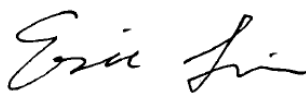


TEST REPORT

Application No.: KSCR2210001857AT
FCC ID: 2AH25T6810
IC: 22621-T6810
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Smart POS system
Model No.: T6810
HVIN: T6810, T6810H
Trade Mark: SUNMI
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5 April 2018 Amendment 2
Date of Receipt: 2022-10-08
Date of Test: 2022-10-21 to 2022-11-17
Date of Issue: 2022-11-19

Test Result:	Pass*
---------------------	--------------

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



Eric Lin
Laboratory Manager



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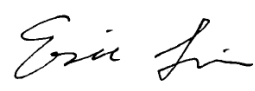
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Report No.: KSCR221000185704

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Revision Record			
Version	Description	Date	Remark
00	Original	2022-11-19	/

Authorized for issue by:				
				
		Eric Liu /Project Engineer		
				
		Eric Lin /Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	47 CFR Part 15, Subpart C 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II E	Pass
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2.4	KDB 789033 D02 II F	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass
Frequency Stability	47 CFR Part 15, Subpart E15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass

Note 1:

The product is divided into high configuration version and basic configuration version.

SKU1: high configuration version, With code scanning probe, motor, front camera and MIC

SKU2: basic configuration version, Without code scanning probe, motor, front camera and MIC

Except for the above differences, everything else is the same.

After Pre-scan test, only SKU1 was tested since their differences.



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Report No.: KSCR221000185704

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Note 2:

basic configuration version: T6810

high configuration version: T6810H



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 5V 1A; DC 5V 2A
Adapter information:	Adapter 1: Model: TPA-46B050100UU Input: 100-240V~ 50/60Hz 0.2A Output: 5.0V 1.0A Adapter 2: Model: TPA-23A050200UU01 Input: 100-240V~ 50/60Hz 0.3A Output: 5.0V 2.0A Adapter 3: Model No.: UC11US PRI: 100-240V~50/60Hz 0.2A SEC: 5.0V 1.0A 5.0W
Battery information:	Model: TMPA 1ICP6/59/63 Nominal Voltage: 3.8V Limited Charge Voltage: 4.35V Rated Capacity: 2900mAh
Operation Frequency (20MHz):	U-NII-1: 5180-5240MHz U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Data Rate:	802.11a: 6/9/12/18/24/36/48/54 Mbps 802.11n: MCS0~7 802.11ac: MCS0~9
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40): 40MHz 802.11ac(HT80): 80MHz
DFS Function:	Without DFS function
TPC Function:	Without TPC function
Antenna Type:	FPC Antenna
Antenna Gain:	-0.6dBi (Provided by the manufacturer)
SN:	PC04D28400081
Firmware version:	V1.0.0



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4.2 Power level setting using in test

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
	Ant 1	Ant 1	Ant 1
36	16	16	15
40	16	16	15
48	16	16	15
149	16	16	15
157	16	16	15
165	16	16	15
Channel	802.11n(HT40)	802.11ac(HT40)	
	Ant 1	Ant 1	
38	16	15	
46	16	15	
151	16	15	
159	16	15	
Channel	802.11ac(VHT80)		
	Ant 1		
42	15		
155	15		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
The EUT has been tested as an independent unit.			



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4×10^{-8}
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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Report No.: KSCR221000185704

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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

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

No tests were sub-contracted.

Note:

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

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 FPC Antenna and no consideration of replacement. The best case gain of the Antenna: -0.6dBi

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 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.6 % RH

Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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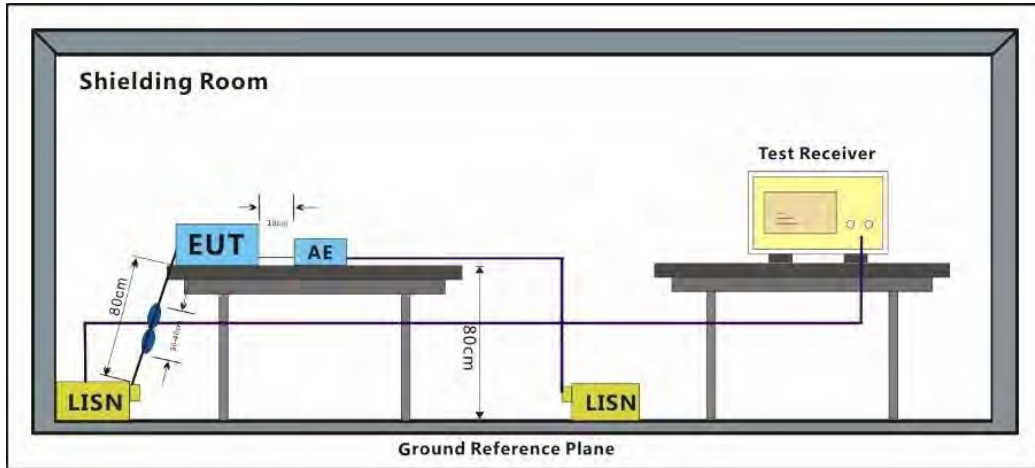
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: We have evaluated different adapters modes. The Adapter 1 mode is the worst, and only the Adapter 1 mode is tested finally.



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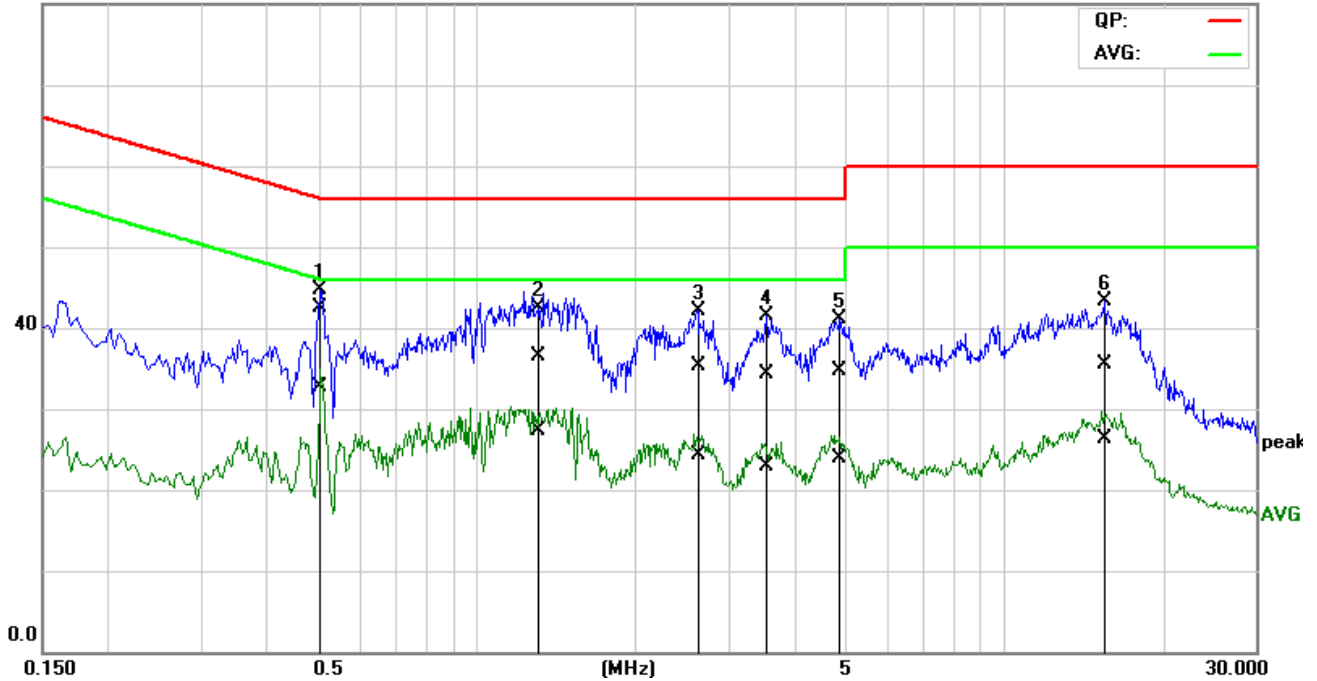
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Test Mode: 01; Line: Live line

80.0 dBuV



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.5082	23.00	13.15	19.56	42.56	32.71	56.00	46.00	-13.44	-13.29	Pass
2	1.3023	16.85	7.61	19.61	36.46	27.22	56.00	46.00	-19.54	-18.78	Pass
3	2.6427	15.64	4.61	19.68	35.32	24.29	56.00	46.00	-20.68	-21.71	Pass
4	3.5361	14.62	3.24	19.75	34.37	22.99	56.00	46.00	-21.63	-23.01	Pass
5	4.8183	14.94	4.20	19.80	34.74	24.00	56.00	46.00	-21.26	-22.00	Pass
6	15.4906	15.24	5.99	20.24	35.48	26.23	60.00	50.00	-24.52	-23.77	Pass



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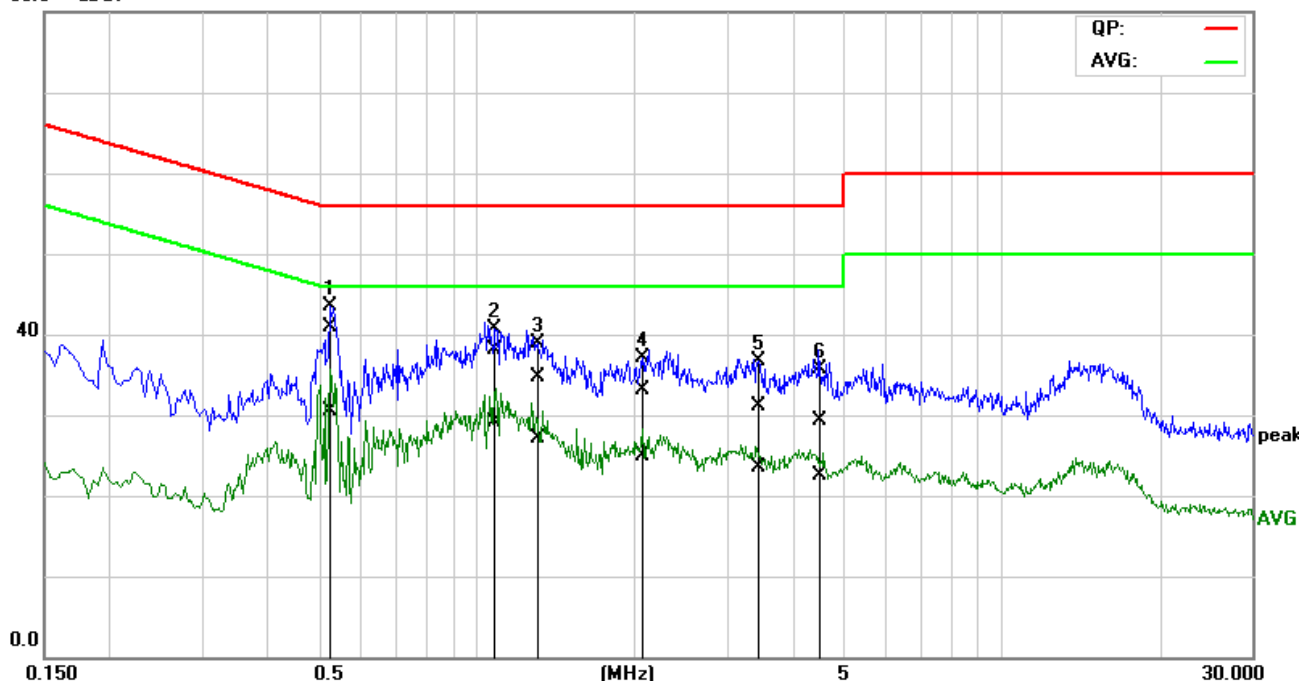
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Test Mode: 01; Line: Neutral Line

80.0 dBuV



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.5255	21.37	10.93	19.56	40.93	30.49	56.00	46.00	-15.07	-15.51	Pass
2	1.0826	18.54	9.41	19.60	38.14	29.01	56.00	46.00	-17.86	-16.99	Pass
3	1.2961	15.18	7.48	19.61	34.79	27.09	56.00	46.00	-21.21	-18.91	Pass
4	2.0530	13.42	5.26	19.65	33.07	24.91	56.00	46.00	-22.93	-21.09	Pass
5	3.4346	11.30	3.77	19.73	31.03	23.50	56.00	46.00	-24.97	-22.50	Pass
6	4.5347	9.47	2.68	19.79	29.26	22.47	56.00	46.00	-26.74	-23.53	Pass



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7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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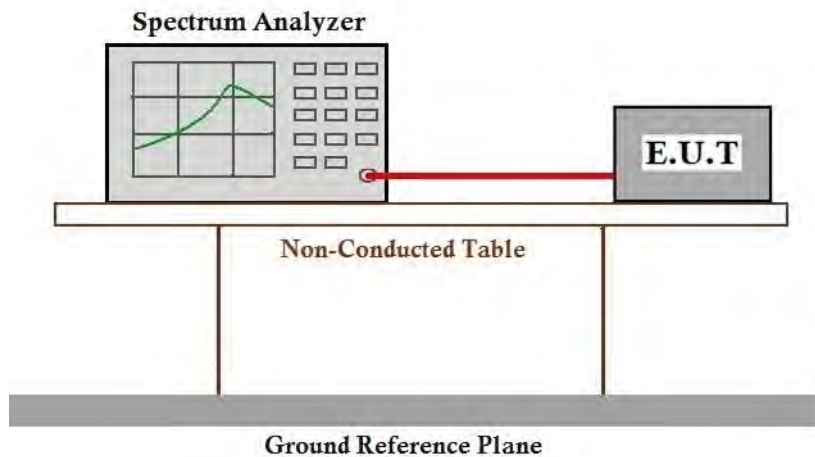
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



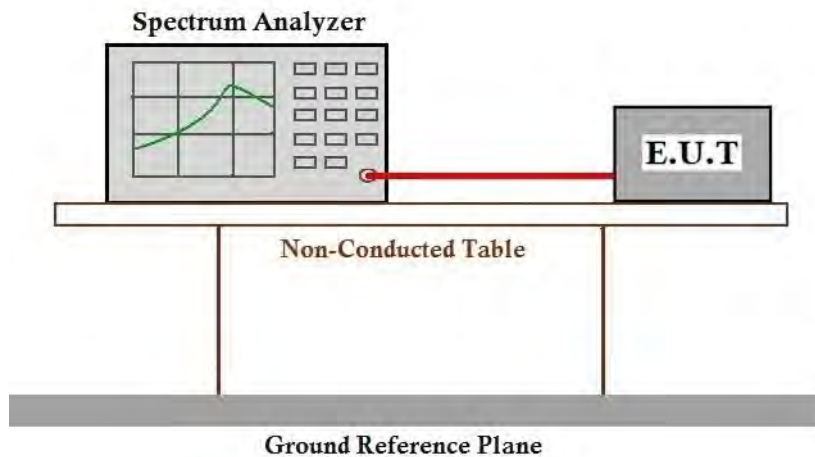
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



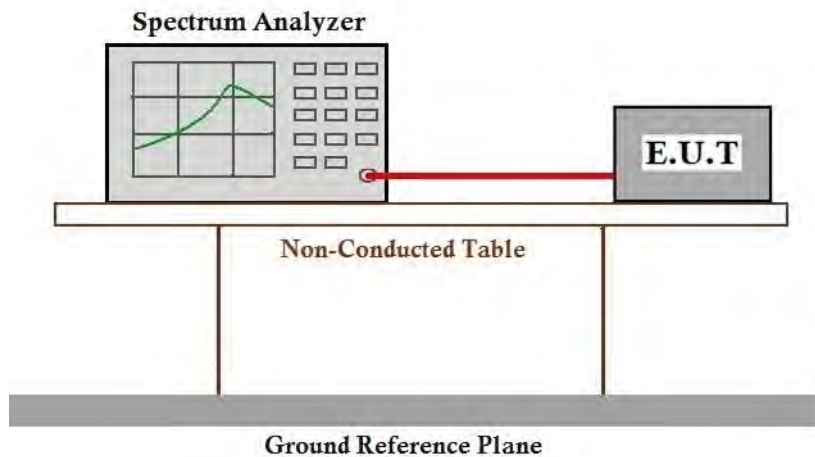
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

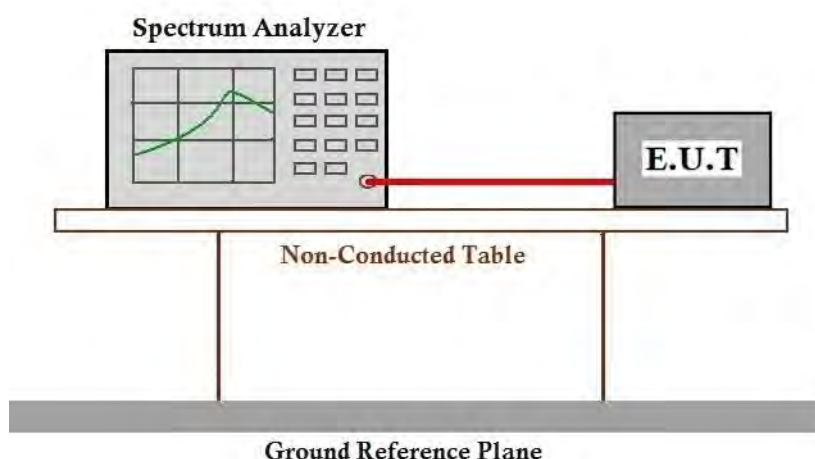
Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit for FCC:

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.

Limit for IC:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. ≤ 200mW(23dBm) or 10 + 10logB*, whichever is less
5250-5350	Conducted power ≤ 250mW(24dBm) or 11dBm+10logB*, whichever is less
	e.i.r.p. ≤ 1W(30dBm) or 17 + 10logB*, whichever is less
5470-5725	Conducted power ≤ 250mW(24dBm)-0.27dBi or 11dBm+10logB*-0.27dBi, whichever is less
	e.i.r.p. ≤ 1W(30dBm) or 17 + 10logB*, whichever is less
5725-5850	Conducted power ≤ 1W(30dBm)
Remark:	* Where B is the 99% emission bandwidth in MHz. * Band 2C directional gain is over 6dBi.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE



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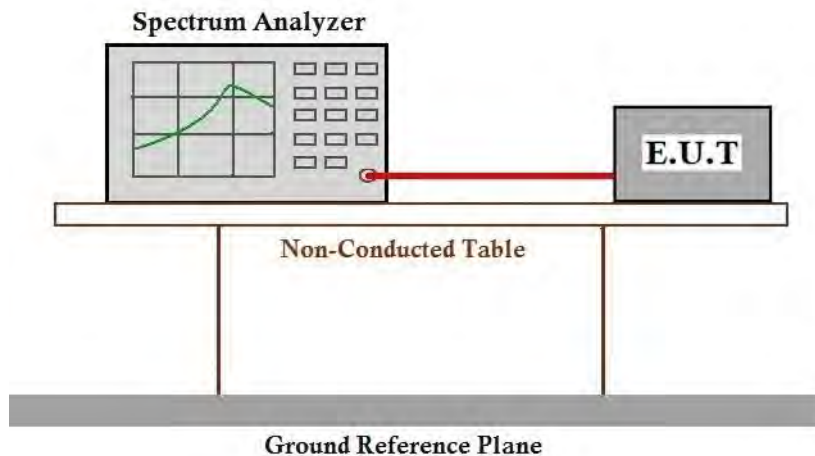
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		802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit for FCC:

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.

Limit for IC:

Frequency band(MHz)	Limit
5150-5250	e.i.r.p. spectral density ≤ 10dBm/MHz
5250-5350	≤ 11dBm/MHz
5470-5725	≤ 10.73dBm/MHz
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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE



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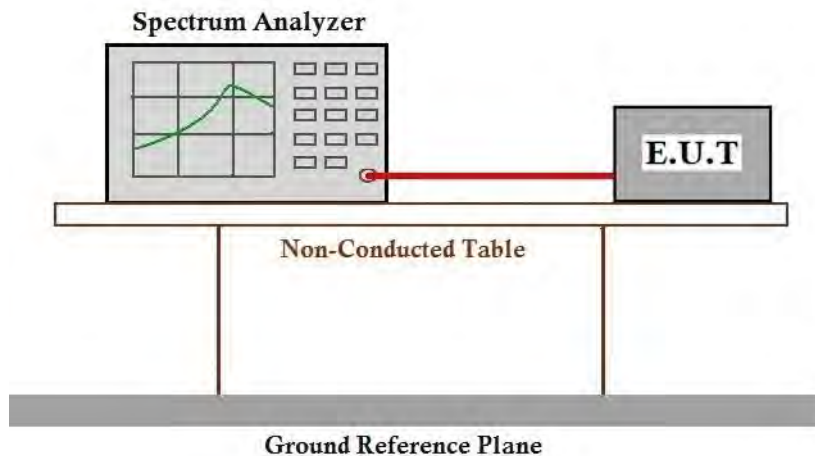
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		802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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
*(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: 55.9 % RH

Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data



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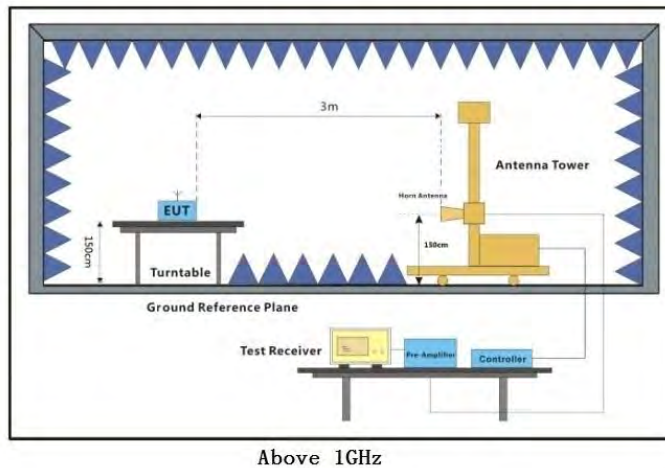
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		rates. Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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 above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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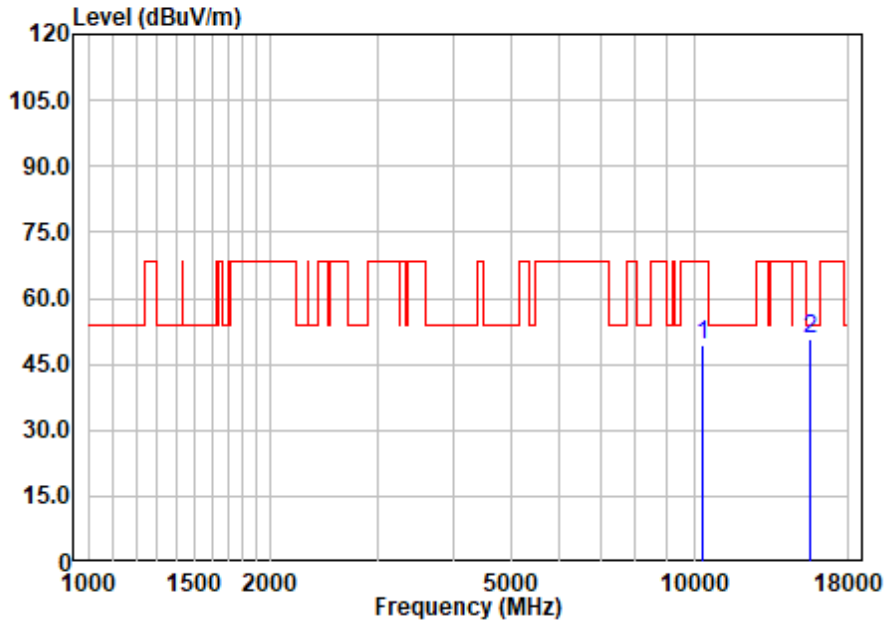
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	42.07	49.16	68.30	-19.14	Peak
2 15540.000	14.80	40.22	36.77	50.65	54.00	-3.35	Peak



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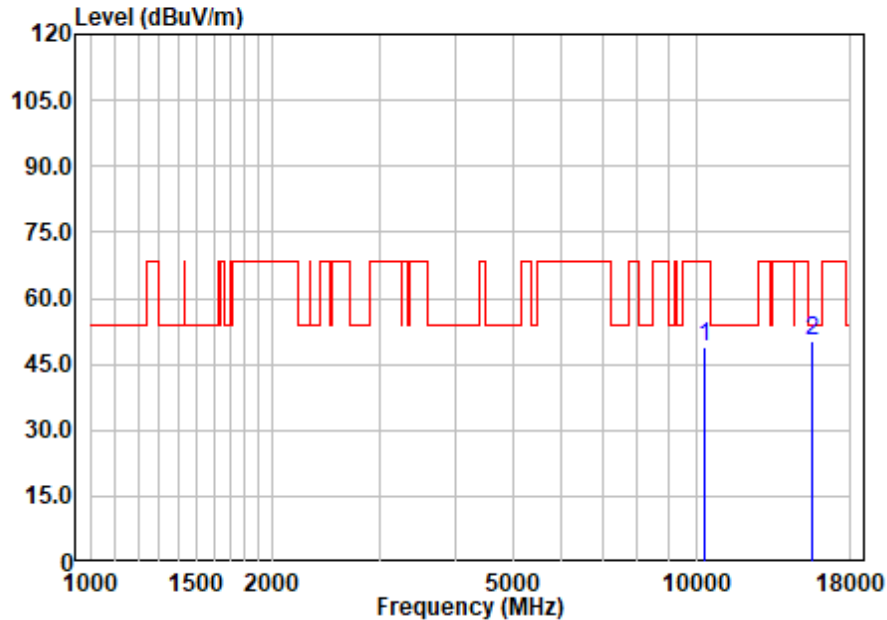
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	41.99	49.08	68.30	-19.22	Peak
2 15540.000	14.80	40.22	36.53	50.41	54.00	-3.59	Peak



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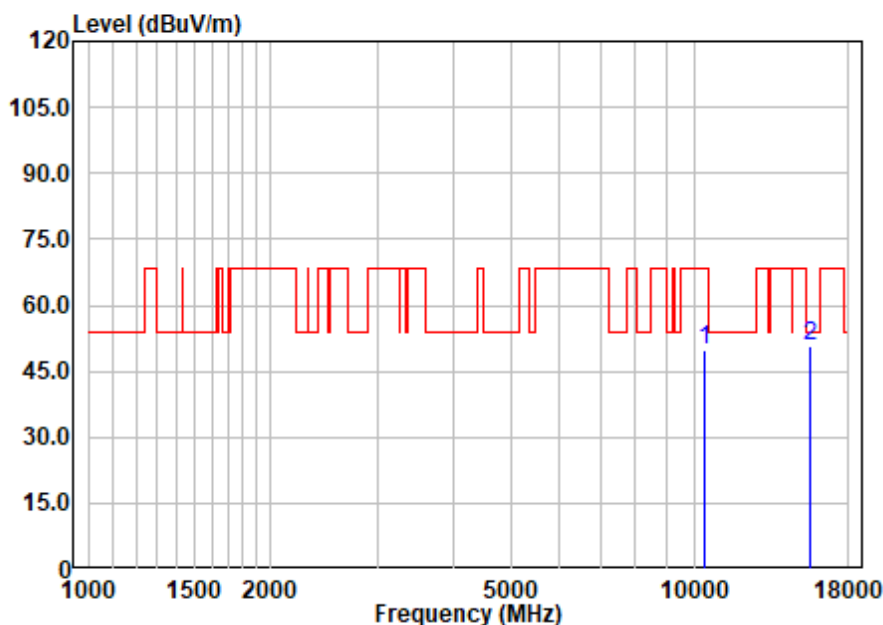
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.69	49.74	68.30	-18.56	Peak
2 15600.000	14.80	40.24	37.22	50.83	54.00	-3.17	Peak



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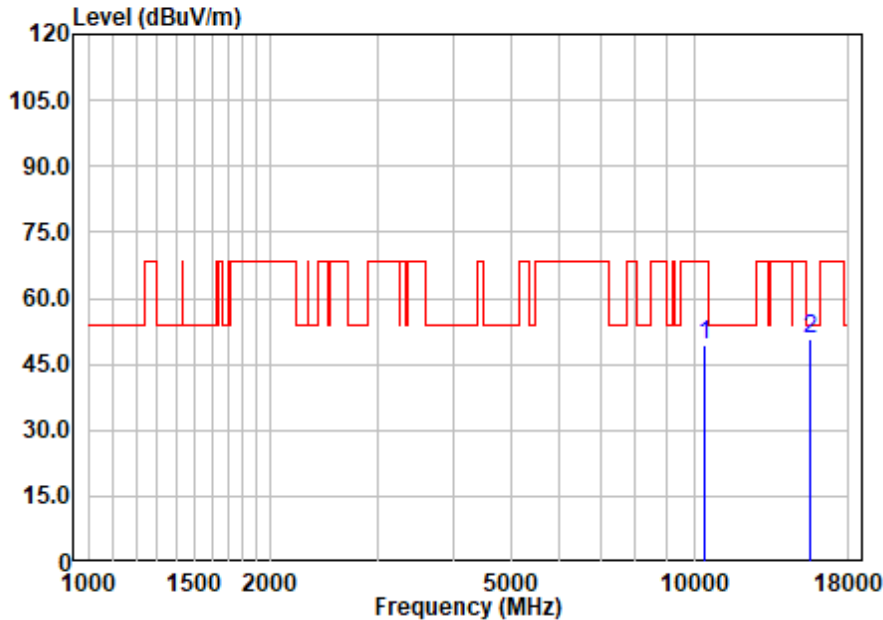
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.11	49.16	68.30	-19.14	Peak
2 15600.000	14.80	40.24	37.32	50.93	54.00	-3.07	Peak



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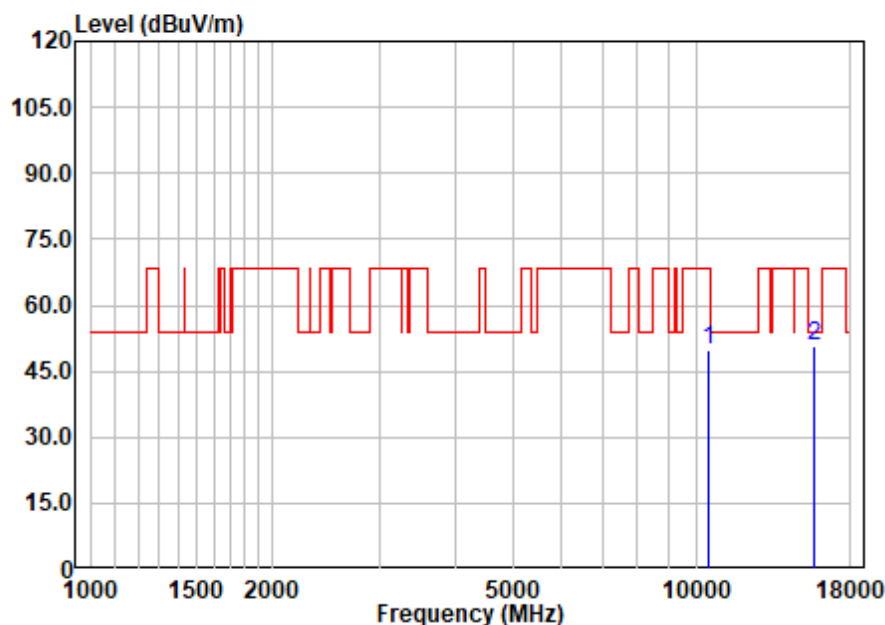
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	42.28	49.74	68.30	-18.56	Peak
2 15720.000	14.81	40.29	35.66	50.68	54.00	-3.32	Peak



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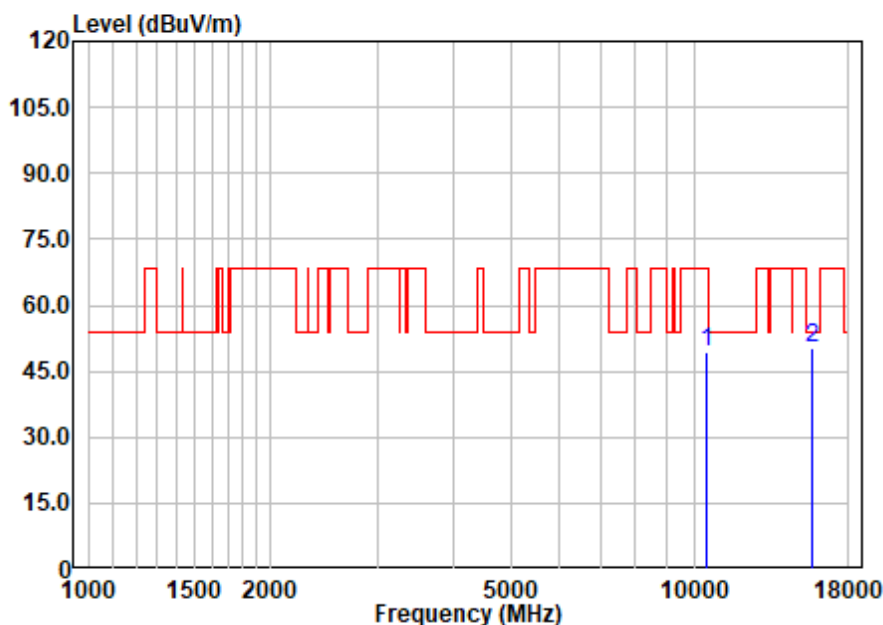
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	42.10	49.56	68.30	-18.74	Peak
2 15720.000	14.81	40.29	35.40	50.42	54.00	-3.58	Peak



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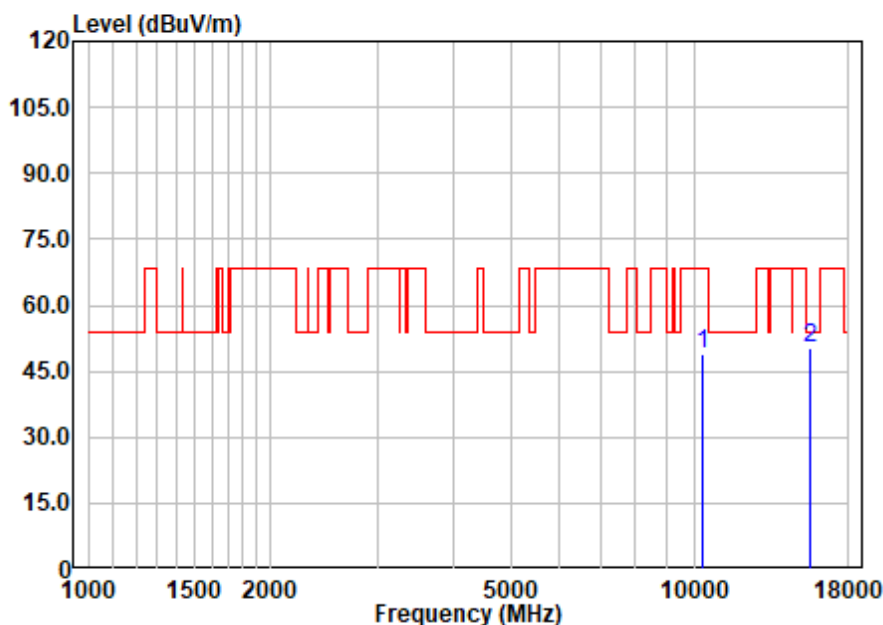
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	42.02	49.11	68.30	-19.19	Peak
2 15540.000	14.80	40.22	36.36	50.24	54.00	-3.76	Peak



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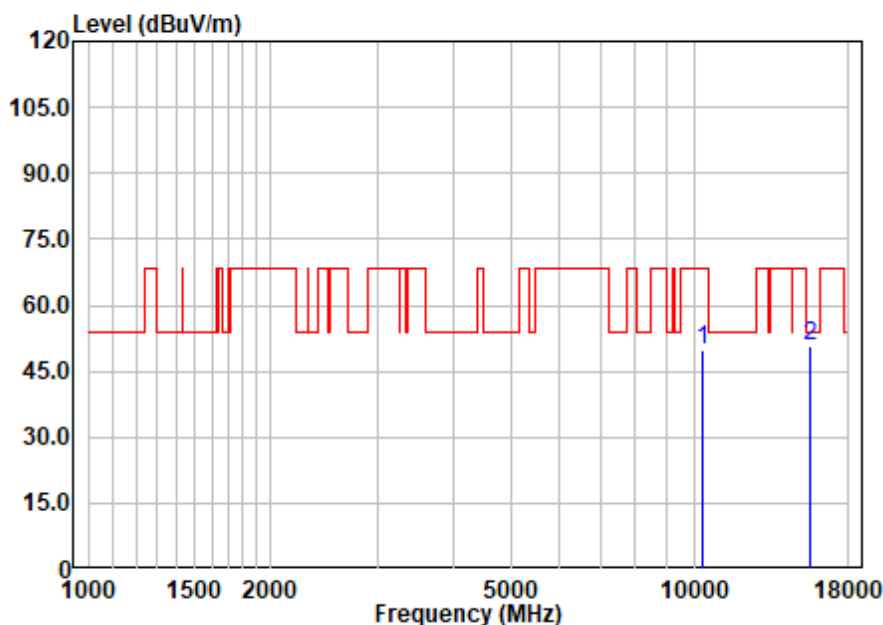
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	42.71	49.80	68.30	-18.50	Peak
2 15540.000	14.80	40.22	36.82	50.70	54.00	-3.30	Peak



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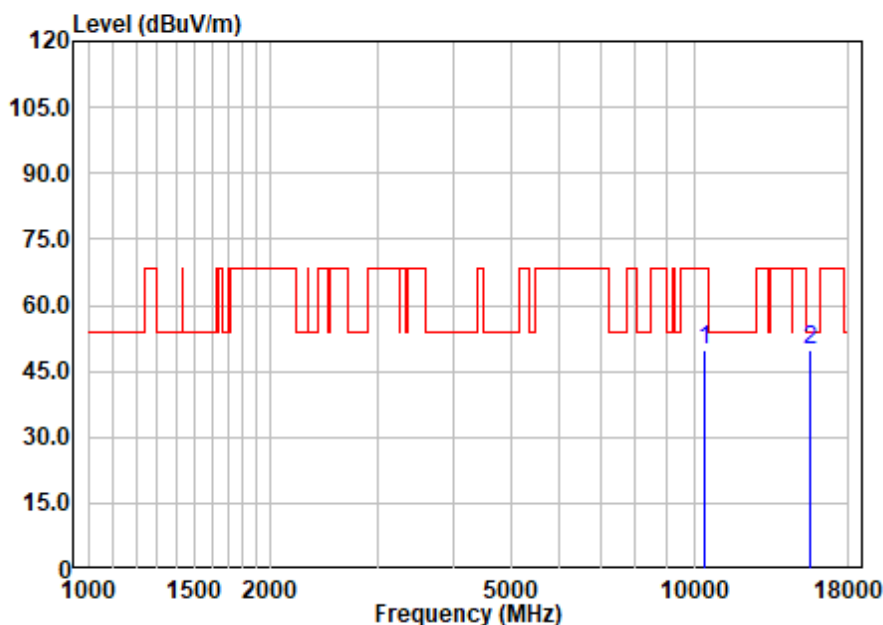
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.60	49.65	68.30	-18.65	Peak
2 15600.000	14.80	40.24	36.39	50.00	54.00	-4.00	Peak



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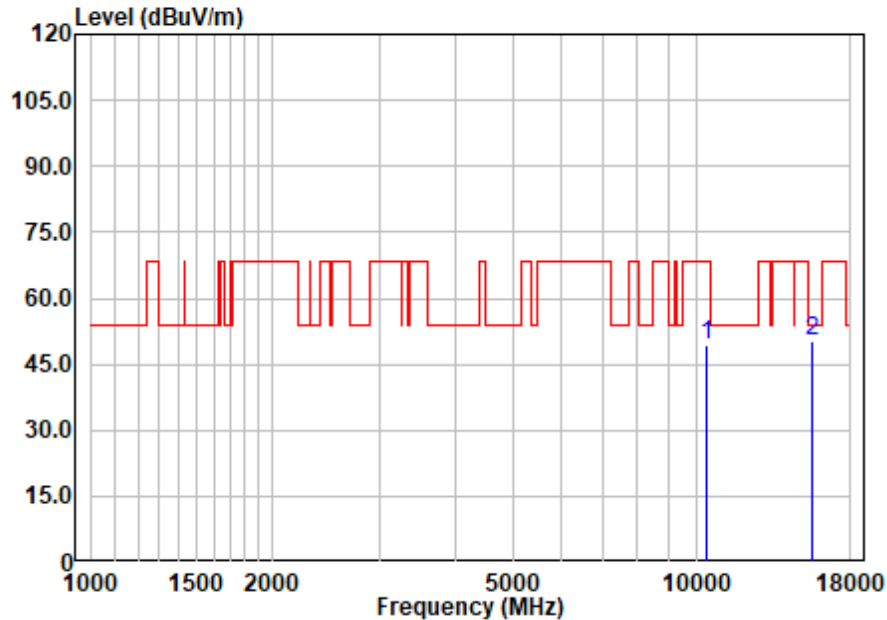
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.16	49.21	68.30	-19.09	Peak
2 15600.000	14.80	40.24	36.82	50.43	54.00	-3.57	Peak



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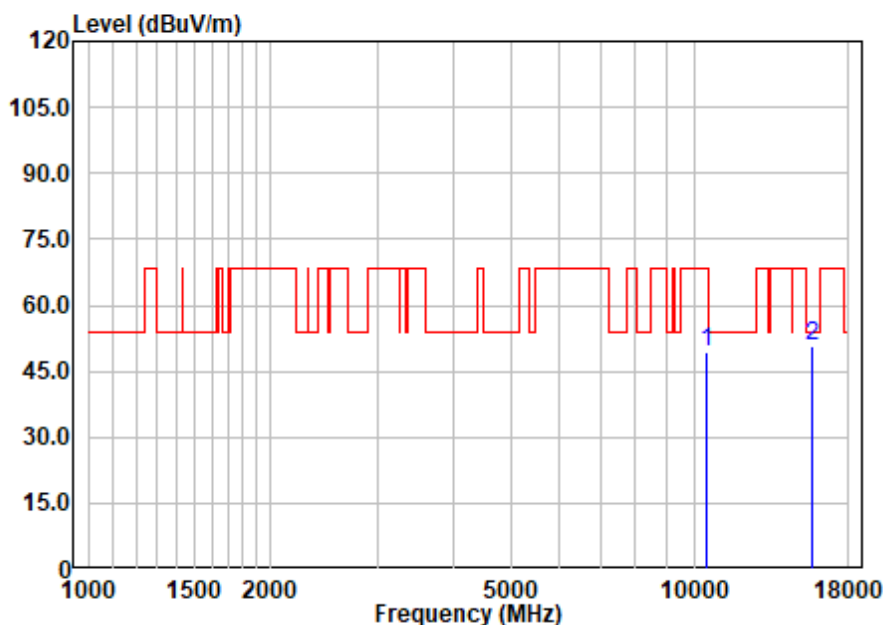
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	41.78	49.24	68.30	-19.06	Peak
2 15720.000	14.81	40.29	35.83	50.85	54.00	-3.15	Peak



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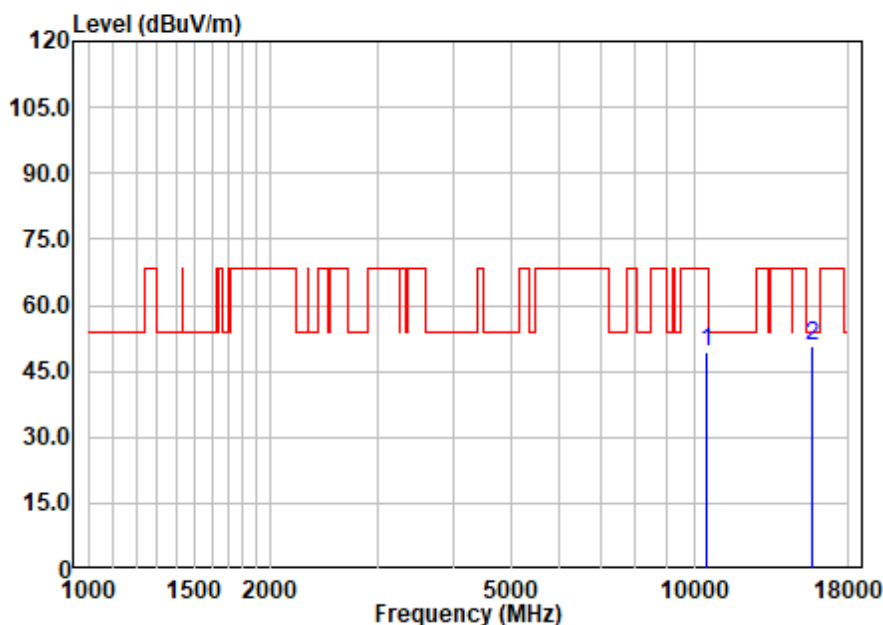
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	41.90	49.36	68.30	-18.94	Peak
2 15720.000	14.81	40.29	35.64	50.66	54.00	-3.34	Peak



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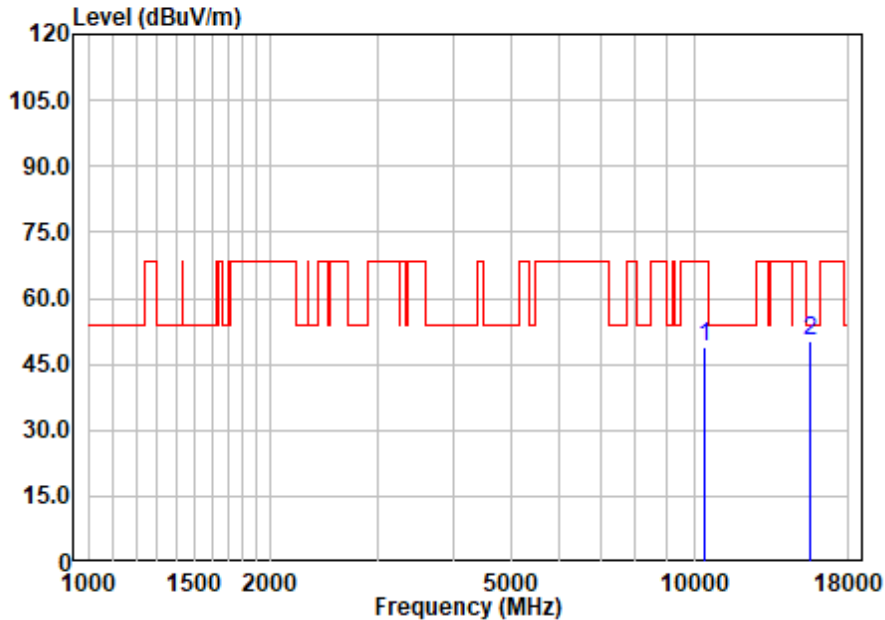
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10380.000	12.58	37.60	42.00	49.07	68.30	-19.23	Peak
2 15570.000	14.80	40.23	36.42	50.16	54.00	-3.84	Peak



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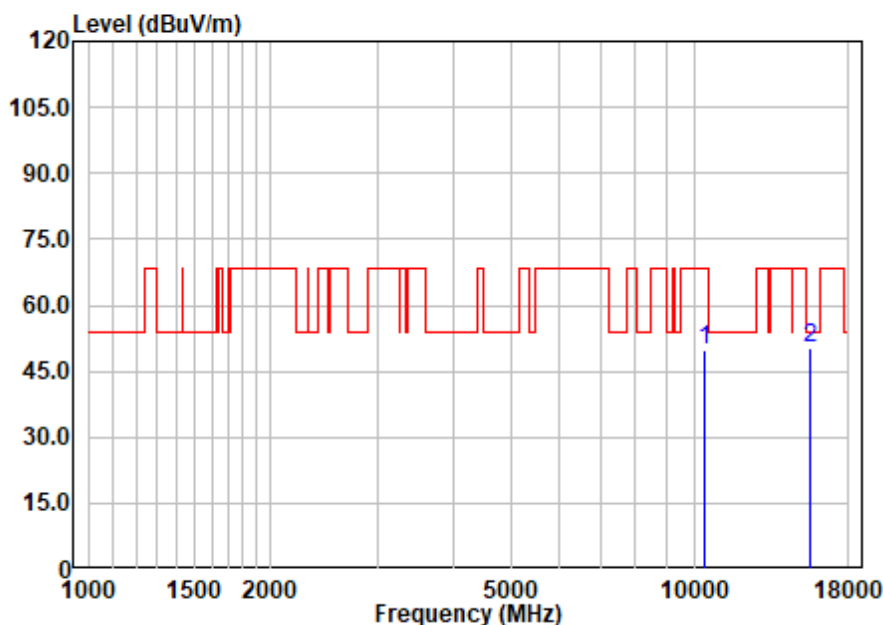
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10380.000	12.58	37.60	42.84	49.91	68.30	-18.39	Peak
2 15570.000	14.80	40.23	36.47	50.21	54.00	-3.79	Peak



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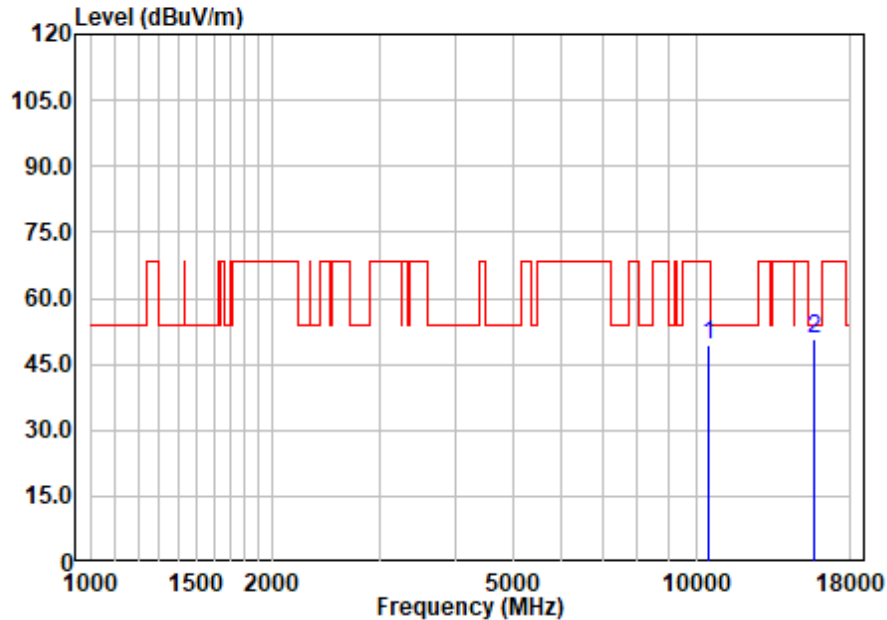
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10460.000	12.60	37.67	42.07	49.43	68.30	-18.87	Peak
2 15690.000	14.81	40.28	35.89	50.52	54.00	-3.48	Peak



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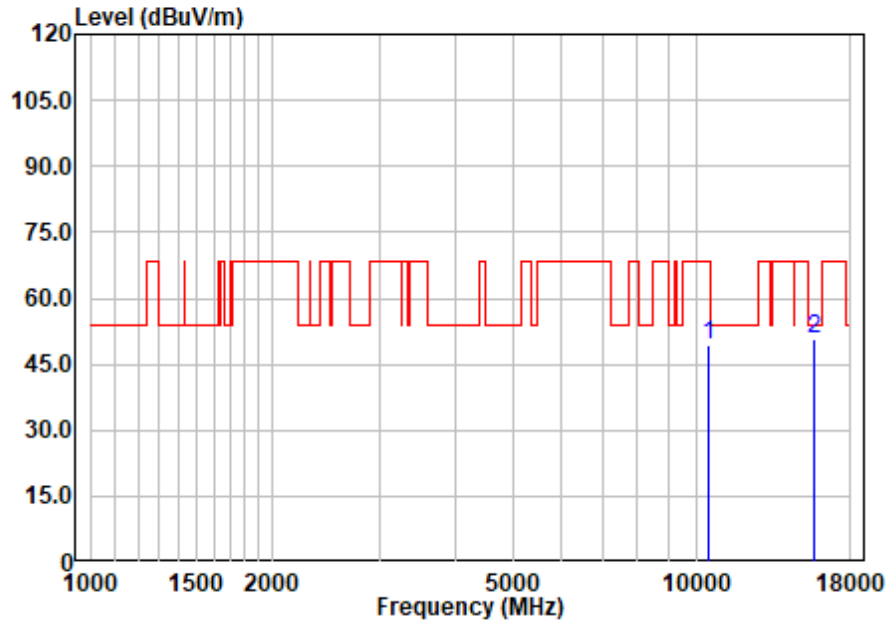
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10460.000	12.60	37.67	42.06	49.42	68.30	-18.88	Peak
2 15690.000	14.81	40.28	36.10	50.73	54.00	-3.27	Peak



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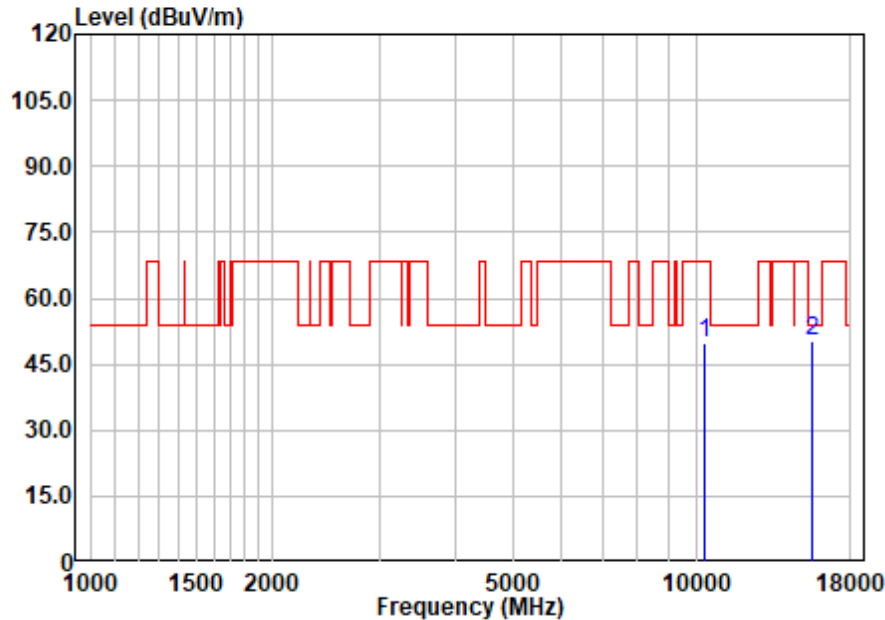
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	42.56	49.65	68.30	-18.65	Peak
2 15540.000	14.80	40.22	36.34	50.22	54.00	-3.78	Peak



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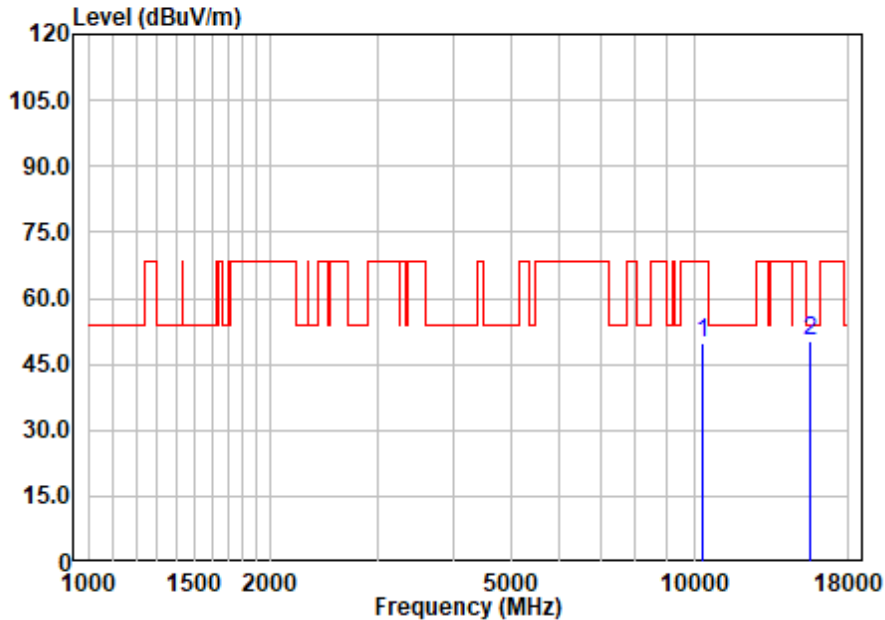
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10360.000	12.58	37.58	42.55	49.64	68.30	-18.66	Peak
2 15540.000	14.80	40.22	36.55	50.43	54.00	-3.57	Peak



