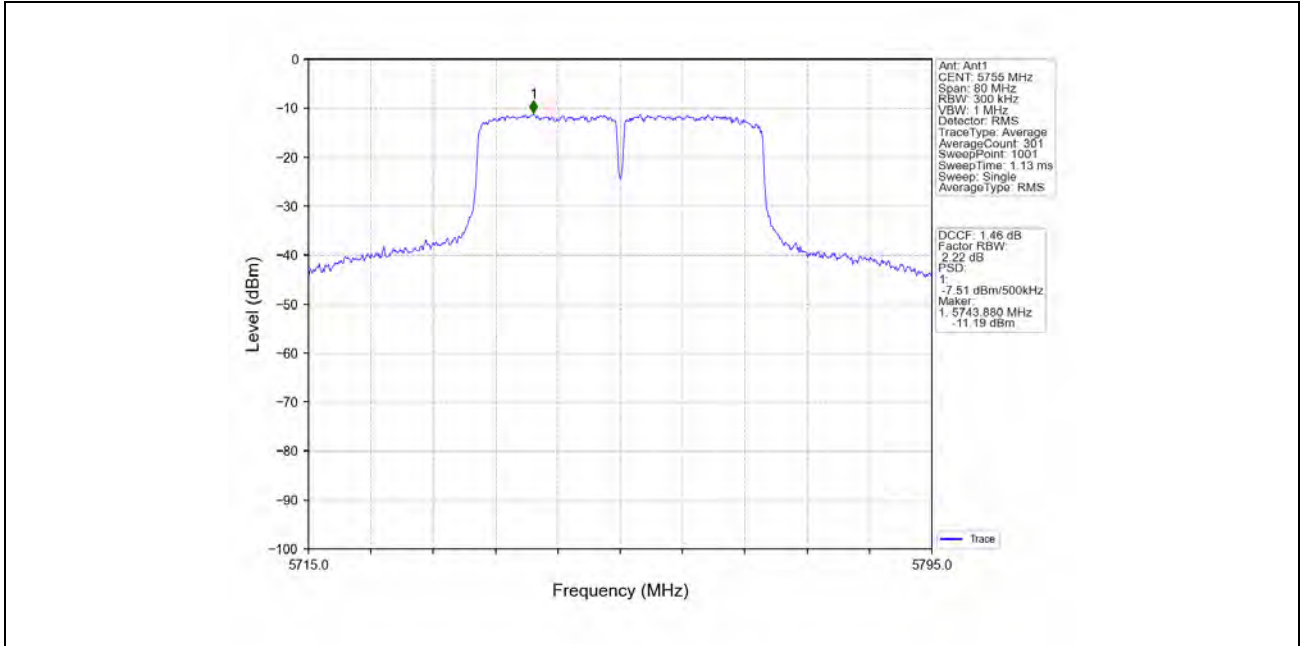


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

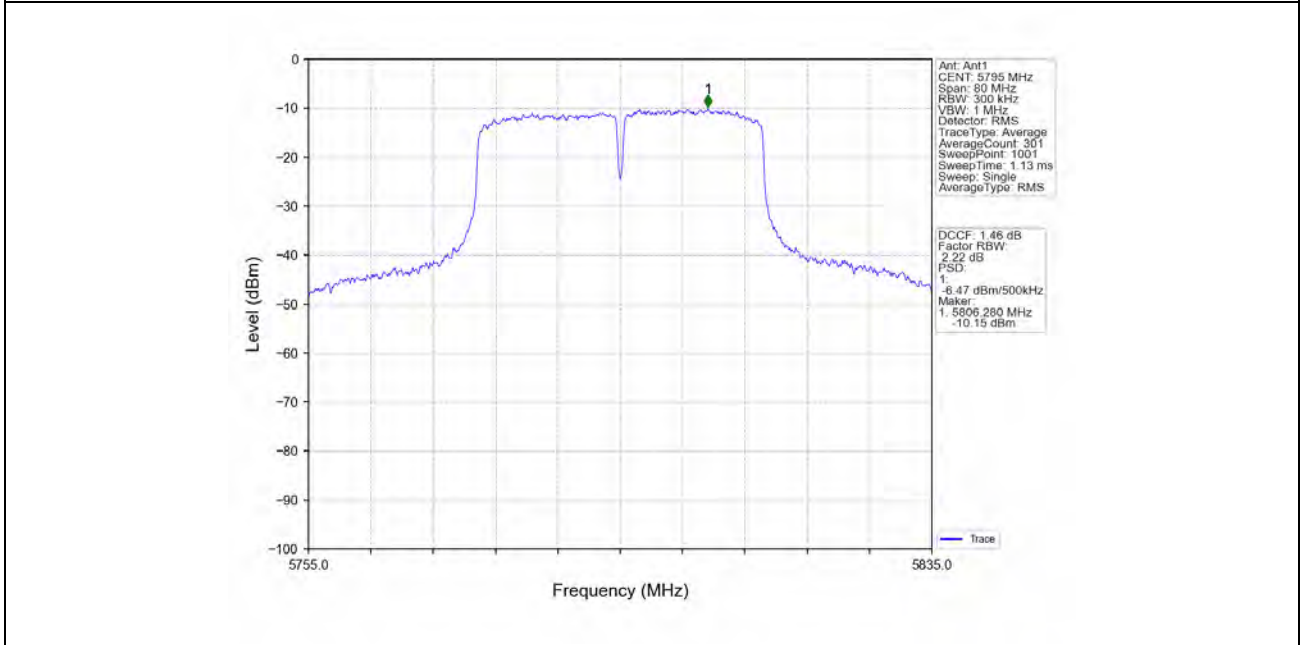


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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

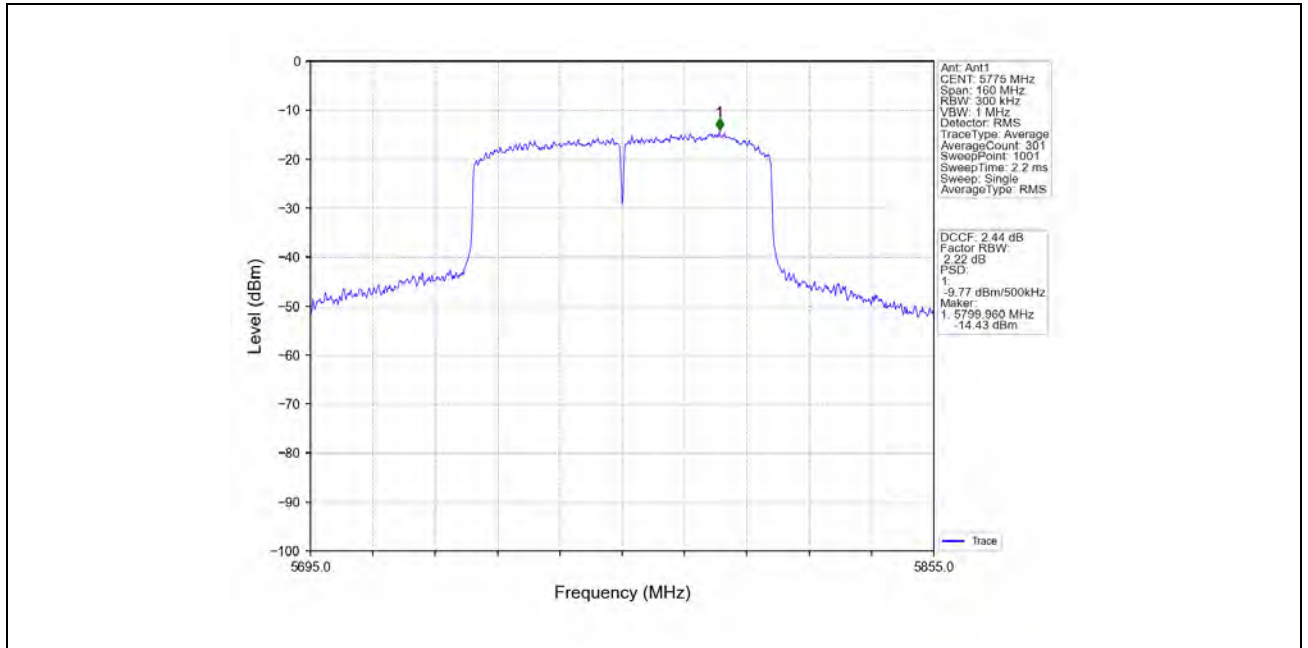


802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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