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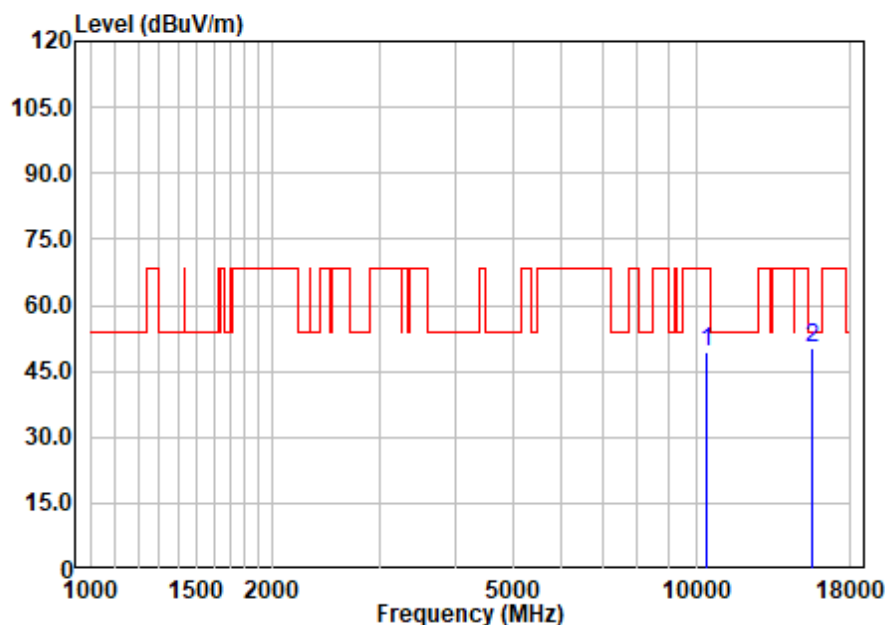
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.18	49.23	68.30	-19.07	Peak
2 15600.000	14.80	40.24	36.87	50.48	54.00	-3.52	Peak



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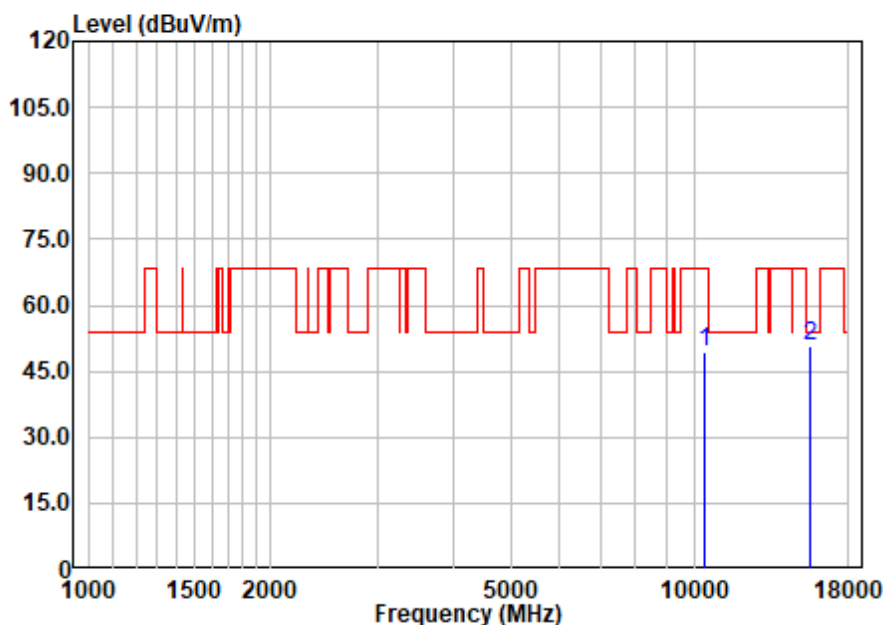
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10400.000	12.58	37.62	42.43	49.48	68.30	-18.82	Peak
2 15600.000	14.80	40.24	37.29	50.90	54.00	-3.10	Peak



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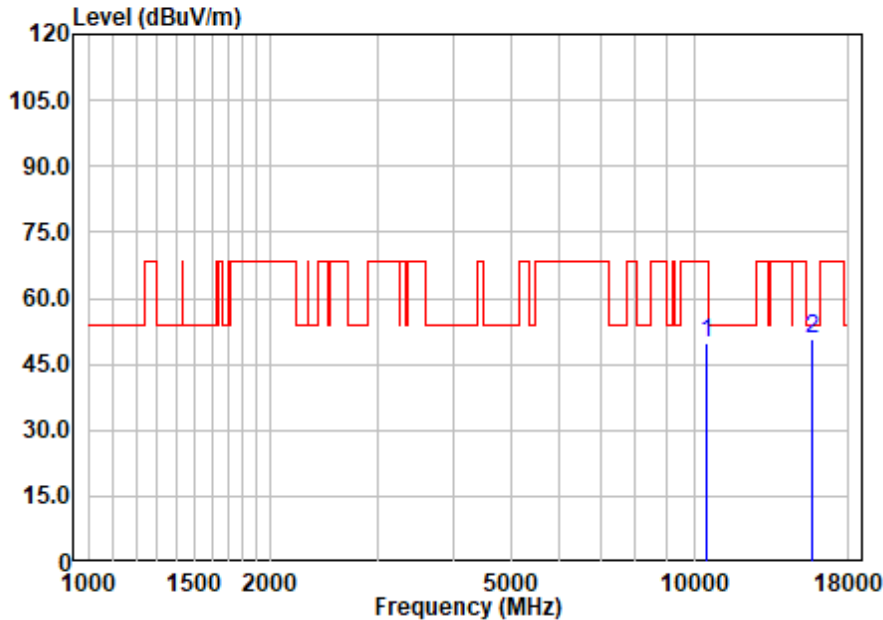
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	42.34	49.80	68.30	-18.50	Peak
2 15720.000	14.81	40.29	35.69	50.71	54.00	-3.29	Peak



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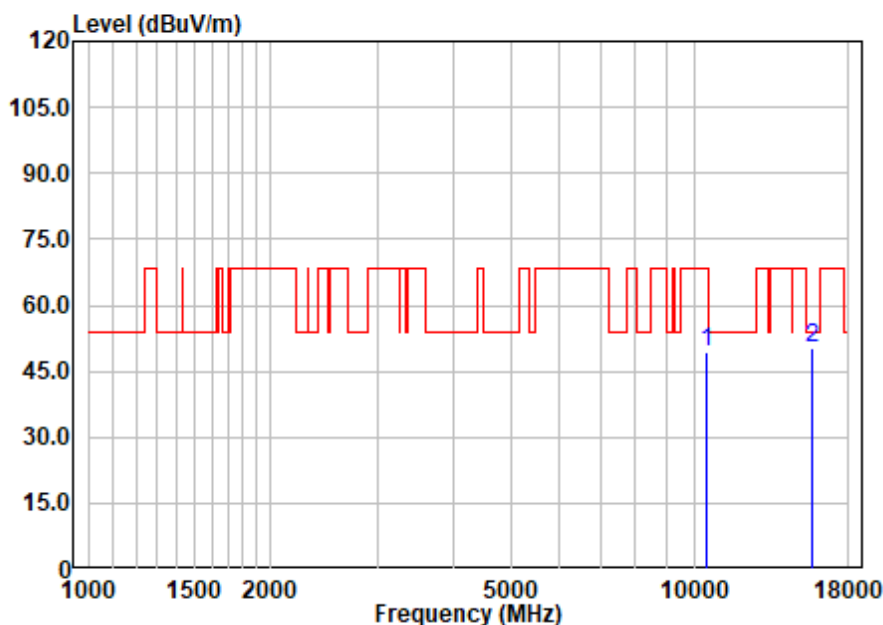
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10480.000	12.60	37.69	41.74	49.20	68.30	-19.10	Peak
2 15720.000	14.81	40.29	35.07	50.09	54.00	-3.91	Peak



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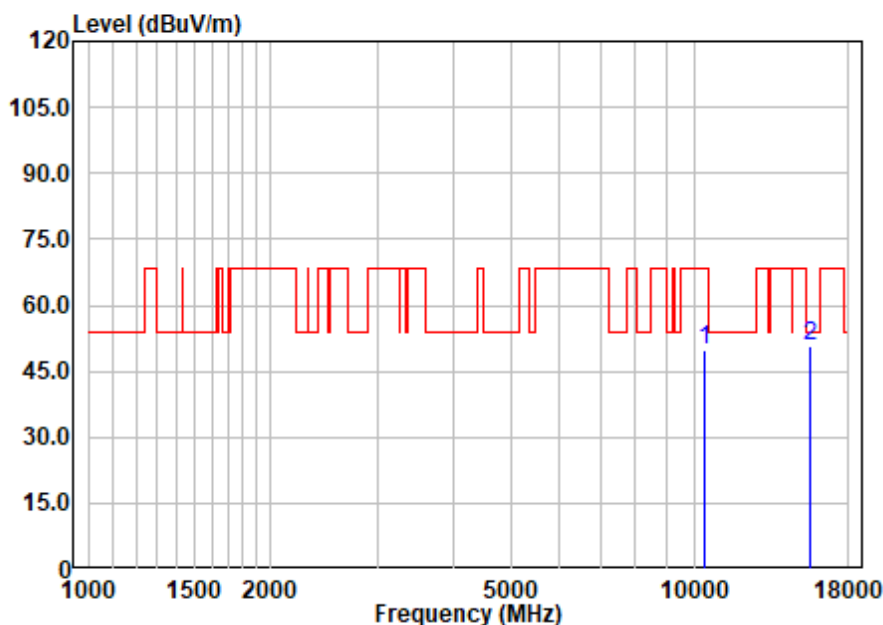
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10380.000	12.58	37.60	42.73	49.80	68.30	-18.50	Peak
2 15570.000	14.80	40.23	36.88	50.62	54.00	-3.38	Peak



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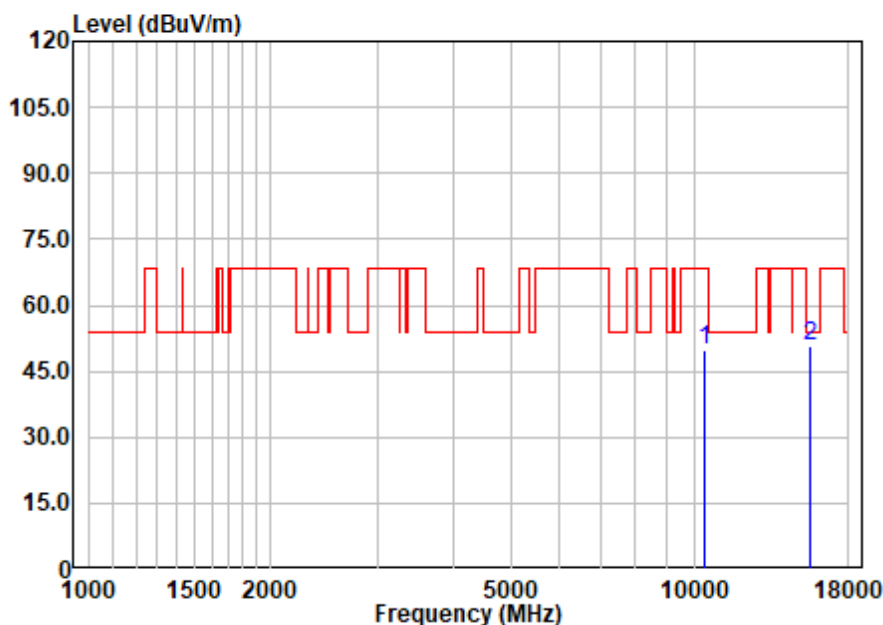
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10380.000	12.58	37.60	42.82	49.89	68.30	-18.41	Peak
2 15570.000	14.80	40.23	36.82	50.56	54.00	-3.44	Peak



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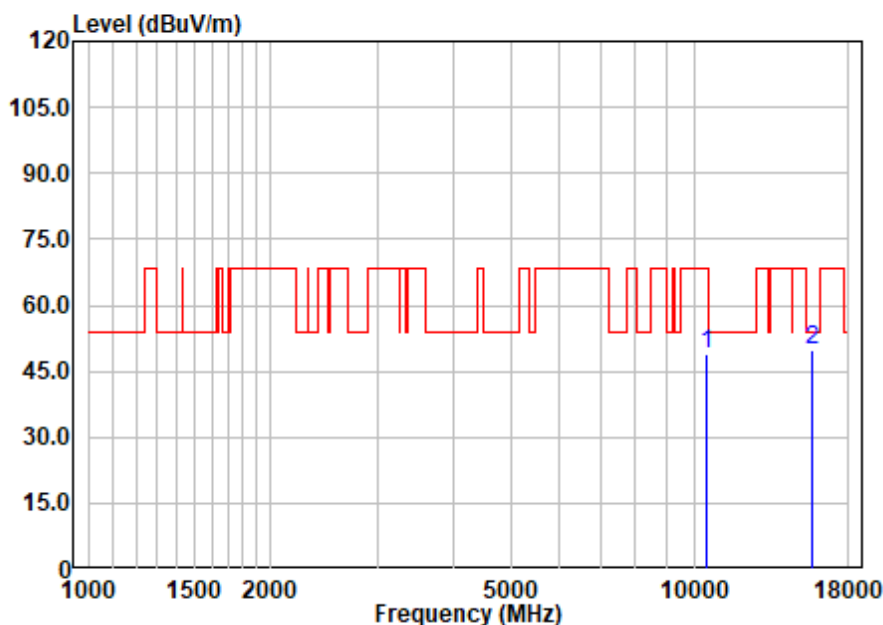
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10460.000	12.60	37.67	41.73	49.09	68.30	-19.21	Peak
2 15690.000	14.81	40.28	35.38	50.01	54.00	-3.99	Peak



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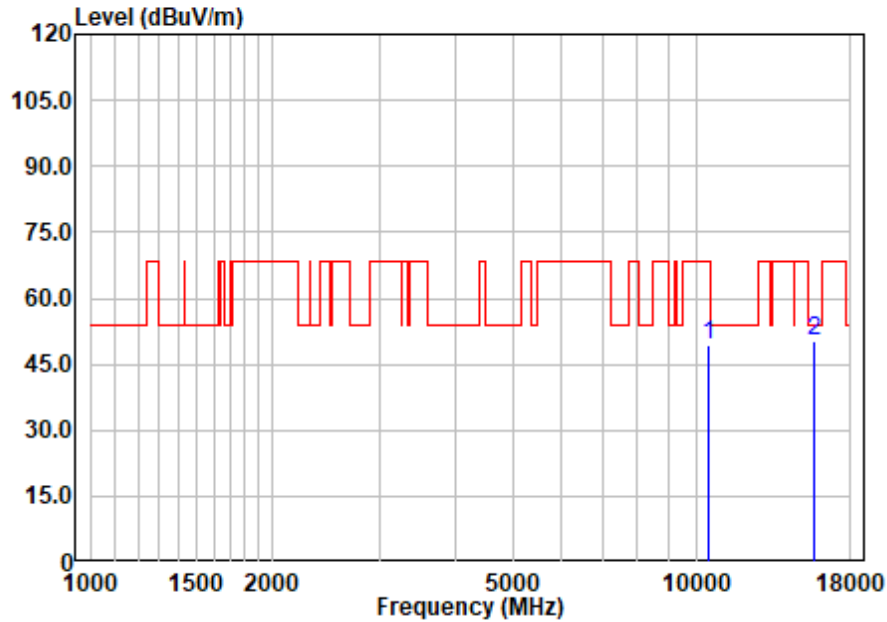
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10460.000	12.60	37.67	41.83	49.19	68.30	-19.11	Peak
2 15690.000	14.81	40.28	35.76	50.39	54.00	-3.61	Peak



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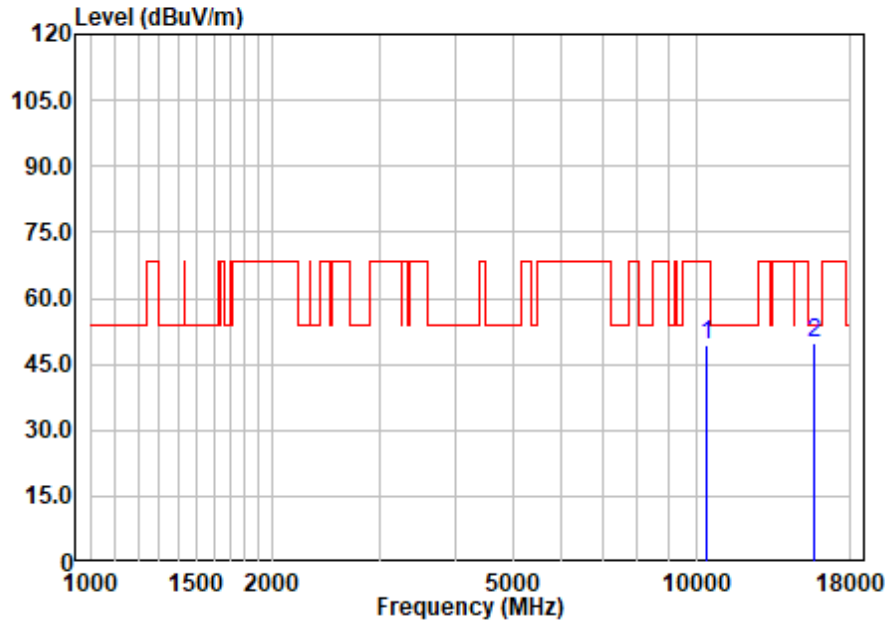
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Test Mode: 01; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10420.000	12.59	37.64	42.41	49.57	68.30	-18.73	Peak
2 15630.000	14.80	40.25	36.09	50.03	54.00	-3.97	Peak



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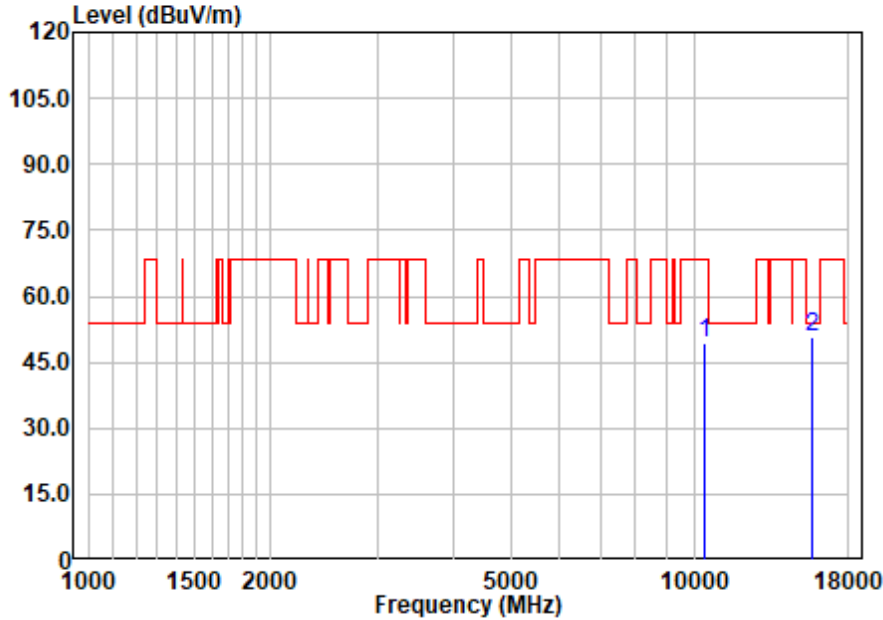
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 10420.000	12.59	37.64	42.40	49.56	68.30	-18.74	Peak
2 15630.000	14.80	40.25	36.88	50.82	54.00	-3.18	Peak



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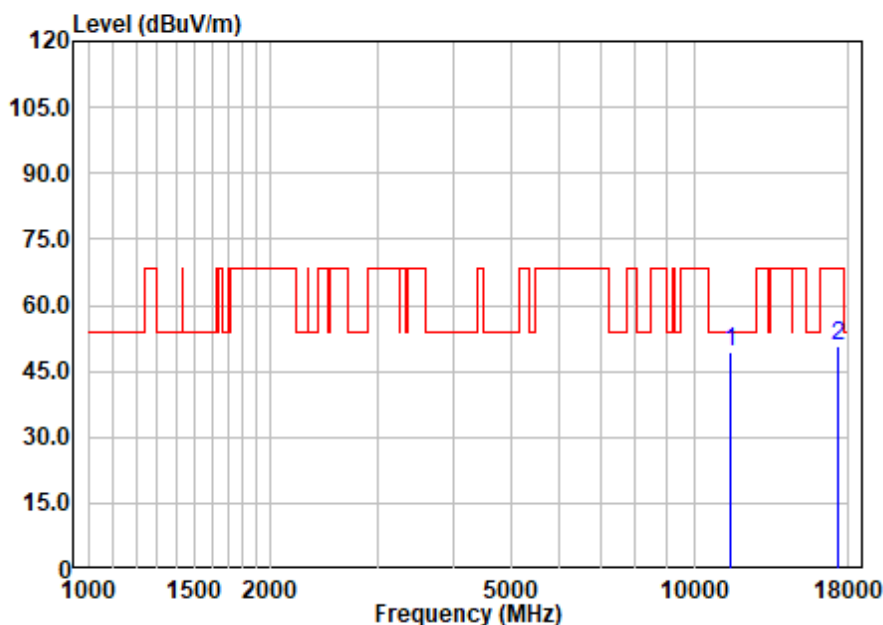
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	39.88	49.45	54.00	-4.55	Peak
2 17235.000	16.12	40.88	31.06	50.52	68.30	-17.78	Peak



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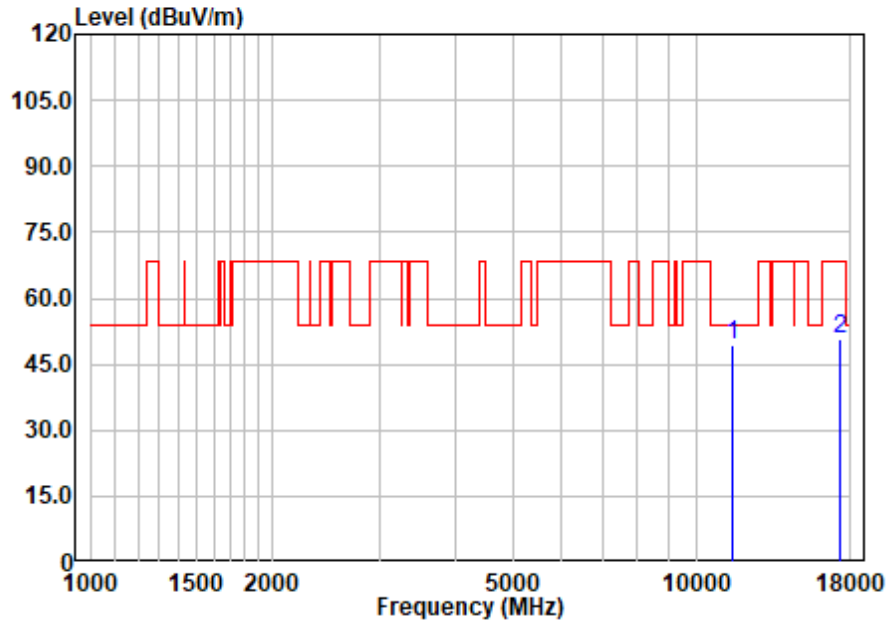
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	39.97	49.54	54.00	-4.46	Peak
2 17235.000	16.12	40.88	31.30	50.76	68.30	-17.54	Peak



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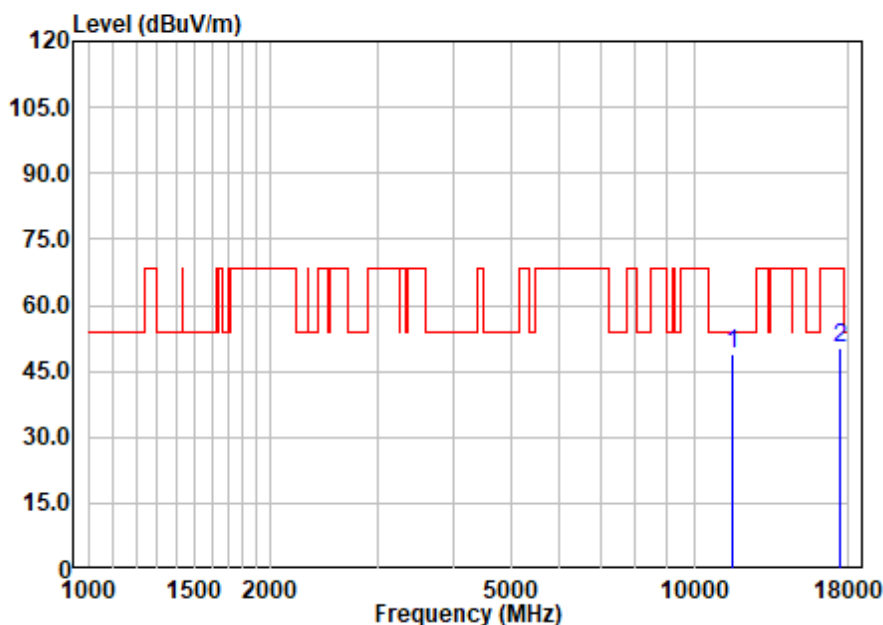
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	39.42	49.02	54.00	-4.98	Peak
2 17355.000	16.24	40.93	32.01	50.26	68.30	-18.04	Peak



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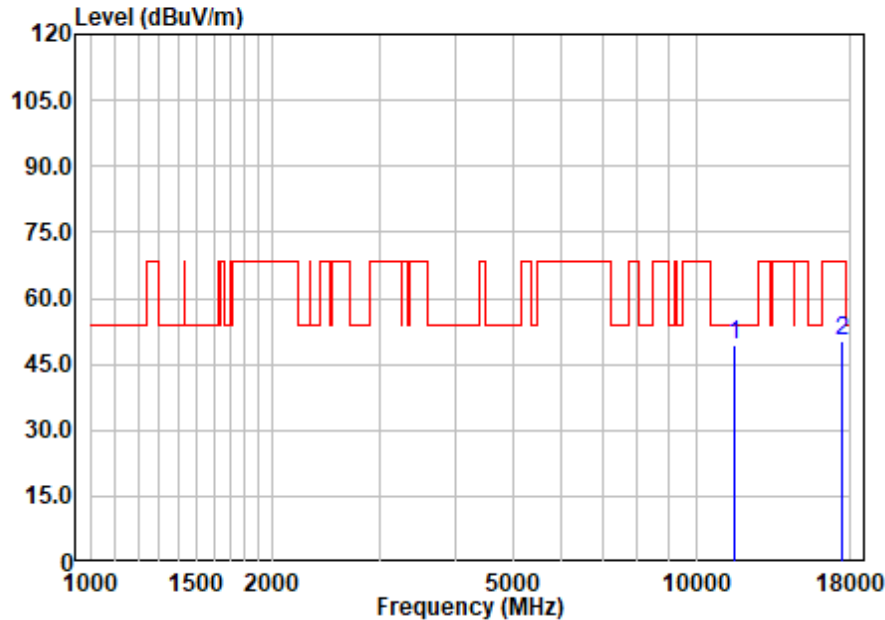
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	39.79	49.39	54.00	-4.61	Peak
2 17355.000	16.24	40.93	31.94	50.19	68.30	-18.11	Peak



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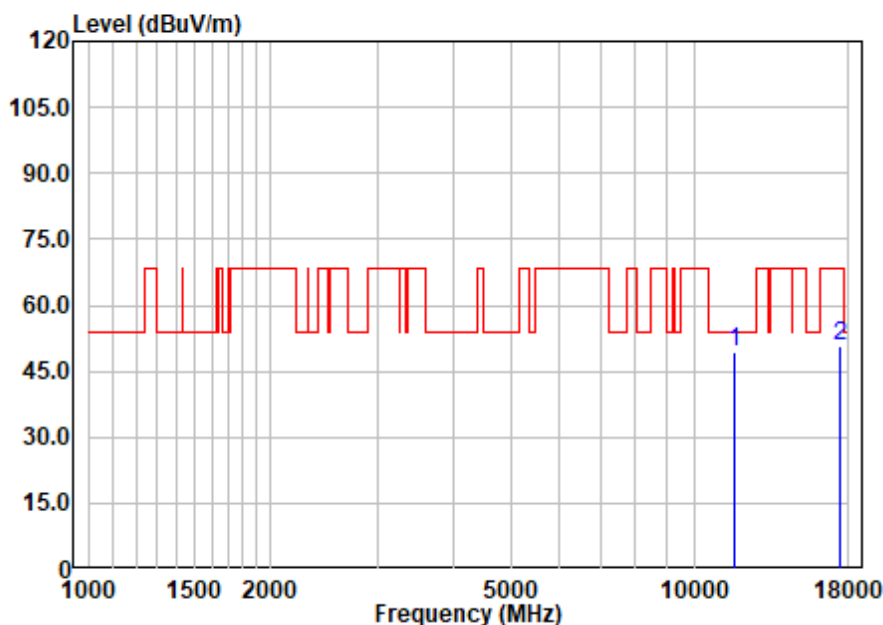
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.98	49.56	54.00	-4.44	Peak
2 17475.000	16.33	40.97	33.16	50.57	68.30	-17.73	Peak



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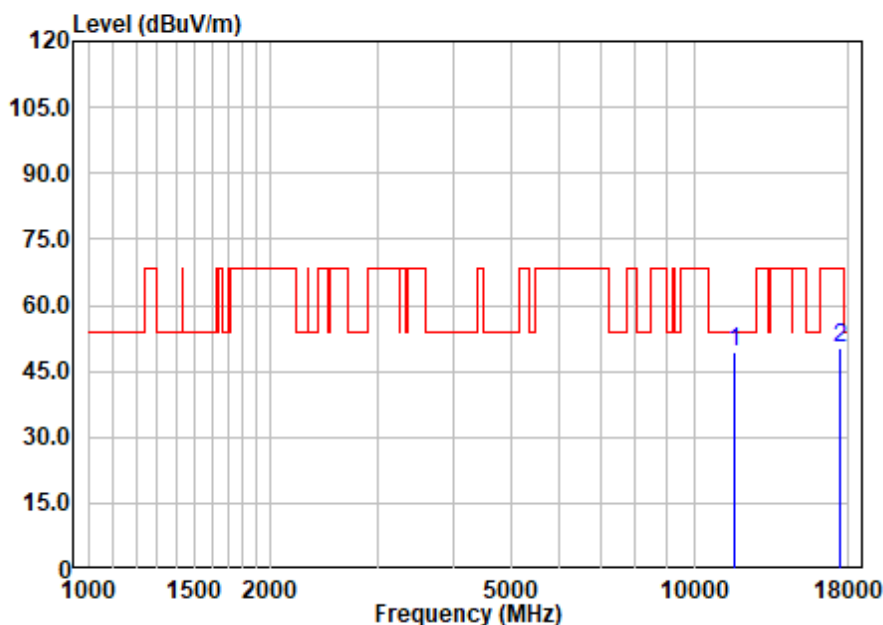
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.81	49.39	54.00	-4.61	Peak
2 17475.000	16.33	40.97	32.86	50.27	68.30	-18.03	Peak



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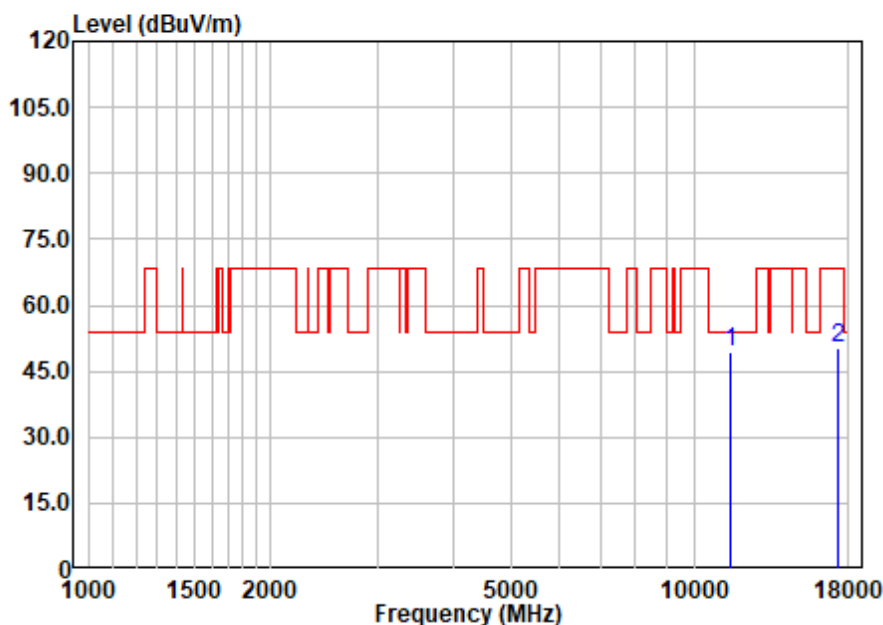
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	39.62	49.19	54.00	-4.81	Peak
2 17235.000	16.12	40.88	30.94	50.40	68.30	-17.90	Peak



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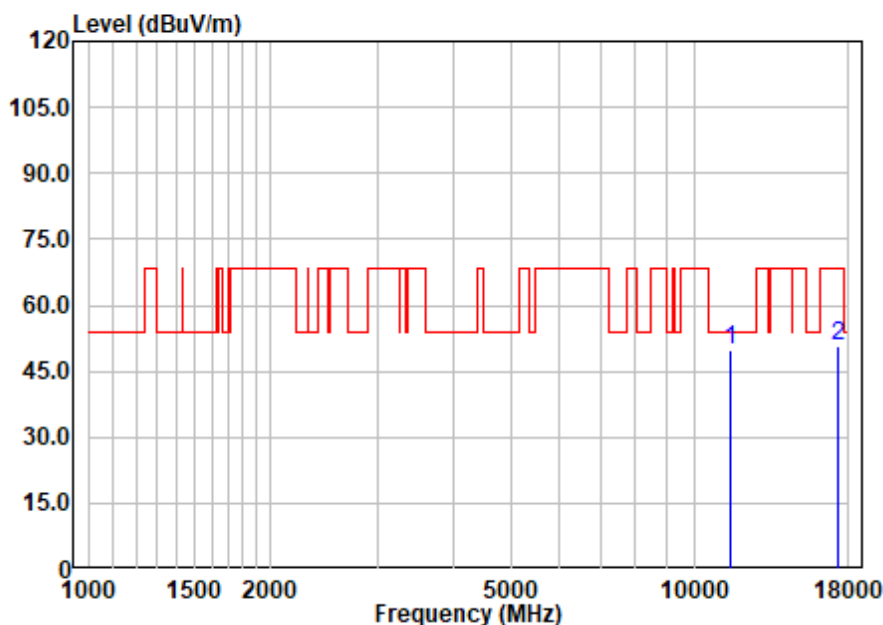
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	40.35	49.92	54.00	-4.08	Peak
2 17235.000	16.12	40.88	31.09	50.55	68.30	-17.75	Peak



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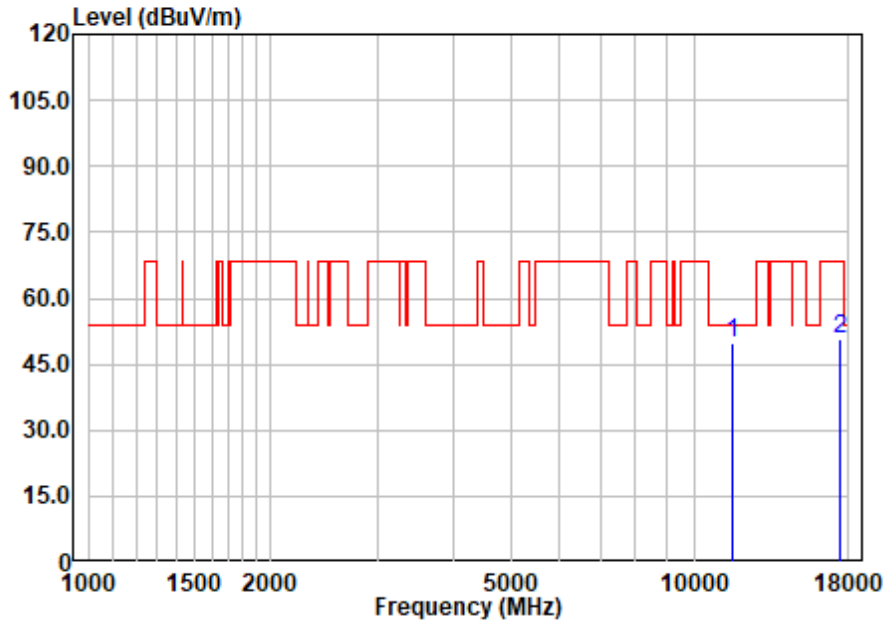
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	40.21	49.81	54.00	-4.19	Peak
2 17355.000	16.24	40.93	32.29	50.54	68.30	-17.76	Peak



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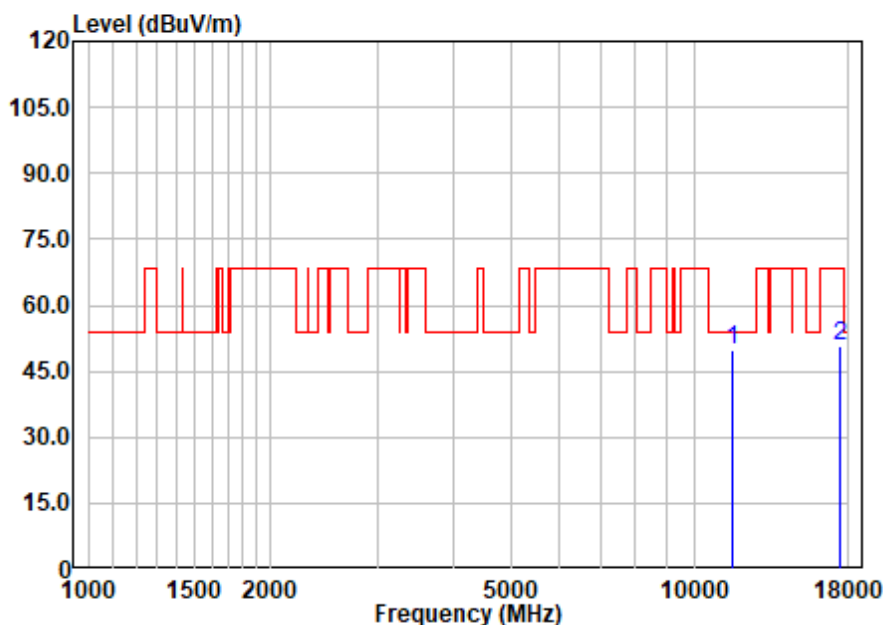
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	40.27	49.87	54.00	-4.13	Peak
2 17355.000	16.24	40.93	32.66	50.91	68.30	-17.39	Peak



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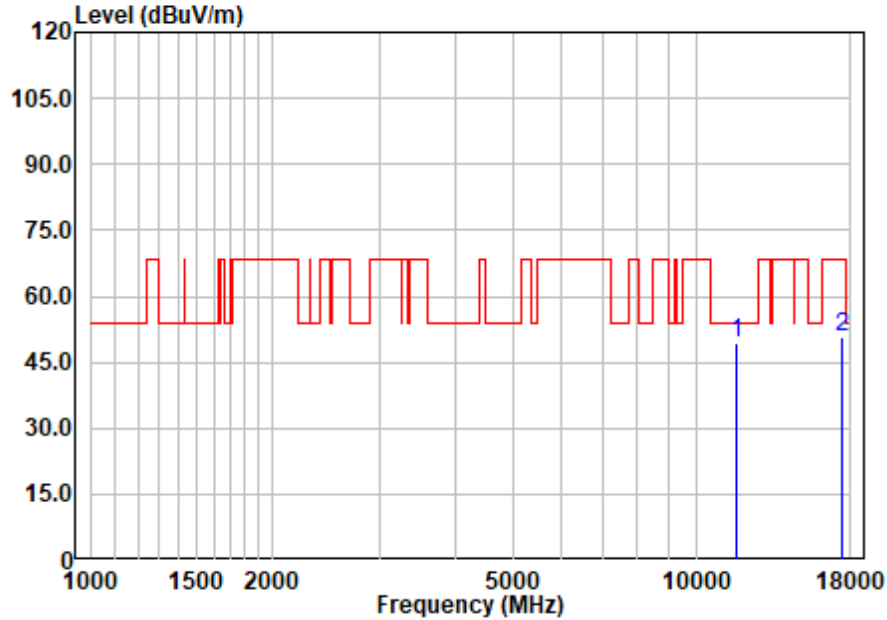
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.92	49.50	54.00	-4.50	Peak
2 17475.000	16.33	40.97	33.30	50.71	68.30	-17.59	Peak



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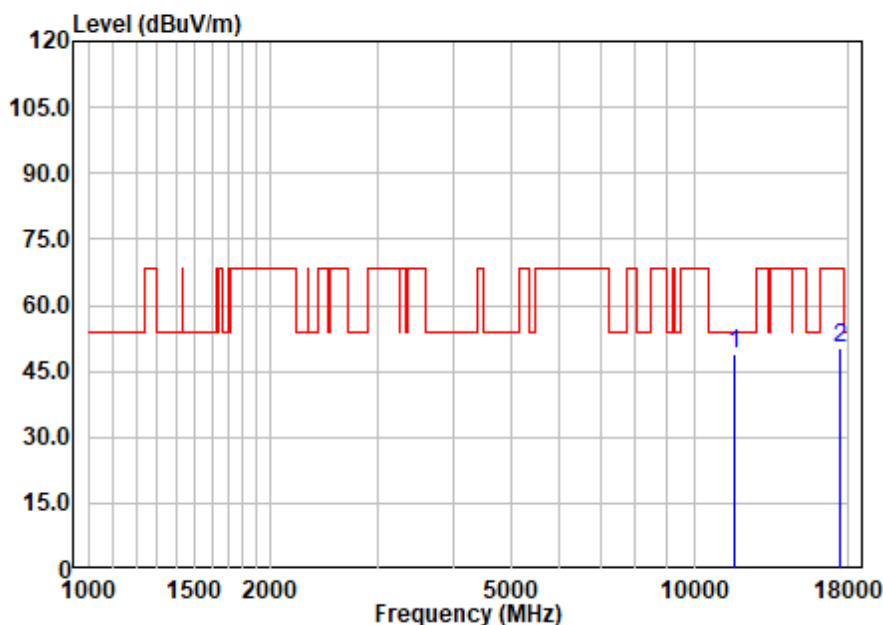
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.49	49.07	54.00	-4.93	Peak
2 17475.000	16.33	40.97	32.67	50.08	68.30	-18.22	Peak



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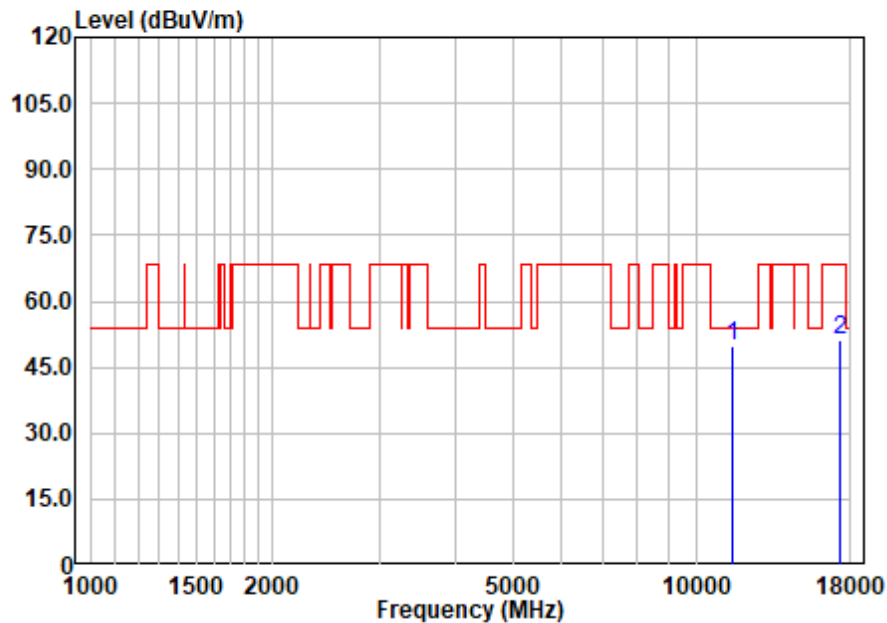
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11510.000	13.09	38.66	40.16	49.76	54.00	-4.24	Peak
2 17265.000	16.15	40.90	31.68	51.00	68.30	-17.30	Peak



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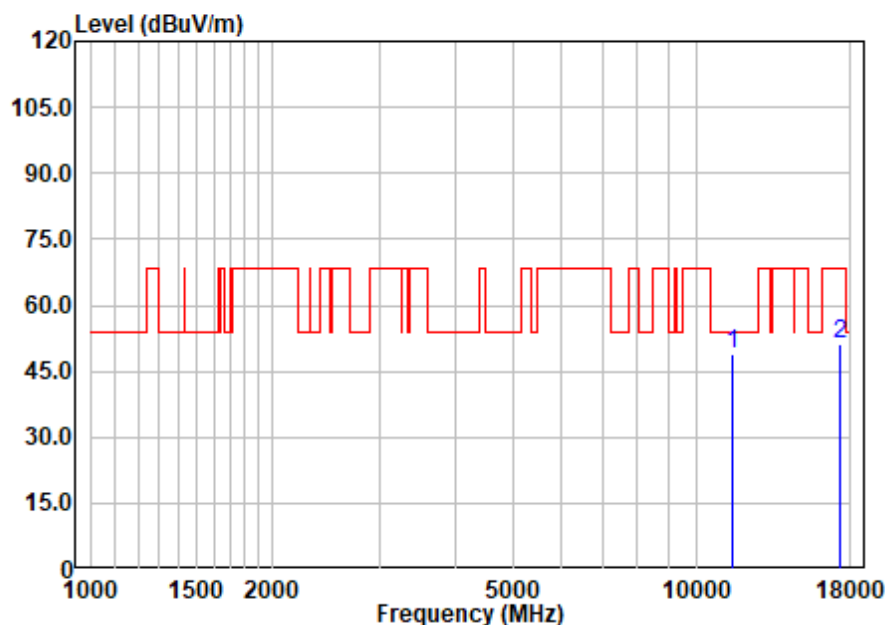
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11510.000	13.09	38.66	39.49	49.09	54.00	-4.91	Peak
2 17265.000	16.15	40.90	31.65	50.97	68.30	-17.33	Peak



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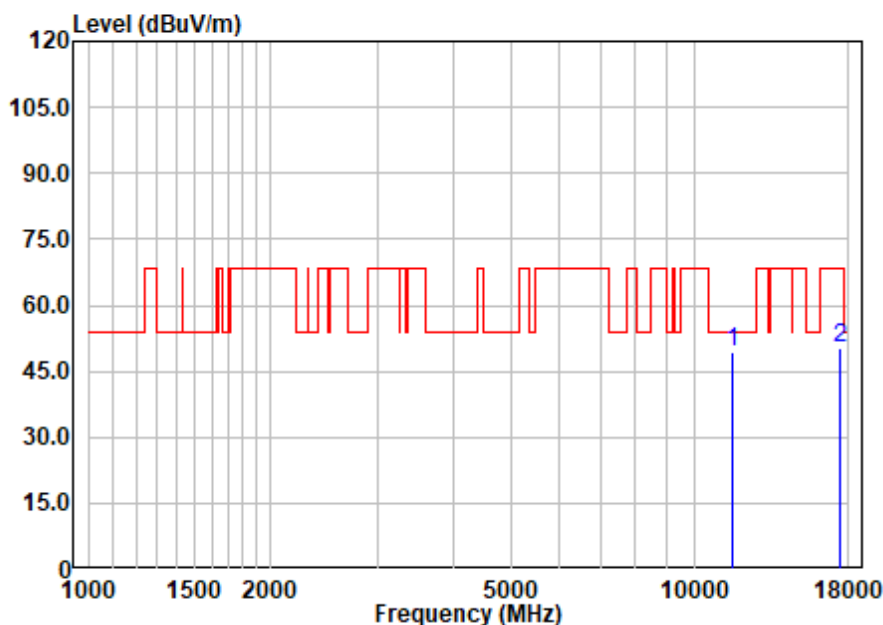
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	13.14	38.74	39.72	49.32	54.00	-4.68	Peak
2 17385.000	16.27	40.94	32.39	50.16	68.30	-18.14	Peak



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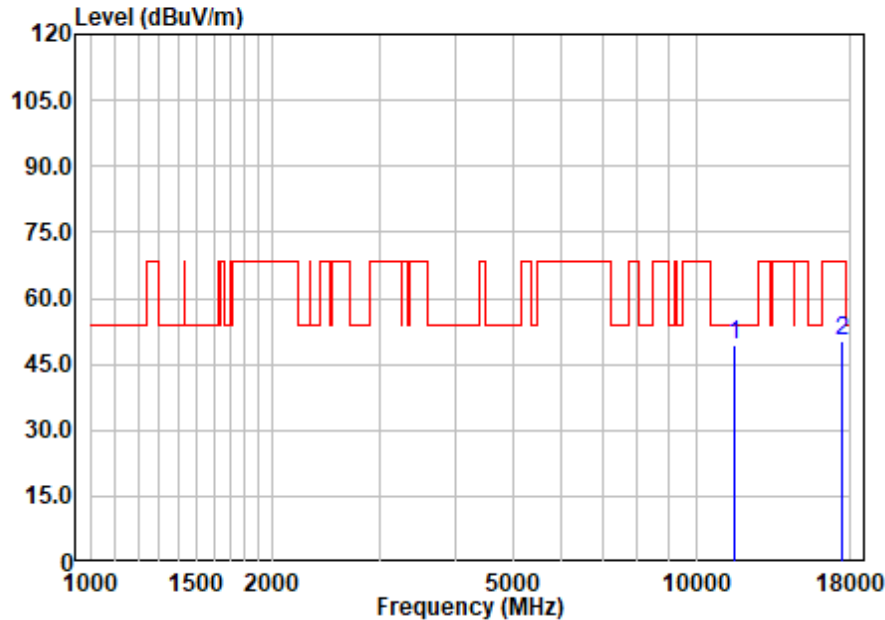
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	13.14	38.74	39.76	49.36	54.00	-4.64	Peak
2 17385.000	16.27	40.94	32.51	50.28	68.30	-18.02	Peak



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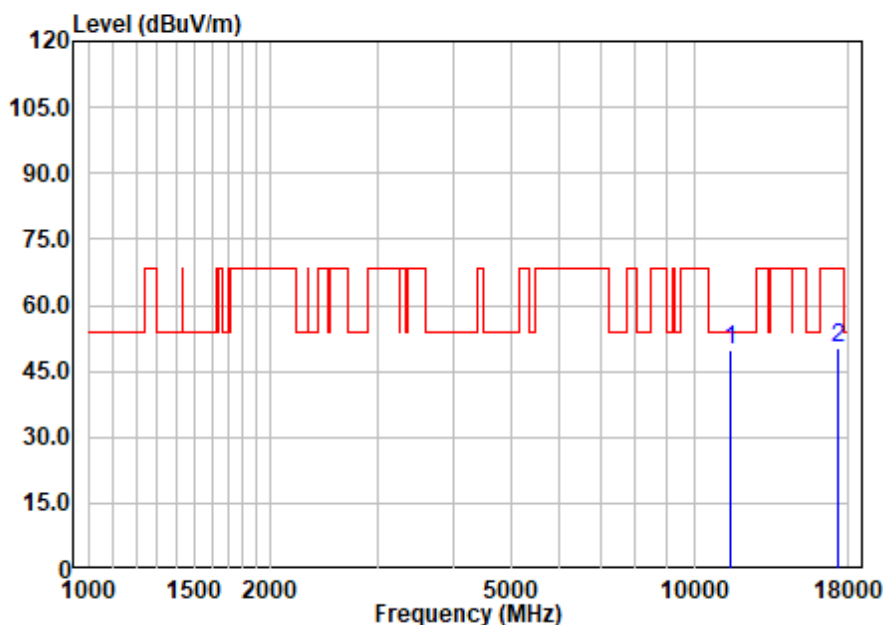
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	40.06	49.63	54.00	-4.37	Peak
2 17235.000	16.12	40.88	30.63	50.09	68.30	-18.21	Peak



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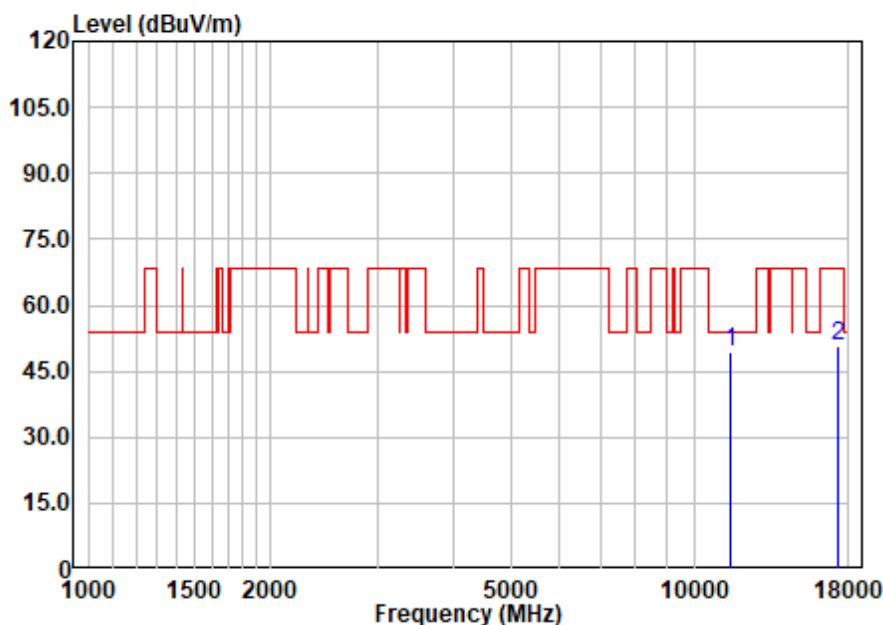
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11490.000	13.08	38.65	39.67	49.24	54.00	-4.76	Peak
2 17235.000	16.12	40.88	31.45	50.91	68.30	-17.39	Peak



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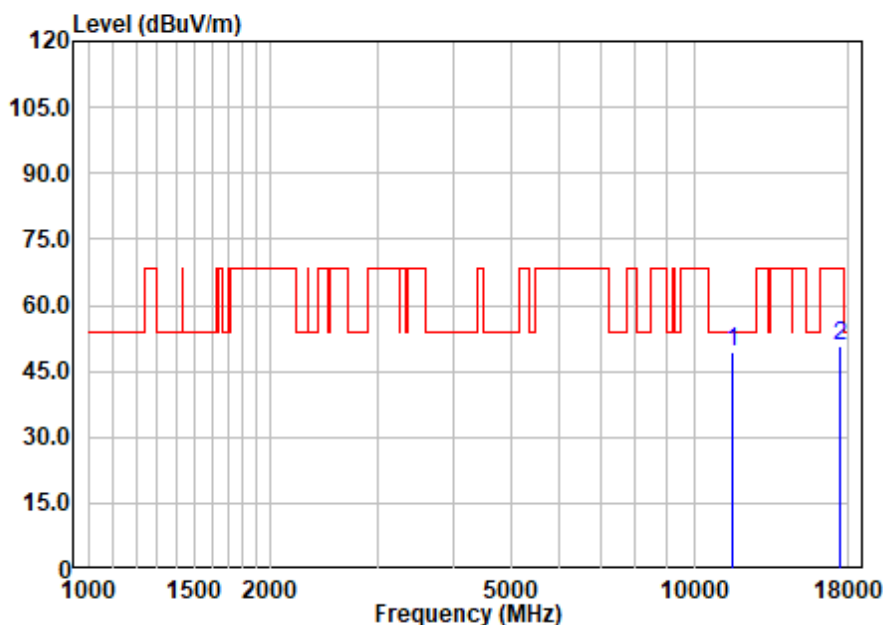
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	39.74	49.34	54.00	-4.66	Peak
2 17355.000	16.24	40.93	32.42	50.67	68.30	-17.63	Peak



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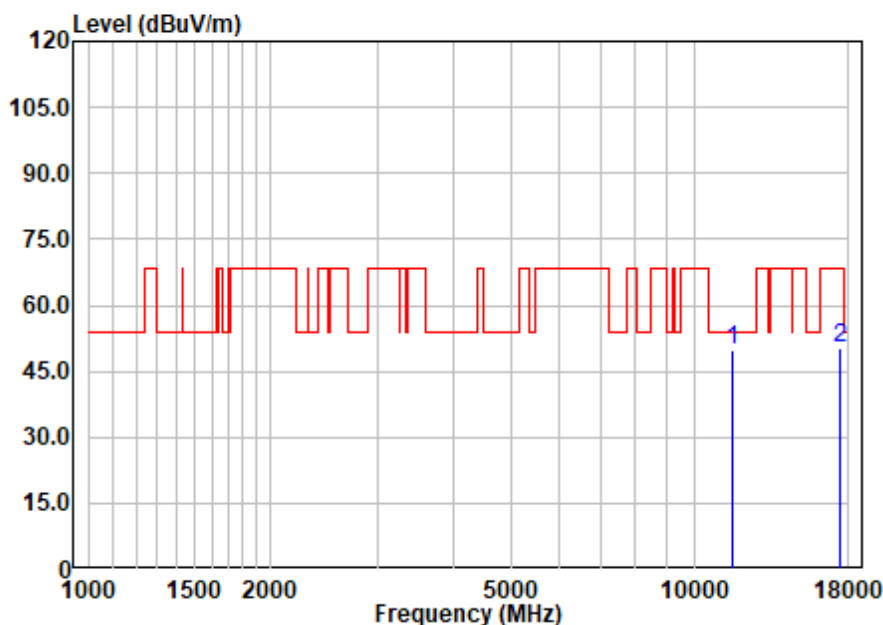
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	13.13	38.72	40.30	49.90	54.00	-4.10	Peak
2 17355.000	16.24	40.93	32.05	50.30	68.30	-18.00	Peak



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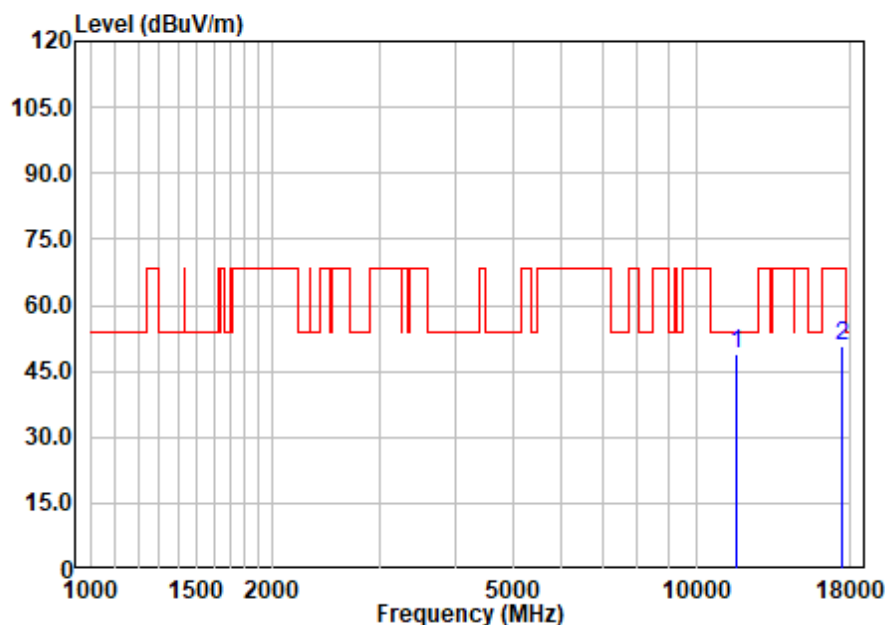
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.44	49.02	54.00	-4.98	Peak
2 17475.000	16.33	40.97	33.47	50.88	68.30	-17.42	Peak



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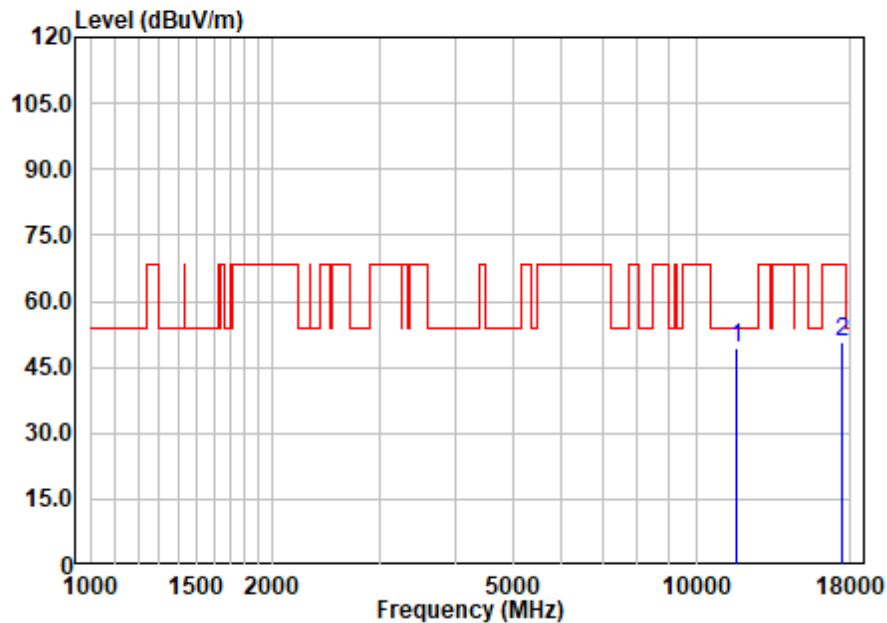
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11650.000	13.18	38.80	39.93	49.51	54.00	-4.49	Peak
2 17475.000	16.33	40.97	33.26	50.67	68.30	-17.63	Peak



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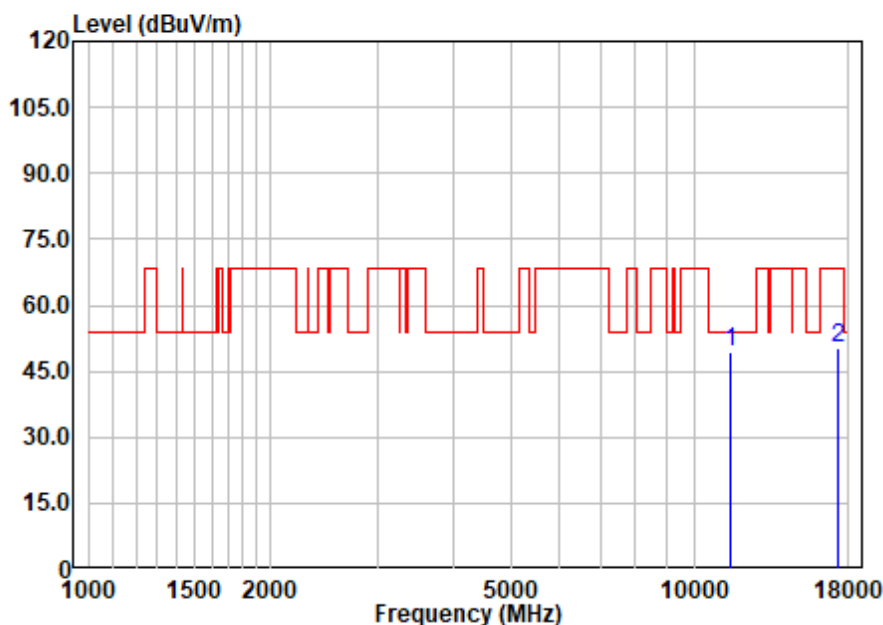
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11510.000	13.09	38.66	39.66	49.26	54.00	-4.74	Peak
2 17265.000	16.15	40.90	30.90	50.22	68.30	-18.08	Peak



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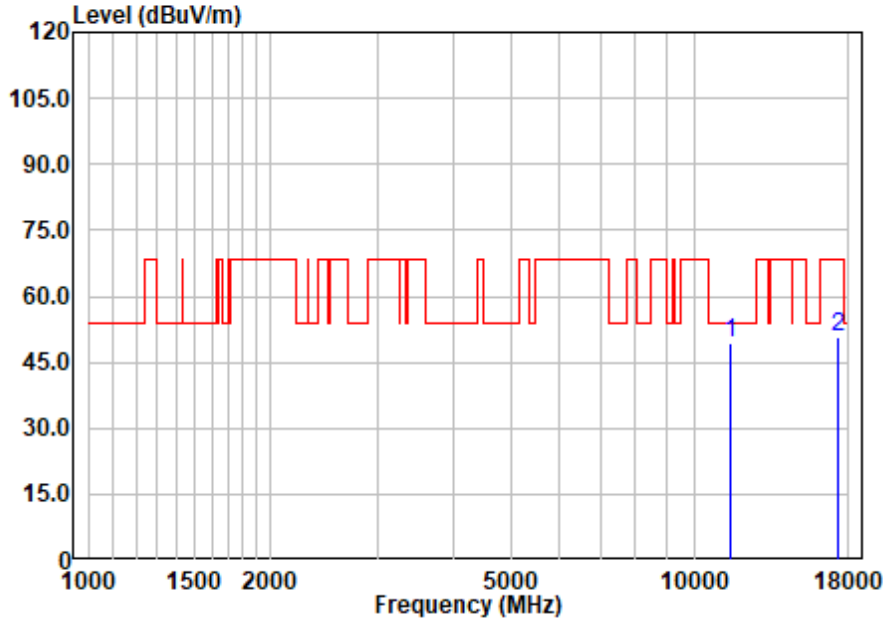
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11510.000	13.09	38.66	39.72	49.32	54.00	-4.68	Peak
2 17265.000	16.15	40.90	31.52	50.84	68.30	-17.46	Peak



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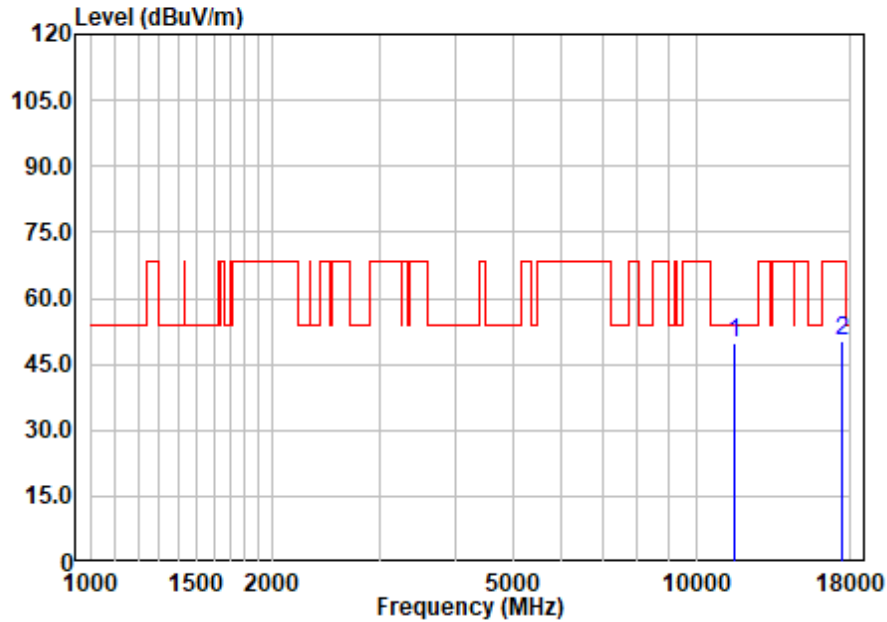
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	13.14	38.74	40.14	49.74	54.00	-4.26	Peak
2 17385.000	16.27	40.94	32.70	50.47	68.30	-17.83	Peak



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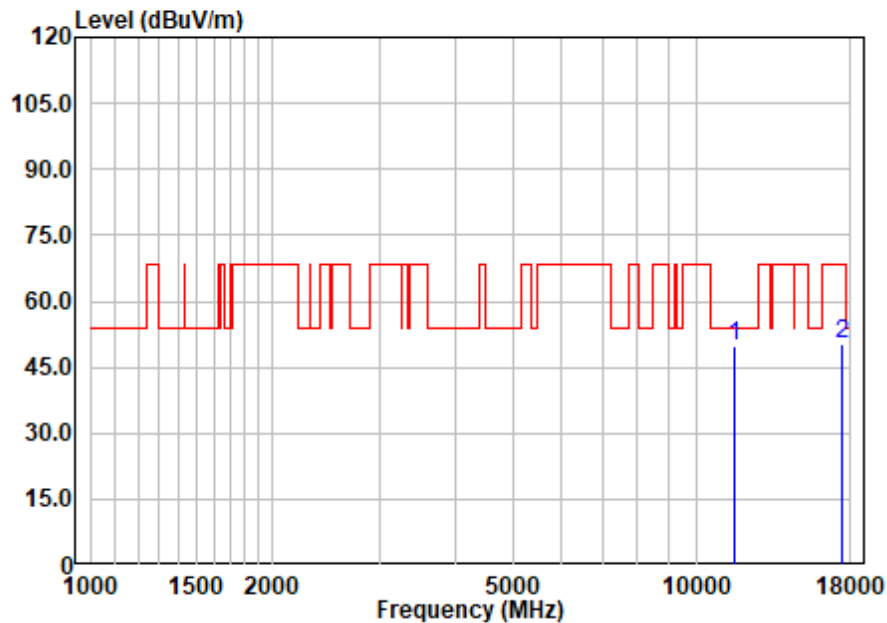
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11590.000	13.14	38.74	40.36	49.96	54.00	-4.04	Peak
2 17385.000	16.27	40.94	32.48	50.25	68.30	-18.05	Peak



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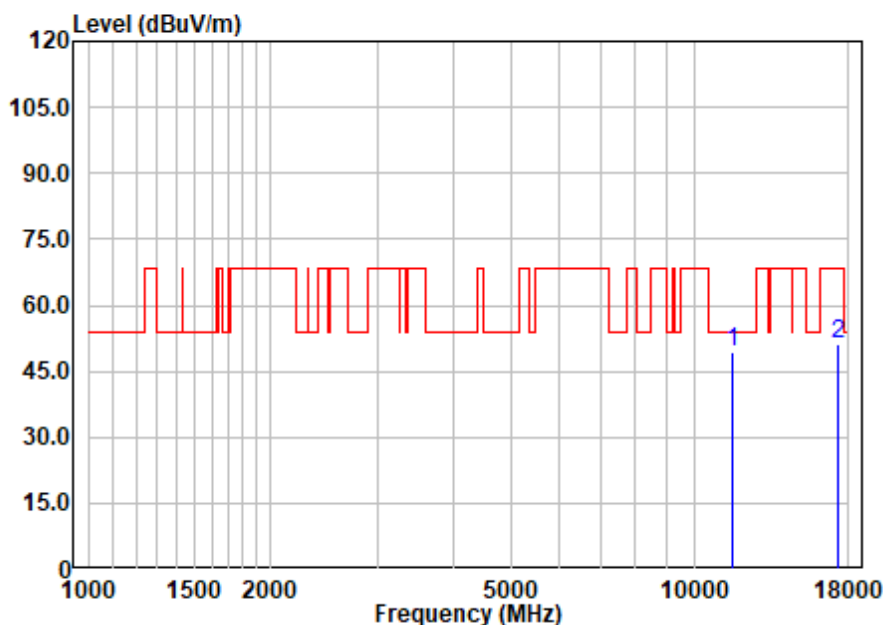
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11550.000	13.12	38.70	39.88	49.48	54.00	-4.52	Peak
2 17325.000	16.21	40.92	32.23	50.96	68.30	-17.34	Peak



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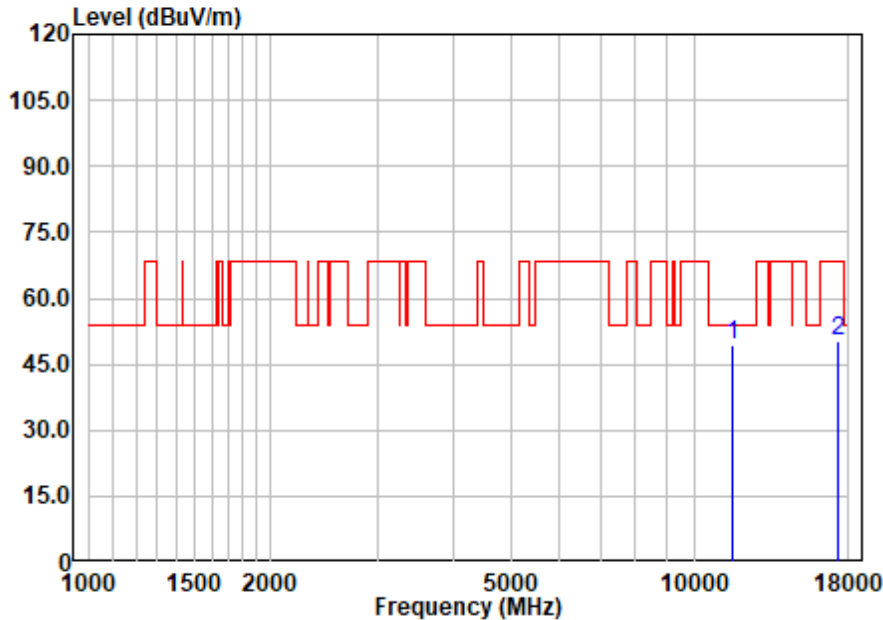
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Test Mode: 02; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11550.000	13.12	38.70	39.85	49.45	54.00	-4.55	Peak
2 17325.000	16.21	40.92	31.47	50.20	68.30	-18.10	Peak



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7.9 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 55.9 % RH

Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

Pre-scan /	Mode	Description
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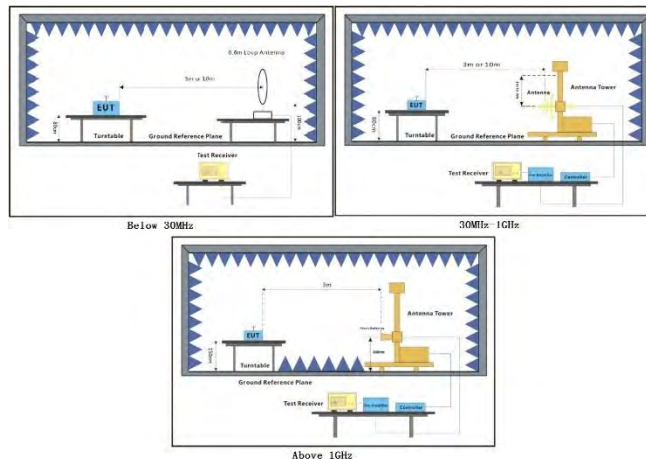
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Final test	Code	
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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 Test Setup Diagram



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7.9.4 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: We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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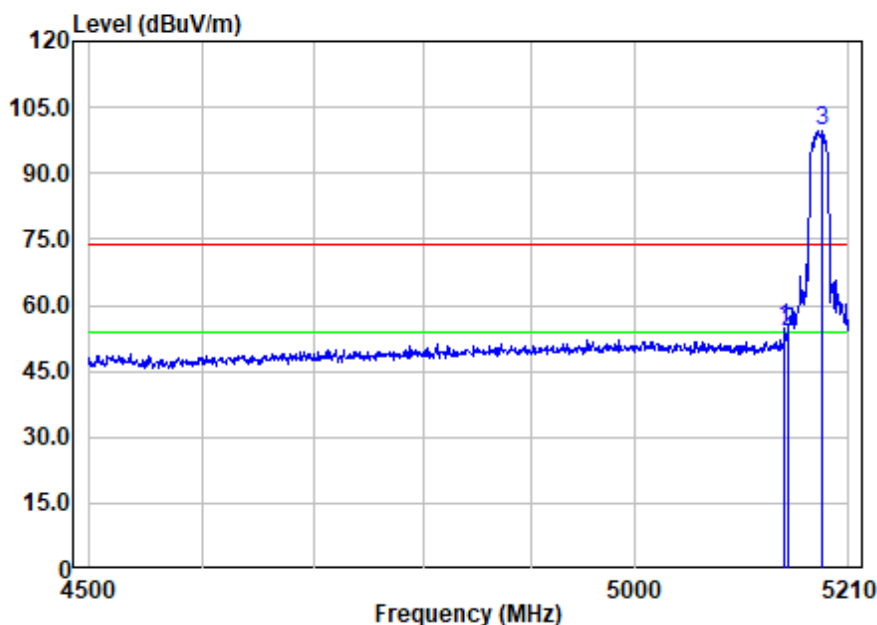
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Compliance Certification Services (Kunshan) Inc.

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



	Freq	Cable Loss	Ant Factor	Read Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dB	
1	5146.100	8.39	32.61	56.01	54.80	-19.20	Peak
2	5150.000	8.39	32.61	55.32	54.08	-19.92	Peak
3	5183.020	8.43	32.58	101.12	99.69	25.69	Peak



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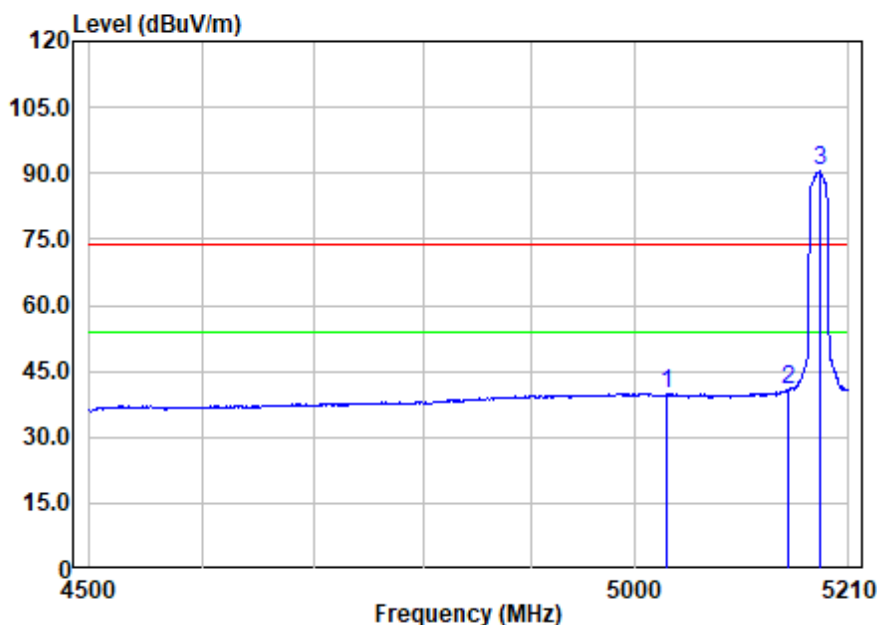
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5031.080	8.26	32.63	40.47	39.73	54.00	-14.27	Average
2 5150.000	8.39	32.61	41.96	40.72	54.00	-13.28	Average
3 5180.890	8.43	32.59	91.79	90.39	54.00	36.39	Average



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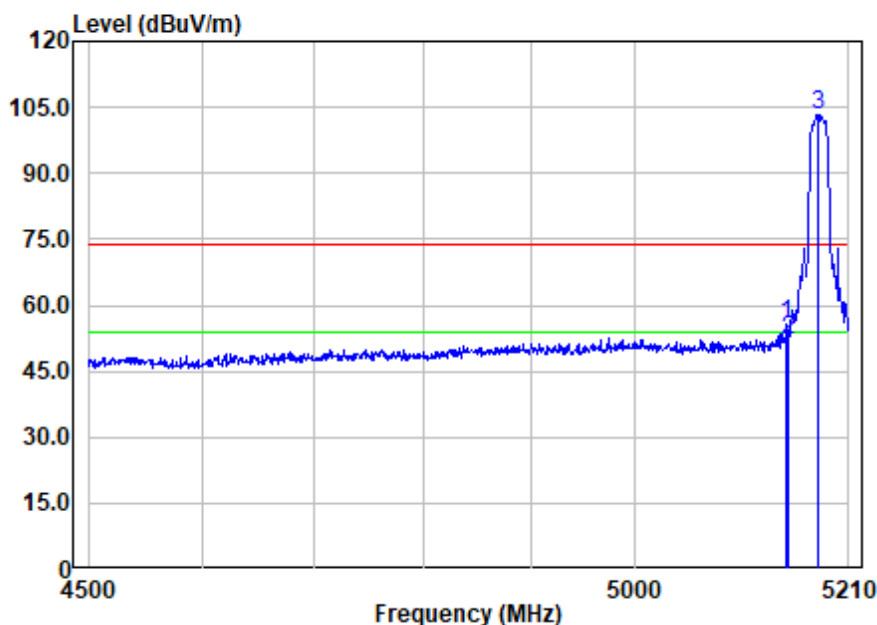
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5148.230	8.39	32.61	56.83	55.61	74.00	-18.39	Peak
2	5150.000	8.39	32.61	53.42	52.18	74.00	-21.82	Peak
3	5179.470	8.43	32.59	104.84	103.45	74.00	29.45	Peak



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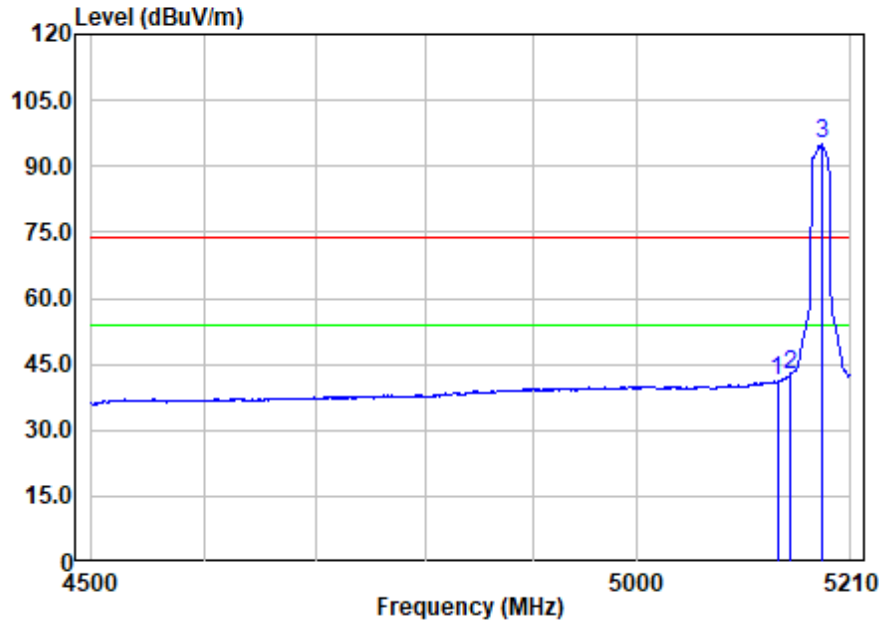
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Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5136.870	8.37	32.62	42.53	41.37	54.00	-12.63	Average
2 5150.000	8.39	32.61	44.01	42.77	54.00	-11.23	Average
3 5180.890	8.43	32.59	96.29	94.89	54.00	40.89	Average



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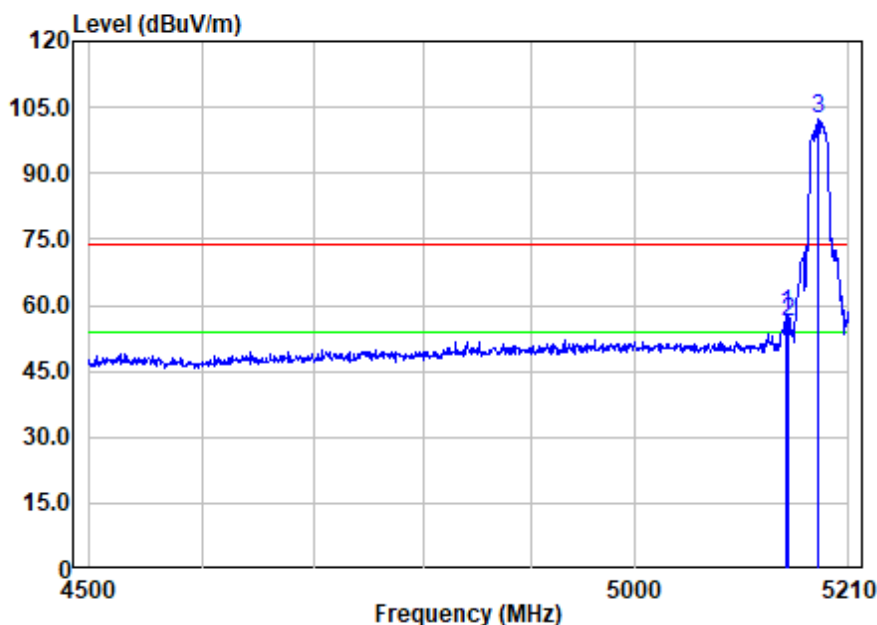
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5148.230	8.39	32.61	58.99	57.77	74.00	-16.23	Peak
2	5150.000	8.39	32.61	57.56	56.32	74.00	-17.68	Peak
3	5178.760	8.43	32.59	103.84	102.45	74.00	28.45	Peak



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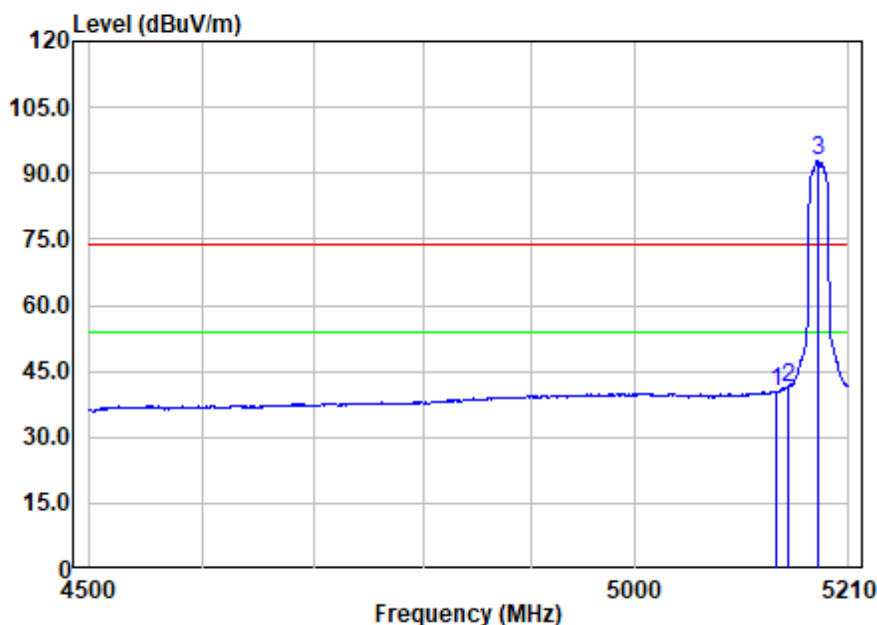
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5137.580	8.38	32.62	41.64	40.48	54.00	-13.52	Average
2	5150.000	8.39	32.61	42.59	41.35	54.00	-12.65	Average
3	5178.760	8.43	32.59	94.40	93.01	54.00	39.01	Average



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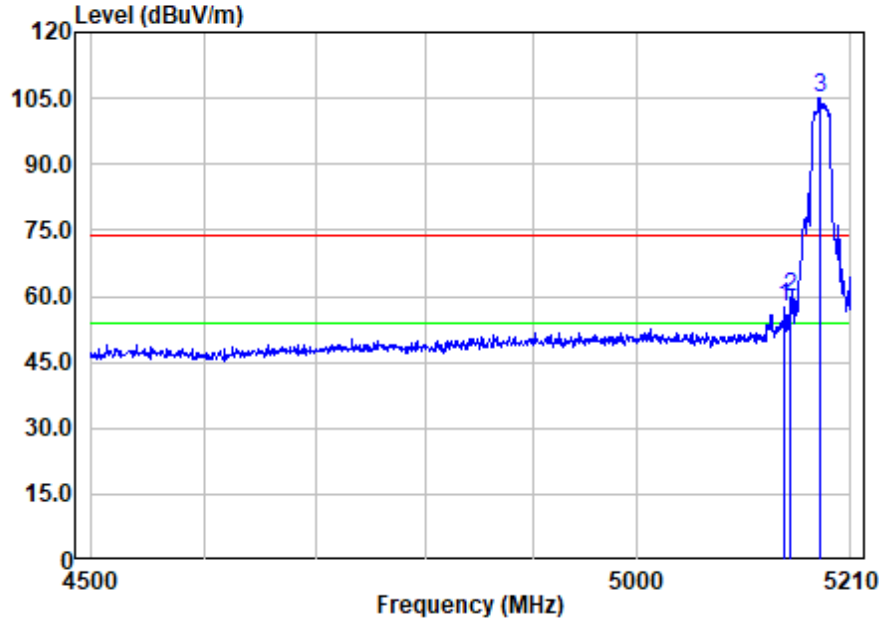
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5143.970	8.38	32.61	58.86	57.65	74.00	-16.35	Peak
2 5150.000	8.39	32.61	60.84	59.60	74.00	-14.40	Peak
3 5178.760	8.43	32.59	106.40	105.01	74.00	31.01	Peak



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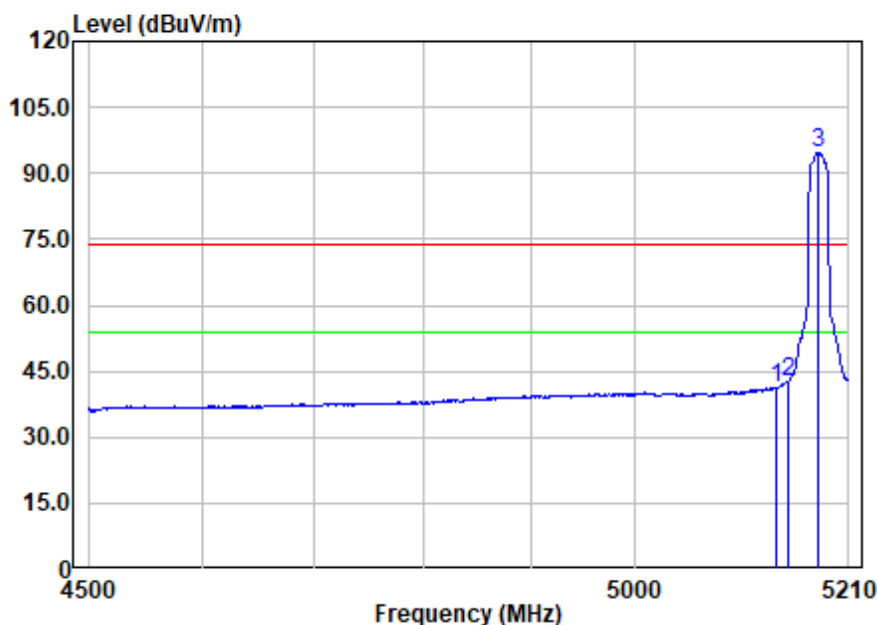
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5138.290	8.38	32.62	42.54	41.38	54.00	-12.62	Average
2 5150.000	8.39	32.61	43.94	42.70	54.00	-11.30	Average
3 5178.760	8.43	32.59	96.09	94.70	54.00	40.70	Average



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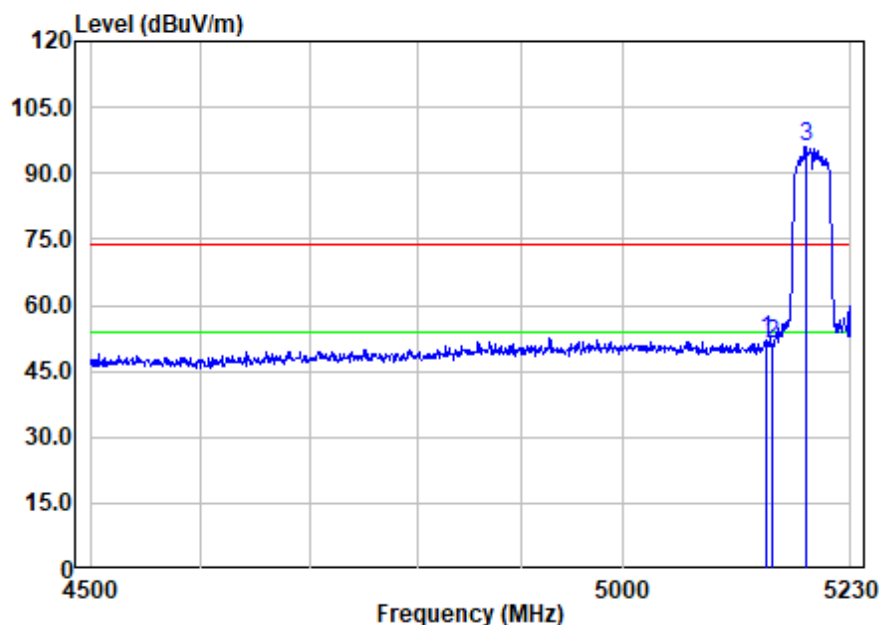
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5143.860	8.38	32.61	53.38	52.17	74.00	-21.83	Peak
2 5150.000	8.39	32.61	52.59	51.35	74.00	-22.65	Peak
3 5184.010	8.43	32.58	97.46	96.03	74.00	22.03	Peak



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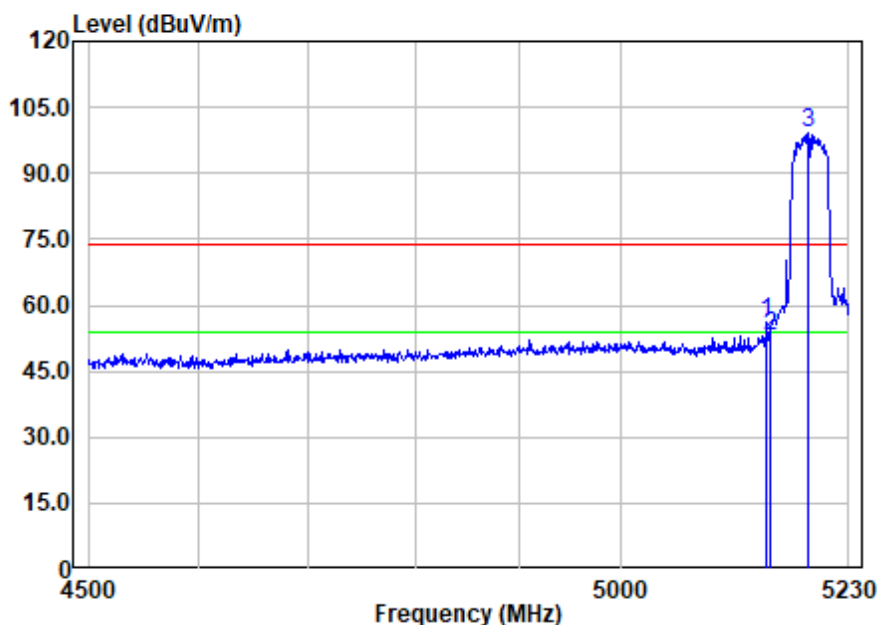
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5146.050	8.39	32.61	57.22	56.01	74.00	-17.99	Peak
2 5150.000	8.39	32.61	54.15	52.91	74.00	-21.09	Peak
3 5189.120	8.44	32.58	100.40	98.95	74.00	24.95	Peak



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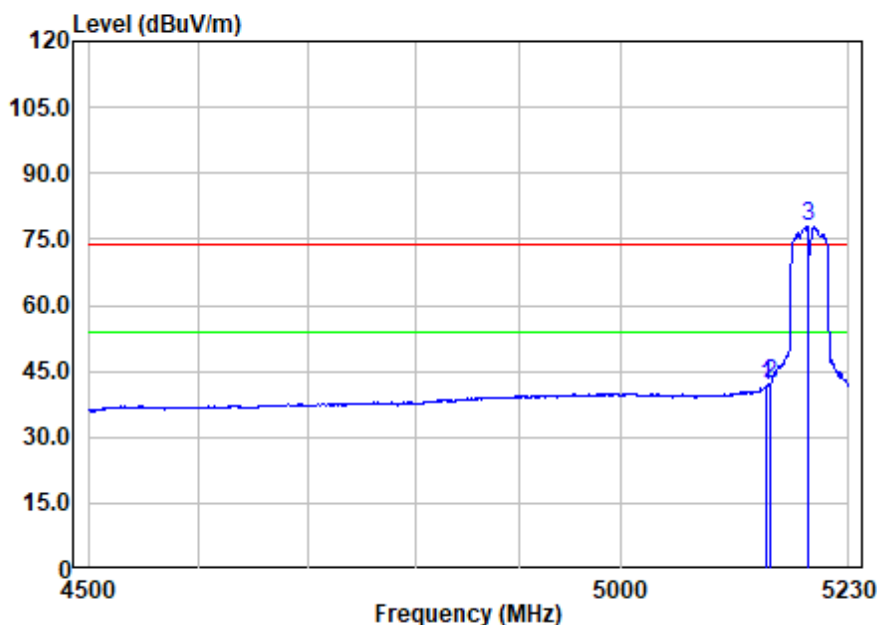
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Cable	Ant	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.320	8.39	32.61	43.07	41.86	54.00	-12.14	Average
2	5150.000	8.39	32.61	43.51	42.27	54.00	-11.73	Average
3	5187.660	8.44	32.58	79.43	77.99	54.00	23.99	Average



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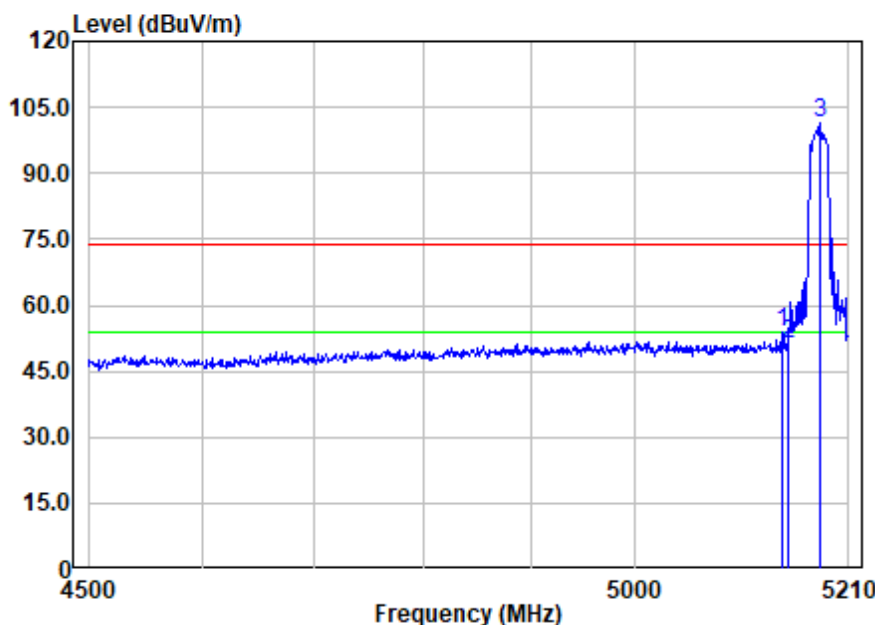
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5144.680	8.38	32.61	55.31	54.10	74.00	-19.90	Peak
2 5150.000	8.39	32.61	52.51	51.27	74.00	-22.73	Peak
3 5181.600	8.43	32.58	102.72	101.30	74.00	27.30	Peak



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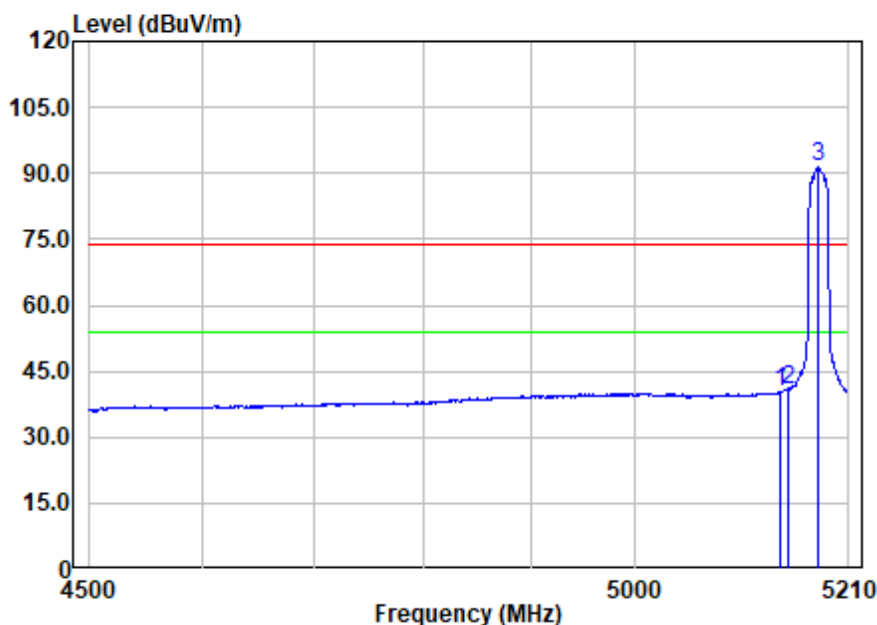
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Compliance Certification Services (Kunshan) Inc.

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



	Freq	Cable Loss	Ant Factor	Read Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dB	
1	5141.130	8.38	32.62	41.44	40.26	54.00	-13.74 Average
2	5150.000	8.39	32.61	41.96	40.72	54.00	-13.28 Average
3	5178.760	8.43	32.59	92.74	91.35	54.00	37.35 Average



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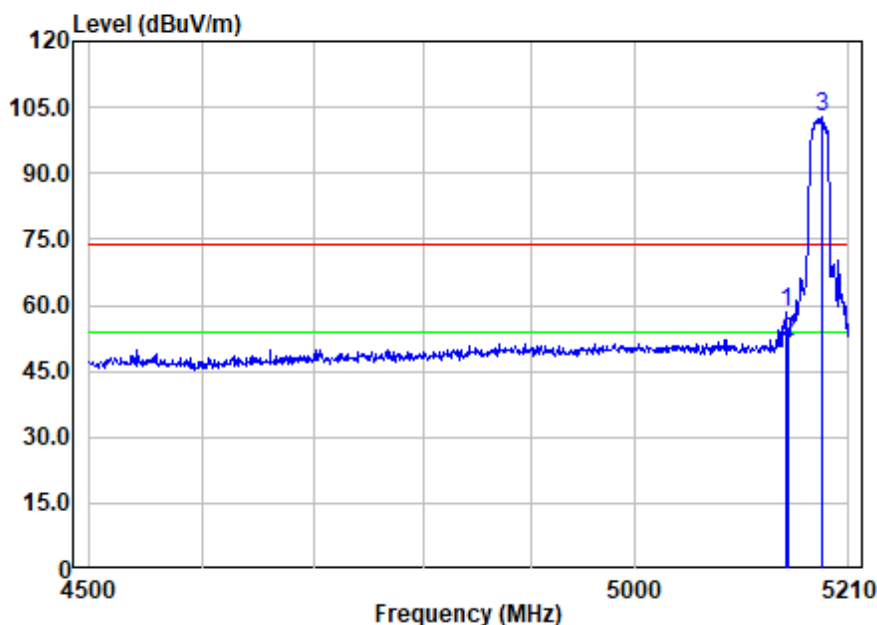
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5148.230	8.39	32.61	59.85	58.63	74.00	-15.37	Peak
2 5150.000	8.39	32.61	52.89	51.65	74.00	-22.35	Peak
3 5183.020	8.43	32.58	104.18	102.75	74.00	28.75	Peak



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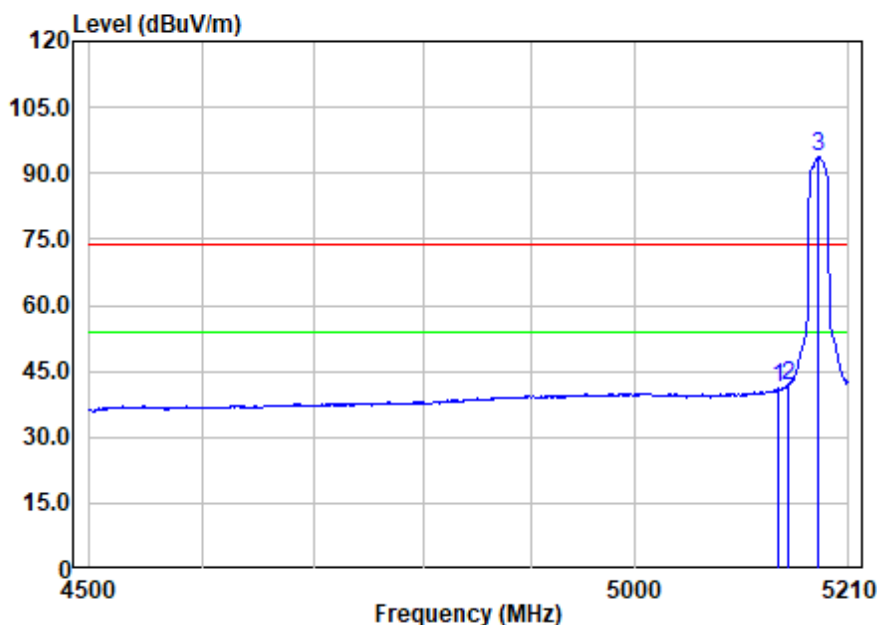
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Compliance Certification Services (Kunshan) Inc.

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



	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5139.710	8.38	32.62	42.20	41.03	54.00	-12.97	Average
2	5150.000	8.39	32.61	43.11	41.87	54.00	-12.13	Average
3	5178.760	8.43	32.59	95.21	93.82	54.00	39.82	Average



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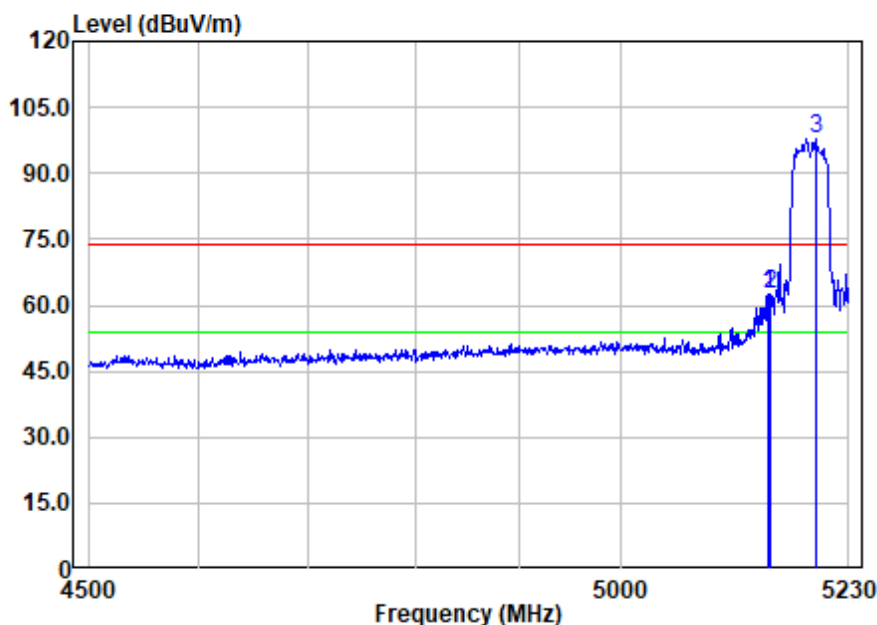
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5146.780	8.39	32.61	63.52	62.30	74.00	-11.70	Peak
2 5150.000	8.39	32.61	63.61	62.37	74.00	-11.63	Peak
3 5195.690	8.45	32.57	99.29	97.80	74.00	23.80	Peak



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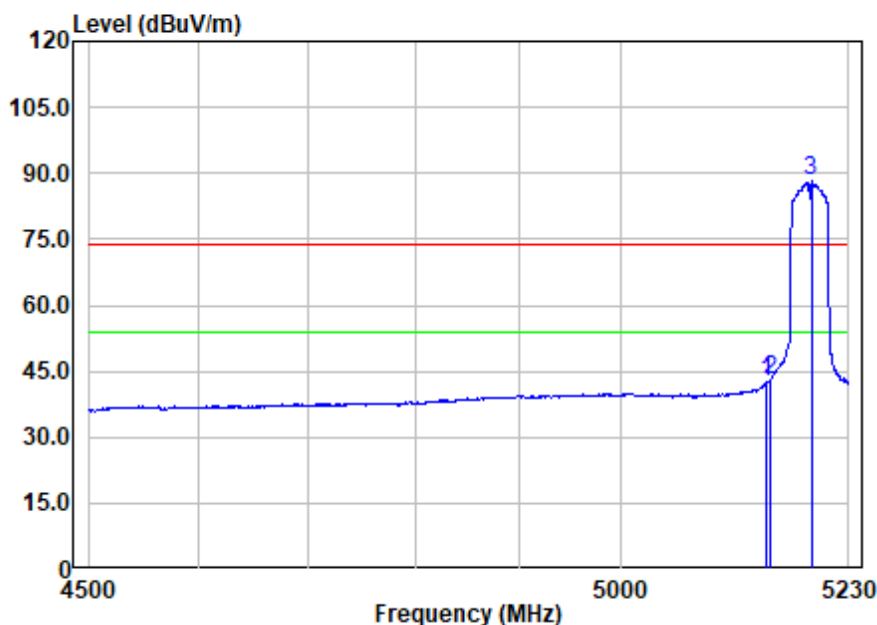
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read	Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5146.050	8.39	32.61	43.67	42.46	54.00	-11.54 Average
2 5150.000	8.39	32.61	44.44	43.20	54.00	-10.80 Average
3 5191.310	8.44	32.58	89.61	88.14	54.00	34.14 Average



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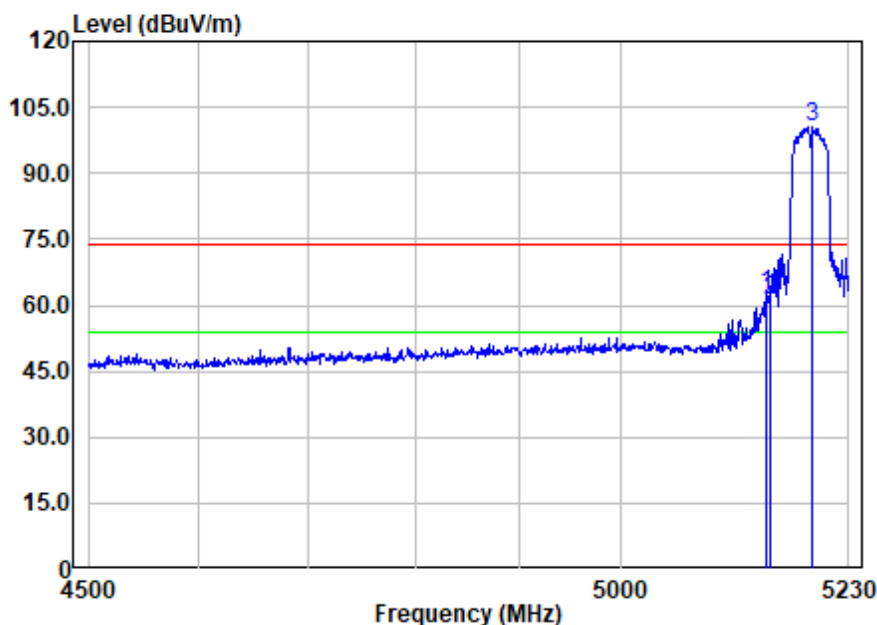
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



		Cable	Ant	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5146.050	8.39	32.61	63.49	62.28	74.00	-11.72	Peak
2	5150.000	8.39	32.61	62.23	60.99	74.00	-13.01	Peak
3	5192.770	8.45	32.58	102.09	100.62	74.00	26.62	Peak



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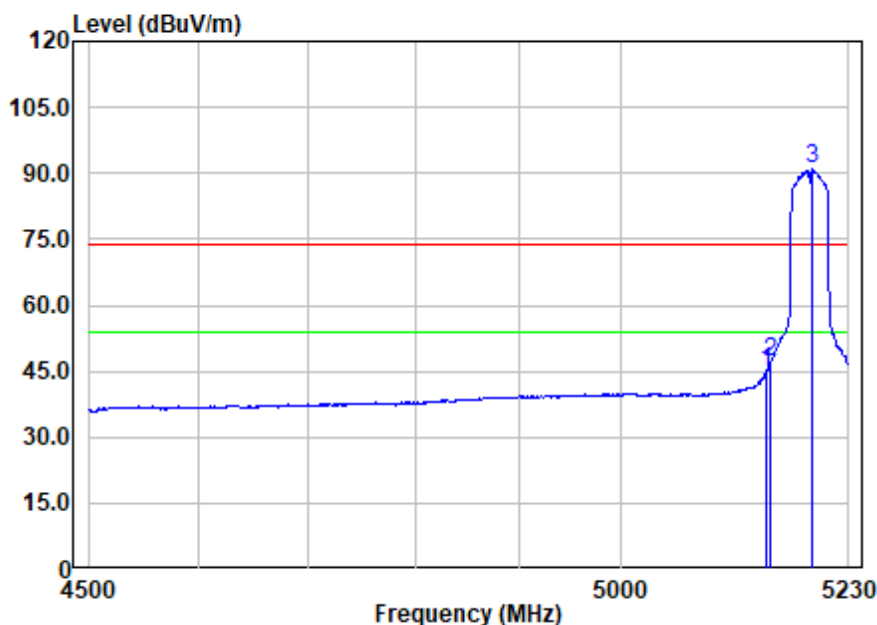
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



		Cable	Ant	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.320	8.39	32.61	46.24	45.03	54.00	-8.97	Average
2	5150.000	8.39	32.61	48.18	46.94	54.00	-7.06	Average
3	5192.770	8.45	32.58	92.45	90.98	54.00	36.98	Average



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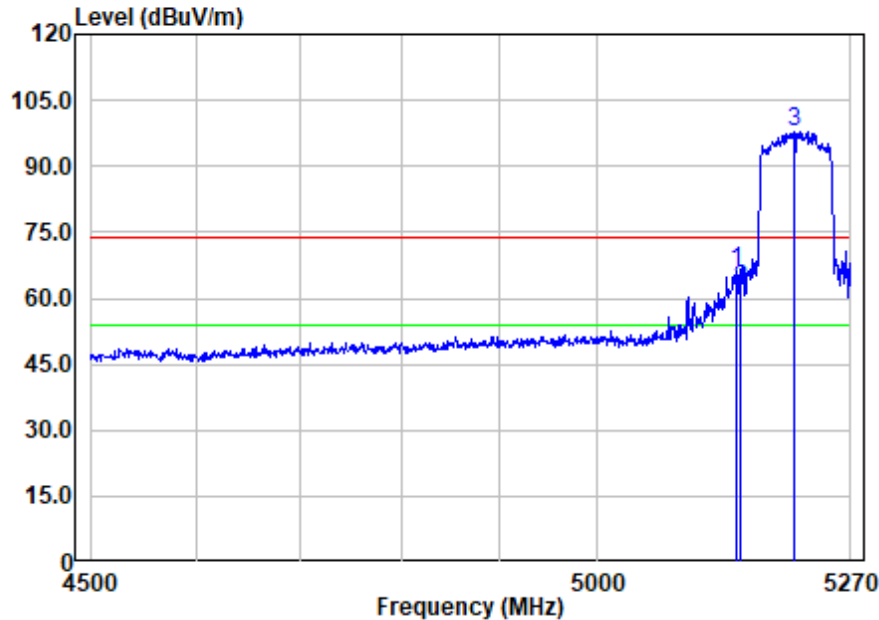
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5146.030	8.39	32.61	67.21	66.00	74.00	-8.00	Peak
2 5150.000	8.39	32.61	63.36	62.12	74.00	-11.88	Peak
3 5209.170	8.47	32.57	99.47	97.97	74.00	23.97	Peak



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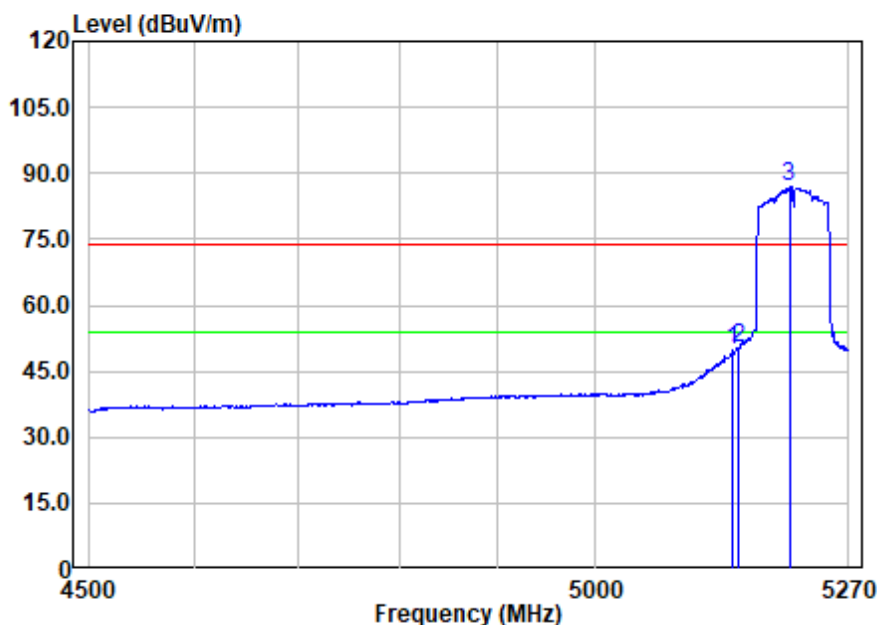
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Compliance Certification Services (Kunshan) Inc.

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



	Freq	Cable Loss	Ant Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dB	
1	5145.260	8.38	32.61	50.85	49.63	54.00	-4.37 Average
2	5150.000	8.39	32.61	51.59	50.35	54.00	-3.65 Average
3	5205.320	8.46	32.57	88.33	86.82	54.00	32.82 Average



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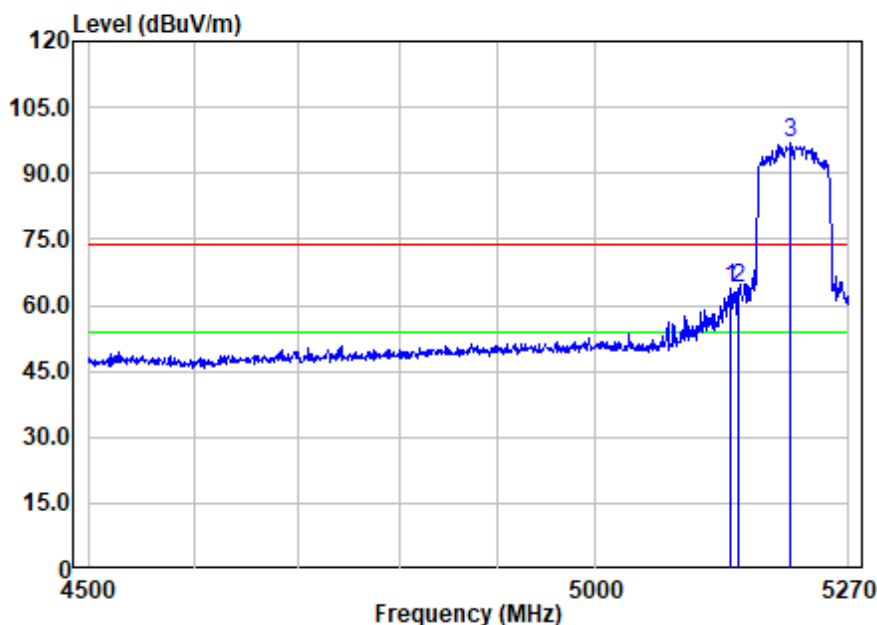
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Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5141.410	8.38	32.62	64.92	63.74	74.00	-10.26	Peak
2 5150.000	8.39	32.61	65.28	64.04	74.00	-9.96	Peak
3 5206.090	8.46	32.57	98.37	96.86	74.00	22.86	Peak



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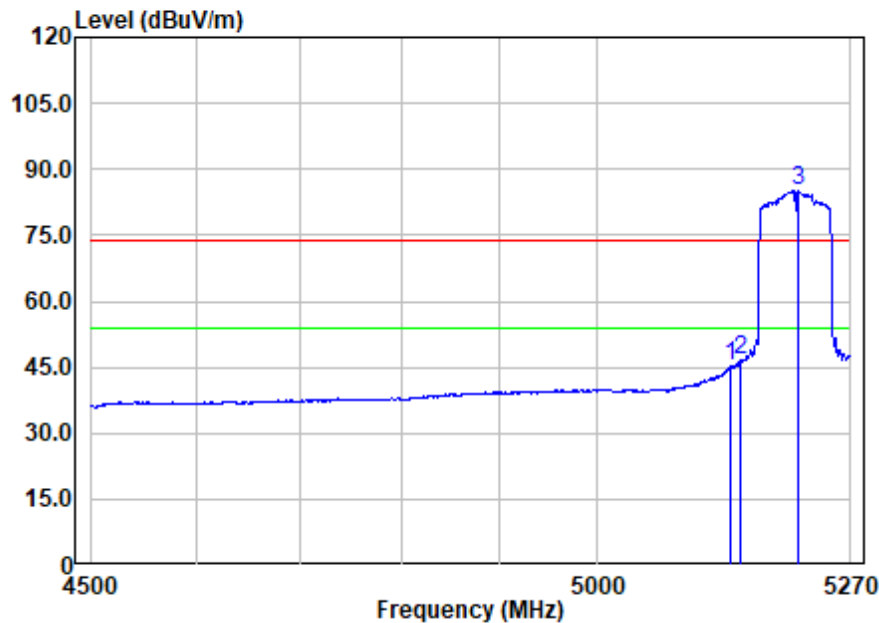
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read	Limit	Over	
Freq	Loss	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 5139.100	8.38	32.62	46.23	45.06	54.00	-8.94 Average
2 5150.000	8.39	32.61	47.86	46.62	54.00	-7.38 Average
3 5213.020	8.47	32.57	86.58	85.09	54.00	31.09 Average



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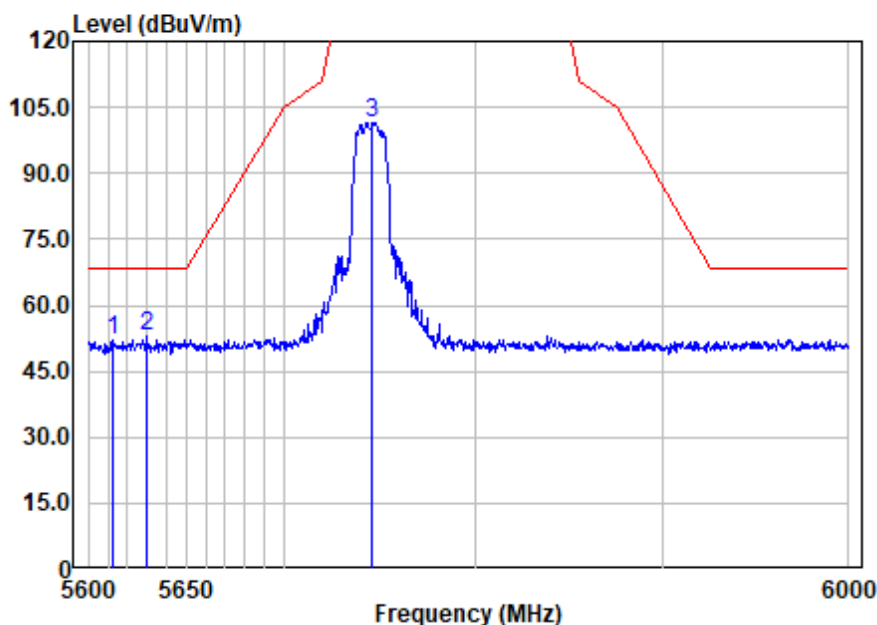
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5612.400	8.94	32.68	51.79	51.98	68.20	-16.22	Peak
2 5629.600	8.95	32.75	52.84	53.02	68.20	-15.18	Peak
3 5746.400	9.01	33.25	101.34	101.65	135.00	-33.35	Peak



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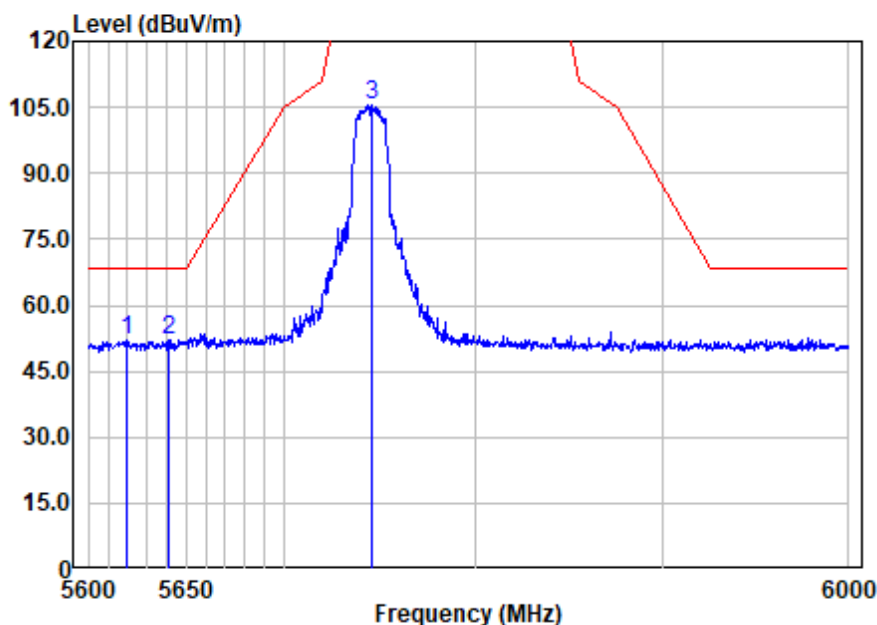
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5619.200	8.94	32.71	51.92	52.10	68.20	-16.10	Peak
2 5640.800	8.95	32.80	51.74	51.91	68.20	-16.29	Peak
3 5746.400	9.01	33.25	105.06	105.37	135.00	-29.63	Peak



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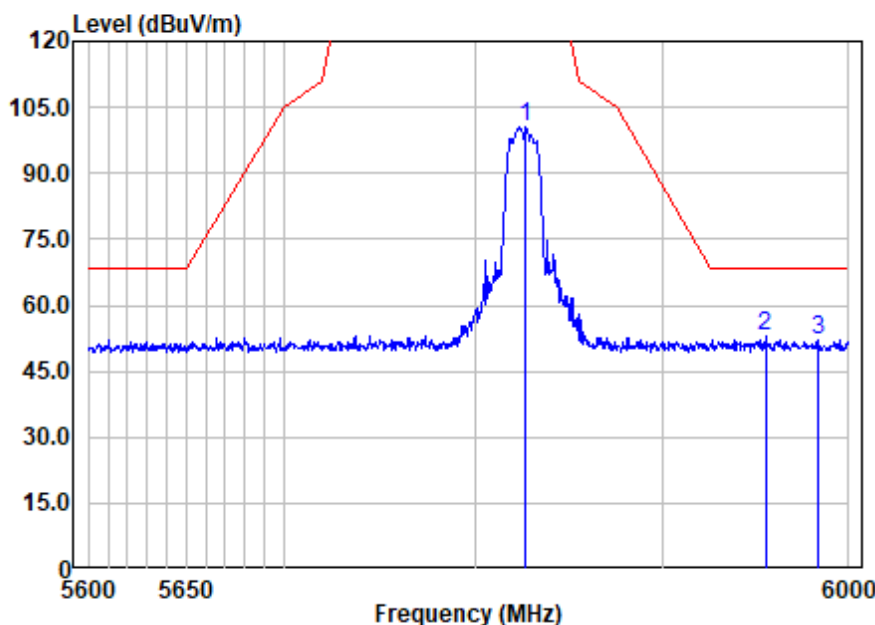
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5826.800	9.05	33.53	99.97	100.40	135.00	-34.60	Peak
2	5954.800	9.12	33.53	52.68	52.86	68.20	-15.34	Peak
3	5983.200	9.13	33.49	51.97	52.15	68.20	-16.05	Peak



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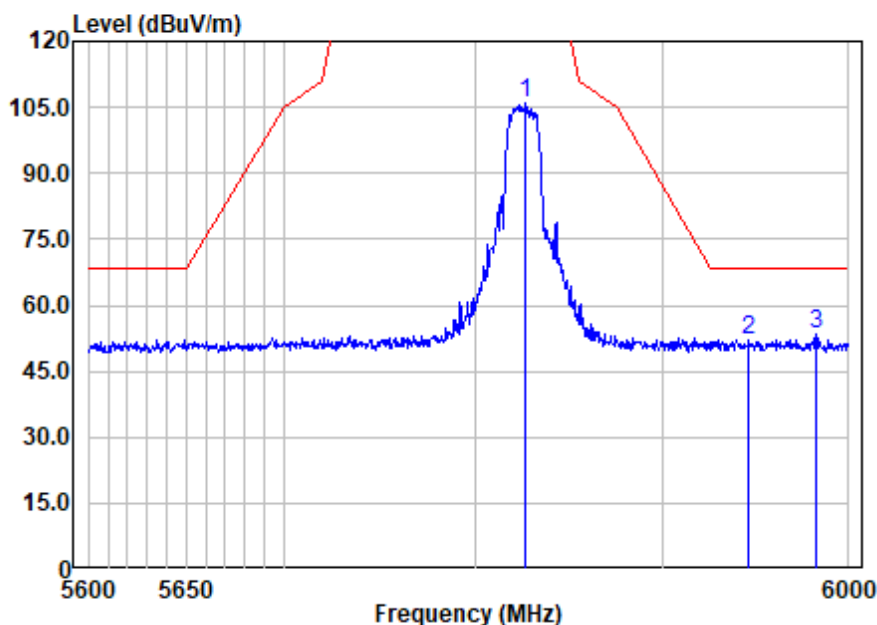
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Freq	Cable Loss	Ant Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	5826.400	9.05	33.53	105.59	106.02	135.00	-28.98 Peak
2	5946.000	9.11	33.54	52.06	52.24	68.20	-15.96 Peak
3	5982.800	9.13	33.49	53.08	53.26	68.20	-14.94 Peak



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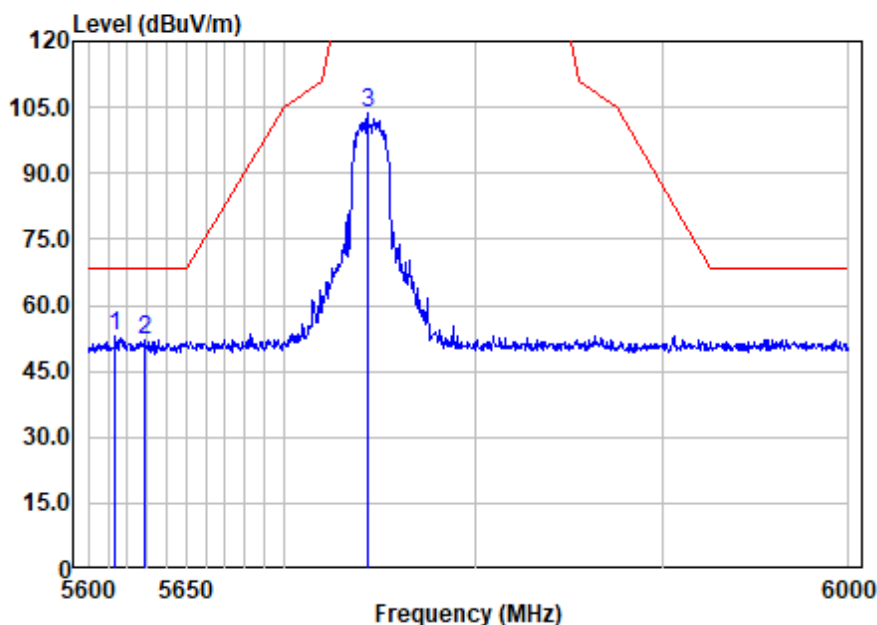
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5614.000	8.94	32.69	52.63	52.82	68.20	-15.38	Peak
2 5628.800	8.95	32.75	51.75	51.93	68.20	-16.27	Peak
3 5744.000	9.01	33.24	103.24	103.54	135.00	-31.46	Peak



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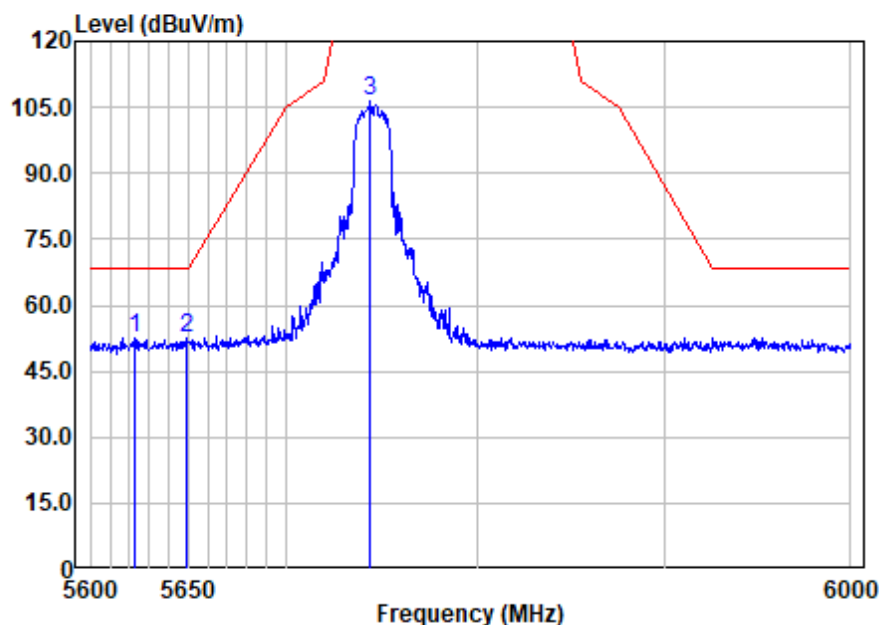
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5622.800	8.94	32.72	52.46	52.63	68.20	-15.57	Peak
2 5649.200	8.96	32.83	52.57	52.73	68.20	-15.47	Peak
3 5744.000	9.01	33.24	105.91	106.21	135.00	-28.79	Peak



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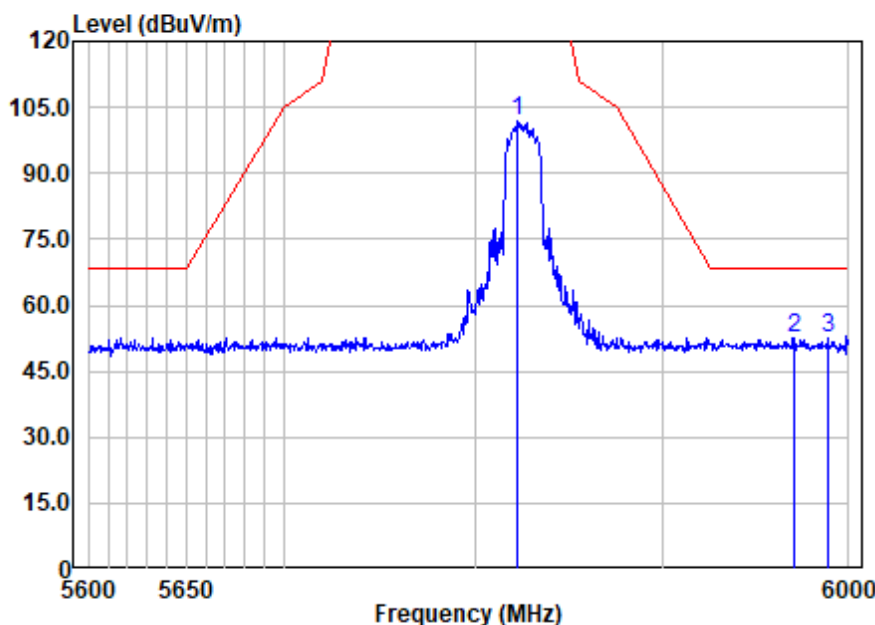
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Cable Loss	Ant Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	5822.800	9.05	33.52	101.53	101.97	135.00	-33.03 Peak
2	5970.000	9.12	33.51	52.49	52.67	68.20	-15.53 Peak
3	5988.400	9.13	33.49	52.18	52.37	68.20	-15.83 Peak



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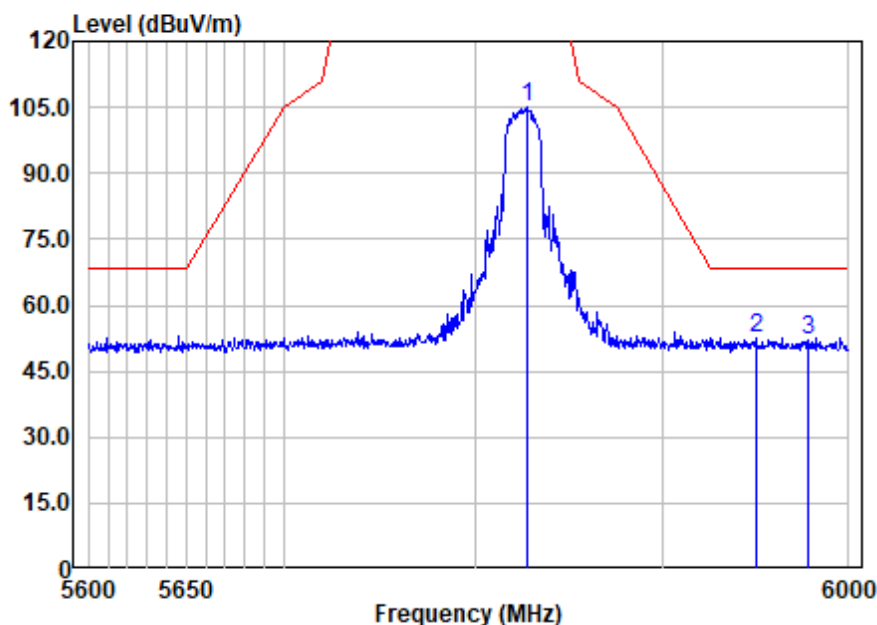
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5828.000	9.05	33.53	104.54	104.96	135.00	-30.04	Peak
2 5949.600	9.11	33.54	52.18	52.36	68.20	-15.84	Peak
3 5978.000	9.13	33.50	51.68	51.87	68.20	-16.33	Peak



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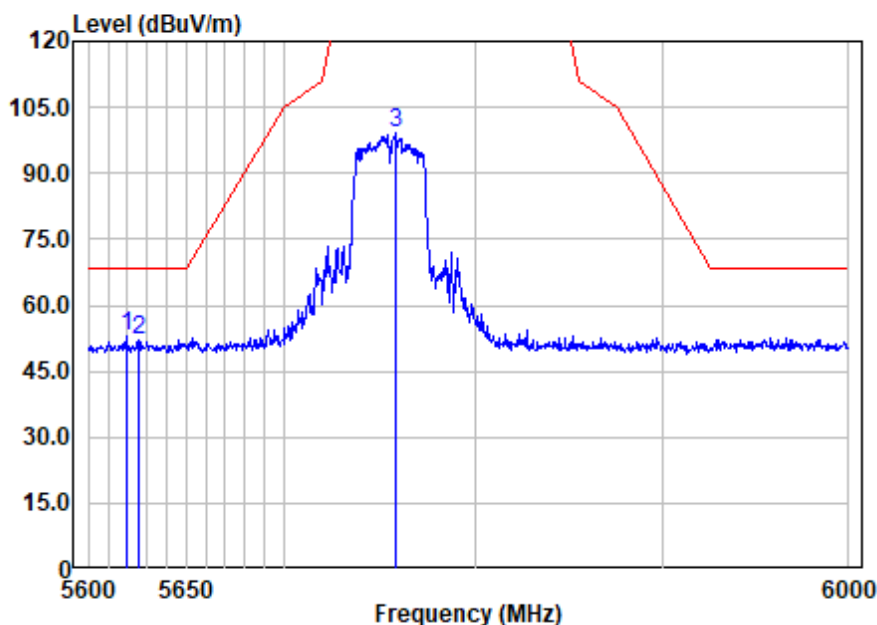
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



		Cable	Ant	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5619.200	8.94	32.71	52.69	52.87	68.20	-15.33	Peak
2	5625.600	8.94	32.73	51.86	52.03	68.20	-16.17	Peak
3	5758.000	9.01	33.31	98.62	98.97	135.00	-36.03	Peak



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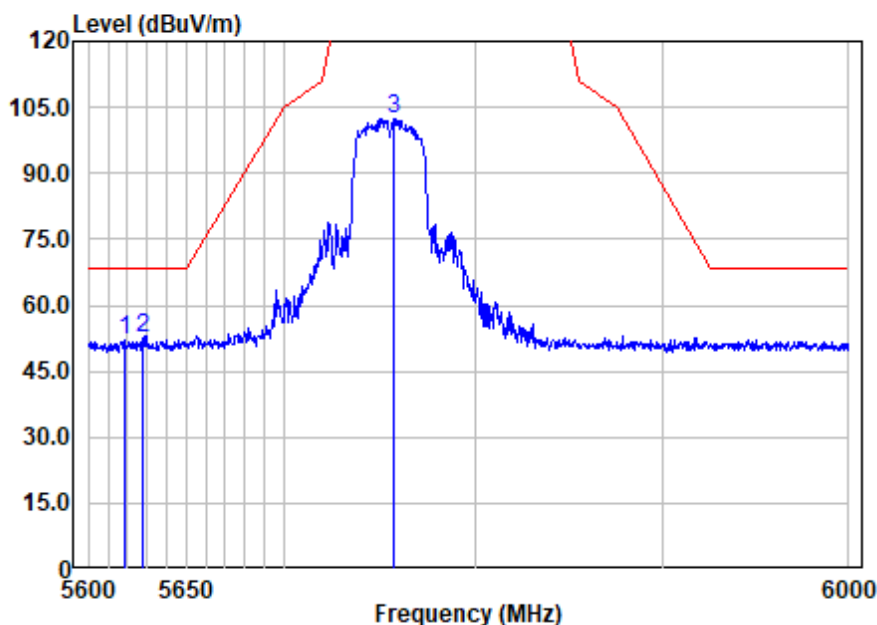
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5618.400	8.94	32.71	51.88	52.06	68.20	-16.14	Peak
2 5627.600	8.95	32.74	52.27	52.45	68.20	-15.75	Peak
3 5757.600	9.01	33.30	102.20	102.55	135.00	-32.45	Peak



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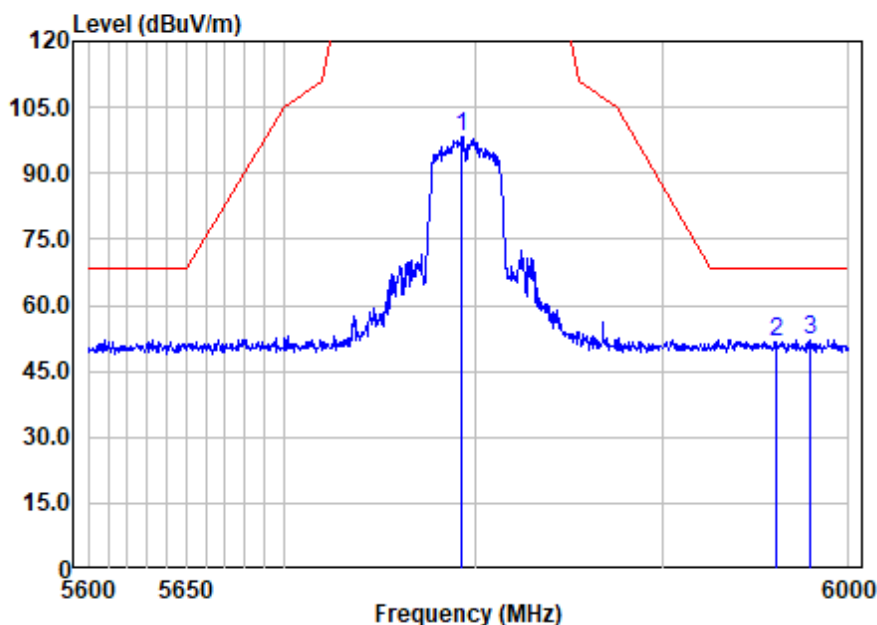
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



		Cable	Ant	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5793.200	9.03	33.47	97.67	98.16	135.00	-36.84	Peak
2	5960.800	9.12	33.52	51.57	51.75	68.20	-16.45	Peak
3	5978.800	9.13	33.50	52.00	52.19	68.20	-16.01	Peak



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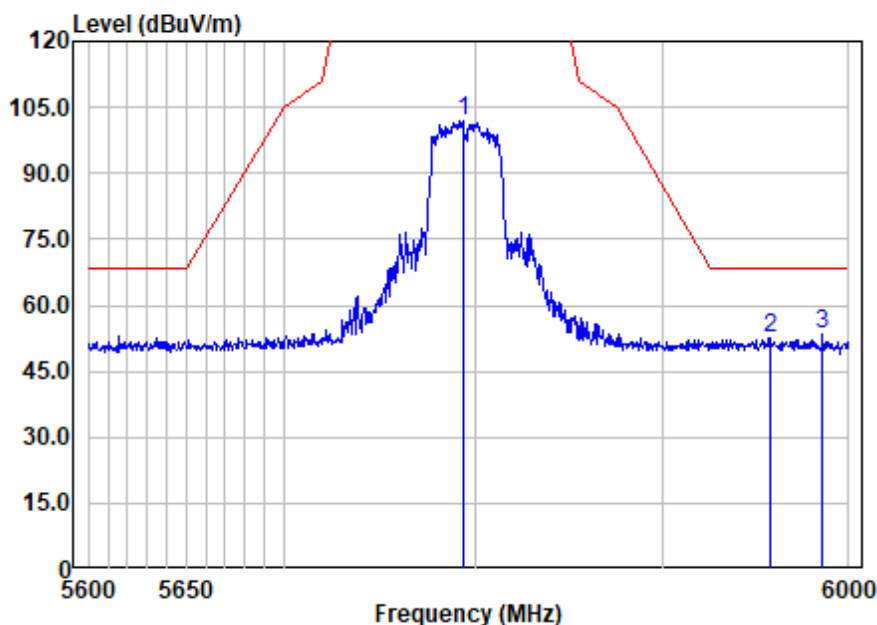
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Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5793.600	9.03	33.47	101.61	102.10	135.00	-32.90	Peak
2 5957.600	9.12	33.53	52.39	52.58	68.20	-15.62	Peak
3 5985.600	9.13	33.49	53.02	53.21	68.20	-14.99	Peak



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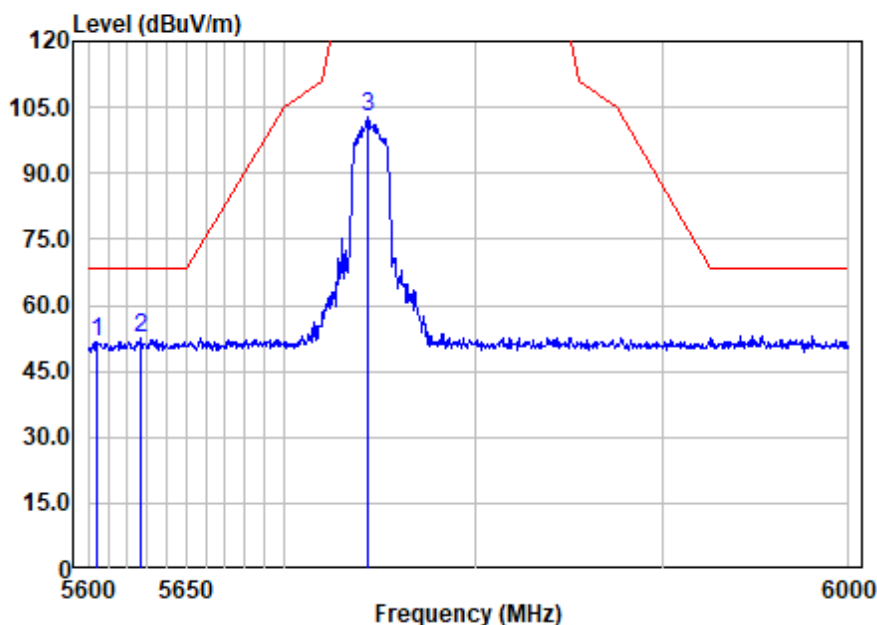
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5604.400	8.93	32.65	51.55	51.74	68.20	-16.46	Peak
2 5626.400	8.94	32.74	52.18	52.35	68.20	-15.85	Peak
3 5744.400	9.01	33.24	102.65	102.95	135.00	-32.05	Peak



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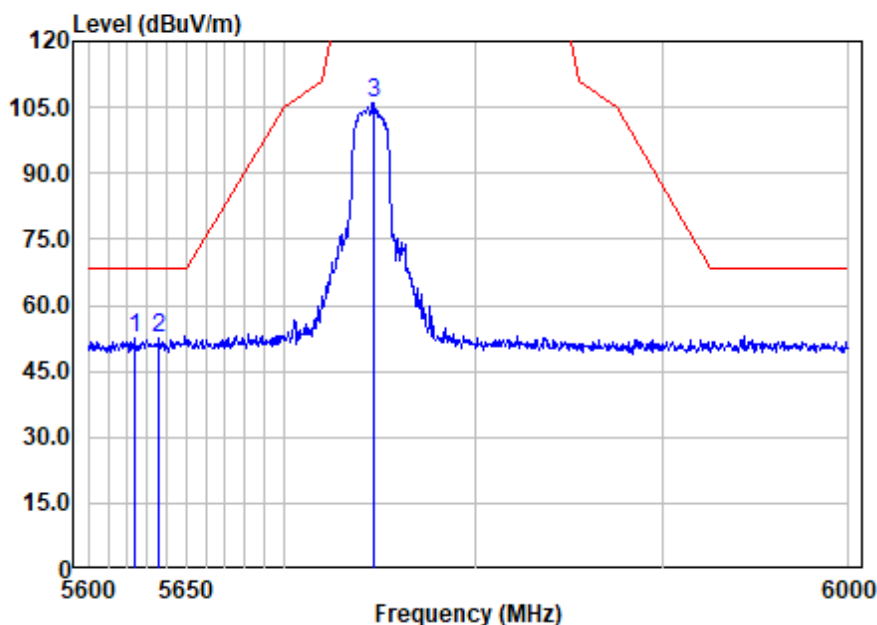
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5623.600	8.94	32.73	52.41	52.59	68.20	-15.61	Peak
2 5636.400	8.95	32.78	52.23	52.40	68.20	-15.80	Peak
3 5746.800	9.01	33.26	105.55	105.87	135.00	-29.13	Peak



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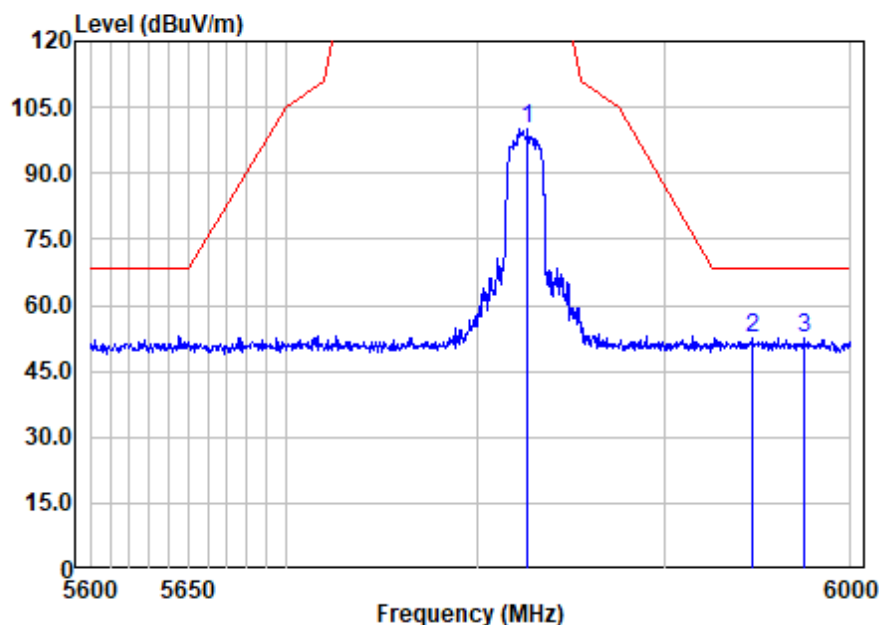
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Freq	Cable Loss	Ant Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	5826.400	9.05	33.53	99.67	100.10	135.00	-34.90 Peak
2	5947.200	9.11	33.54	52.44	52.62	68.20	-15.58 Peak
3	5974.800	9.13	33.50	52.28	52.46	68.20	-15.74 Peak



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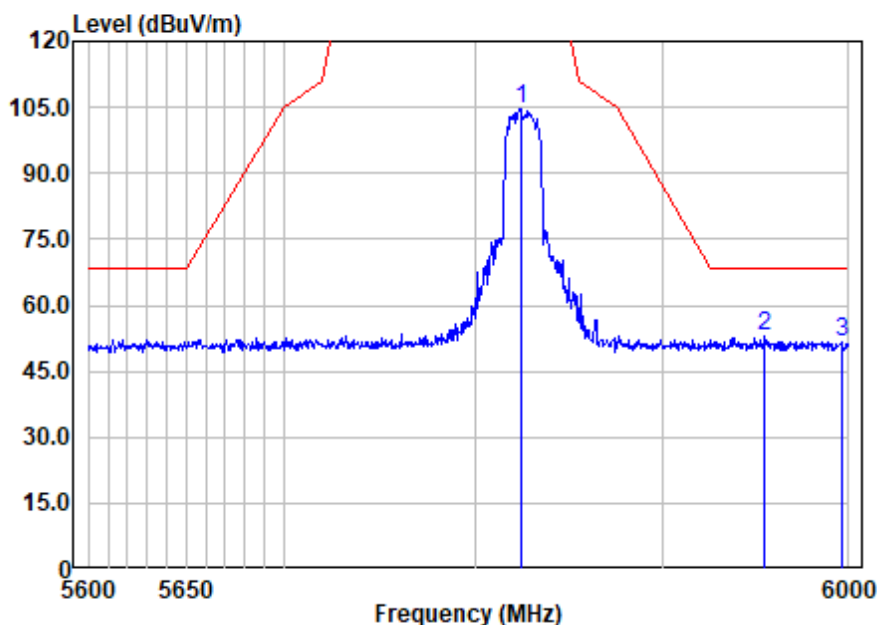
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5824.000	9.05	33.52	104.15	104.58	135.00	-30.42	Peak
2 5954.400	9.12	33.53	52.67	52.85	68.20	-15.35	Peak
3 5996.400	9.14	33.47	51.58	51.77	68.20	-16.43	Peak



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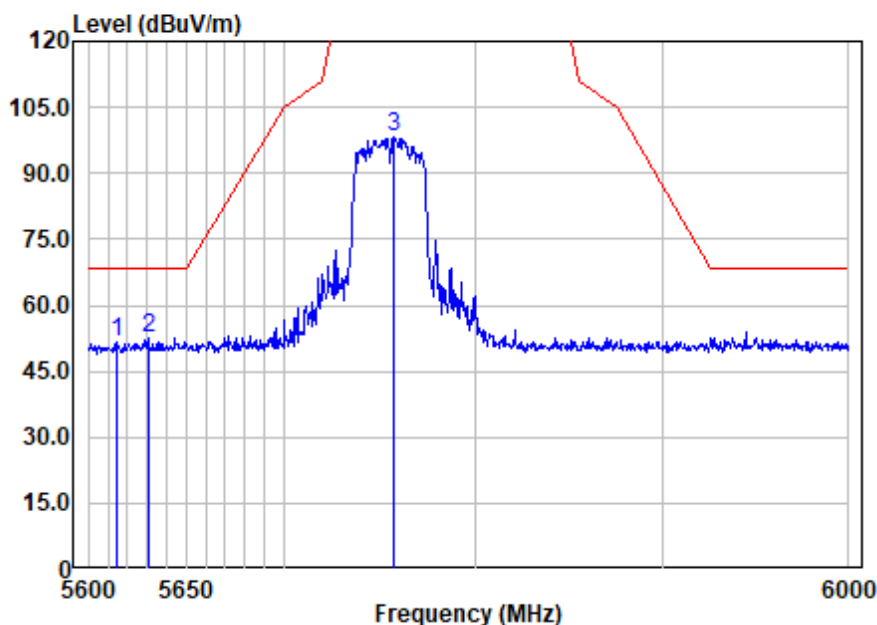
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Compliance Certification Services (Kunshan) Inc.

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5614.400	8.94	32.69	51.58	51.77	68.20	-16.43	Peak
2 5630.400	8.95	32.75	52.42	52.59	68.20	-15.61	Peak
3 5757.200	9.01	33.30	97.90	98.25	135.00	-36.75	Peak



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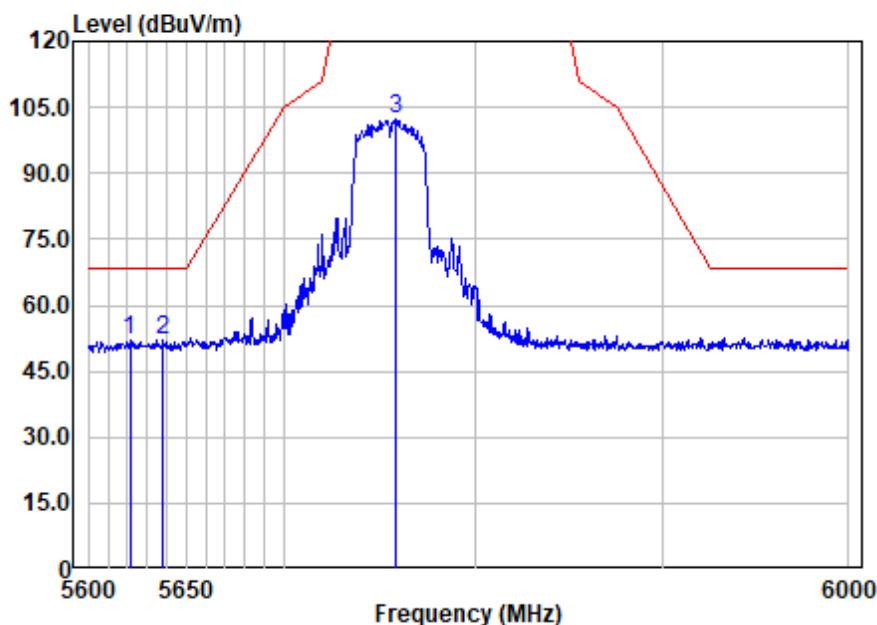
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5621.200	8.94	32.72	51.87	52.05	68.20	-16.15	Peak
2 5638.400	8.95	32.79	52.08	52.25	68.20	-15.95	Peak
3 5758.000	9.01	33.31	102.12	102.47	135.00	-32.53	Peak



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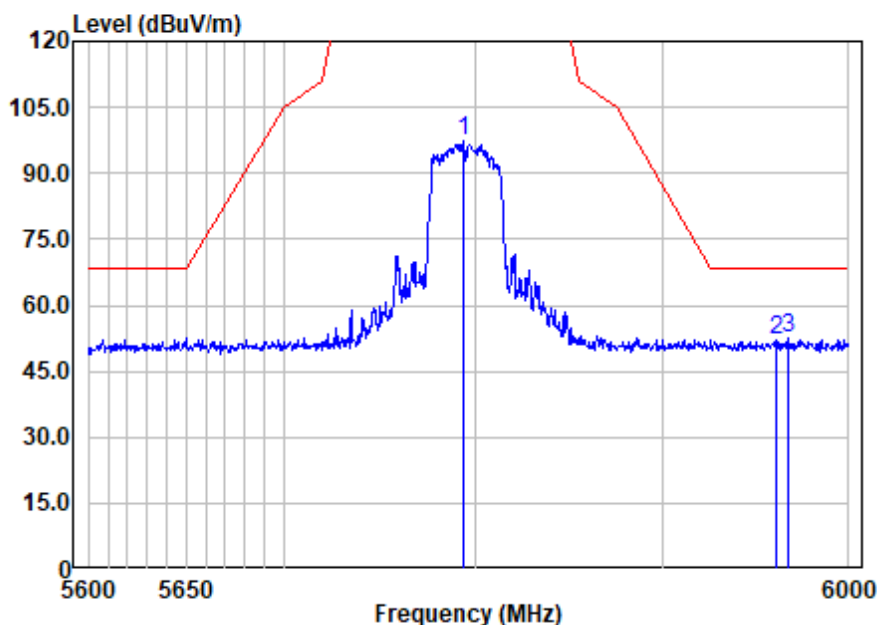
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5793.600	9.03	33.47	96.92	97.41	135.00	-37.59	Peak
2 5961.200	9.12	33.52	51.69	51.87	68.20	-16.33	Peak
3 5967.600	9.12	33.51	52.15	52.33	68.20	-15.87	Peak



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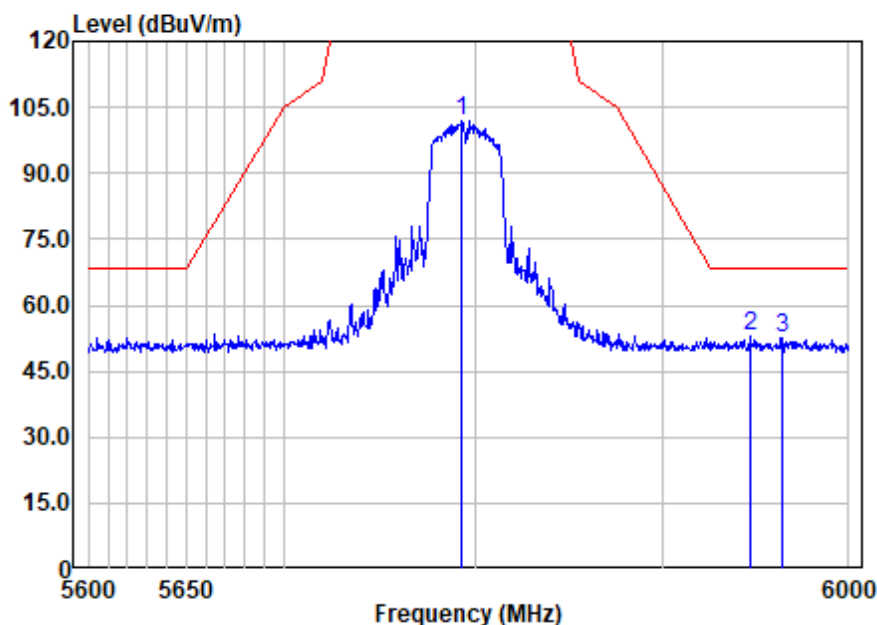
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5793.200	9.03	33.47	101.54	102.03	135.00	-32.97	Peak
2 5946.400	9.11	33.54	52.65	52.83	68.20	-15.37	Peak
3 5963.600	9.12	33.52	52.34	52.52	68.20	-15.68	Peak



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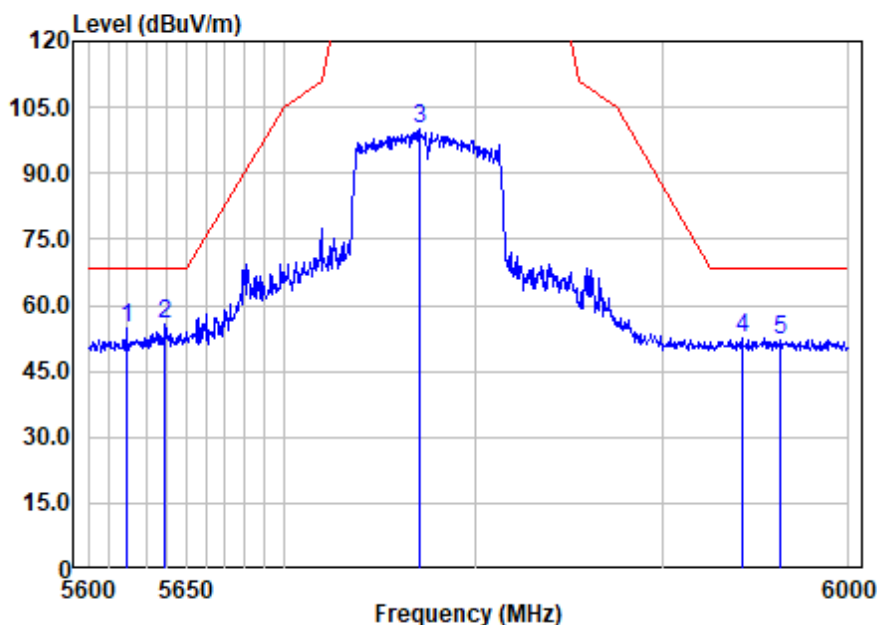
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Test Mode: 02; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5619.600	8.94	32.71	54.41	54.59	68.20	-13.61	Peak
2 5639.200	8.95	32.79	55.55	55.72	68.20	-12.48	Peak
3 5770.800	9.02	33.37	99.66	100.07	135.00	-34.93	Peak
4 5942.400	9.11	33.54	52.37	52.54	68.20	-15.66	Peak
5 5962.400	9.12	33.52	51.98	52.16	68.20	-16.04	Peak



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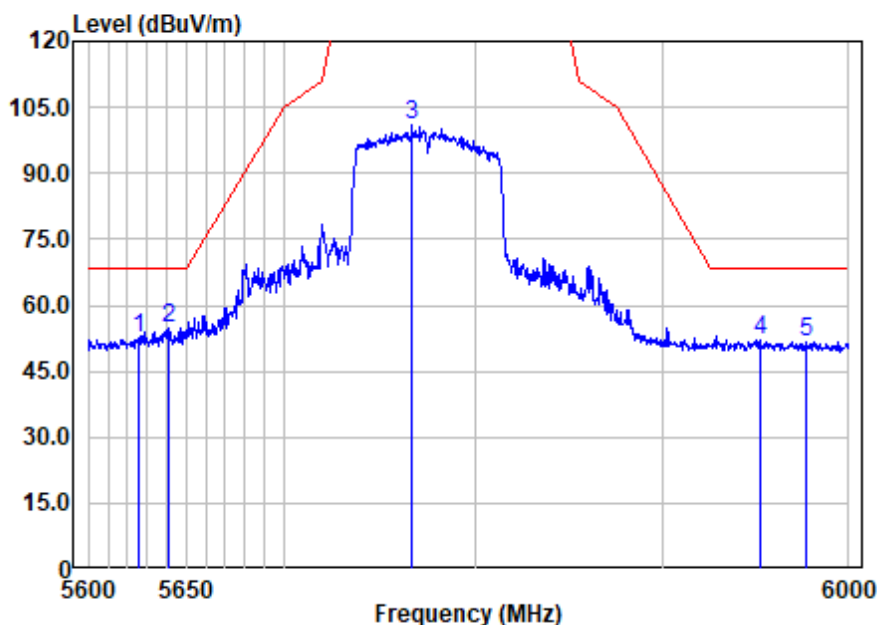
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Cable	Ant	Read		Limit	Over	
Freq	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 5625.600	8.94	32.73	52.16	52.33	68.20	-15.87	Peak
2 5641.200	8.95	32.80	54.42	54.59	68.20	-13.61	Peak
3 5766.800	9.02	33.35	100.59	100.98	135.00	-34.02	Peak
4 5951.600	9.11	33.53	51.88	52.05	68.20	-16.15	Peak
5 5976.800	9.13	33.50	51.60	51.79	68.20	-16.41	Peak



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7.10 Frequency Stability

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

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C

Humidity: 57.3 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 55.9 % RH

Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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), data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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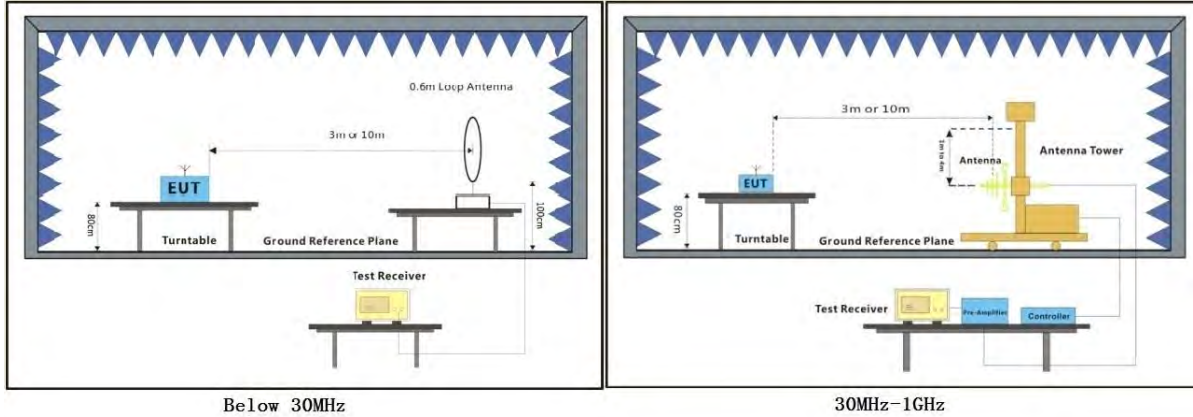
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7.11.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



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7.11.4 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.
5. We have evaluated different adapters and battery modes. The battery mode is the worst, and only the battery mode is tested finally.



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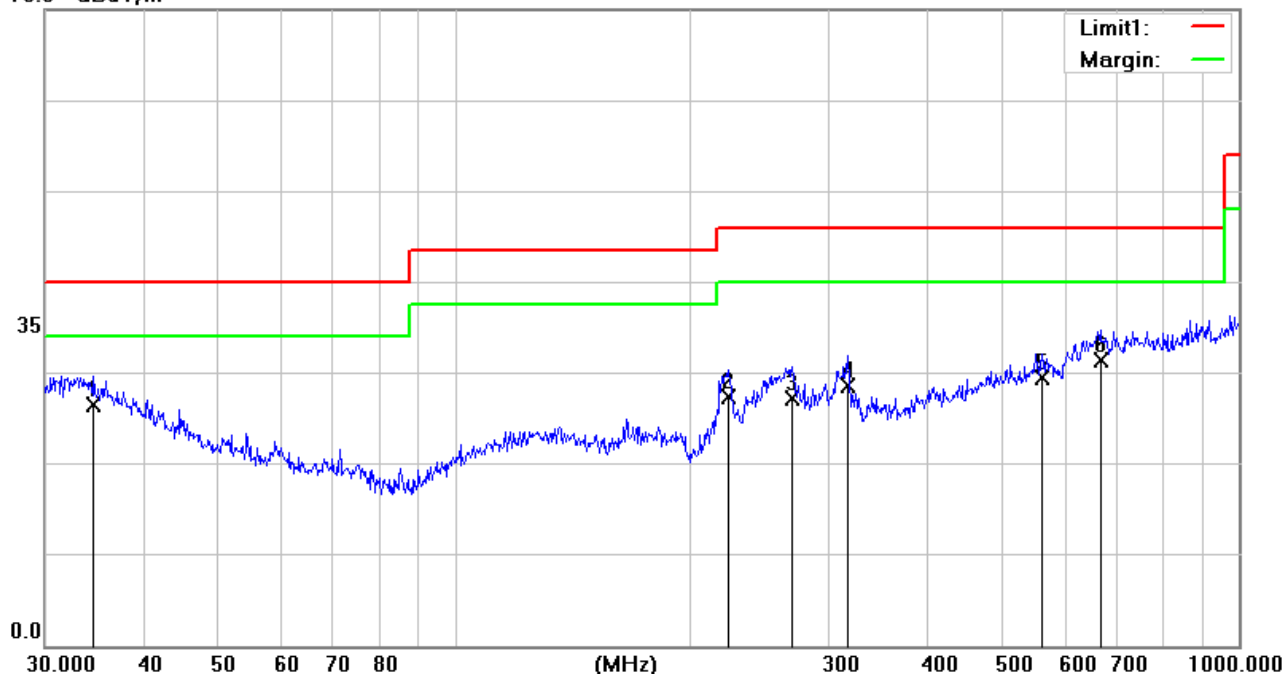
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Test Mode: 01; Polarity: Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	34.6385	1.81	24.73	26.54	40.00	-13.46	100	360	QP
2	222.9502	10.60	16.85	27.45	46.00	-18.55	100	354	QP
3	269.4284	6.64	20.50	27.14	46.00	-18.86	100	217	QP
4	316.5890	7.61	21.03	28.64	46.00	-17.36	201	175	QP
5	560.6928	2.11	27.34	29.45	46.00	-16.55	101	360	QP
6	665.8035	4.19	27.26	31.45	46.00	-14.55	201	221	QP



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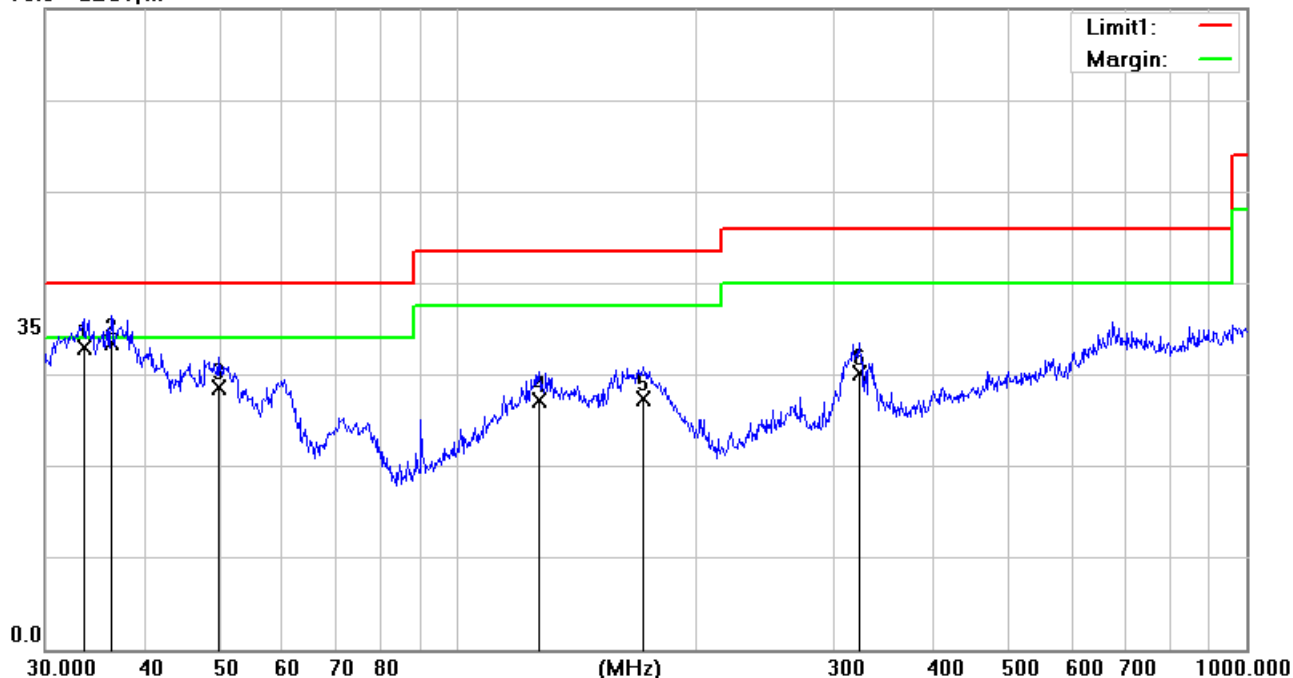
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Test Mode: 01; Polarity: Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	33.5624	8.06	24.96	33.02	40.00	-6.98	100	267	QP
2	36.3814	9.69	23.90	33.59	40.00	-6.41	100	277	QP
3	49.7068	10.78	17.86	28.64	40.00	-11.36	100	342	QP
4	126.7723	7.68	19.46	27.14	43.50	-16.36	200	304	QP
5	171.9946	10.57	16.88	27.45	43.50	-16.05	100	42	QP
6	323.3204	9.03	21.12	30.15	46.00	-15.85	201	27	QP



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7.12 99% Bandwidth

Test Requirement RSS-Gen Section 6.7

Test Method: ANSI C63.10 Section 6.9.3

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 55.9 % RH

Atmospheric Pressure: 1010 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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-3) Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); 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); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80), 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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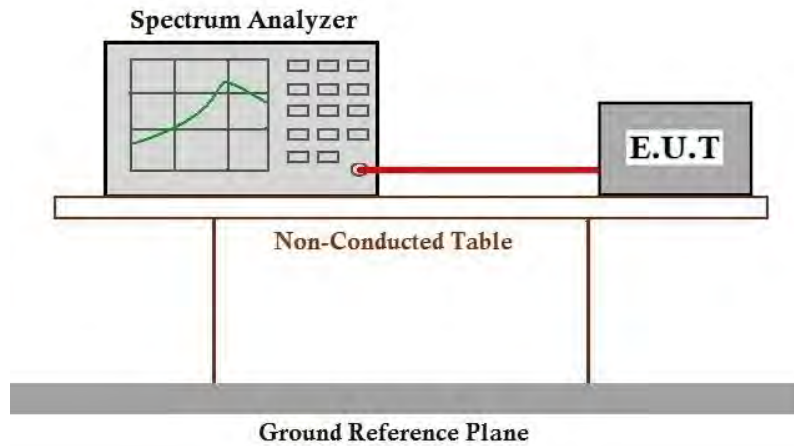
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7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2210001857AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2210001857AT



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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 (%)
802.11a	SISO	5180	1.393	1.438	96.87	0.14	0.10
		5200	1.393	1.437	96.94	0.14	0.03
		5240	1.393	1.436	97.01	0.13	0.07
		5745	1.392	1.437	96.87	0.14	0.03
		5785	1.392	1.436	96.94	0.14	0.03
		5825	1.393	1.437	96.94	0.14	0.03
802.11n (HT20)	SISO	5180	1.302	1.345	96.80	0.14	0.04
		5200	1.302	1.345	96.80	0.14	0.03
		5240	1.302	1.344	96.88	0.14	0.07
		5745	1.300	1.345	96.65	0.15	0.07
		5785	1.301	1.345	96.73	0.14	0.07
		5825	1.301	1.345	96.73	0.14	0.07
802.11n (HT40)	SISO	5190	0.648	0.692	93.64	0.29	0.06
		5230	0.649	0.693	93.65	0.28	0.07
		5755	0.649	0.692	93.79	0.28	0.10
		5795	0.649	0.693	93.65	0.28	0.09
802.11ac (VHT20)	SISO	5180	1.314	1.357	96.83	0.14	0.07
		5200	1.313	1.357	96.76	0.14	0.07
		5240	1.313	1.357	96.76	0.14	0.07
		5745	1.313	1.358	96.69	0.15	0.07
		5785	1.313	1.357	96.76	0.14	0.10
		5825	1.313	1.356	96.83	0.14	0.07
802.11ac (VHT40)	SISO	5190	0.652	0.696	93.68	0.28	0.10
		5230	0.653	0.696	93.82	0.28	0.04
		5755	0.652	0.696	93.68	0.28	0.13
		5795	0.652	0.696	93.68	0.28	0.13
802.11ac (VHT80)	SISO	5210	0.324	0.368	88.04	0.55	0.10
		5775	0.325	0.369	88.08	0.55	0.14



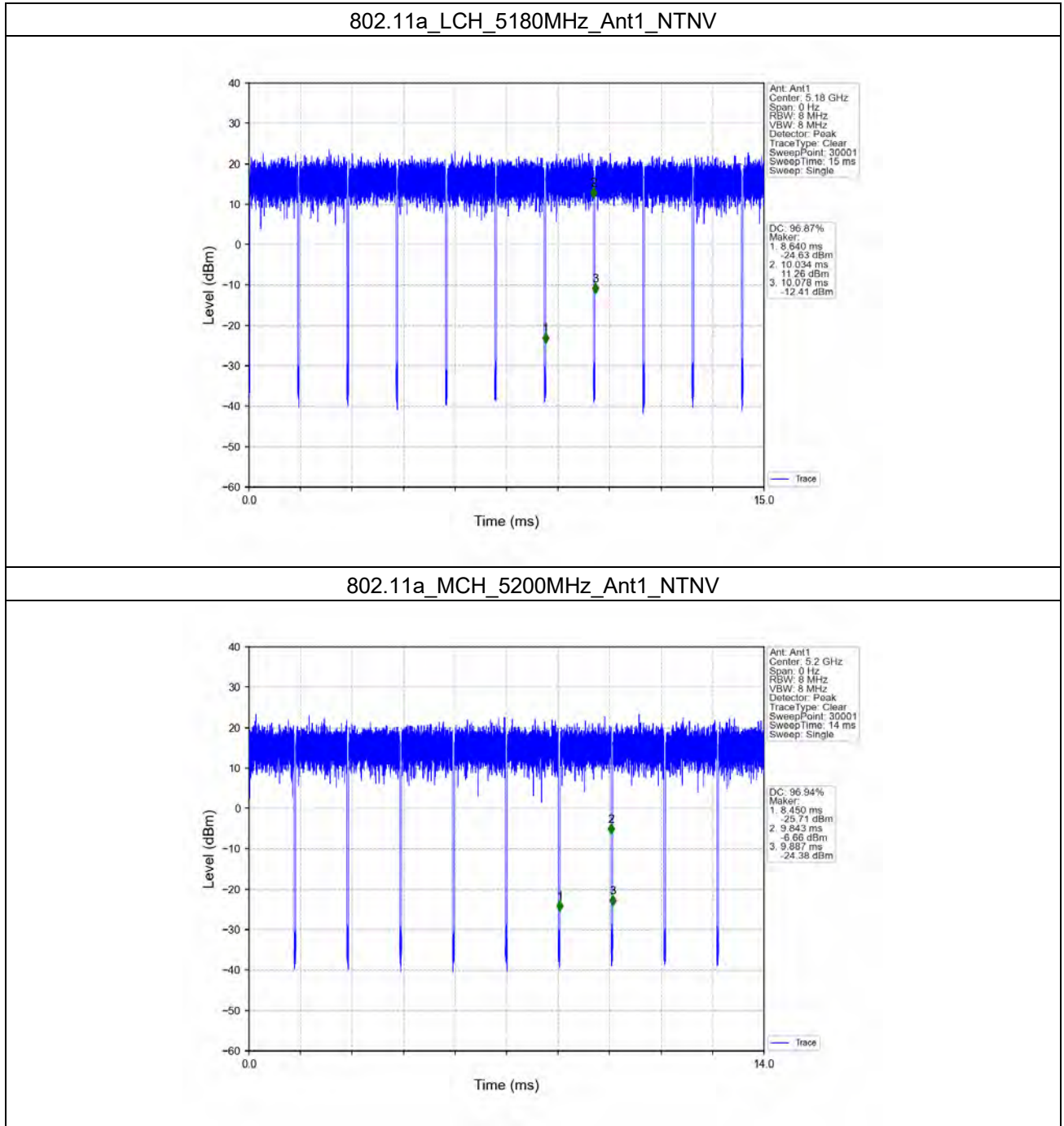
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1.1.2 Test Graph



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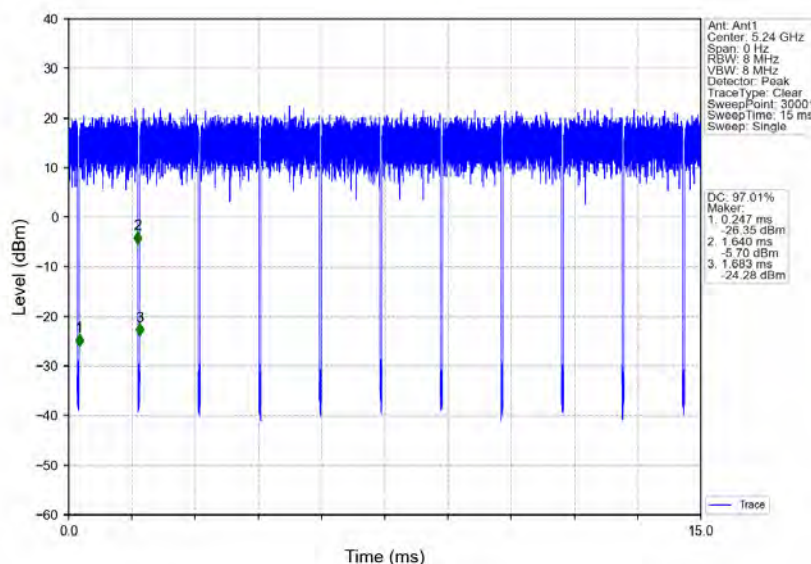
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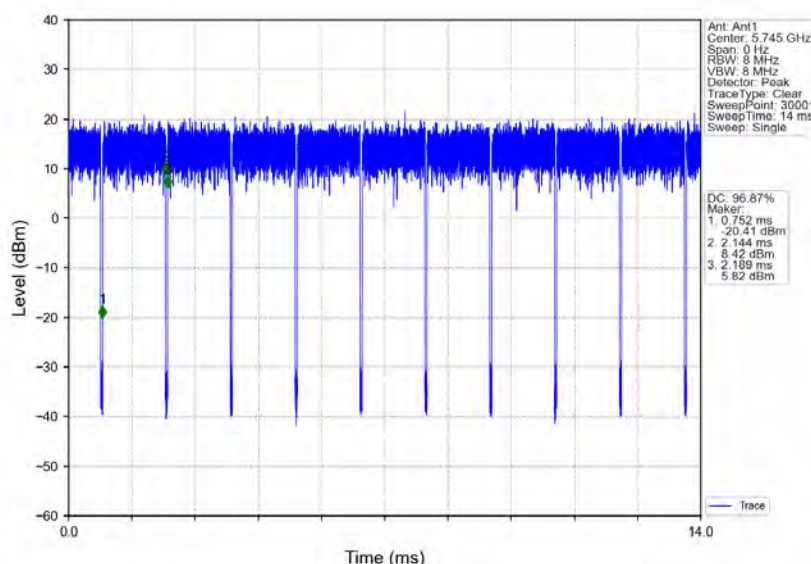
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



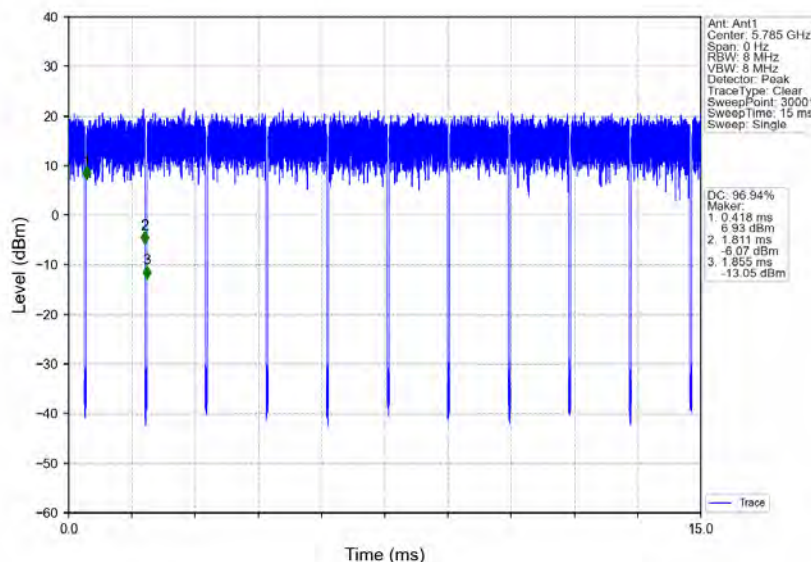
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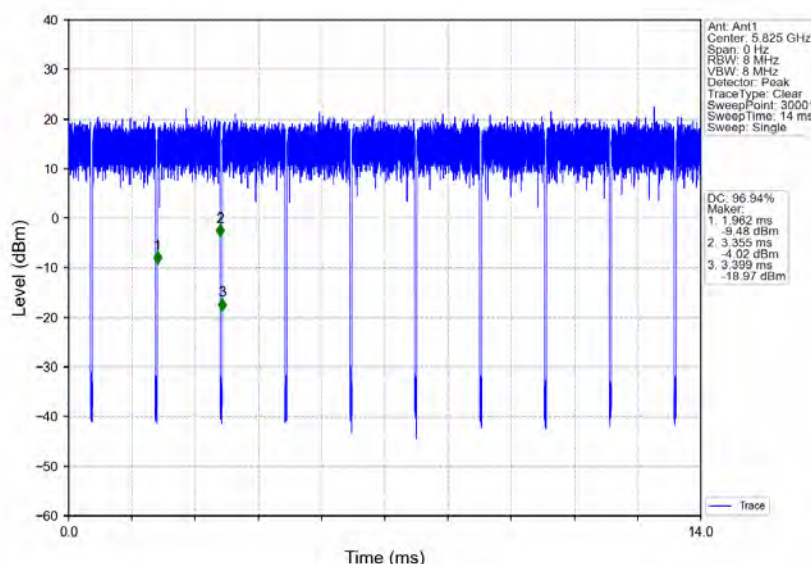
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802.11a_HCH_5825MHz_Ant1_NTNV



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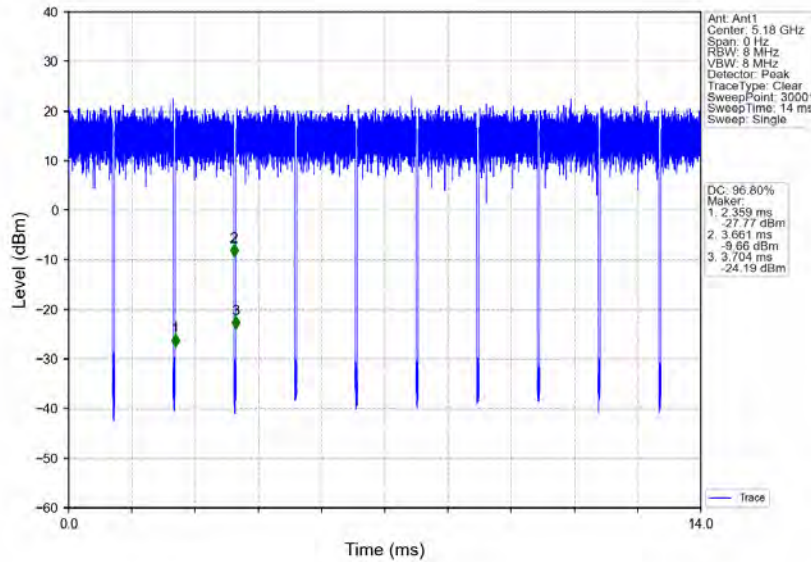
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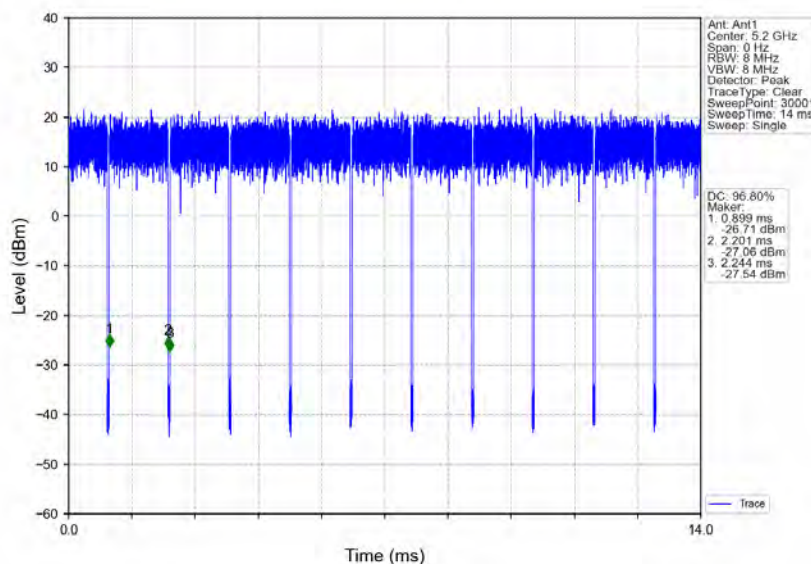
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



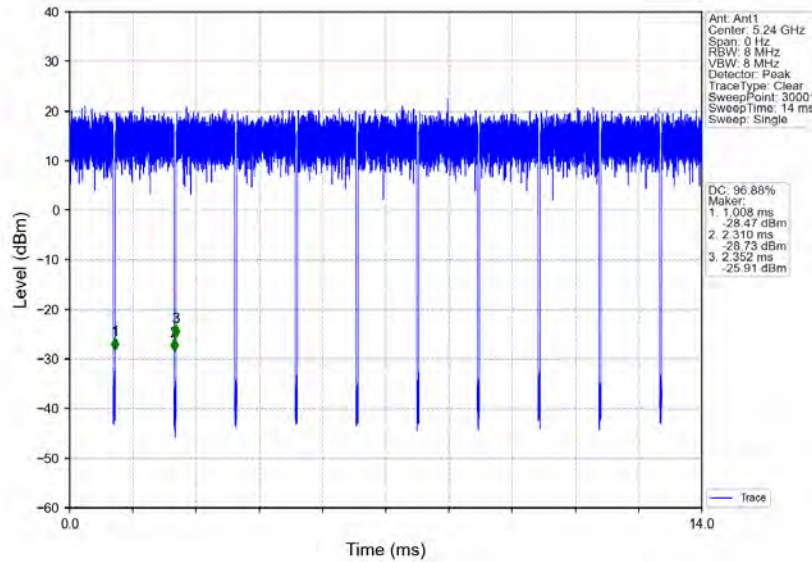
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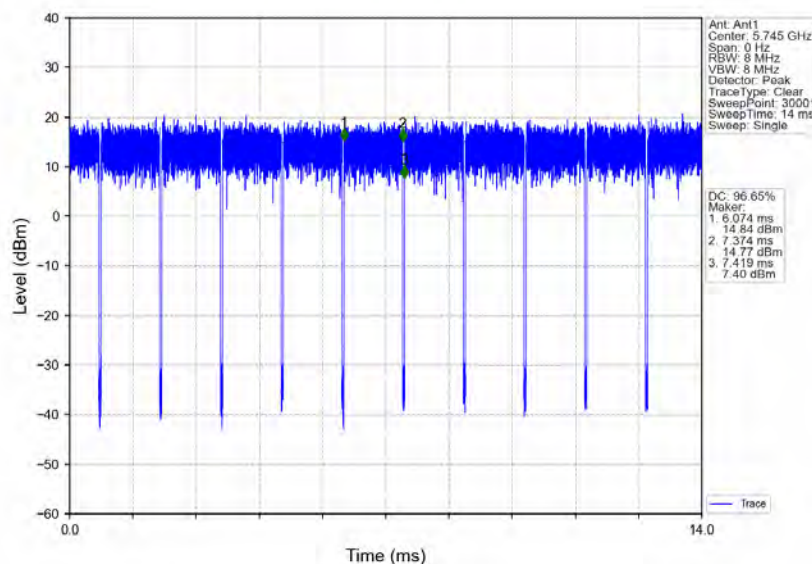
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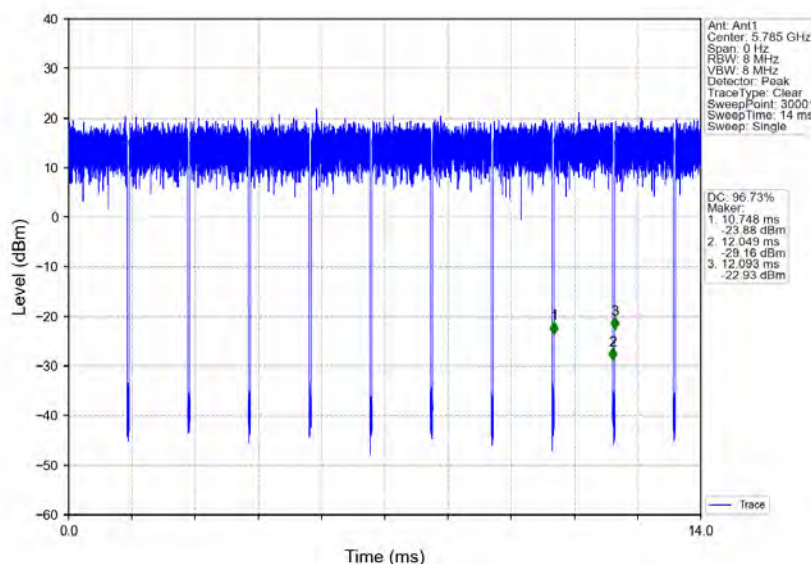
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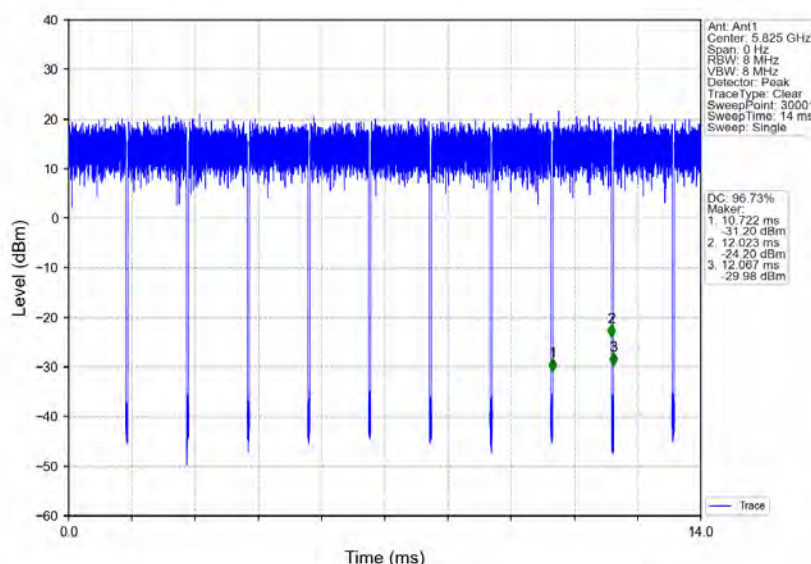
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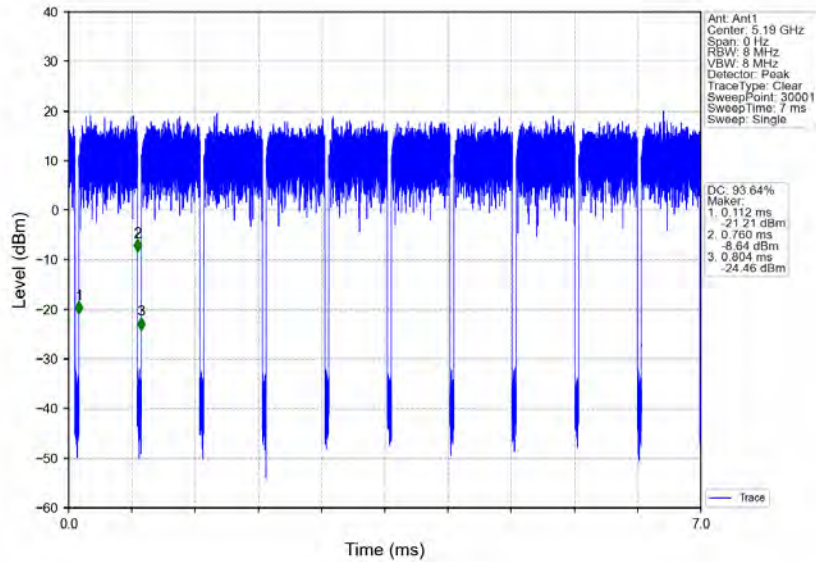
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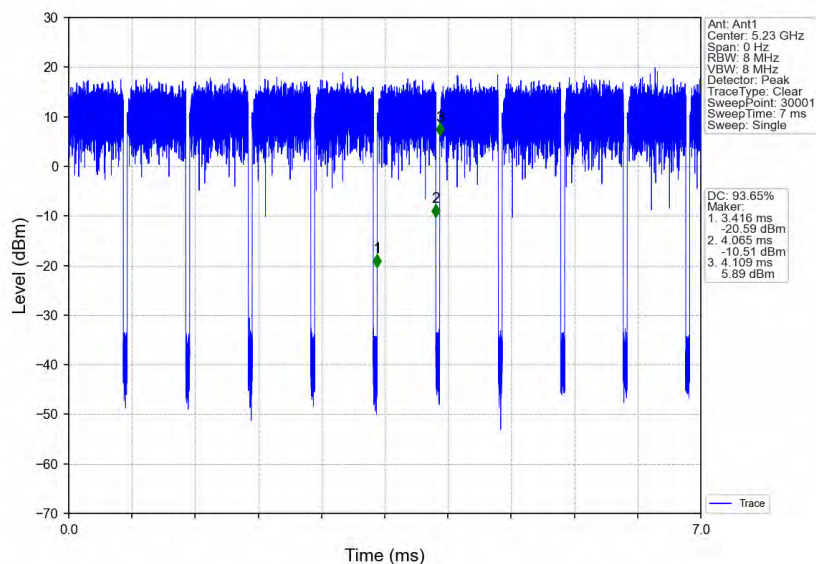
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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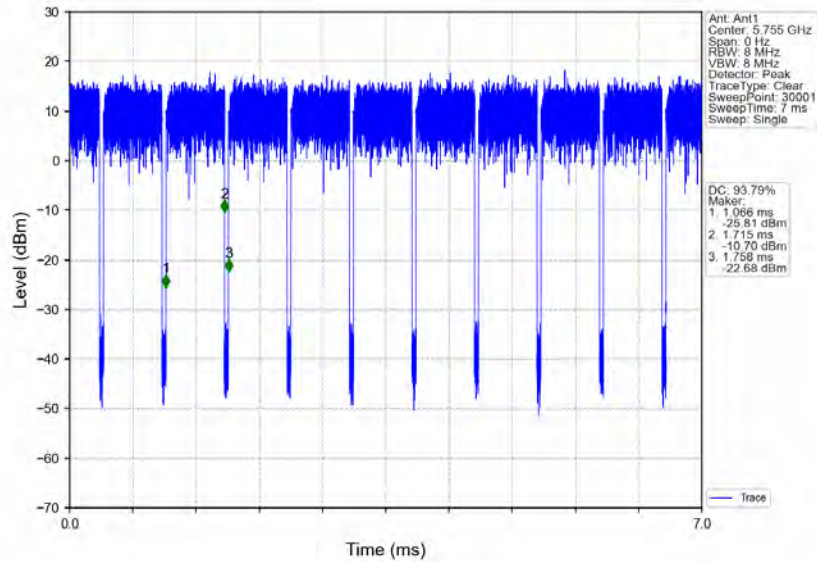
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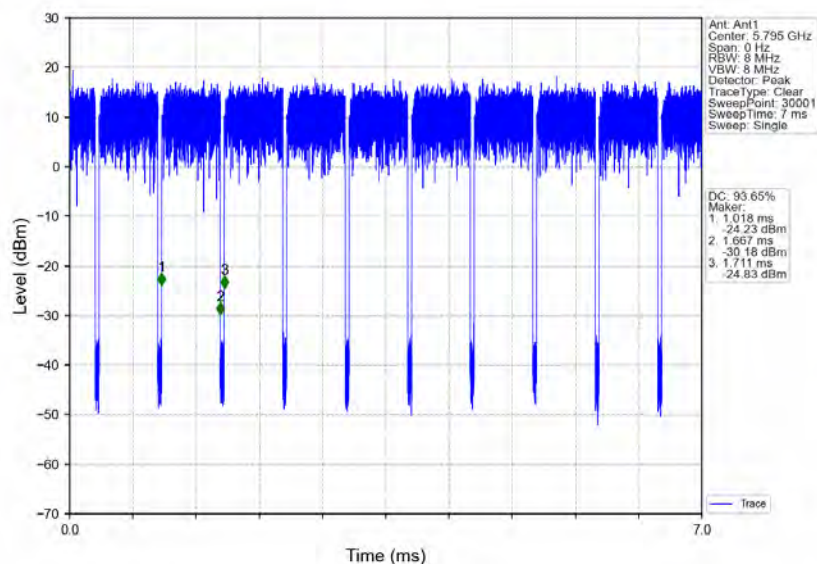
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



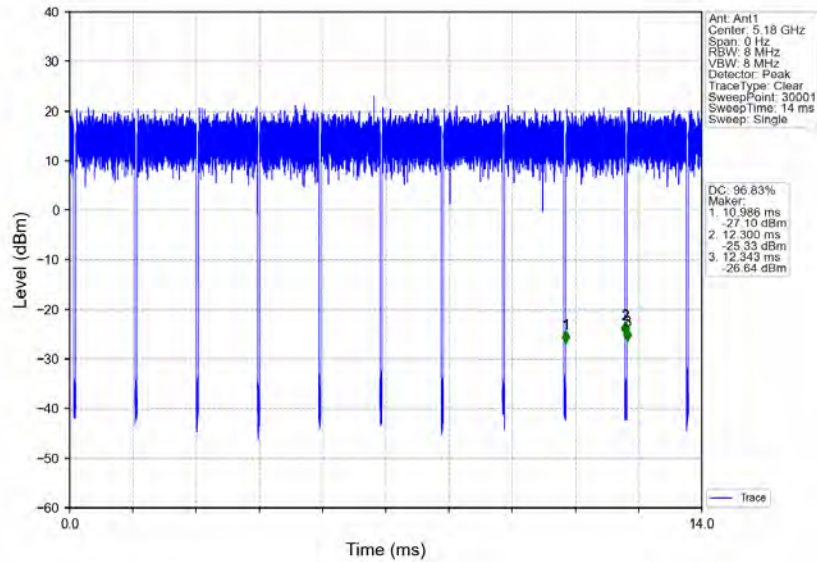
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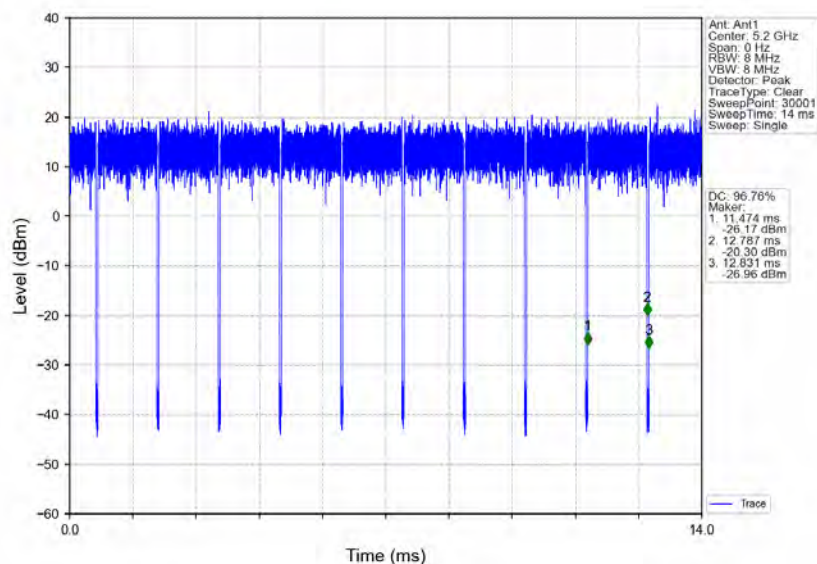
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



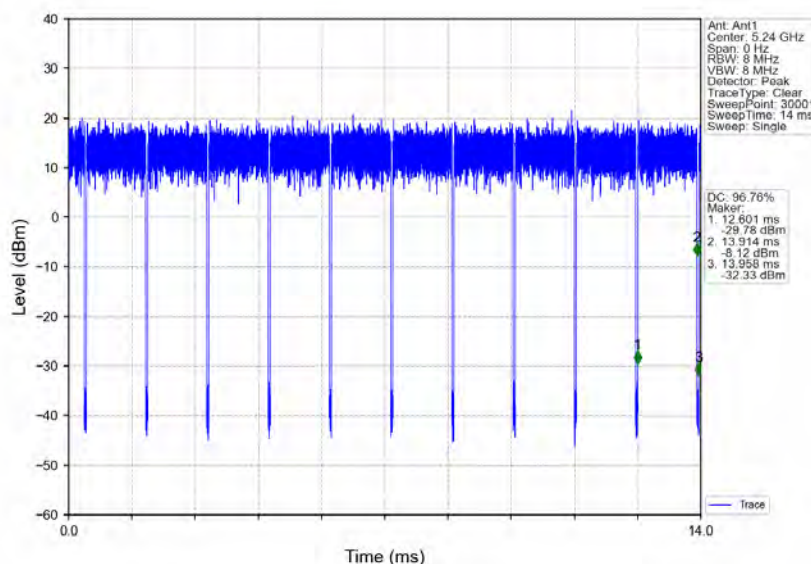
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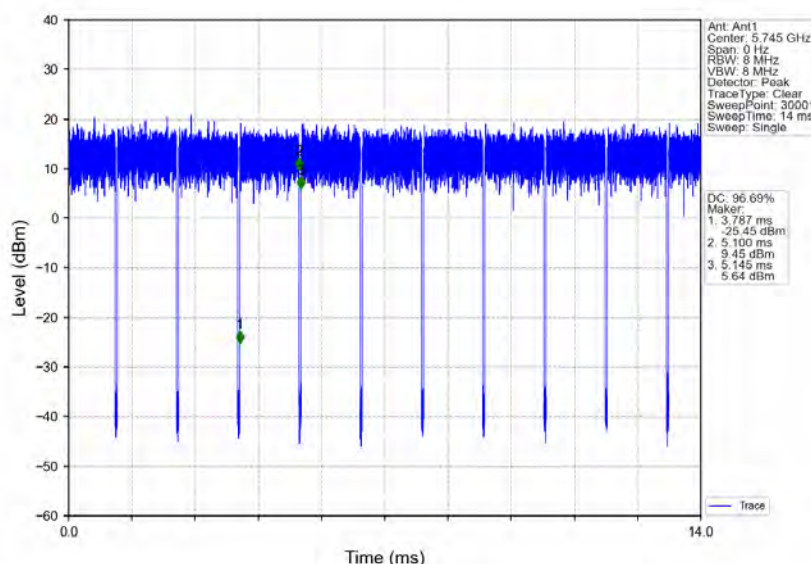
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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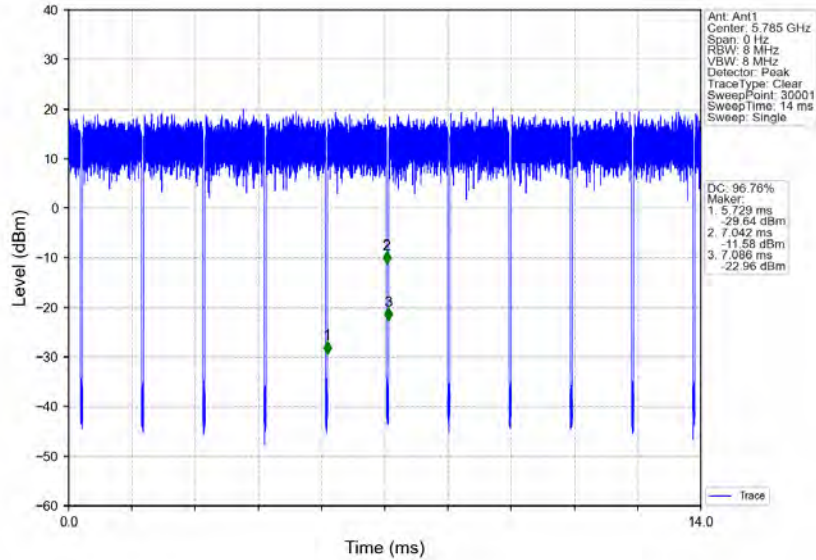
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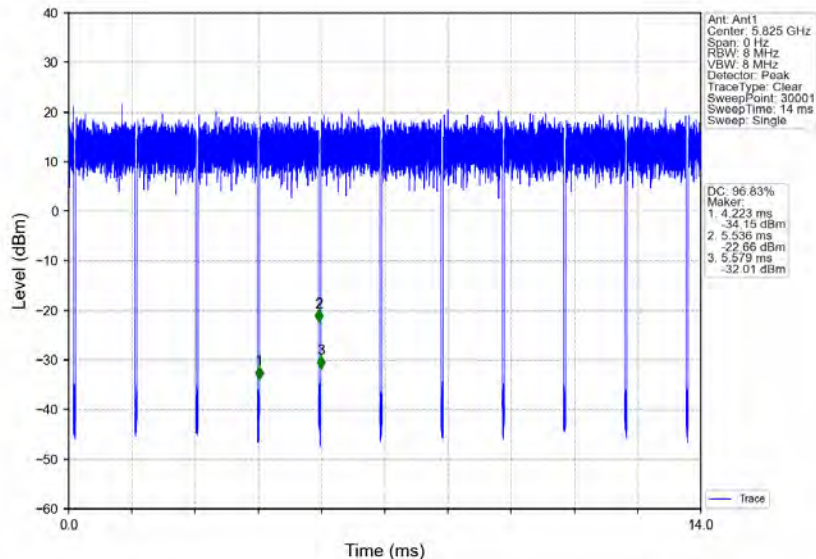
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



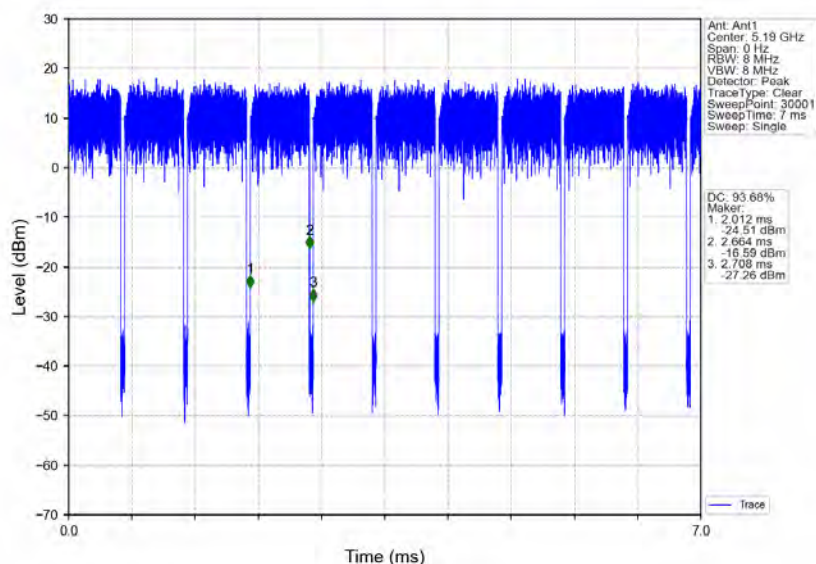
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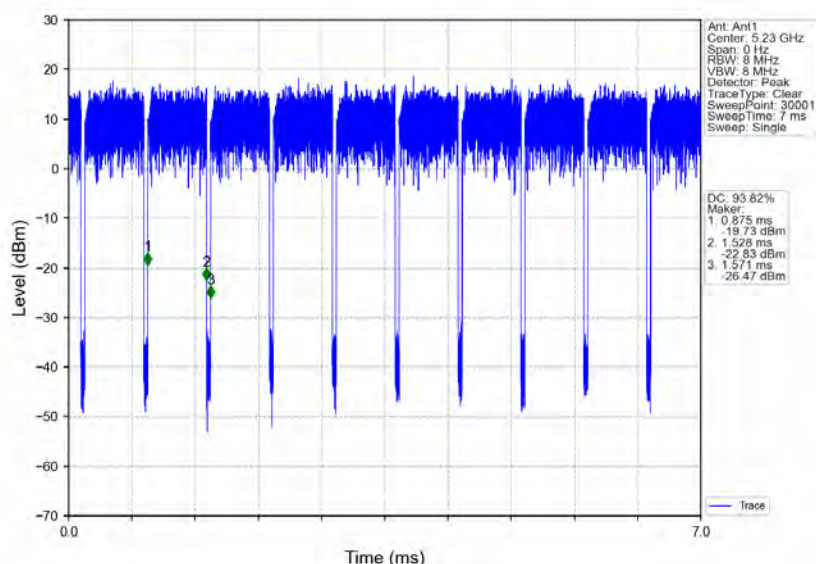
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



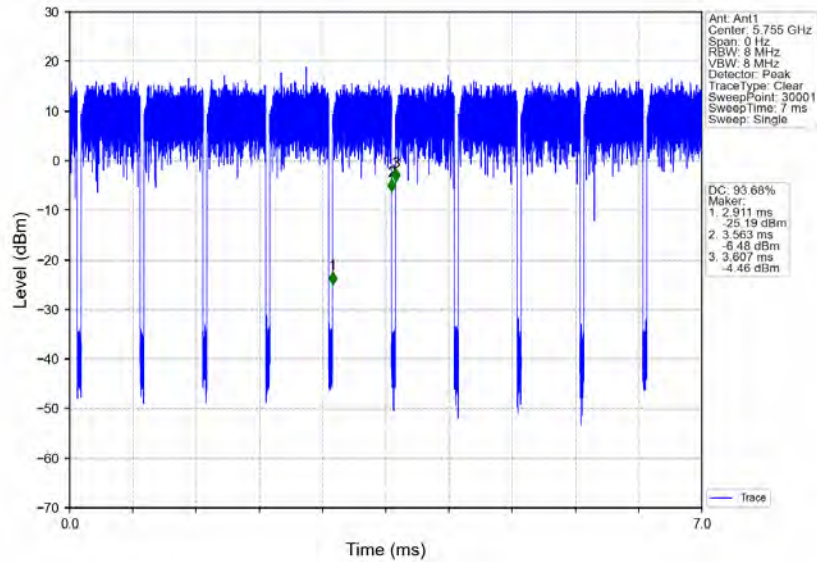
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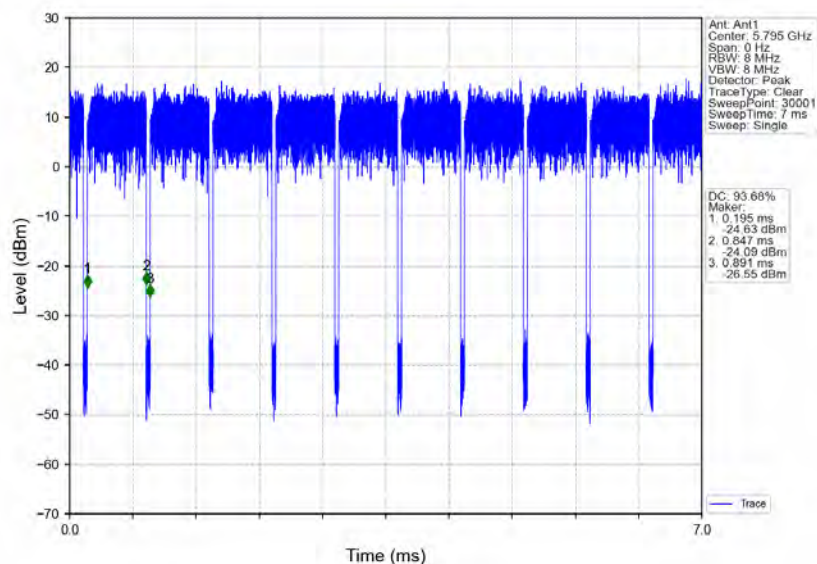
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



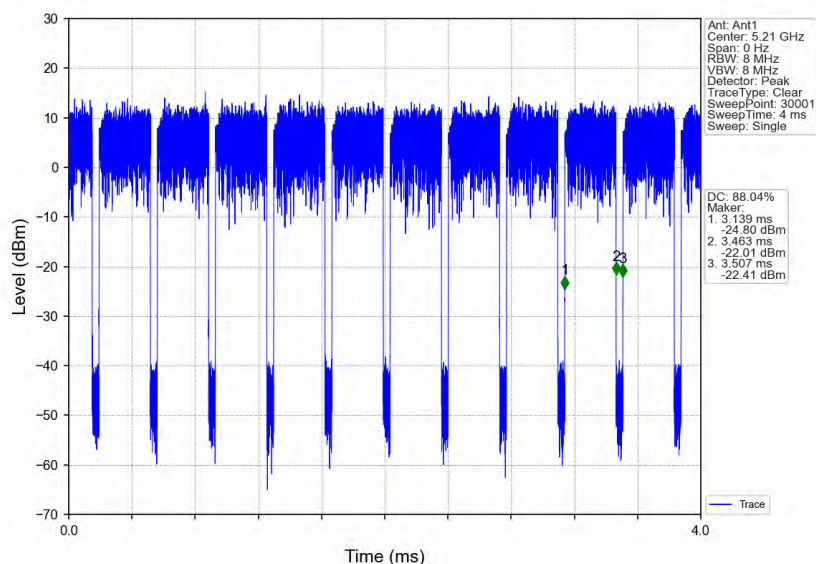
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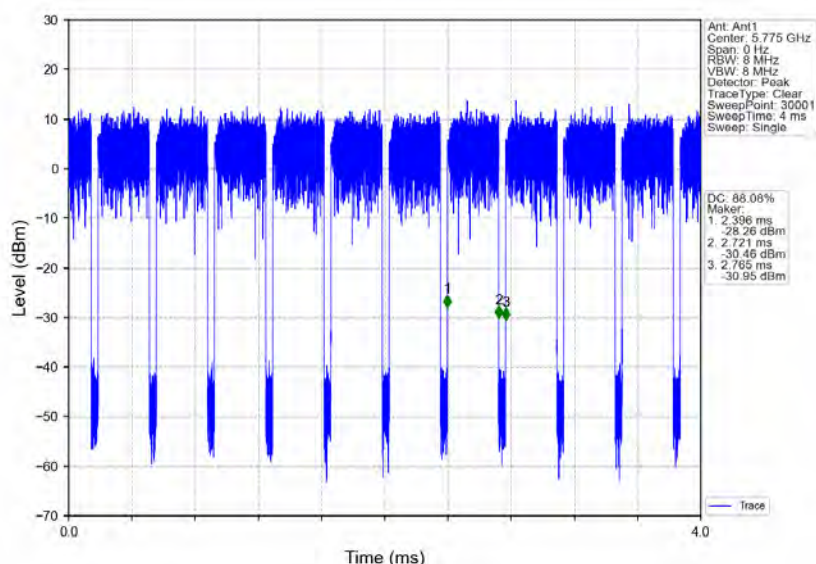
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	17.278	Pass
		5200	1	17.147	Pass
		5240	1	17.212	Pass
		5745	1	17.282	Pass
		5785	1	17.176	Pass
		5825	1	17.209	Pass
802.11n (HT20)	SISO	5180	1	18.290	Pass
		5200	1	18.295	Pass
		5240	1	18.244	Pass
		5745	1	18.307	Pass
		5785	1	18.235	Pass
		5825	1	18.252	Pass
802.11n (HT40)	SISO	5190	1	36.341	Pass
		5230	1	36.403	Pass
		5755	1	36.490	Pass
		5795	1	36.624	Pass
802.11ac (VHT20)	SISO	5180	1	18.026	Pass
		5200	1	18.095	Pass
		5240	1	17.998	Pass
		5745	1	18.088	Pass
		5785	1	18.054	Pass
		5825	1	18.011	Pass
802.11ac (VHT40)	SISO	5190	1	36.103	Pass
		5230	1	36.067	Pass
		5755	1	36.185	Pass
		5795	1	36.223	Pass
802.11ac (VHT80)	SISO	5210	1	75.404	Pass
		5775	1	75.636	Pass



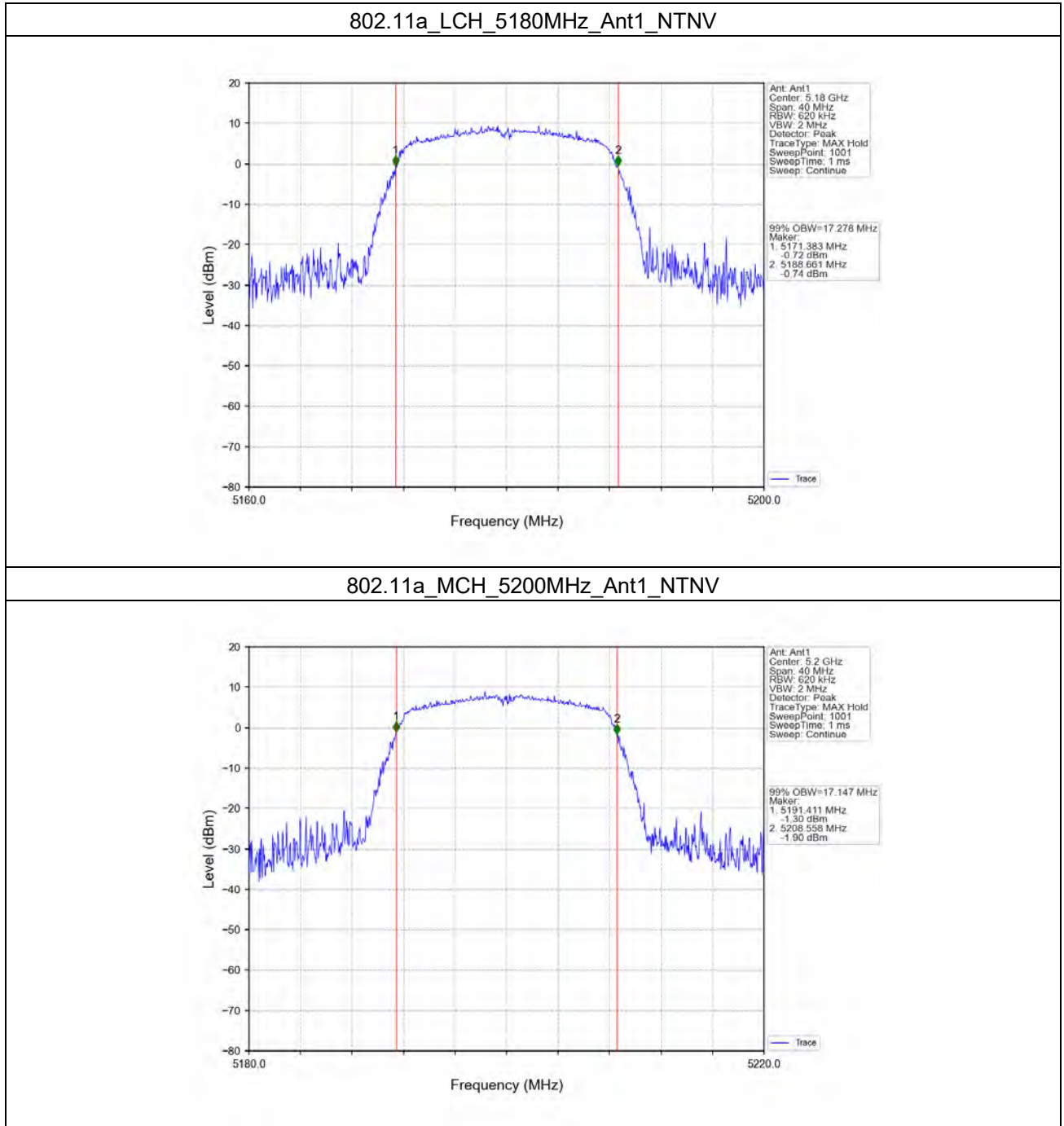
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2.1.2 Test Graph



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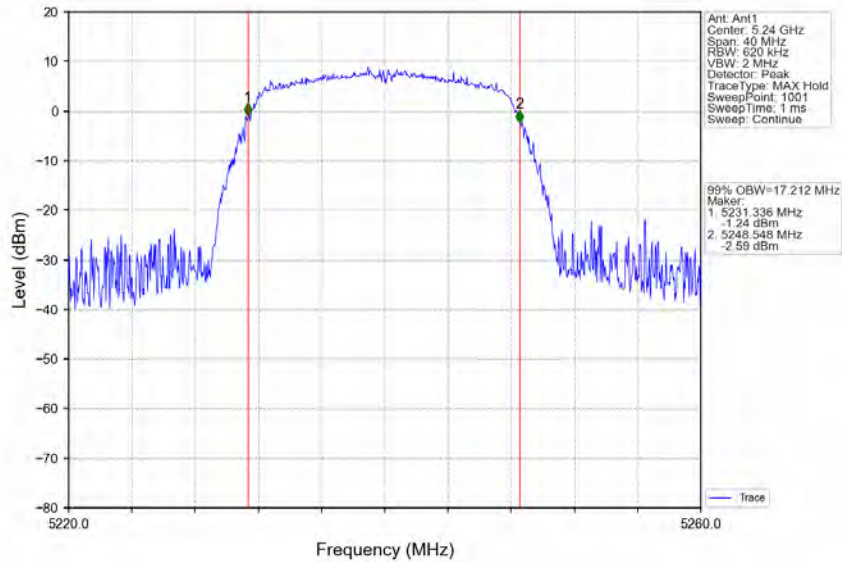
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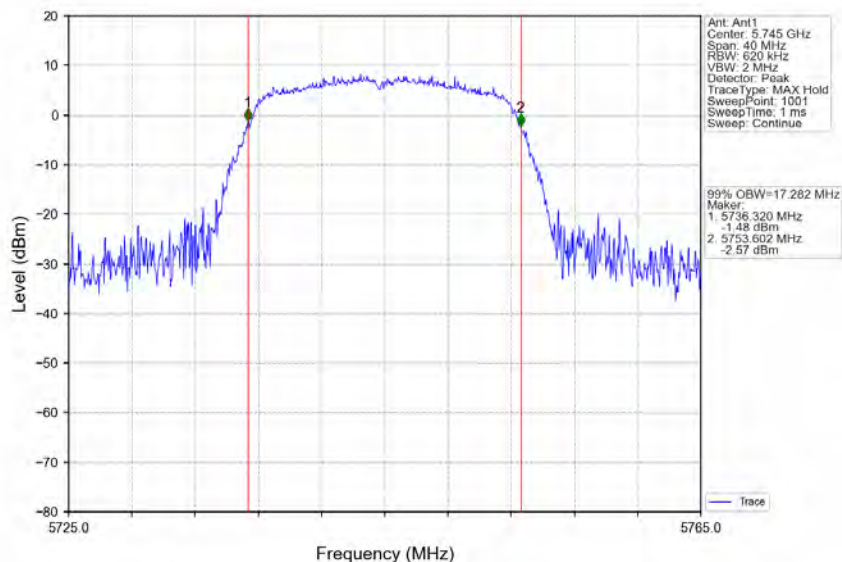
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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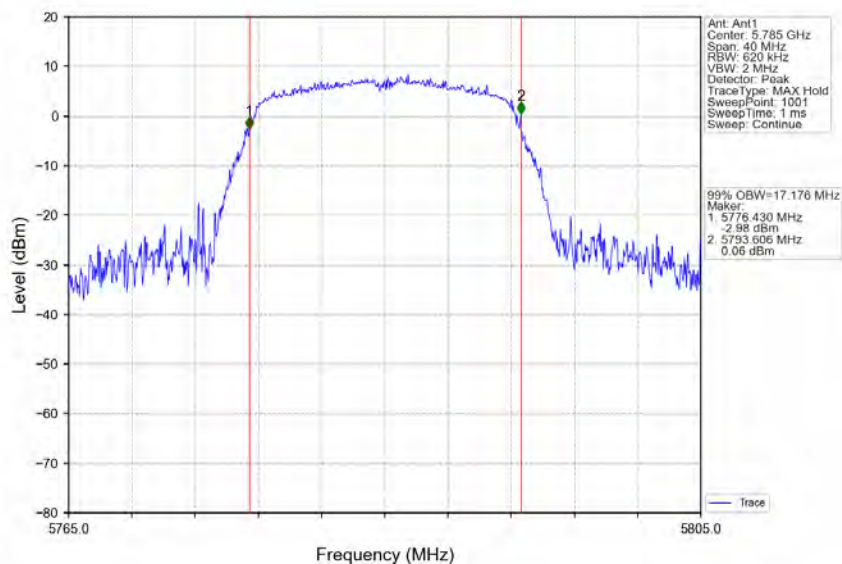
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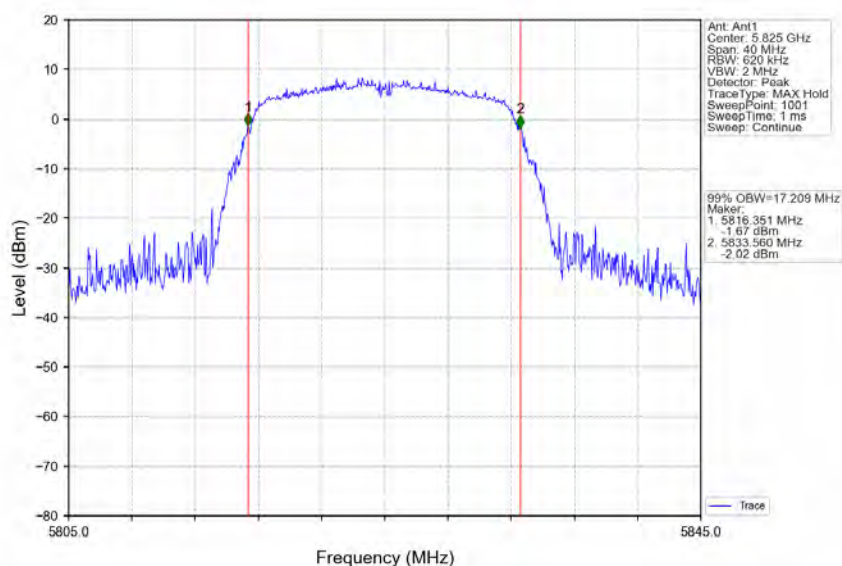
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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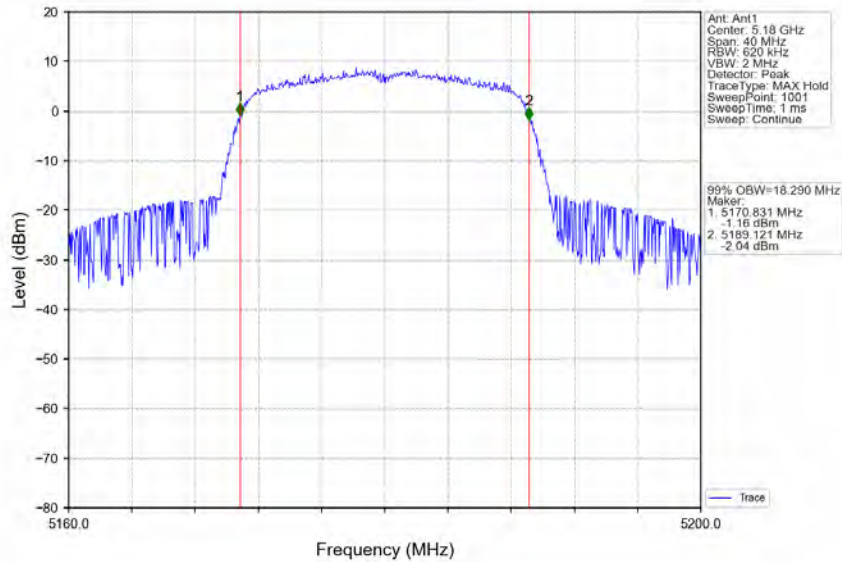
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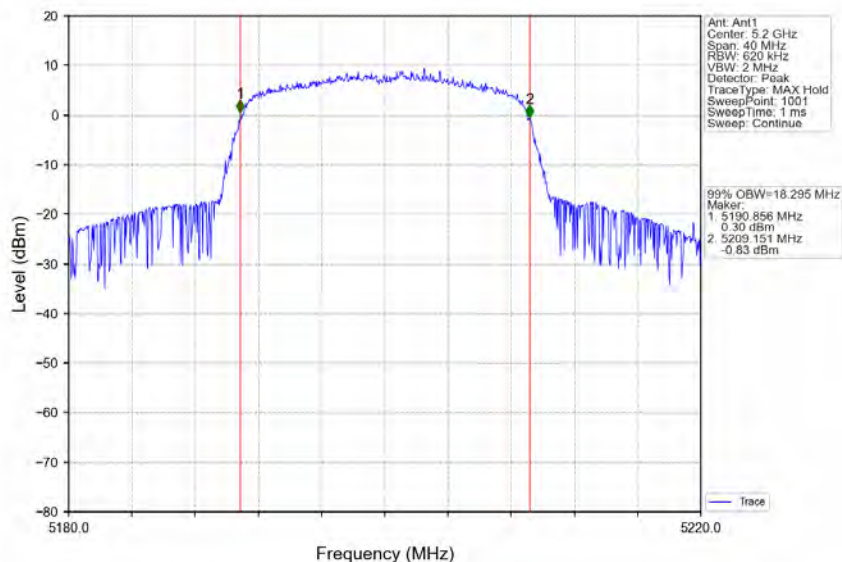
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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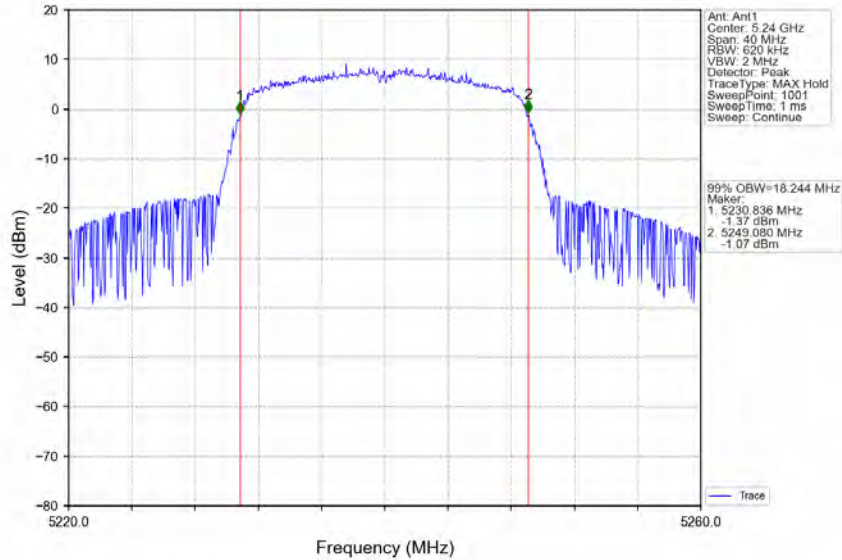
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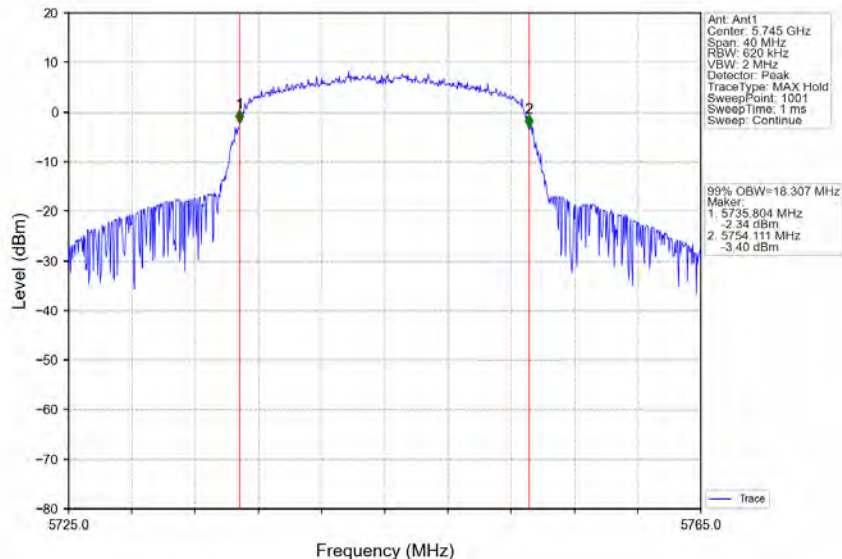
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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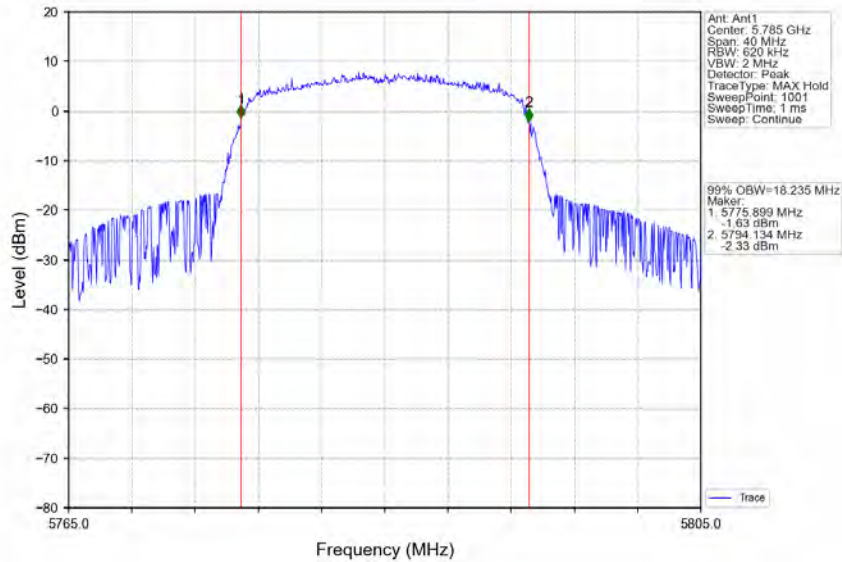
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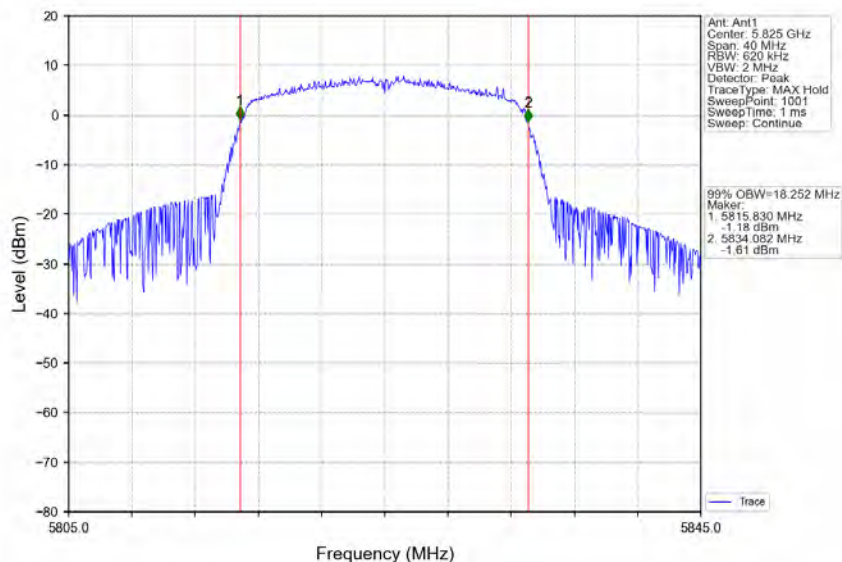
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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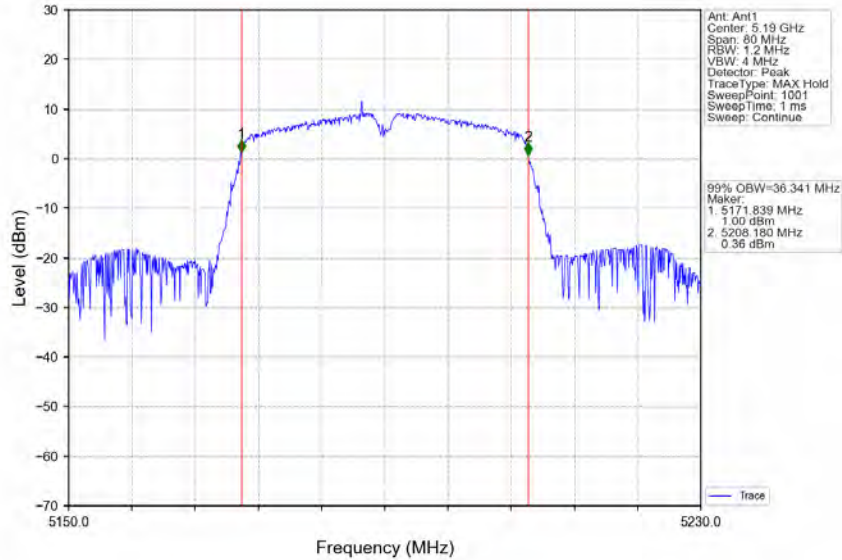
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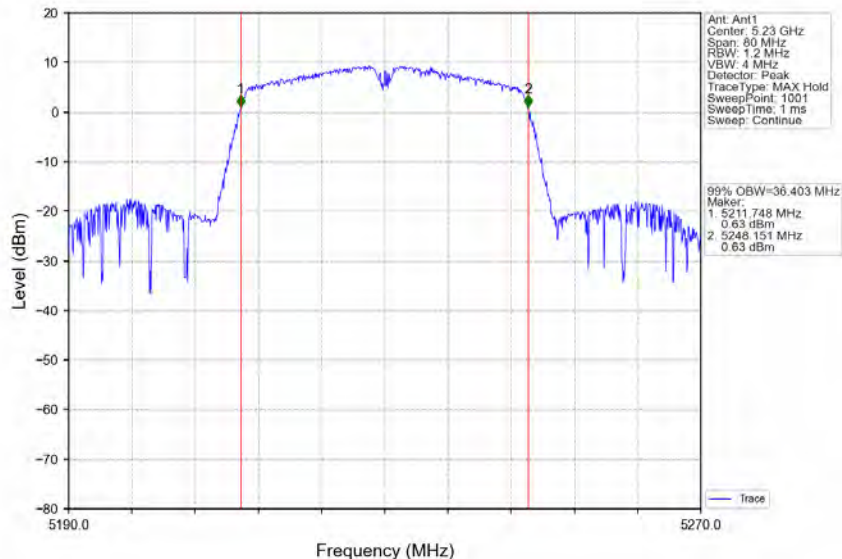
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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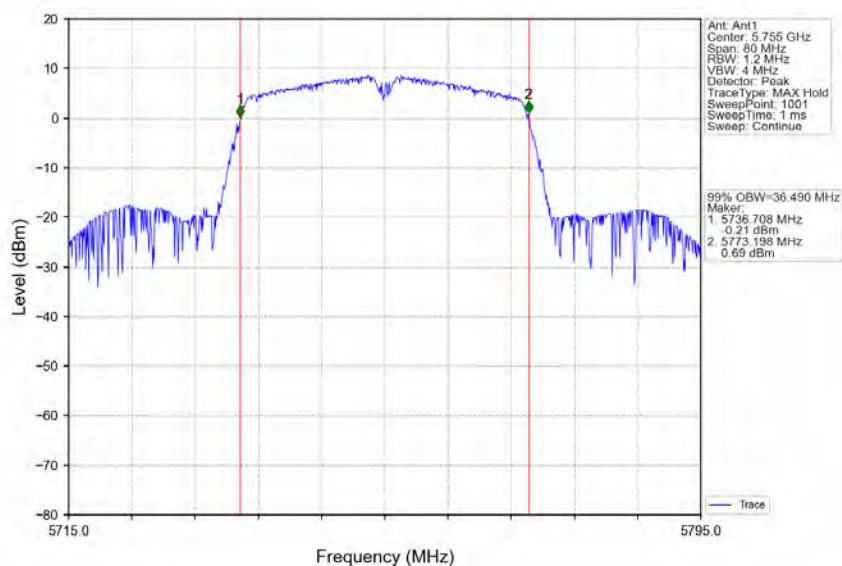
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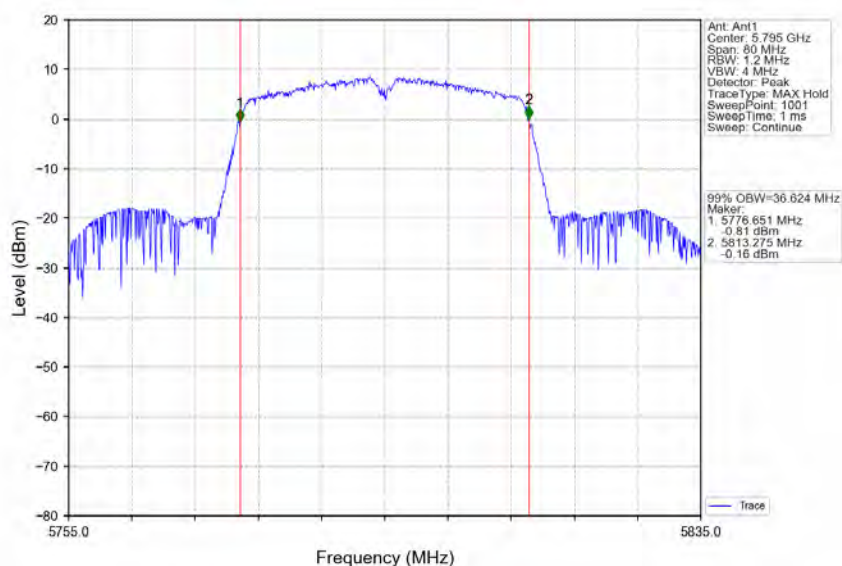
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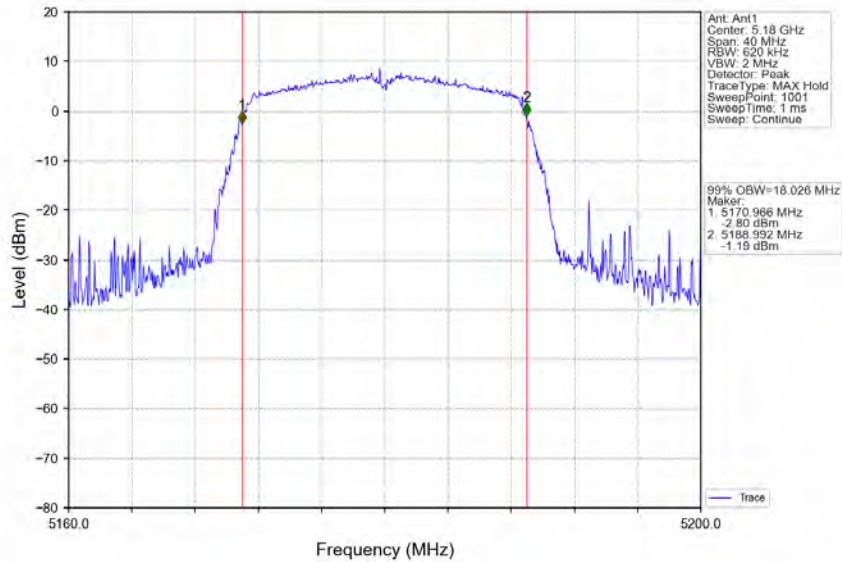
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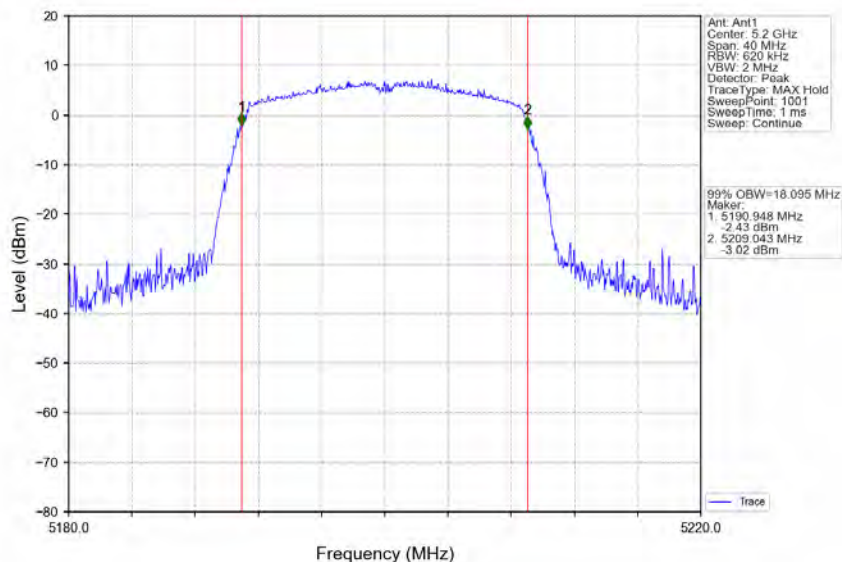
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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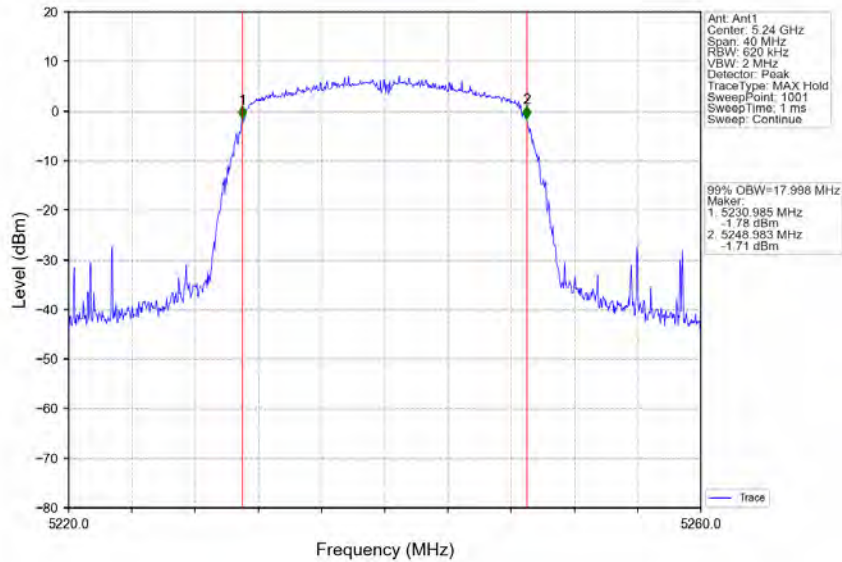
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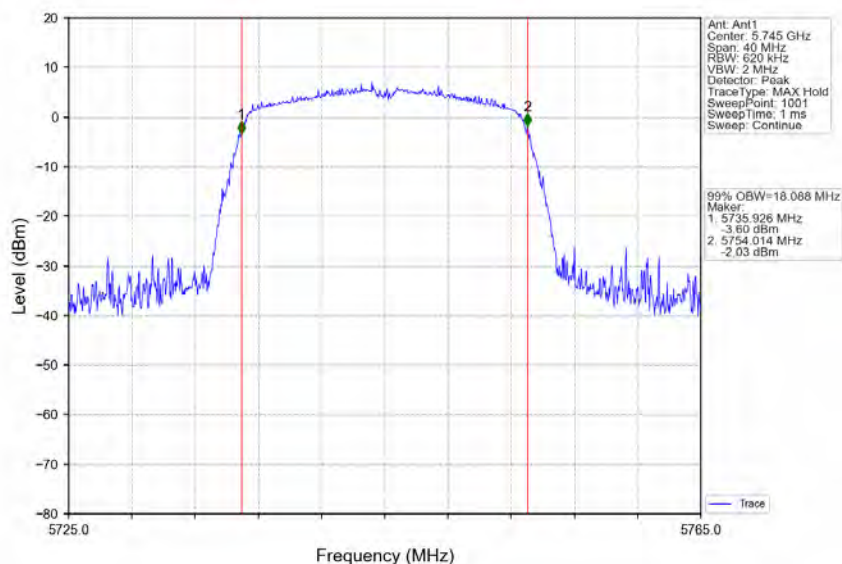
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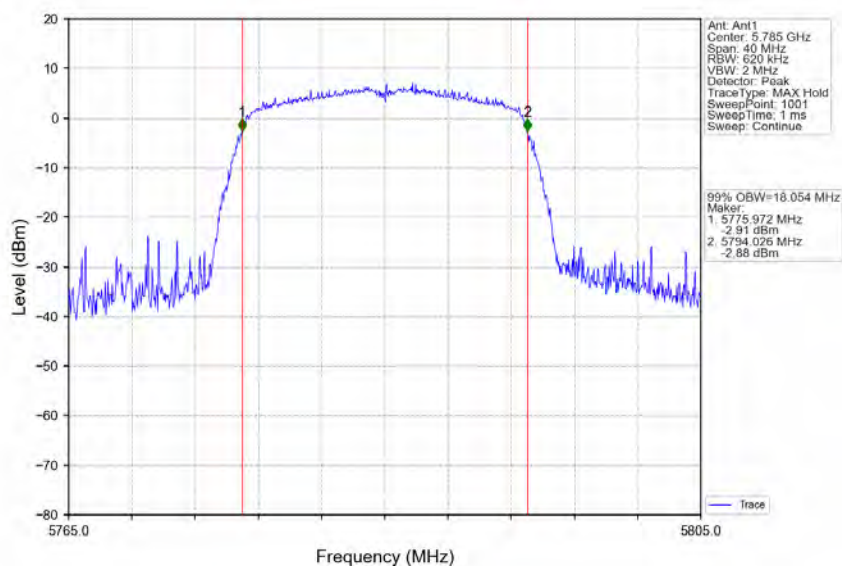
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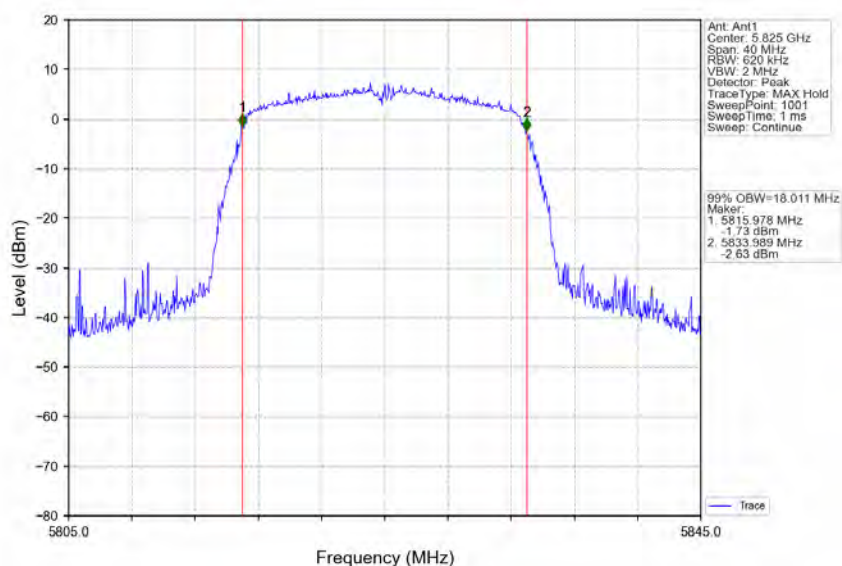
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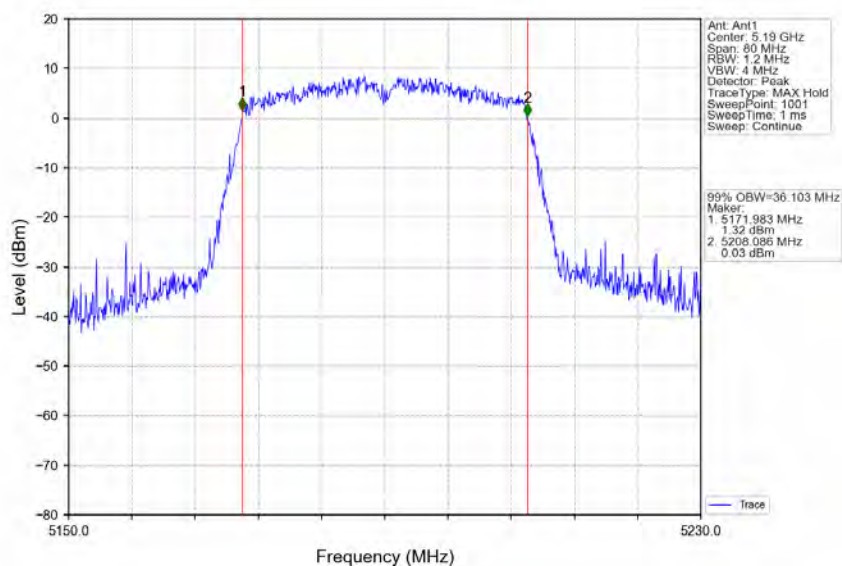
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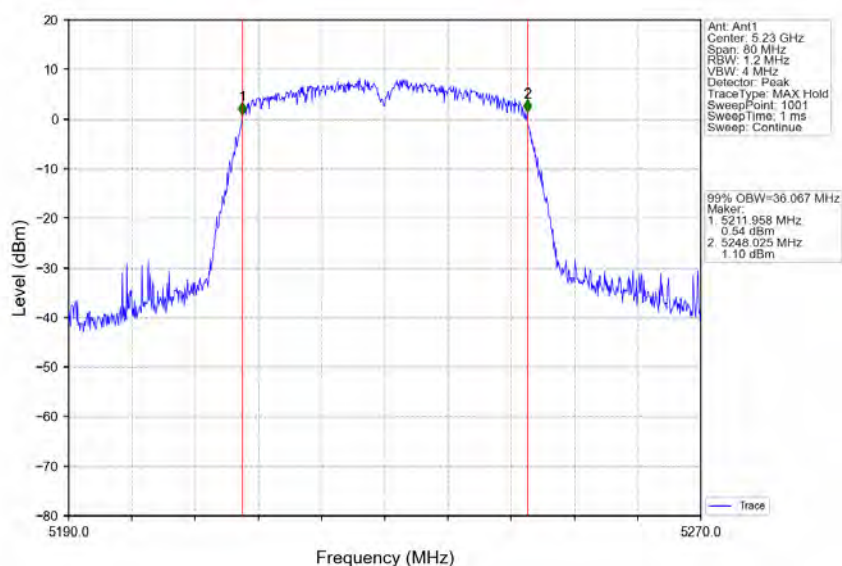
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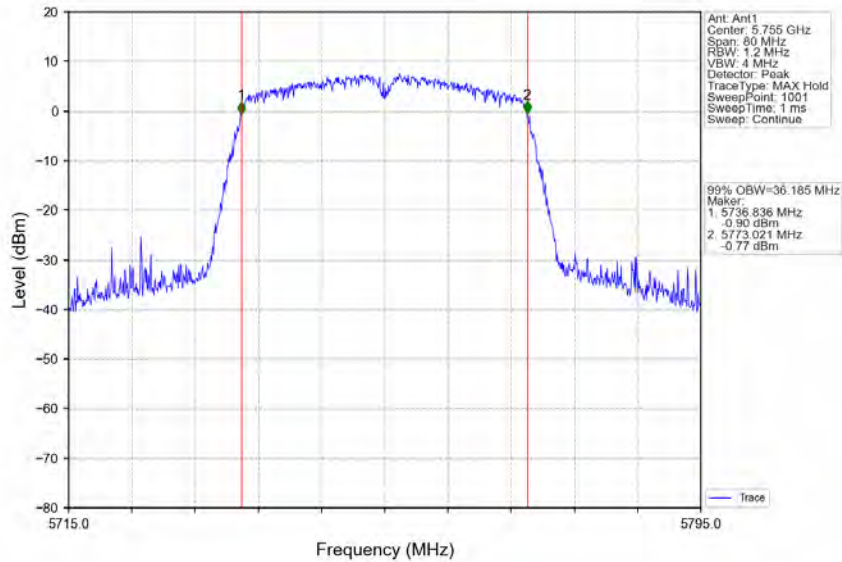
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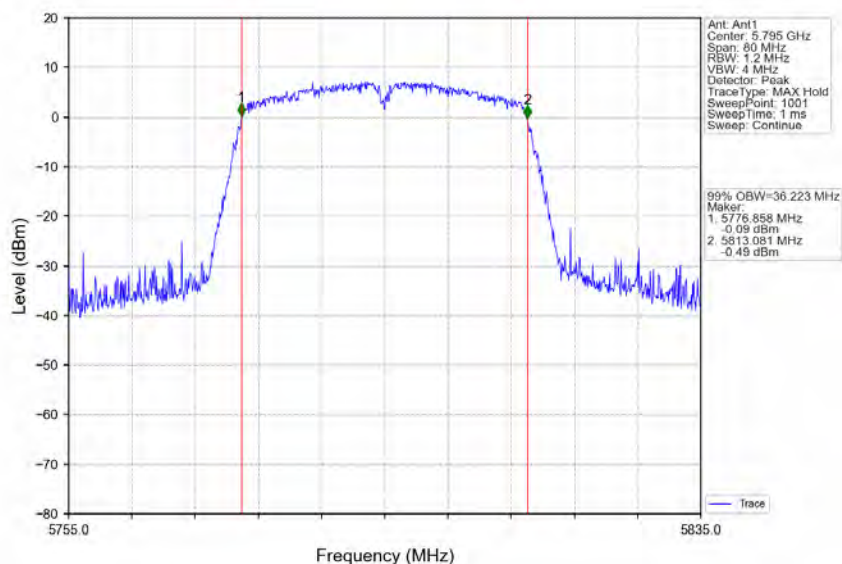
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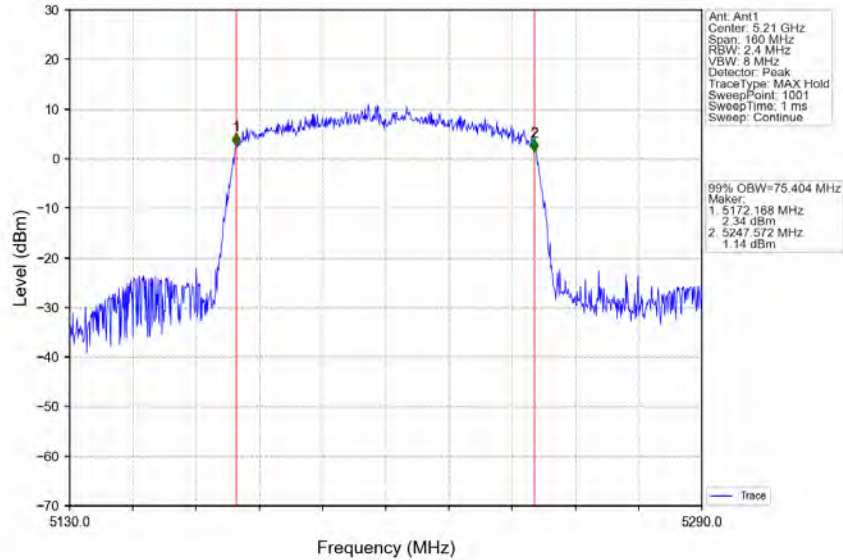
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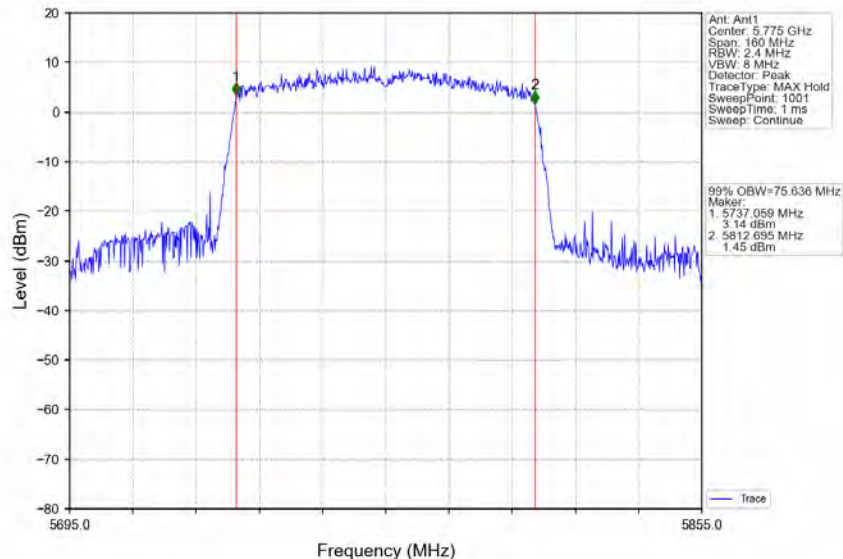
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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Report No.: KSCR221000185704

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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.171	≥ 0.5	Pass
		5785	1	14.448	≥ 0.5	Pass
		5825	1	14.081	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.086	≥ 0.5	Pass
		5785	1	15.152	≥ 0.5	Pass
		5825	1	15.156	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	33.917	≥ 0.5	Pass
		5795	1	35.140	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.121	≥ 0.5	Pass
		5785	1	13.169	≥ 0.5	Pass
		5825	1	15.744	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.133	≥ 0.5	Pass
		5795	1	35.171	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.163	≥ 0.5	Pass



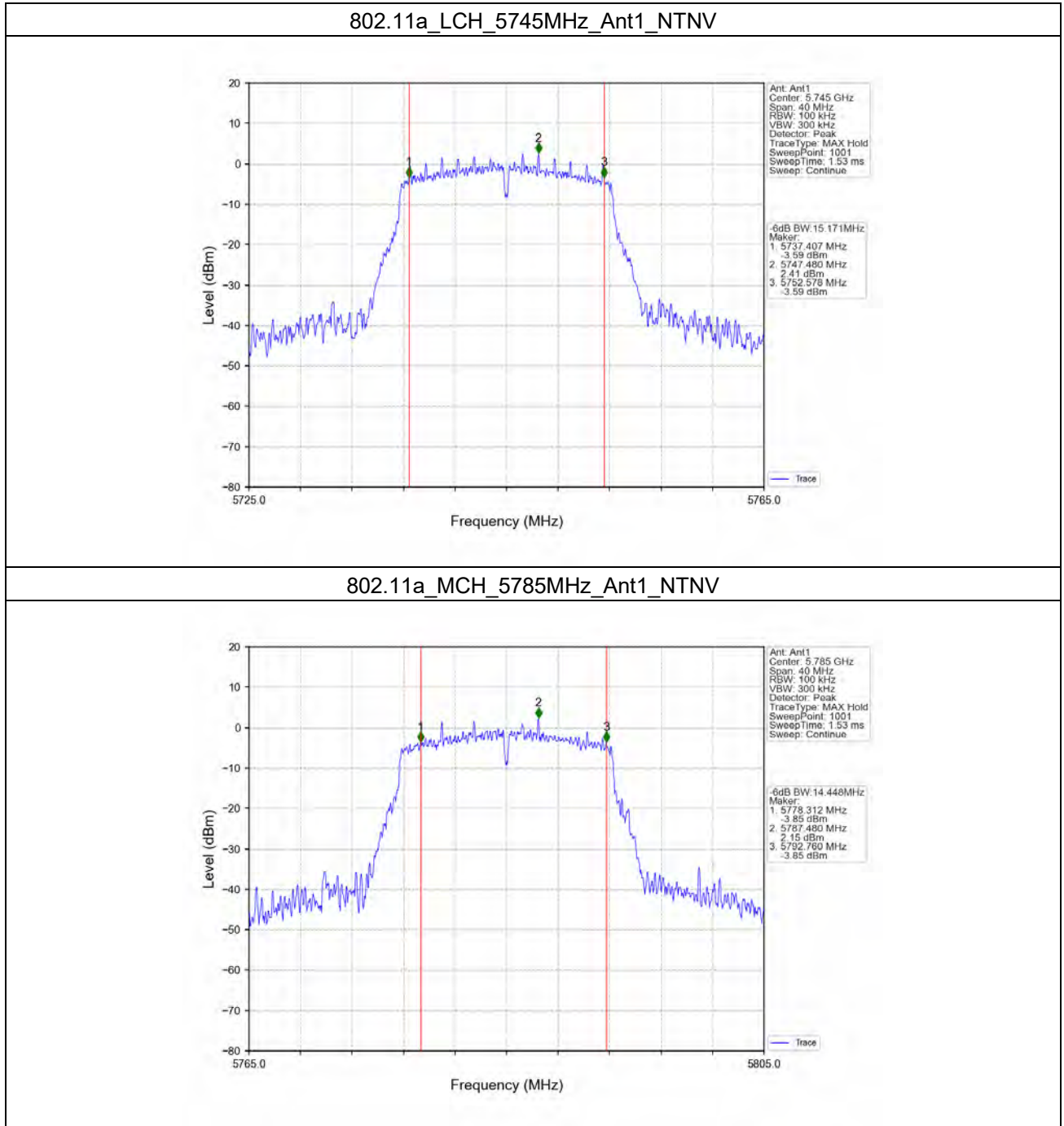
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2.2.2 Test Graph



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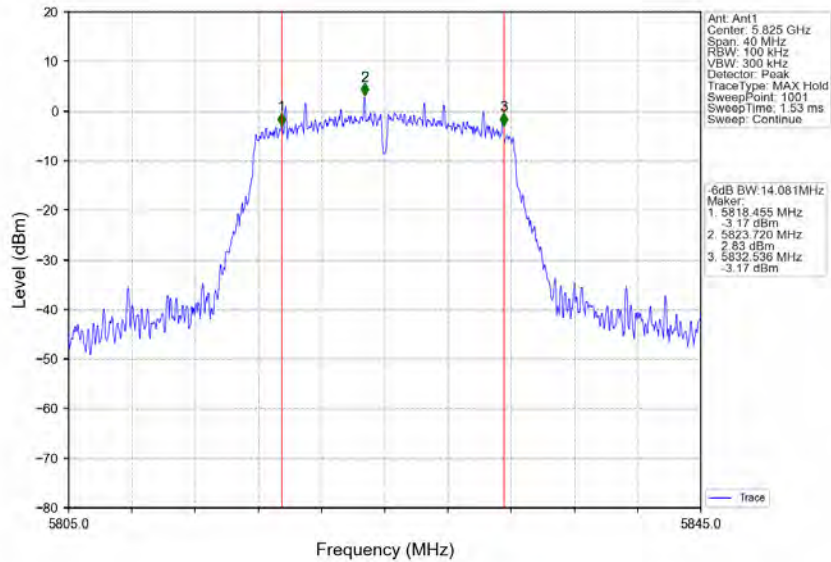
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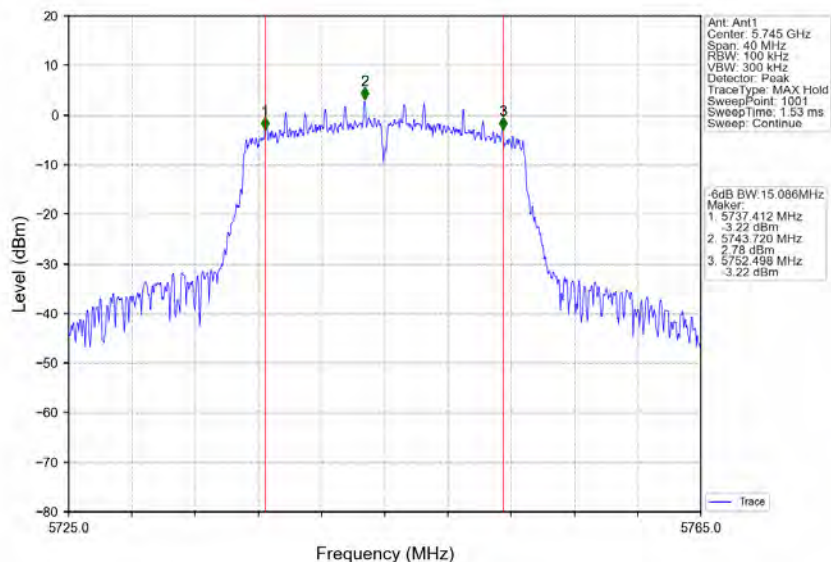
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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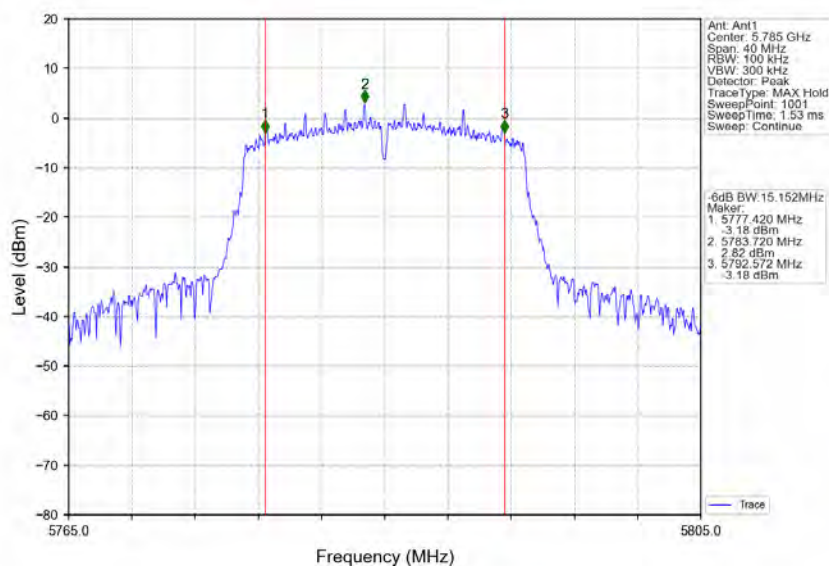
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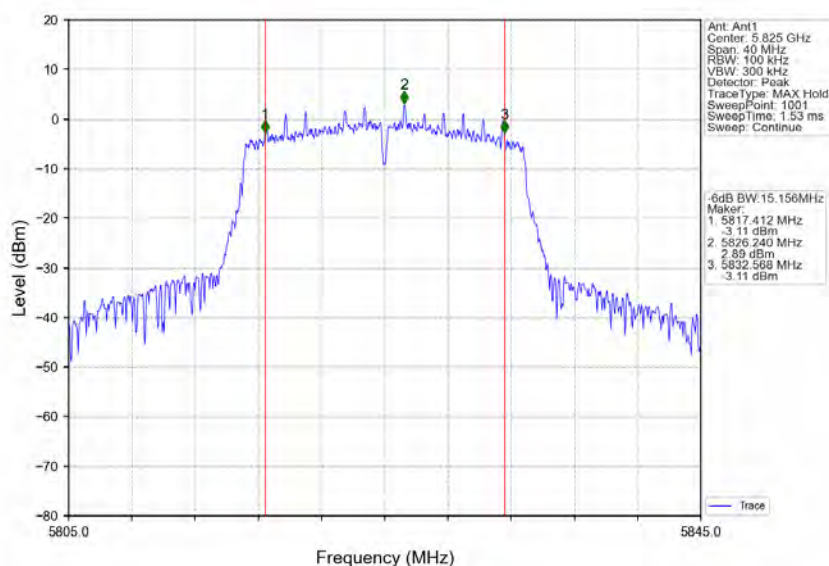
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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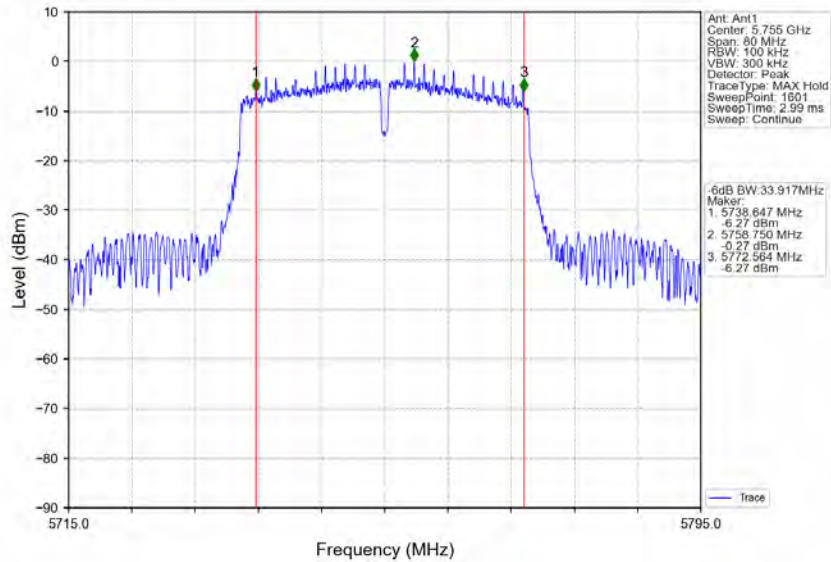
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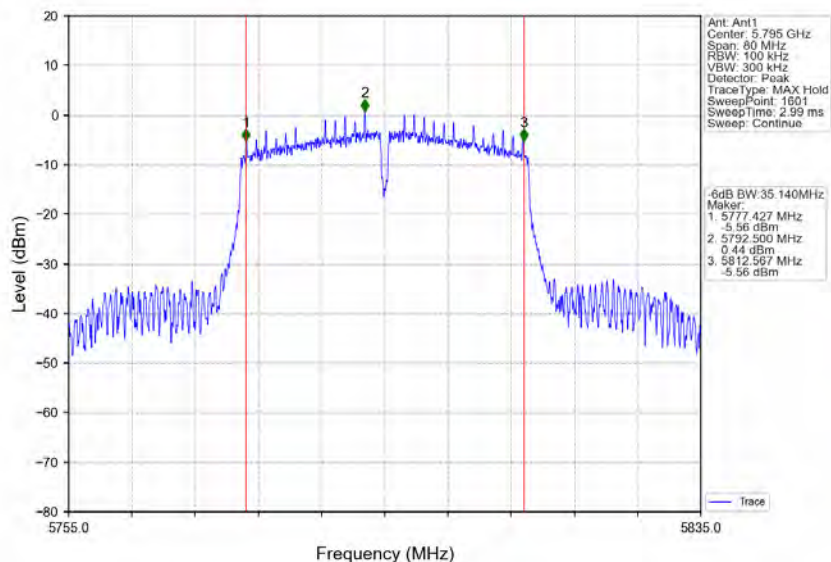
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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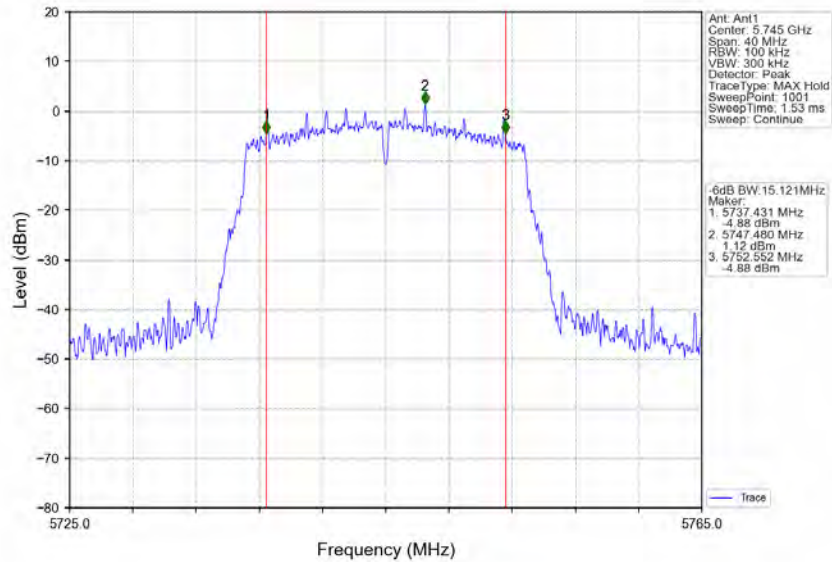
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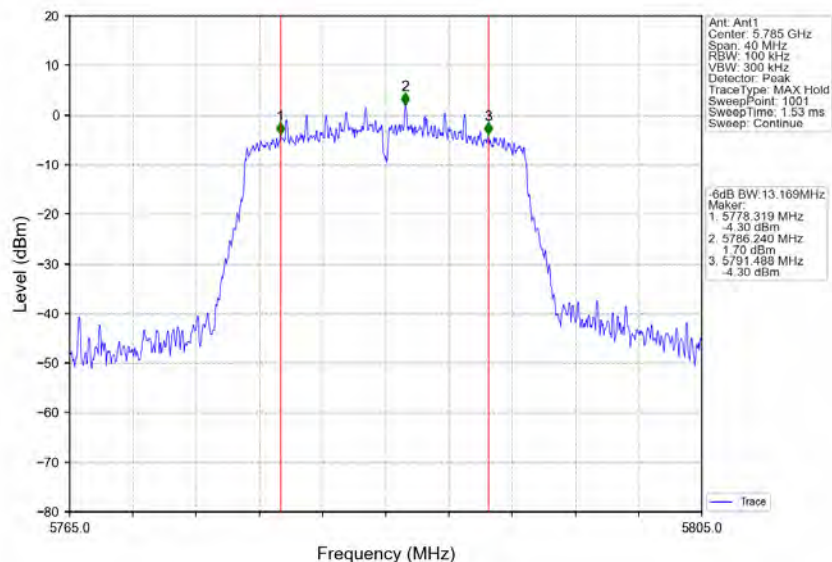
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



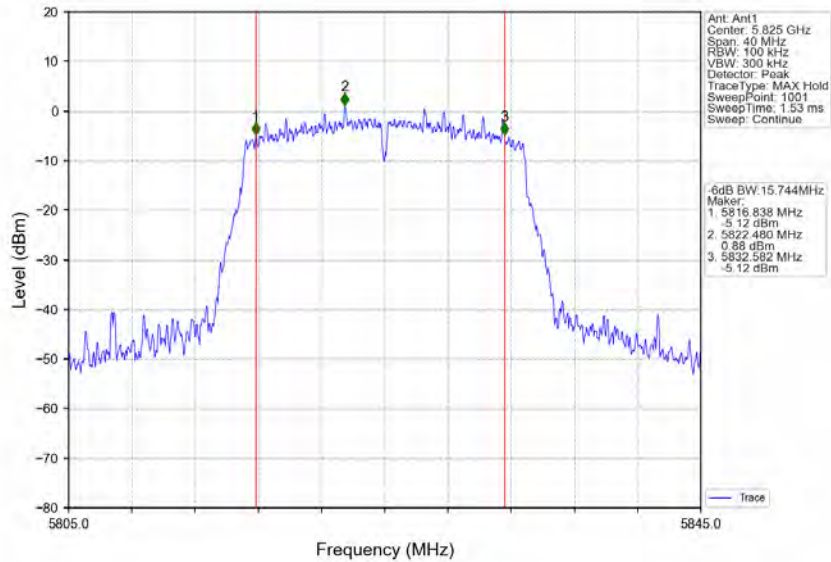
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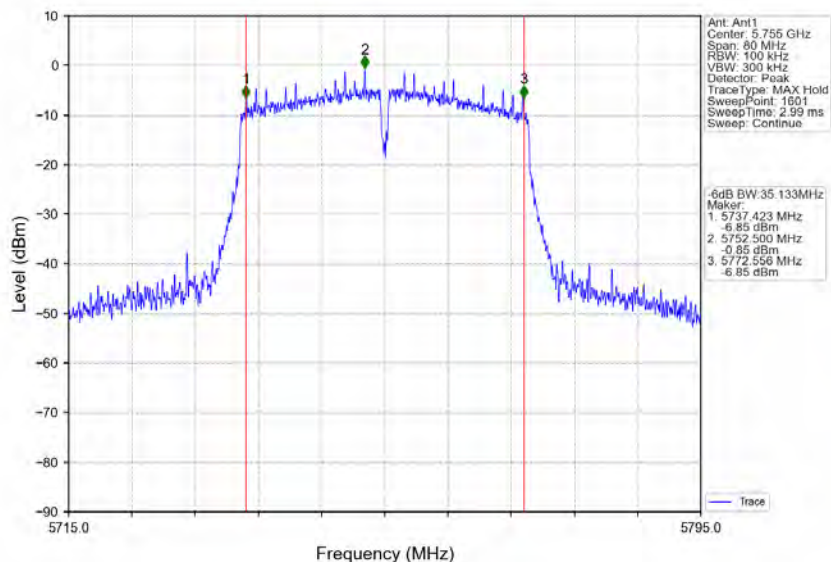
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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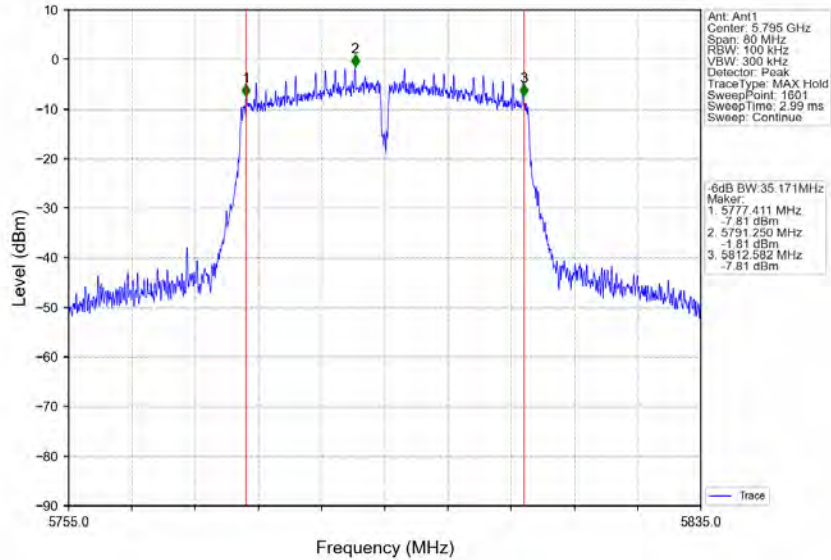
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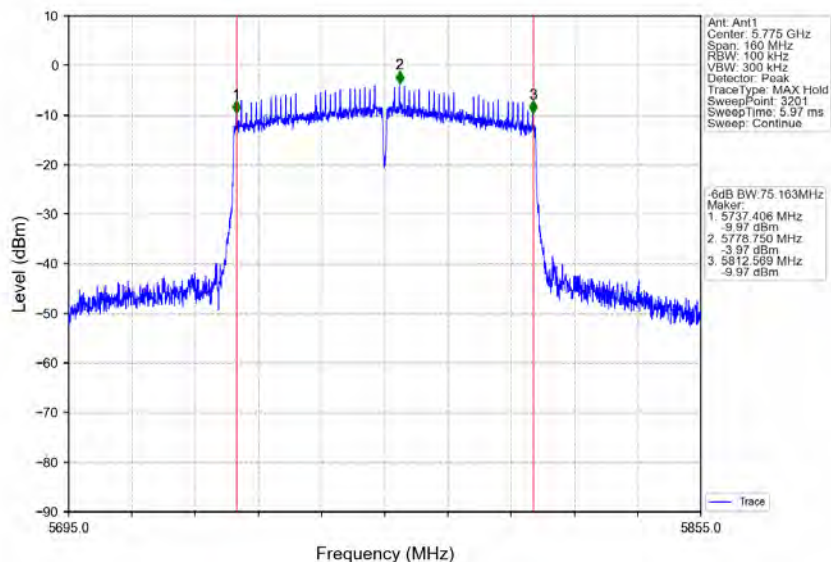
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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Report No.: KSCR221000185704

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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	19.761	Pass
		5200	1	19.745	Pass
		5240	1	19.661	Pass
802.11n (HT20)	SISO	5180	1	20.220	Pass
		5200	1	20.146	Pass
		5240	1	19.987	Pass
802.11n (HT40)	SISO	5190	1	40.477	Pass
		5230	1	40.428	Pass
802.11ac (VHT20)	SISO	5180	1	19.808	Pass
		5200	1	19.929	Pass
		5240	1	19.792	Pass
802.11ac (VHT40)	SISO	5190	1	39.936	Pass
		5230	1	39.999	Pass
802.11ac (VHT80)	SISO	5210	1	80.471	Pass



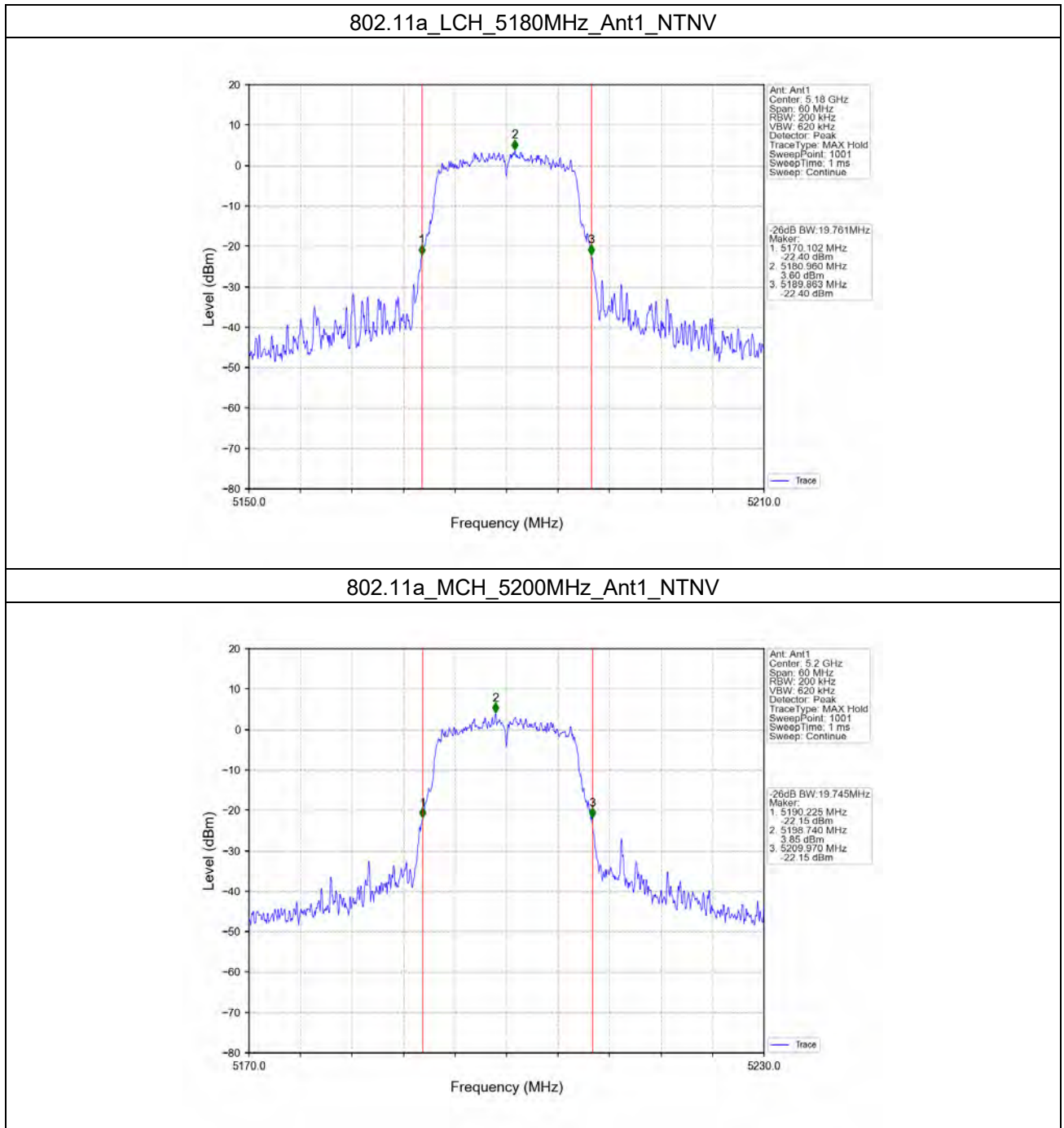
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2.3.2 Test Graph



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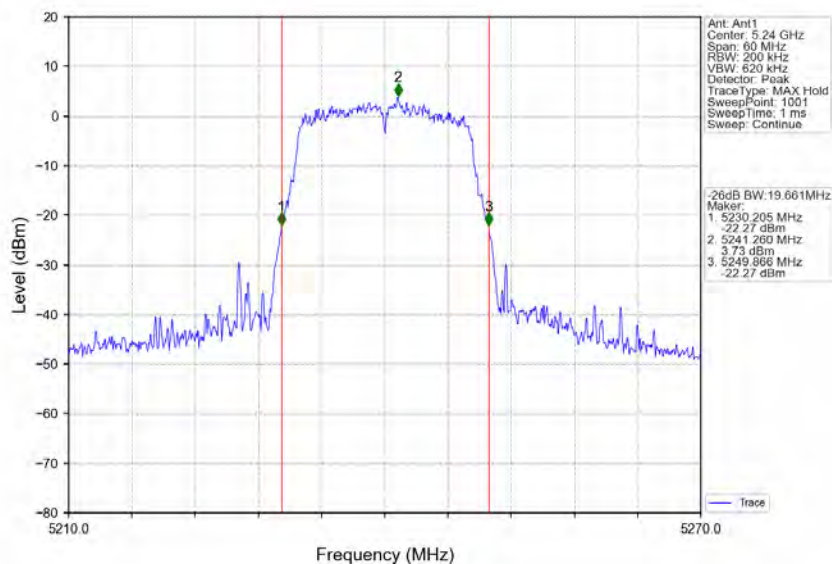
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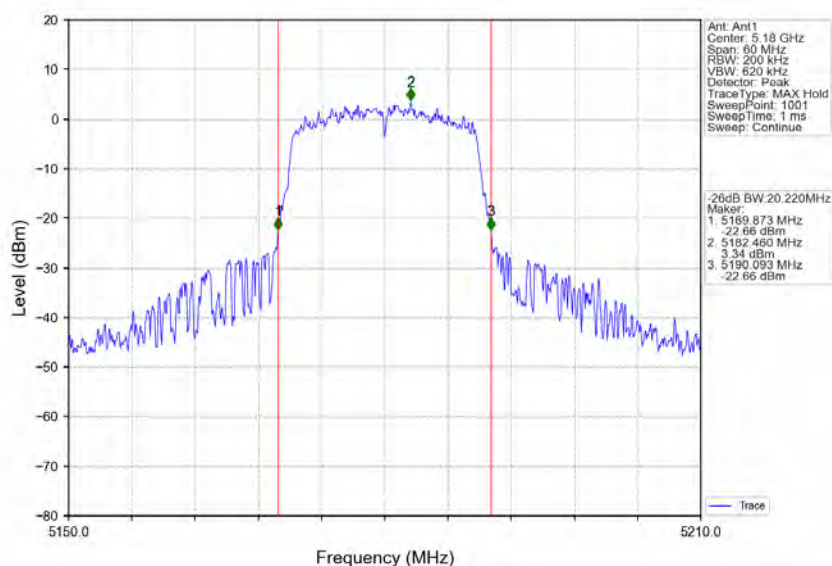
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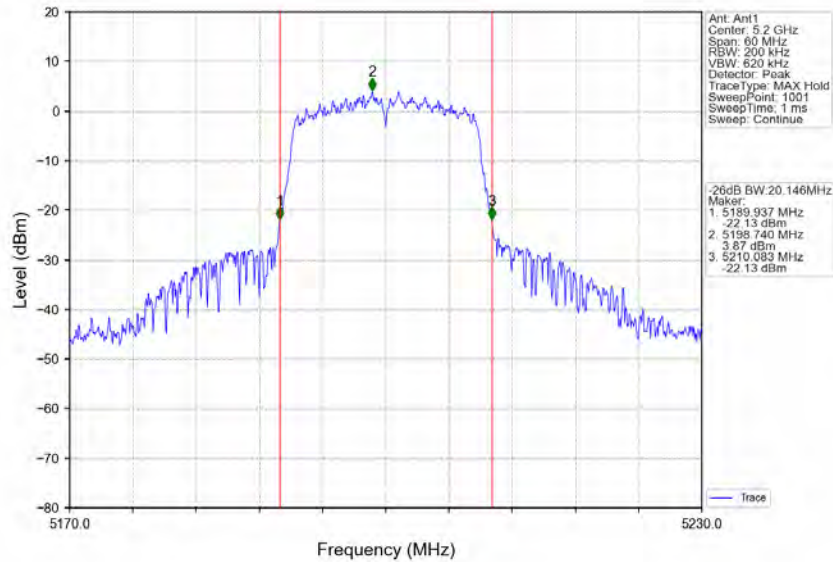
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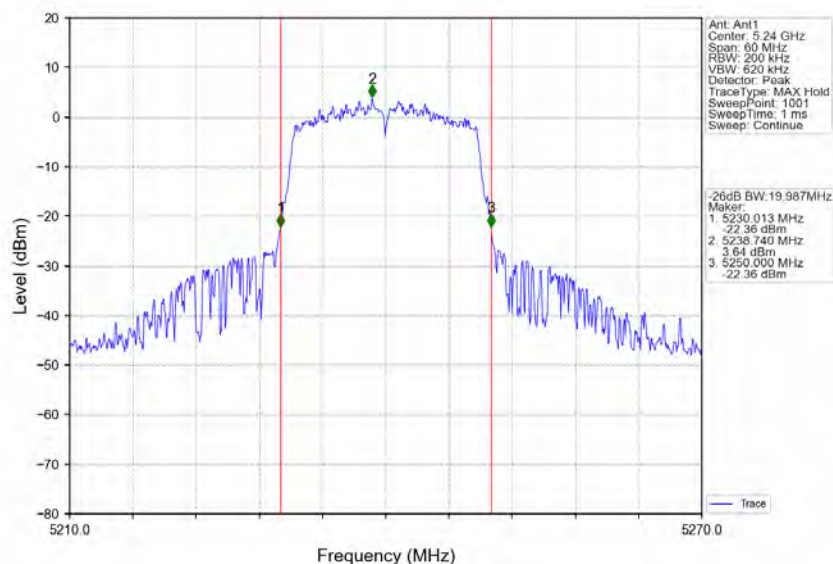
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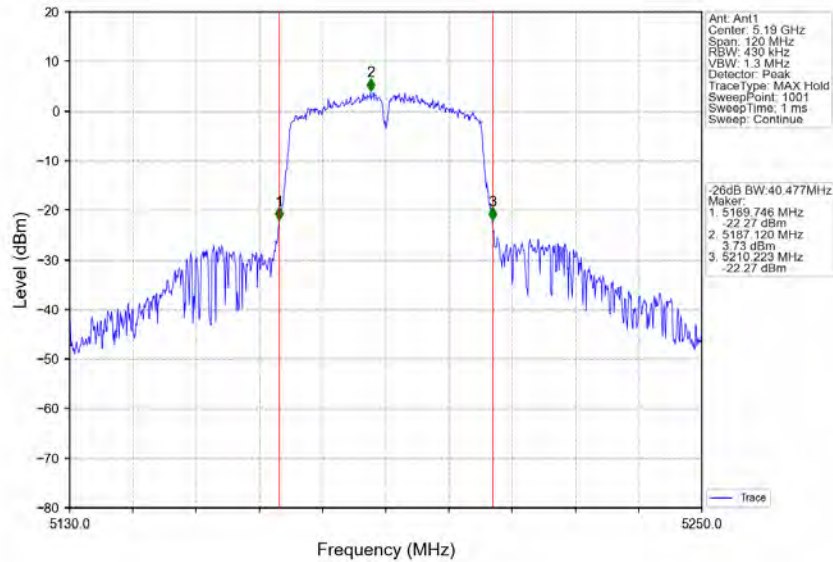
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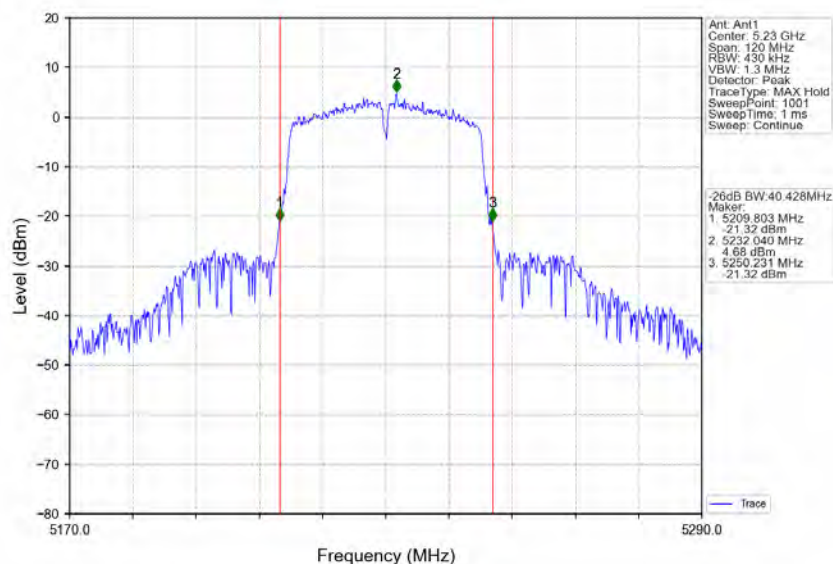
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



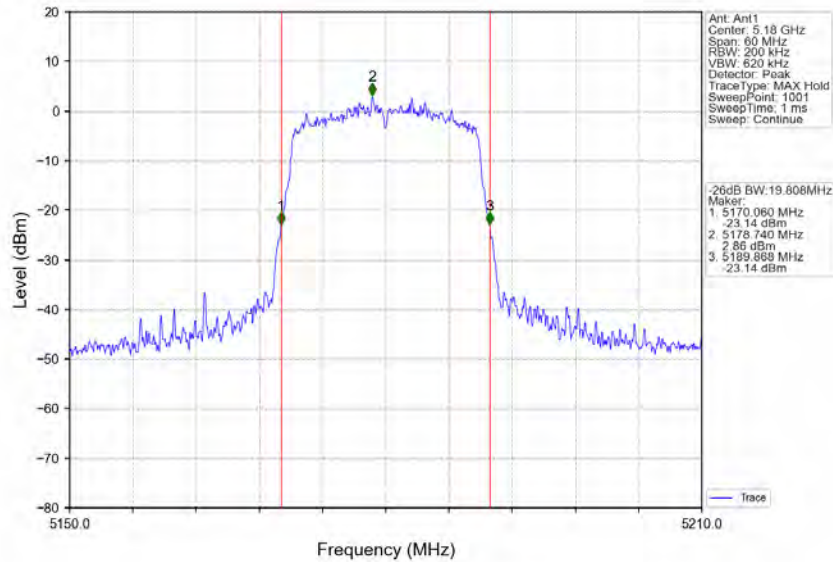
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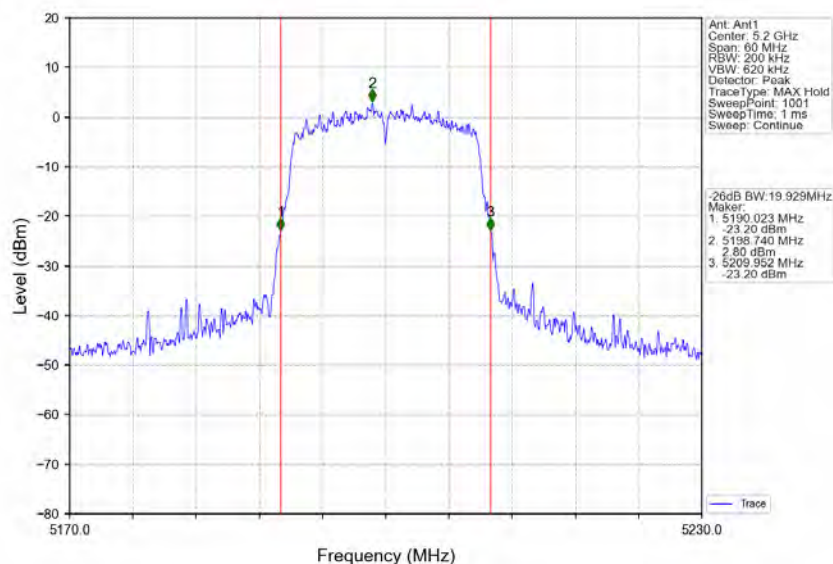
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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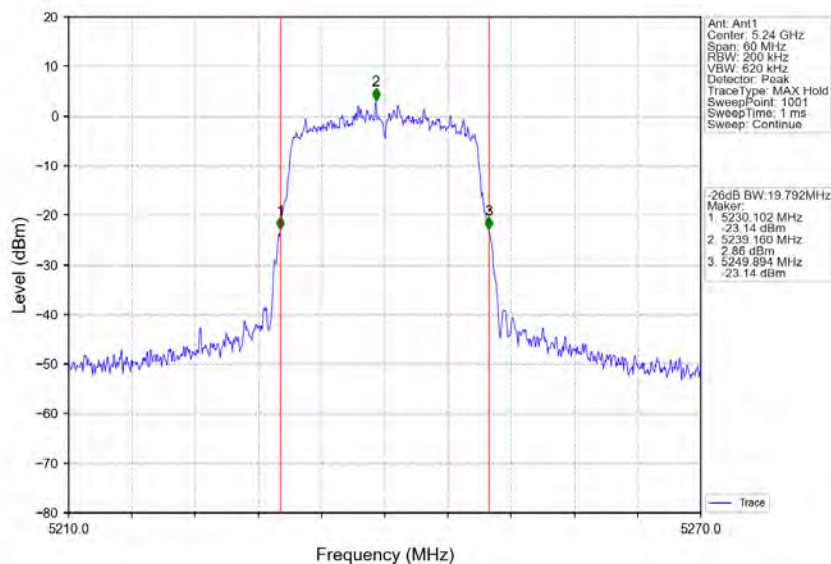
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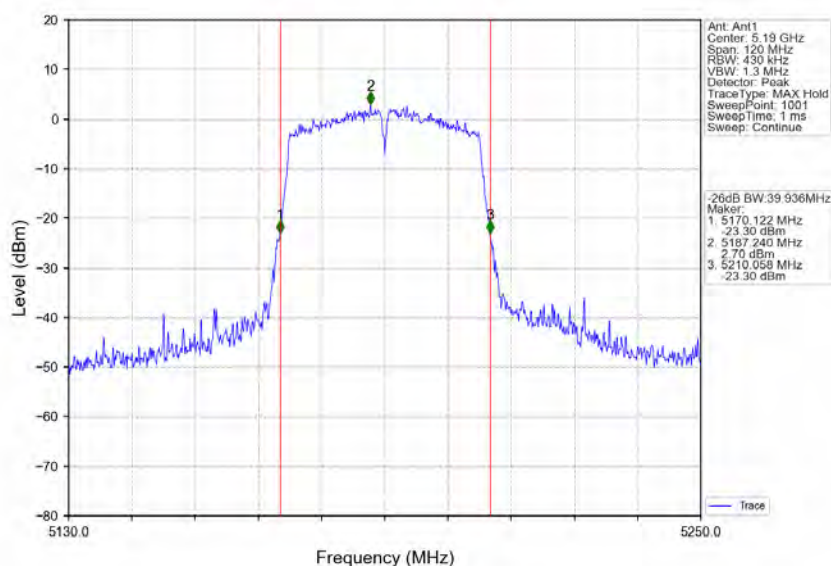
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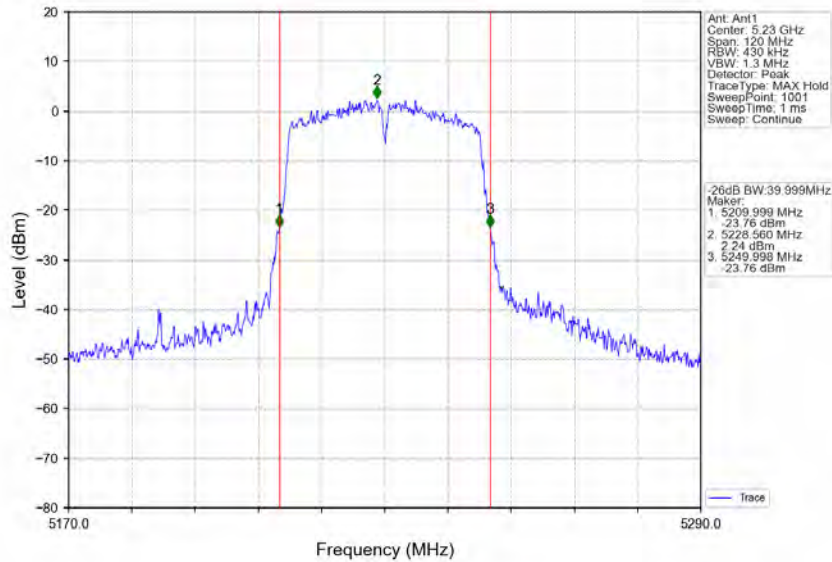
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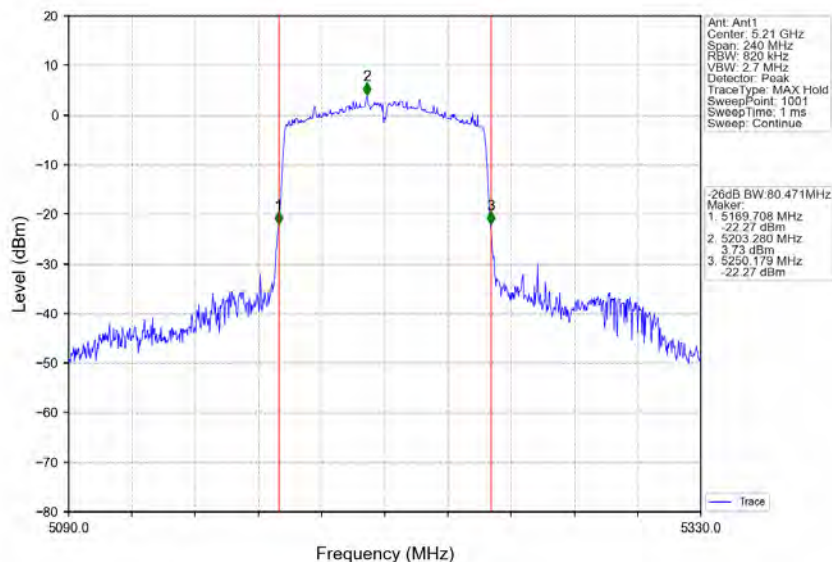
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.78	≤ 23.98	Pass
		5200	13.67	≤ 23.98	Pass
		5240	13.44	≤ 23.98	Pass
		5745	12.98	≤ 30	Pass
		5785	12.88	≤ 30	Pass
		5825	12.98	≤ 30	Pass
802.11n (HT20)	SISO	5180	13.53	≤ 23.98	Pass
		5200	13.55	≤ 23.98	Pass
		5240	13.31	≤ 23.98	Pass
		5745	12.80	≤ 30	Pass
		5785	12.86	≤ 30	Pass
		5825	12.90	≤ 30	Pass
802.11n (HT40)	SISO	5190	13.12	≤ 23.98	Pass
		5230	13.11	≤ 23.98	Pass
		5755	12.45	≤ 30	Pass
		5795	12.41	≤ 30	Pass
802.11ac (VHT20)	SISO	5180	12.57	≤ 23.98	Pass
		5200	12.50	≤ 23.98	Pass
		5240	12.10	≤ 23.98	Pass
		5745	11.68	≤ 30	Pass
		5785	11.65	≤ 30	Pass
		5825	11.86	≤ 30	Pass
802.11ac (VHT40)	SISO	5190	12.11	≤ 23.98	Pass
		5230	11.96	≤ 23.98	Pass
		5755	11.37	≤ 30	Pass
		5795	11.27	≤ 30	Pass
802.11ac (VHT80)	SISO	5210	12.23	≤ 23.98	Pass
		5775	11.55	≤ 30	Pass

Note1: Antenna Gain: Ant1: -0.60dBi;



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Report No.: KSCR221000185704

Page: 192 of 232

E.I.R.P

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.18	<=22.37	Pass
		5200	13.07	<=22.34	Pass
		5240	12.84	<=22.36	Pass
802.11n (HT20)	SISO	5180	12.93	<=22.62	Pass
		5200	12.95	<=22.62	Pass
		5240	12.71	<=22.61	Pass
802.11n (HT40)	SISO	5190	12.52	<=23.01	Pass
		5230	12.51	<=23.01	Pass
802.11ac (VHT20)	SISO	5180	11.97	<=22.56	Pass
		5200	11.9	<=22.58	Pass
		5240	11.5	<=22.55	Pass
802.11ac (VHT40)	SISO	5190	11.51	<=23.01	Pass
		5230	11.36	<=23.01	Pass
802.11ac (VHT80)	SISO	5210	11.63	<=23.01	Pass

Note1: Antenna Gain: Ant1: -0.60dBi;



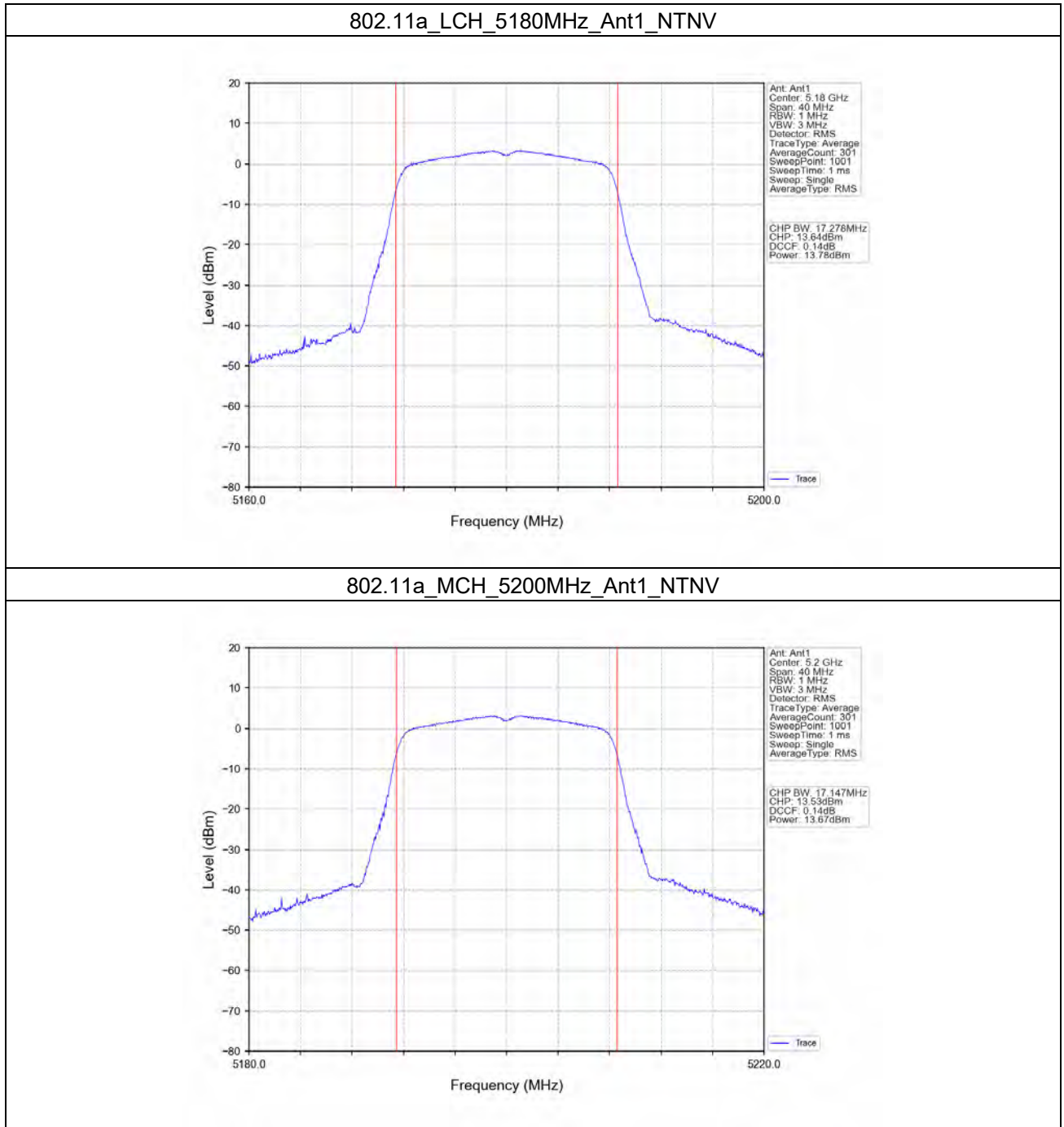
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3.1.2 Test Graph



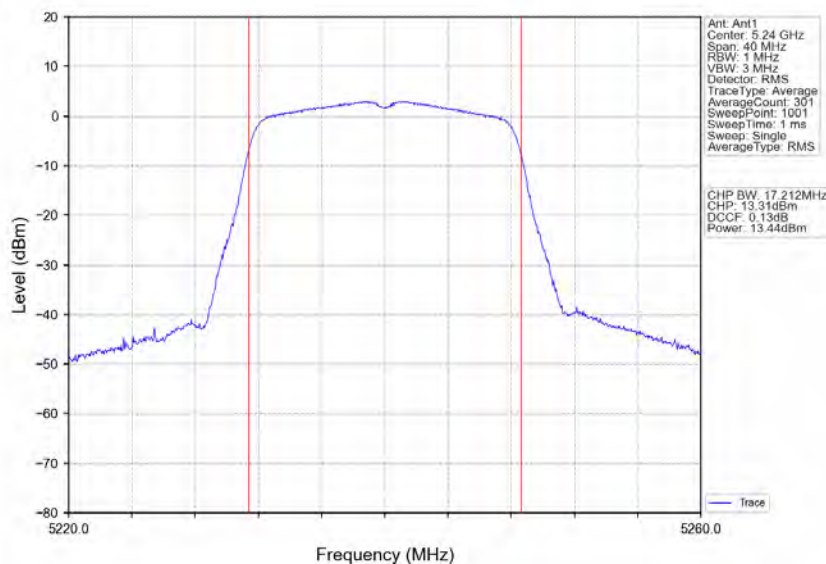
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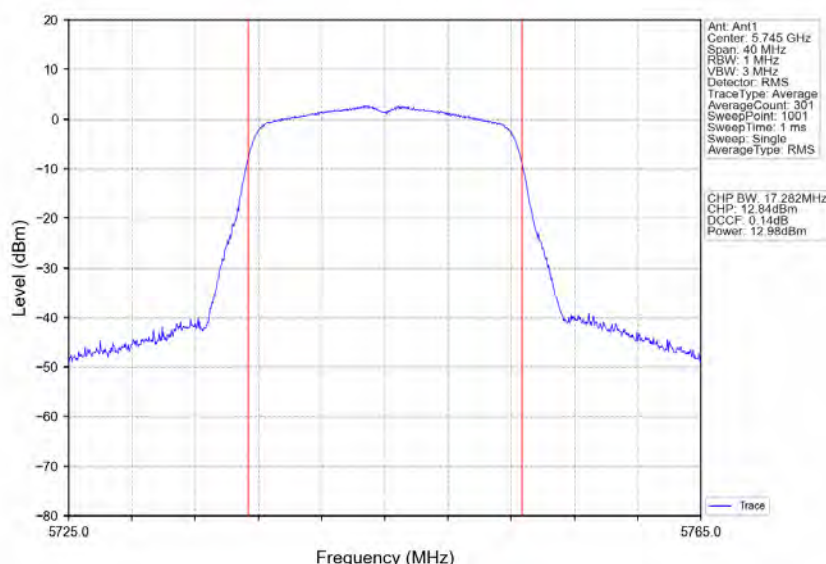
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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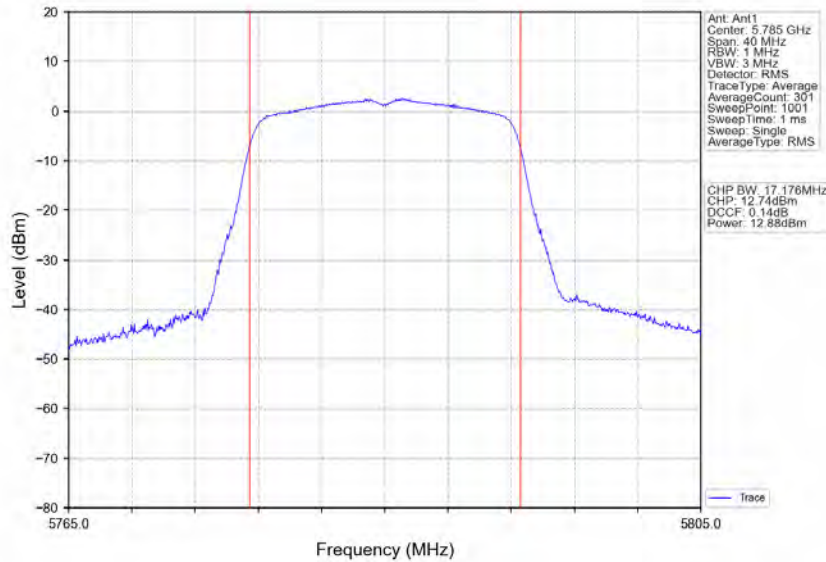
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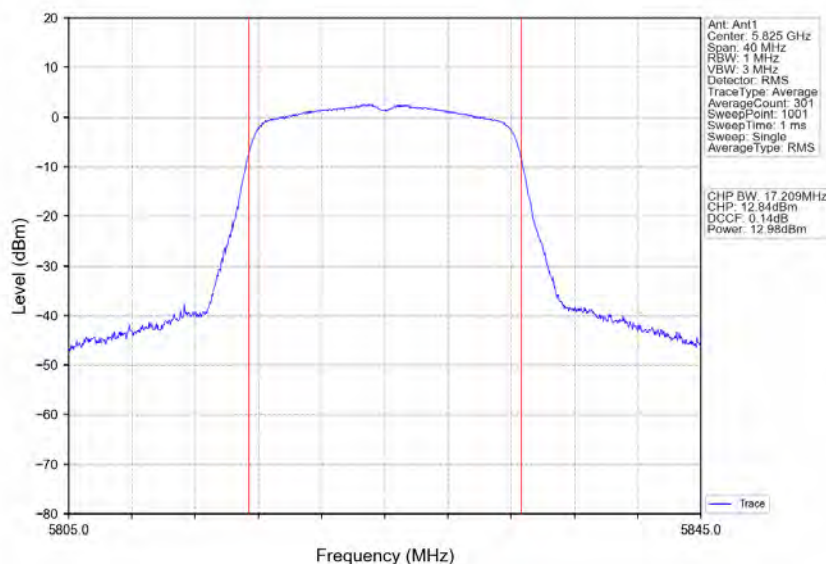
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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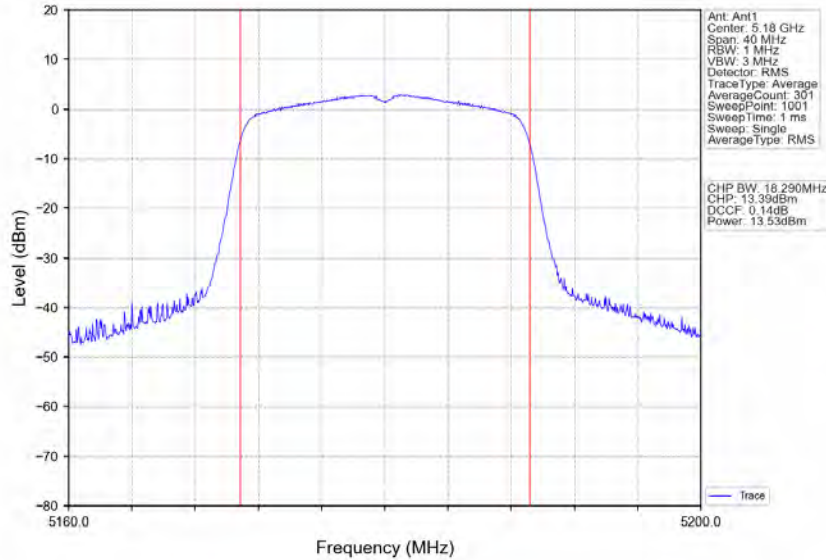
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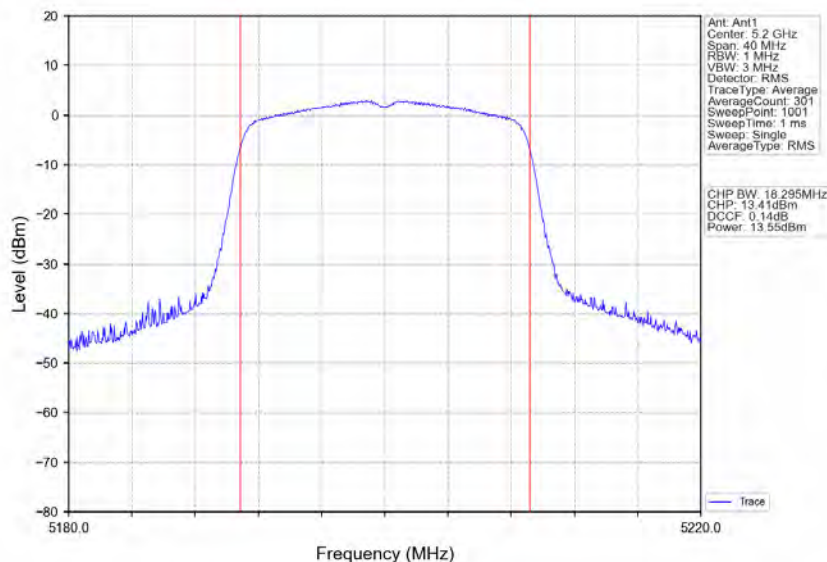
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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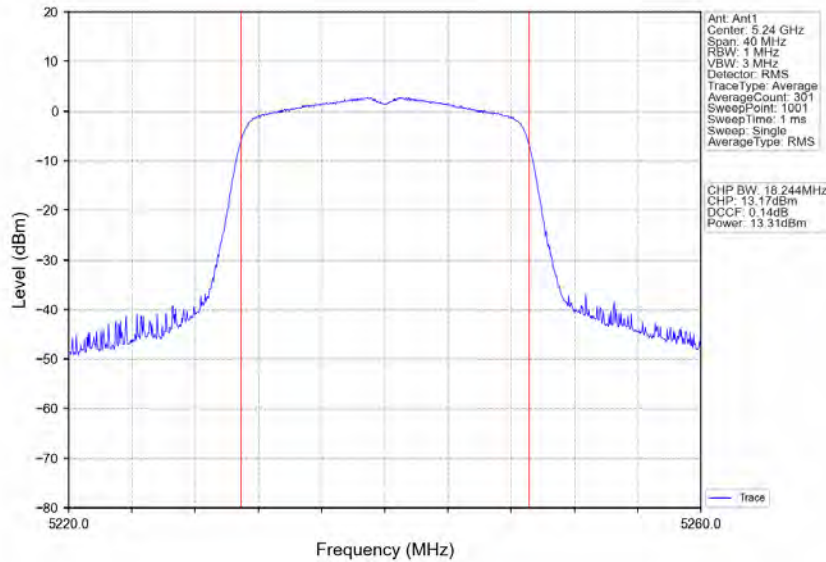
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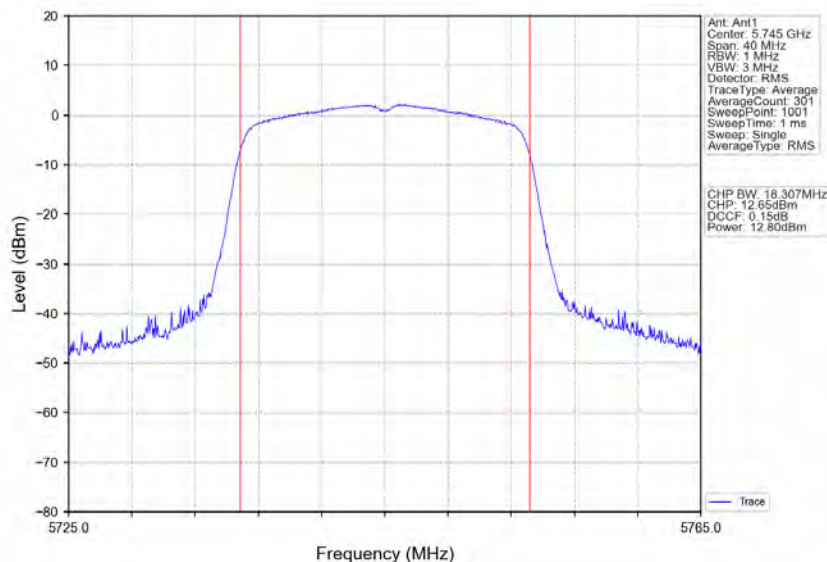
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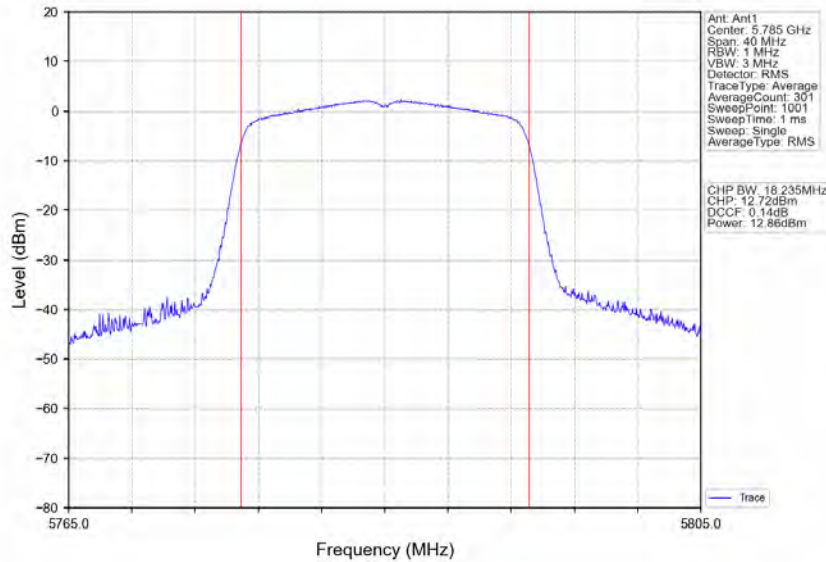
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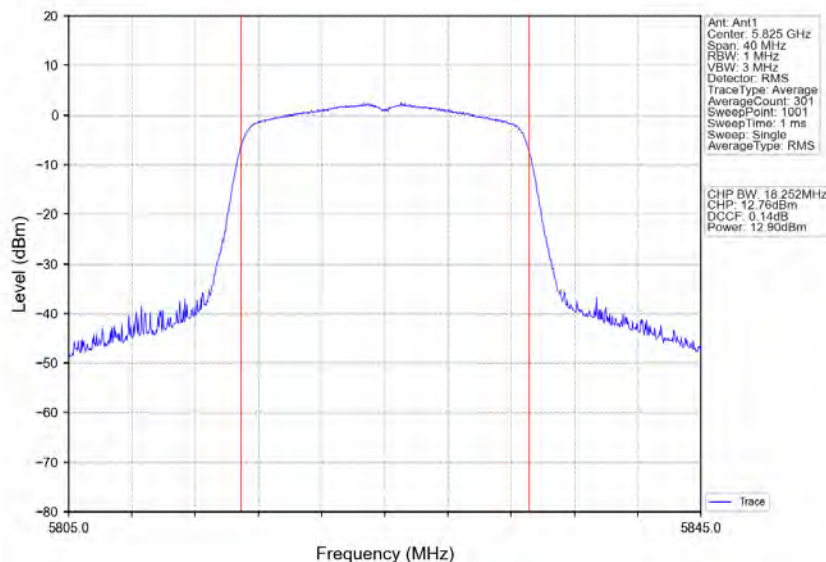
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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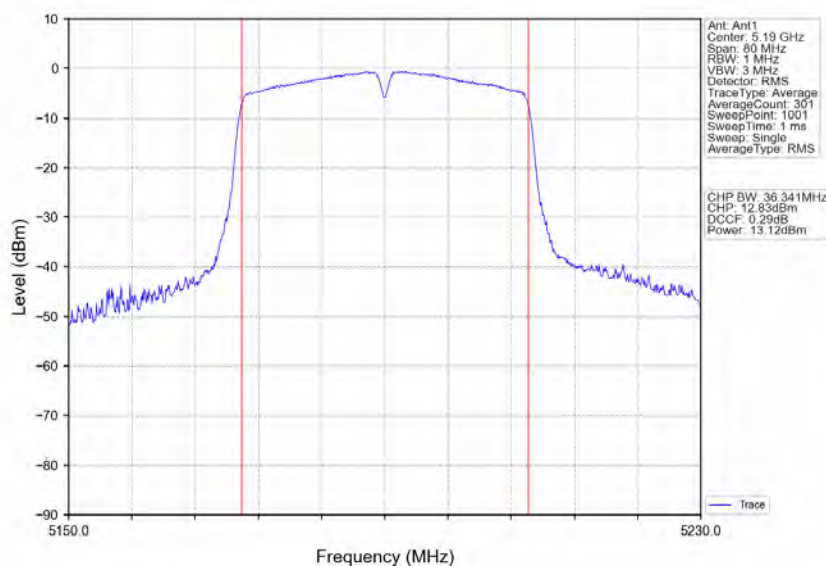
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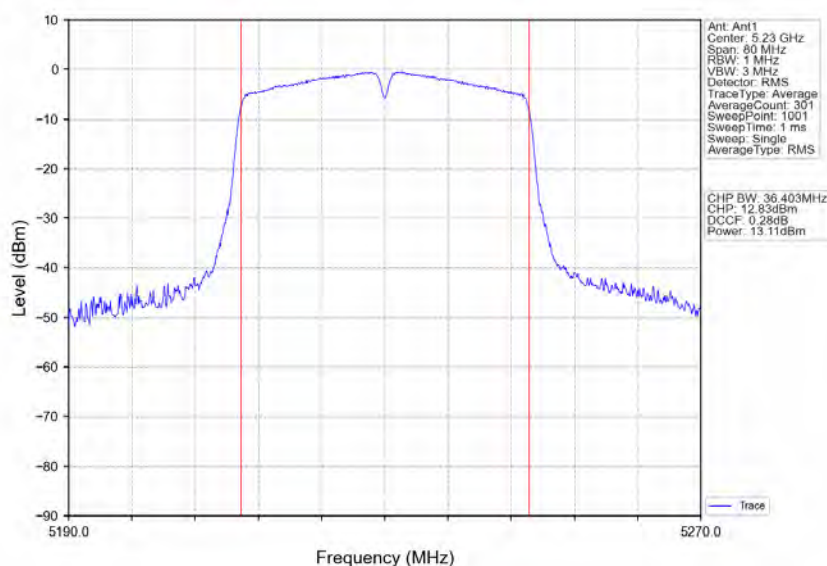
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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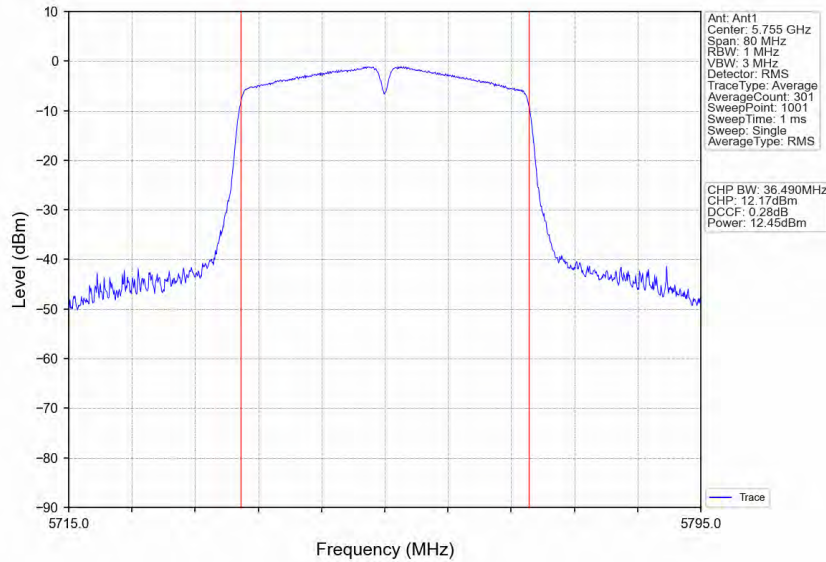
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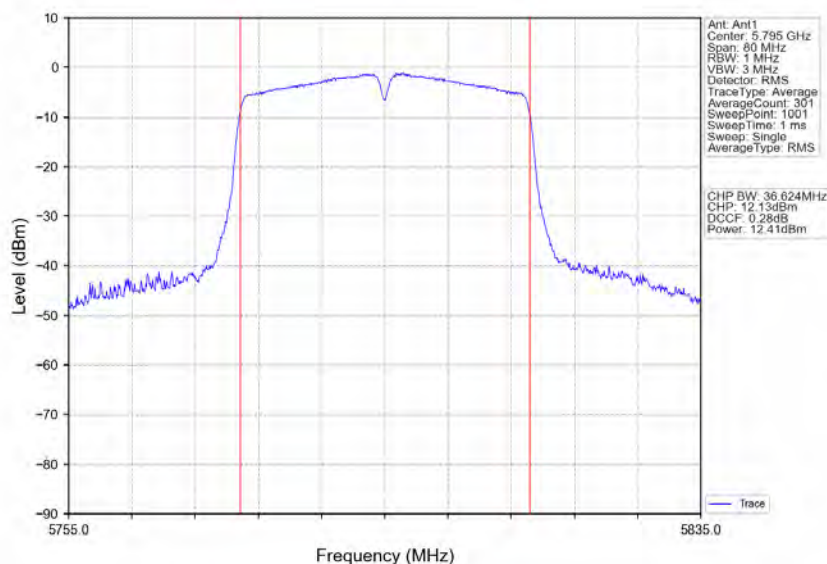
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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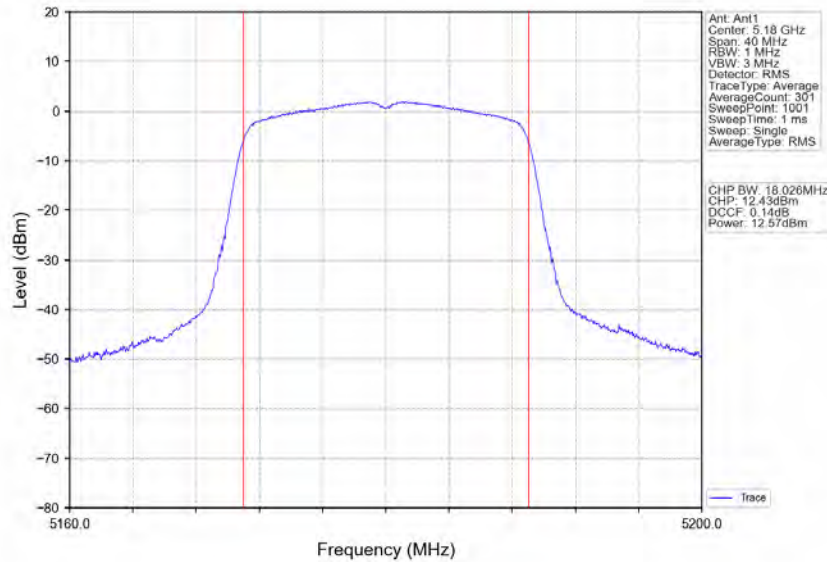
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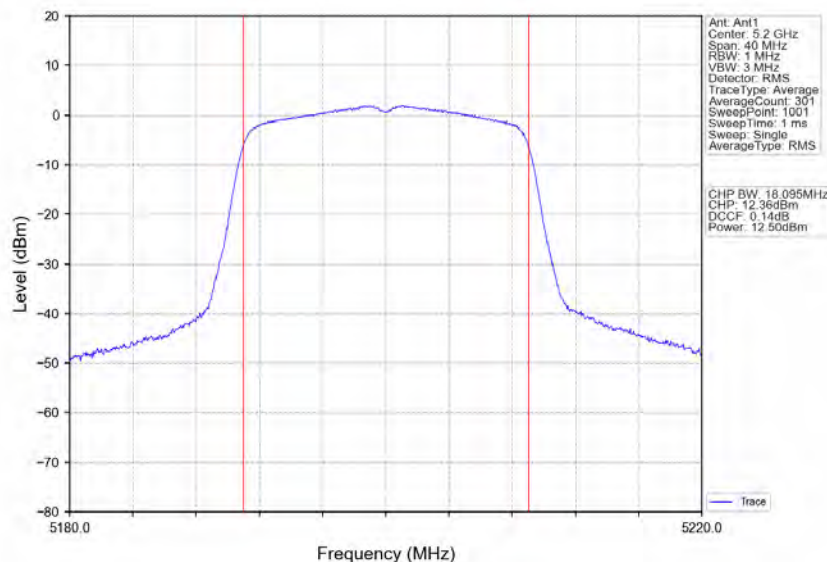
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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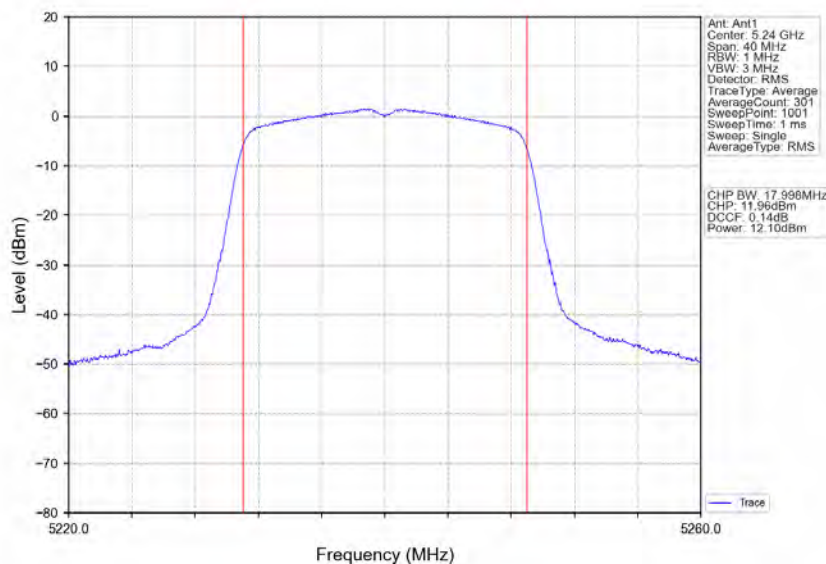
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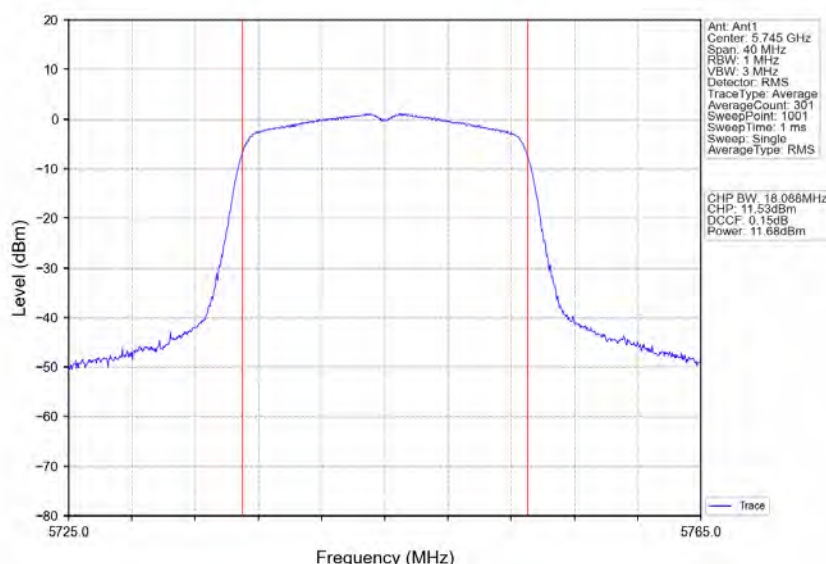
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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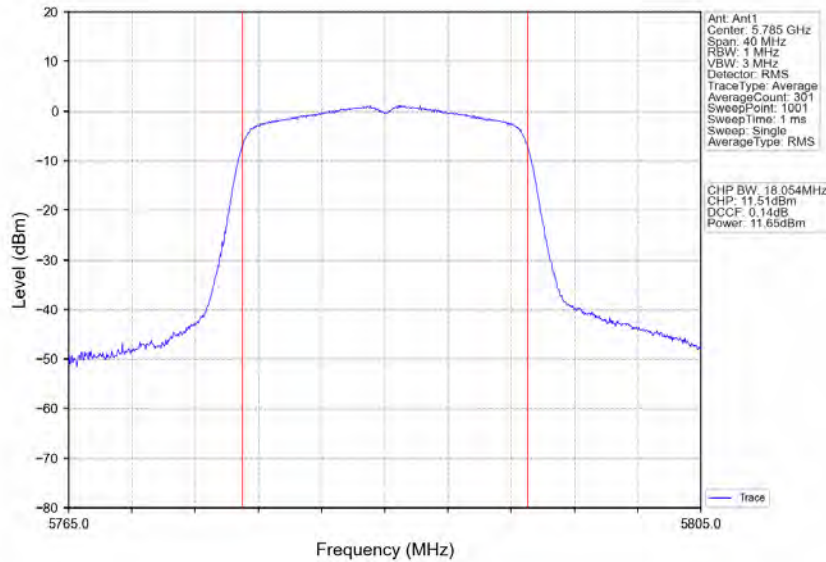
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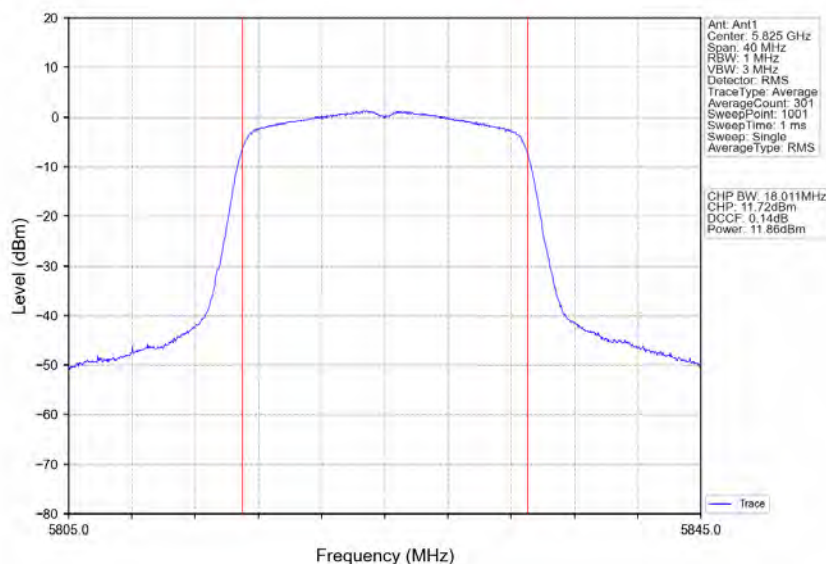
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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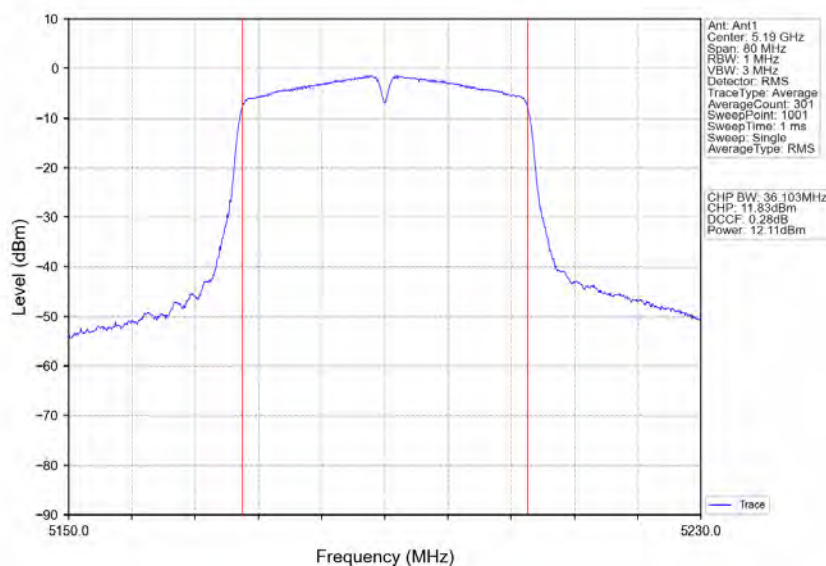
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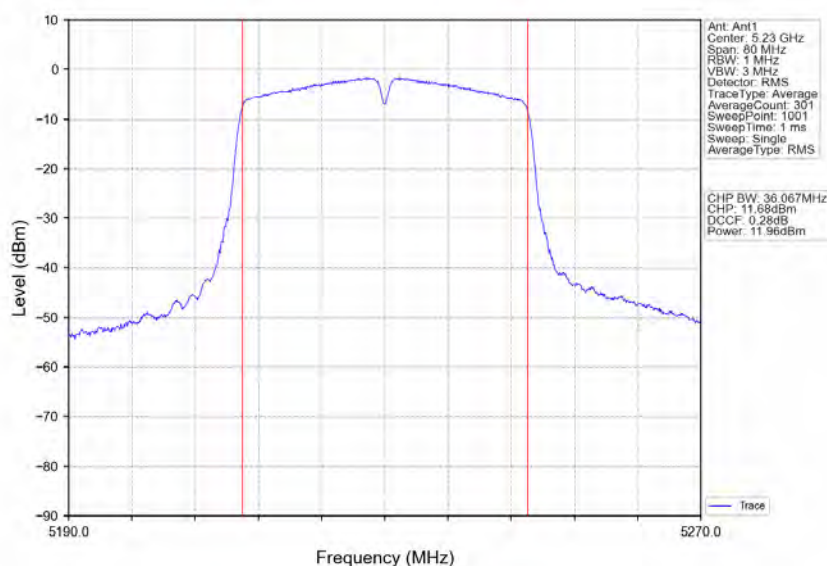
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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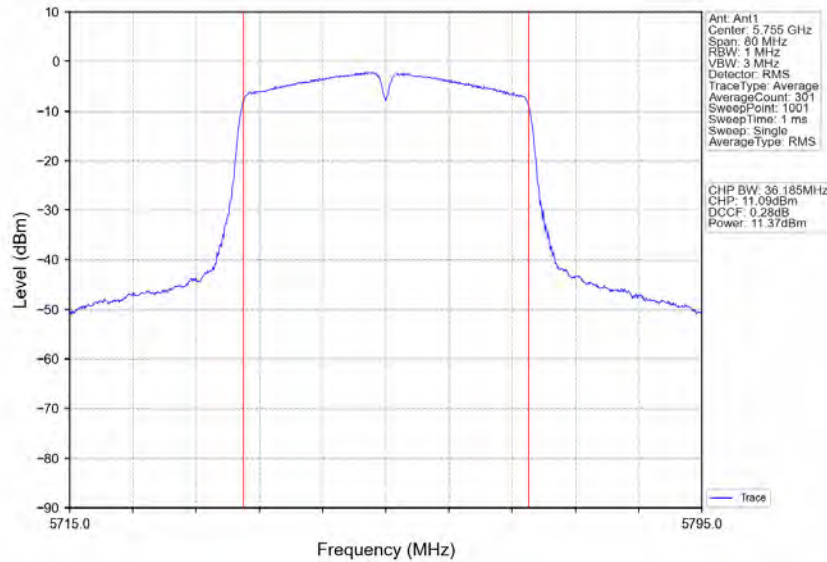
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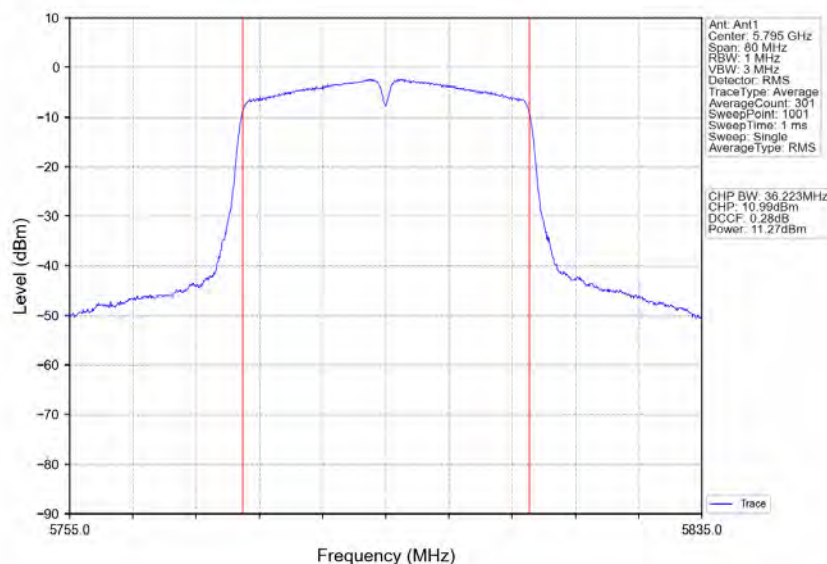
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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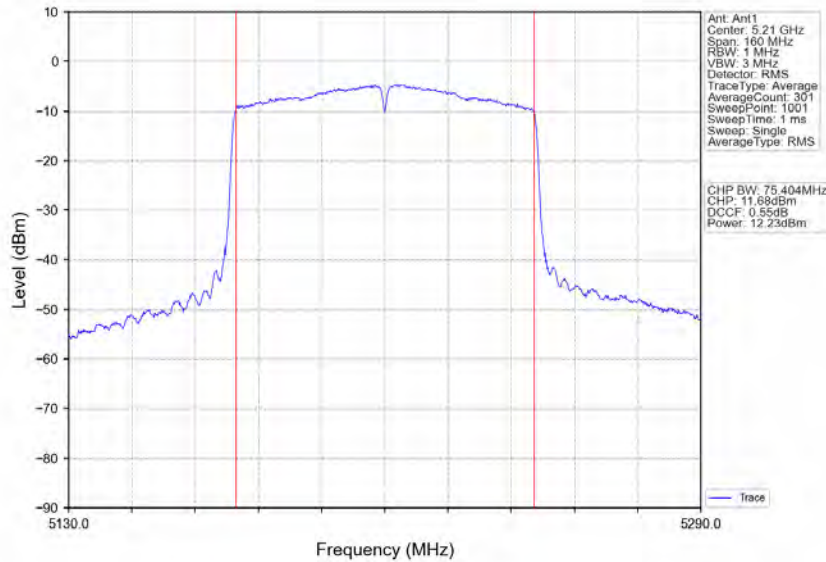
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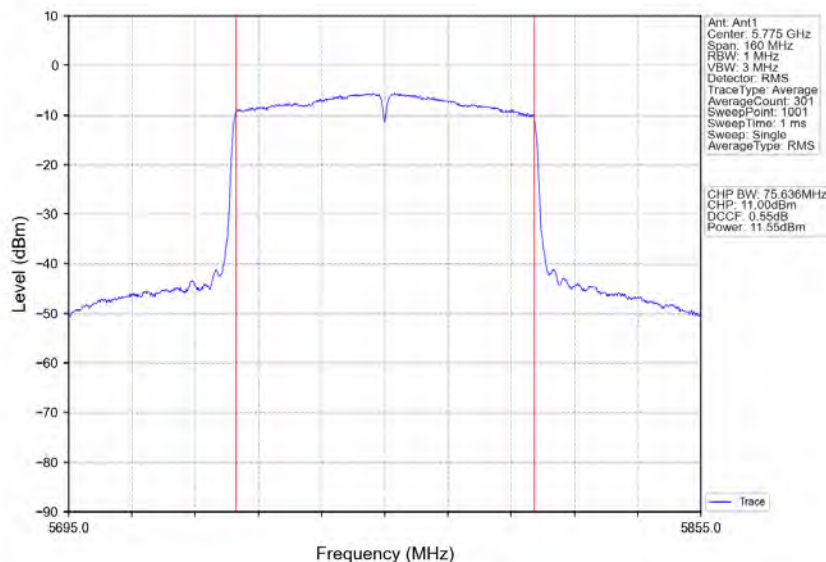
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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	
802.11a	SISO	5180	3.48	<=11	Pass
		5200	3.44	<=11	Pass
		5240	3.13	<=11	Pass
802.11n (HT20)	SISO	5180	3.08	<=11	Pass
		5200	3.06	<=11	Pass
		5240	2.82	<=11	Pass
802.11n (HT40)	SISO	5190	-0.23	<=11	Pass
		5230	-0.20	<=11	Pass
802.11ac (VHT20)	SISO	5180	2.17	<=11	Pass
		5200	2.09	<=11	Pass
		5240	1.72	<=11	Pass
802.11ac (VHT40)	SISO	5190	-1.12	<=11	Pass
		5230	-1.18	<=11	Pass
802.11ac (VHT80)	SISO	5210	-4.24	<=11	Pass

Note1: Antenna Gain: Ant1: -0.60dBi;

E.I.R.P PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.88	<=10	Pass
		5200	2.84	<=10	Pass
		5240	2.53	<=10	Pass
802.11n (HT20)	SISO	5180	2.48	<=10	Pass
		5200	2.46	<=10	Pass
		5240	2.22	<=10	Pass
802.11n (HT40)	SISO	5190	-0.83	<=10	Pass
		5230	-0.8	<=10	Pass
802.11ac (VHT20)	SISO	5180	1.57	<=10	Pass
		5200	1.49	<=10	Pass



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Report No.: KSCR221000185704

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		5240	1.12	<=10	Pass
802.11ac (VHT40)	SISO	5190	-1.72	<=10	Pass
		5230	-1.78	<=10	Pass
802.11ac (VHT80)	SISO	5210	-4.84	<=10	Pass

Note1: Antenna Gain: Ant1: -0.60dBi;



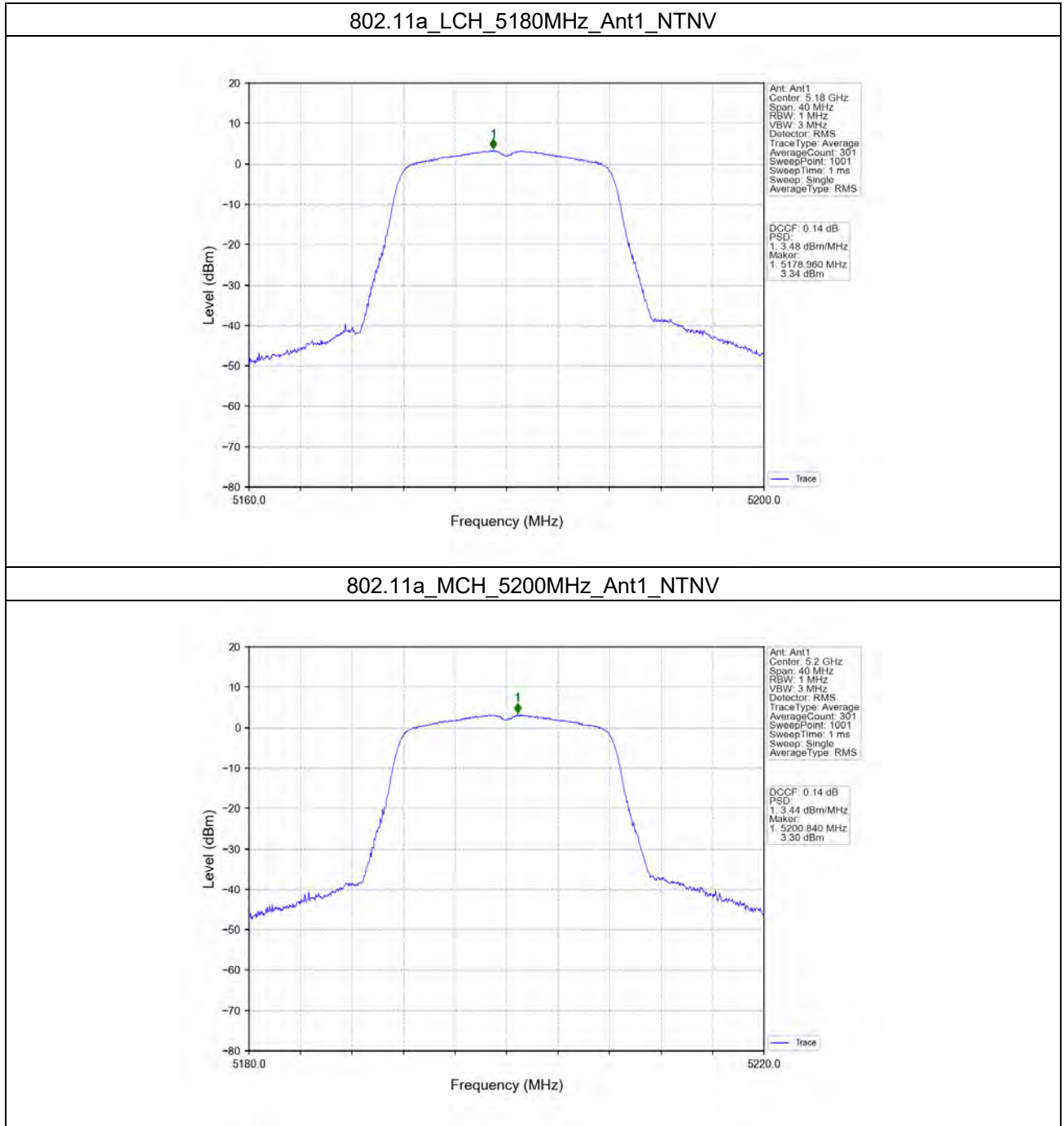
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4.1.2 Test Graph



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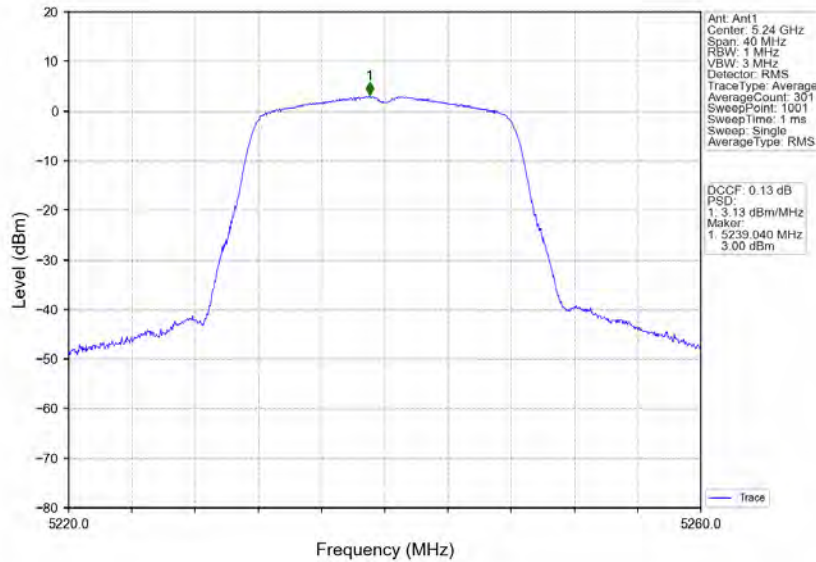
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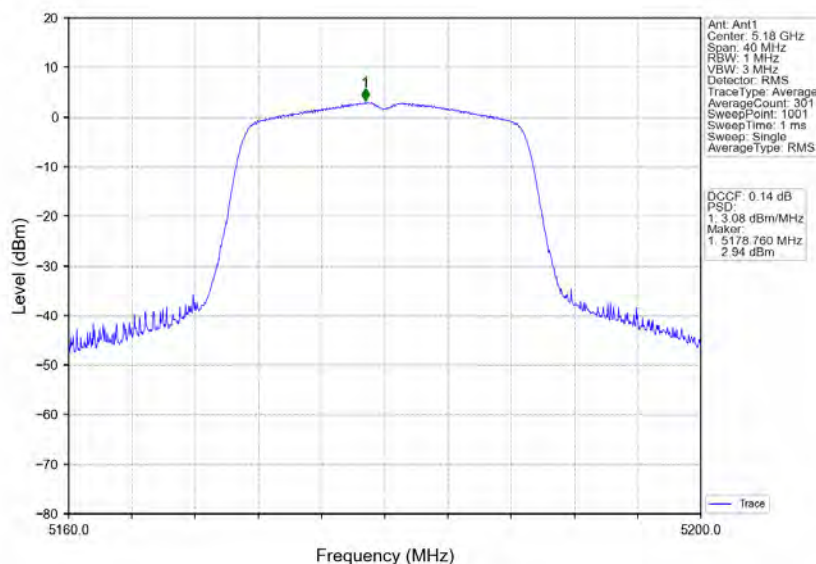
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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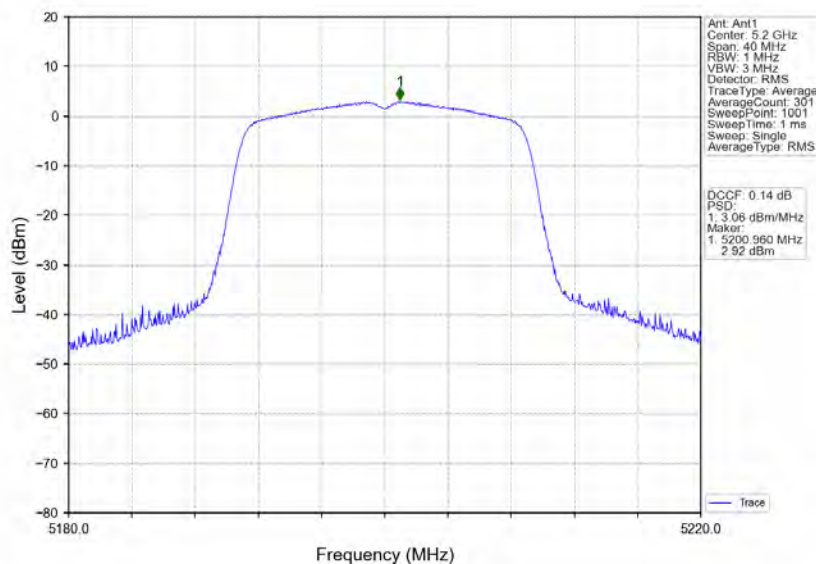
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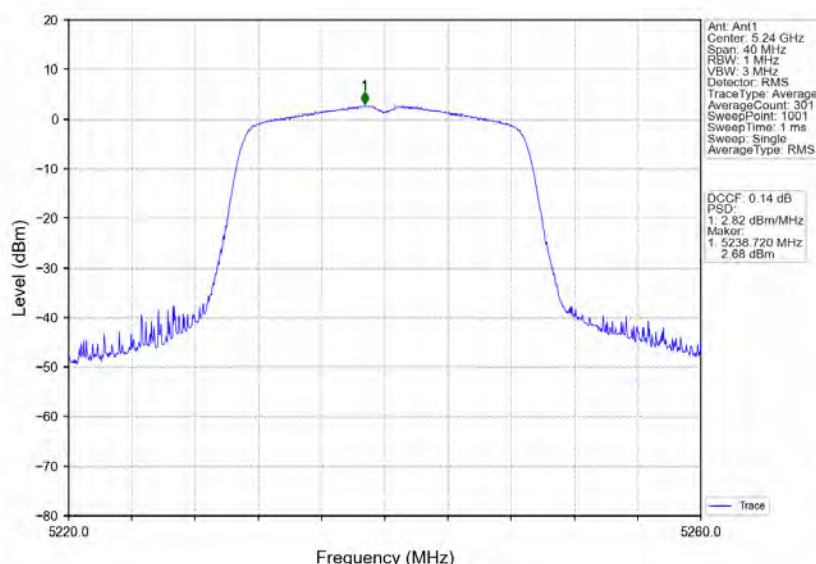
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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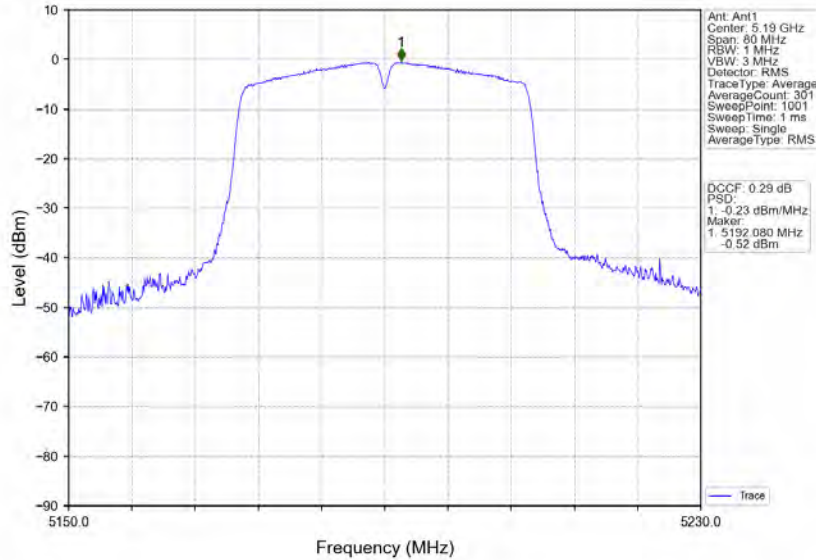
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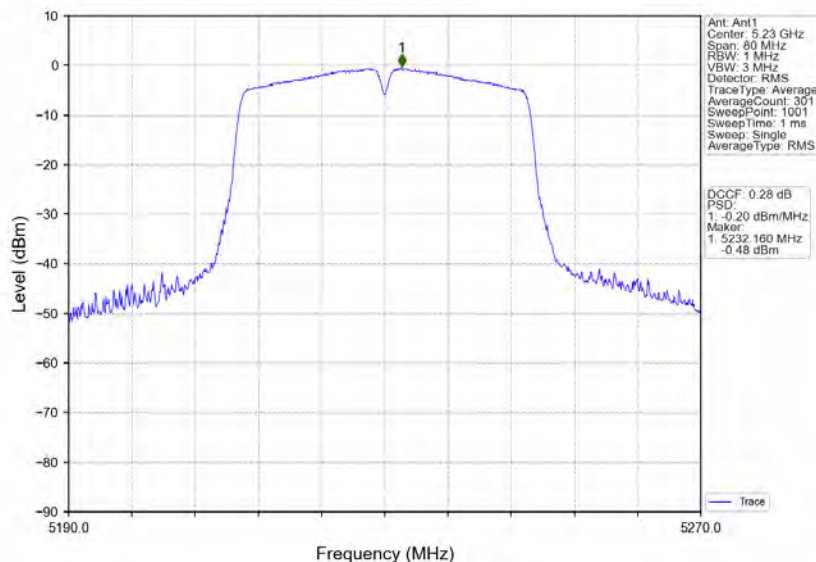
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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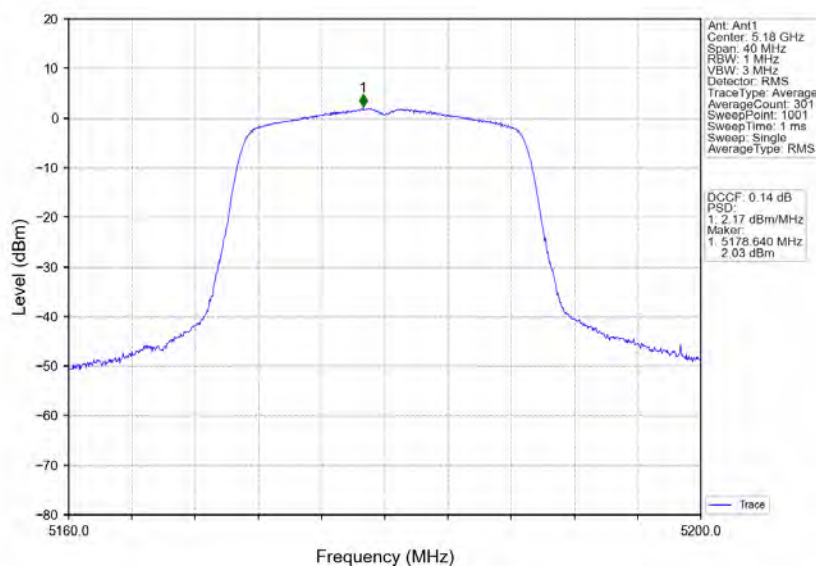
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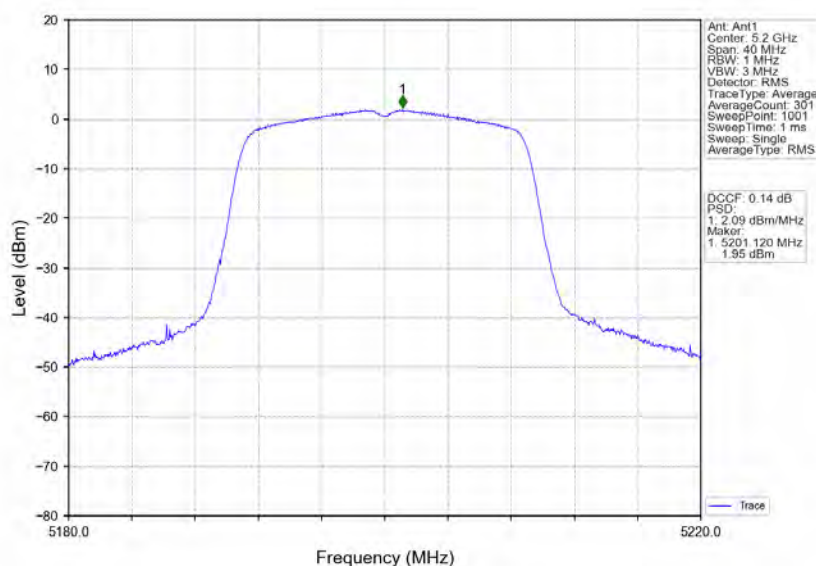
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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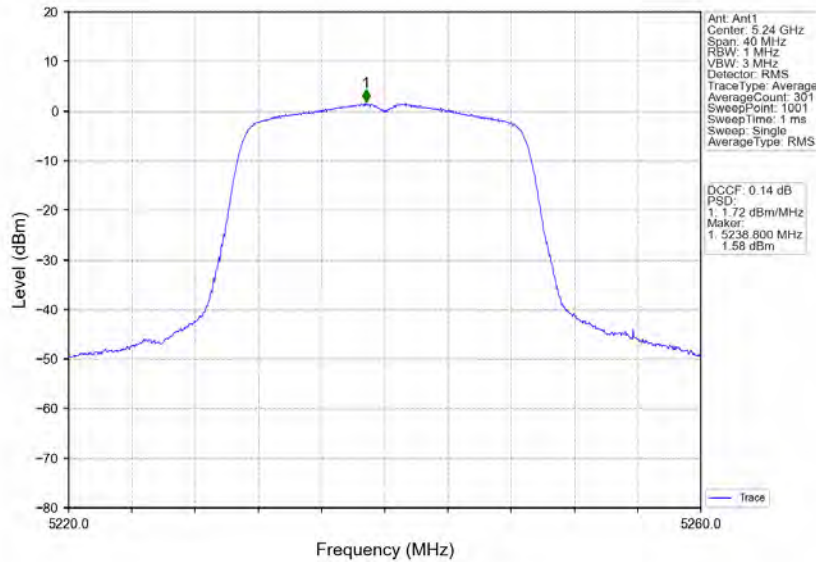
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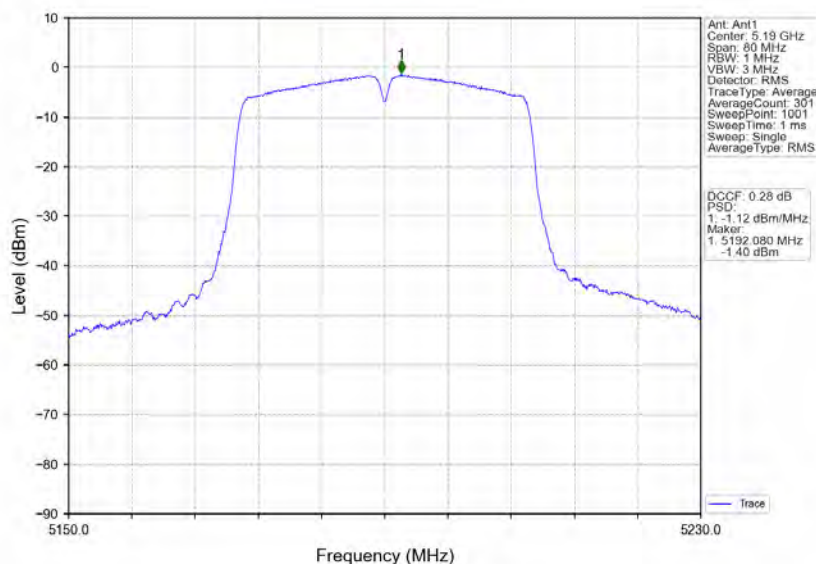
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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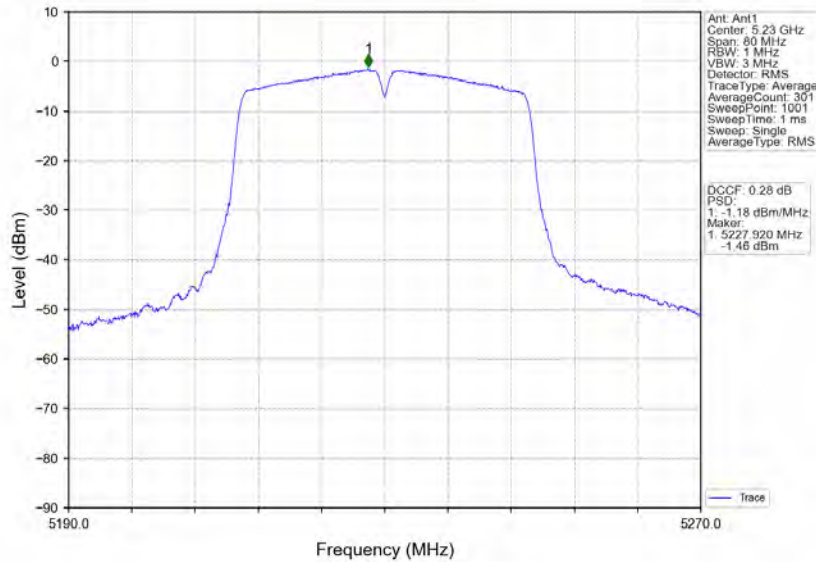
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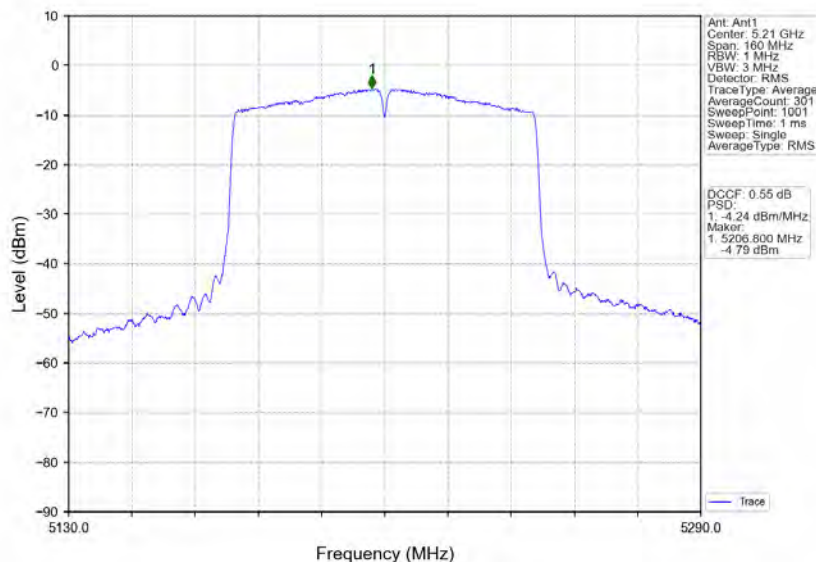
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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Report No.: KSCR221000185704

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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	
802.11a	SISO	5745	0.05	<=30	Pass
		5785	-0.17	<=30	Pass
		5825	-0.13	<=30	Pass
802.11n (HT20)	SISO	5745	-0.43	<=30	Pass
		5785	-0.13	<=30	Pass
		5825	-0.18	<=30	Pass
802.11n (HT40)	SISO	5755	-3.66	<=30	Pass
		5795	-3.59	<=30	Pass
802.11ac (VHT20)	SISO	5745	-1.52	<=30	Pass
		5785	-1.64	<=30	Pass
		5825	-1.35	<=30	Pass
802.11ac (VHT40)	SISO	5755	-4.85	<=30	Pass
		5795	-5.02	<=30	Pass
802.11ac (VHT80)	SISO	5775	-7.69	<=30	Pass

Note1: Antenna Gain: Ant1: -0.60dBi;



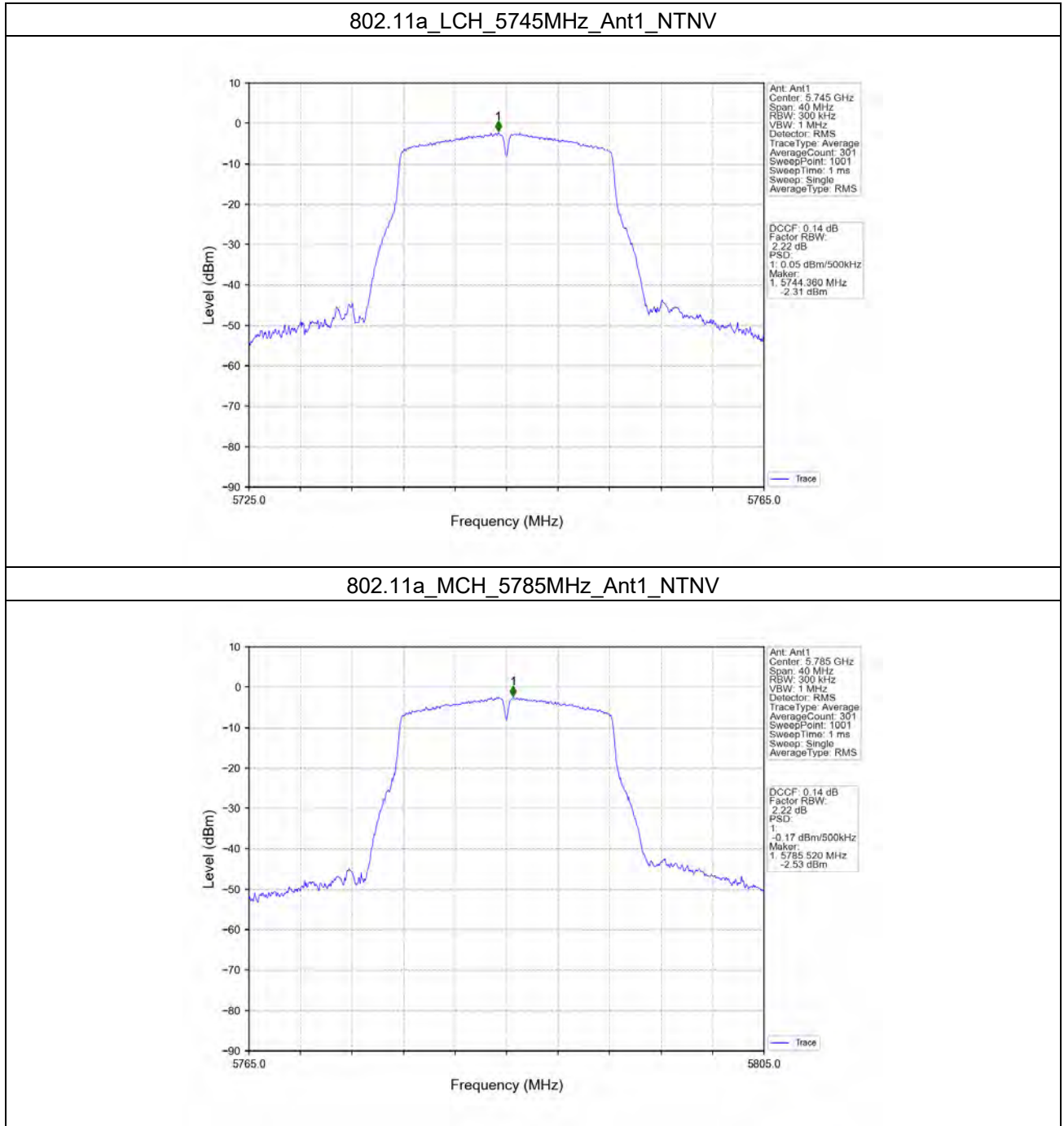
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4.2.2 Test Graph



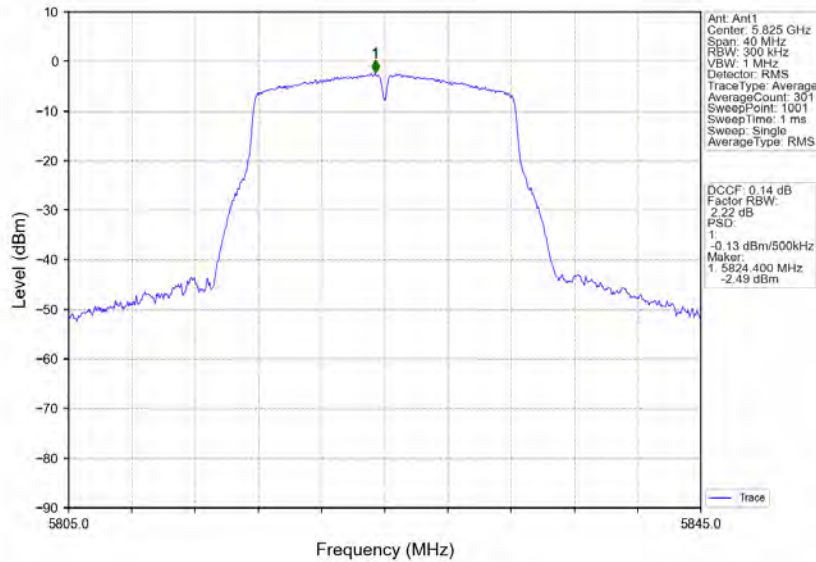
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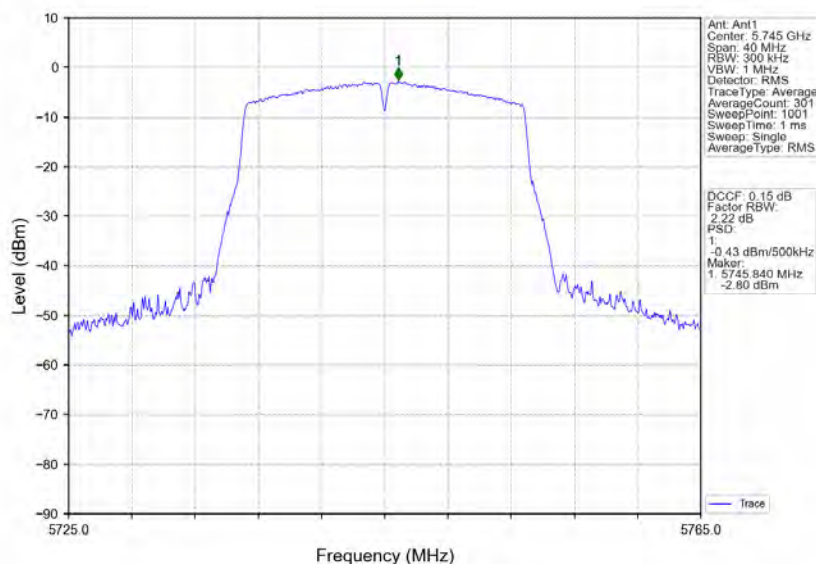
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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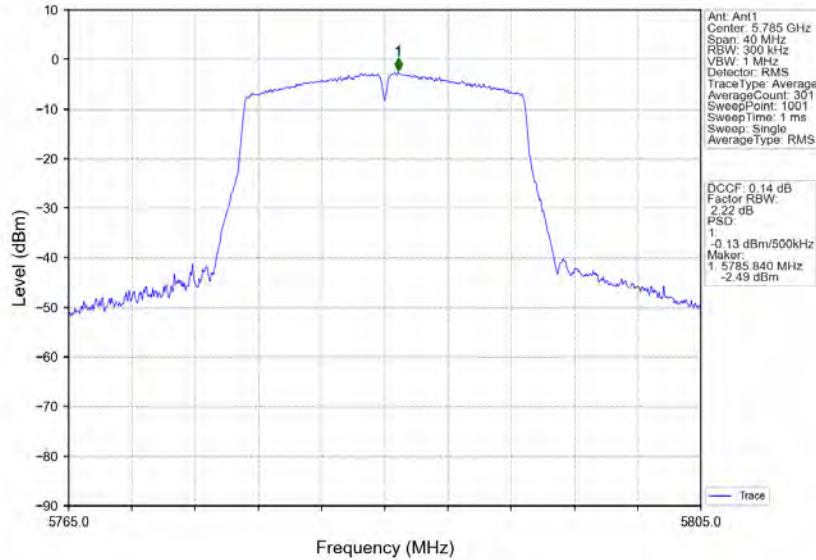
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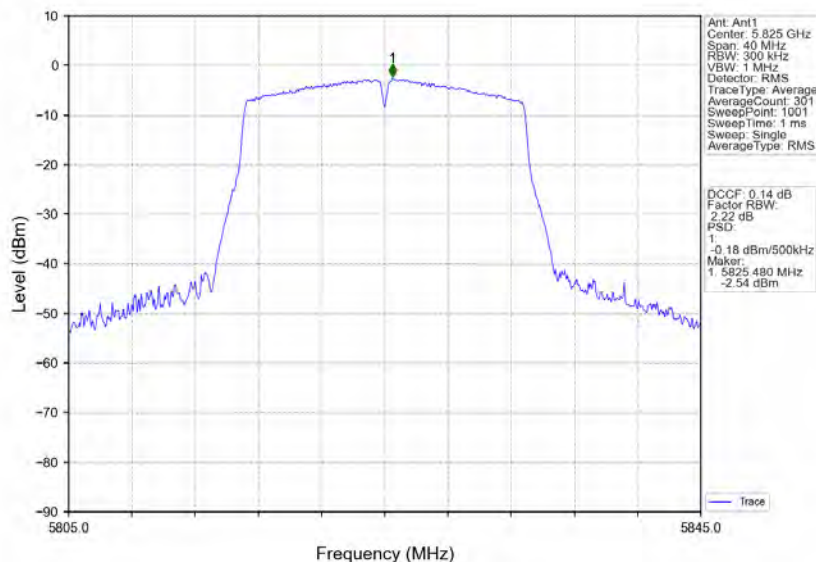
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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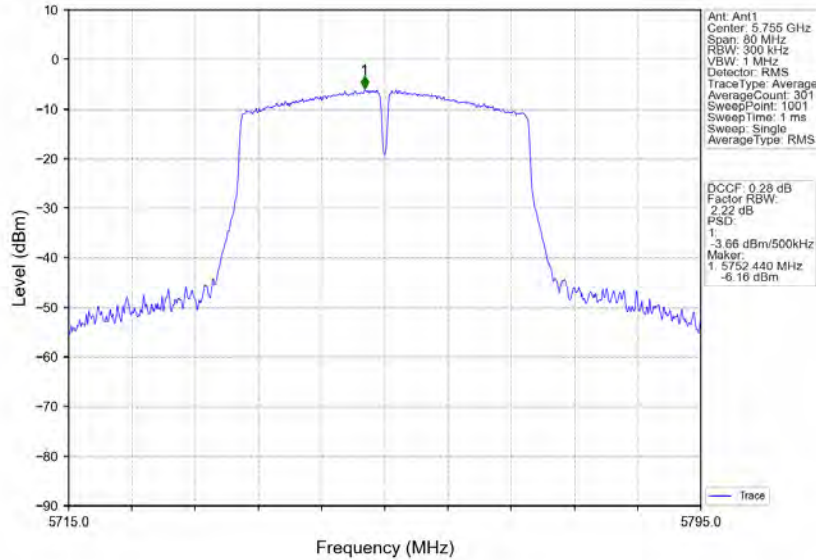
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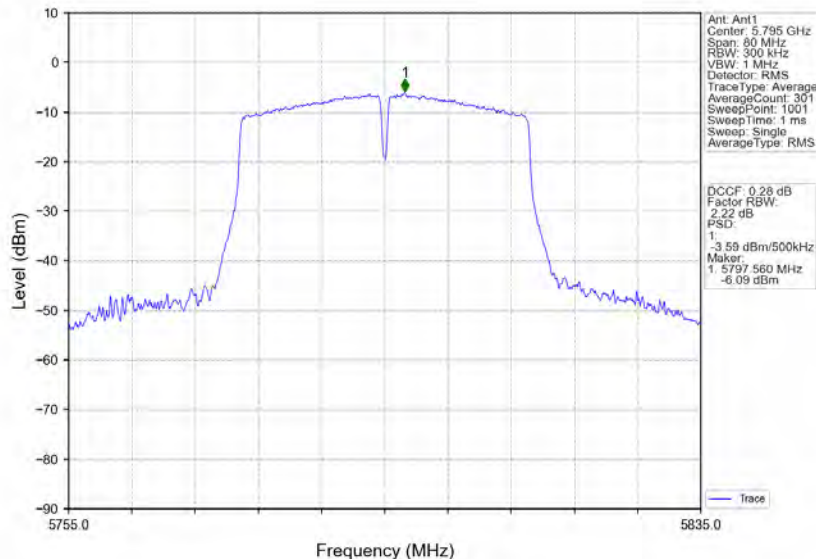
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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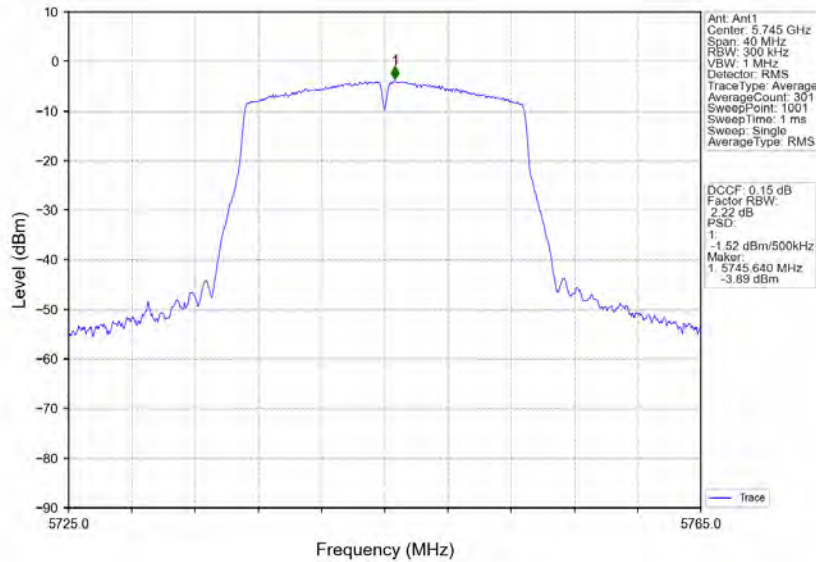
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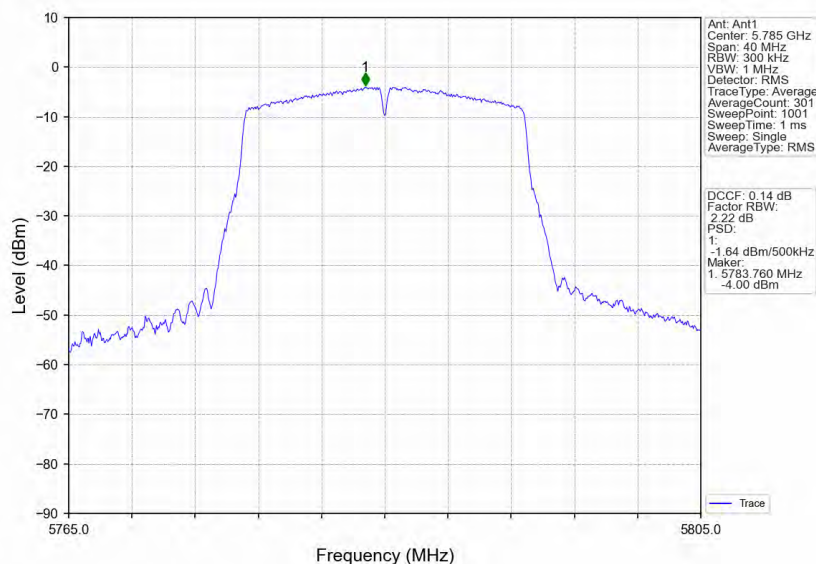
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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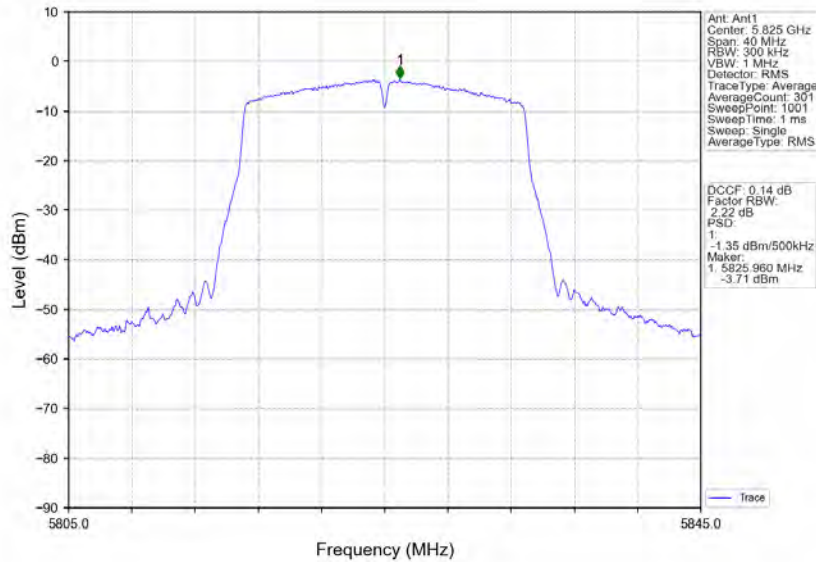
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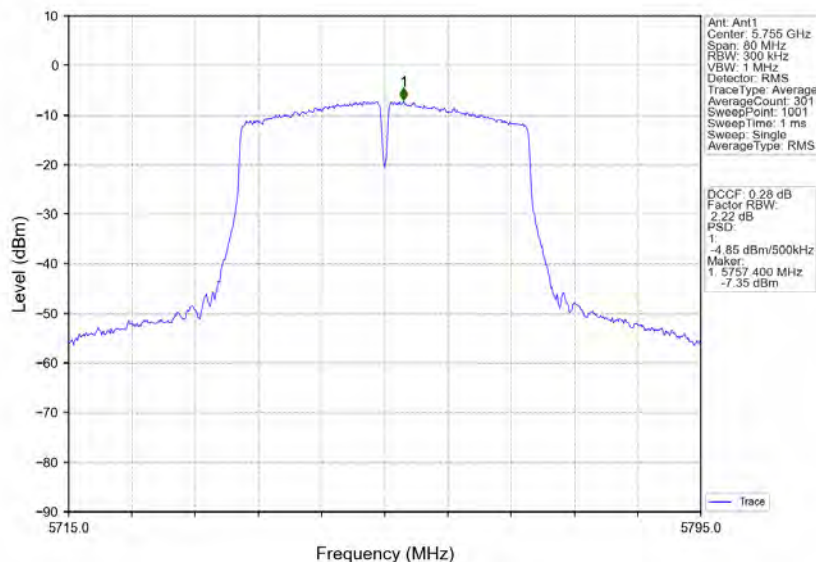
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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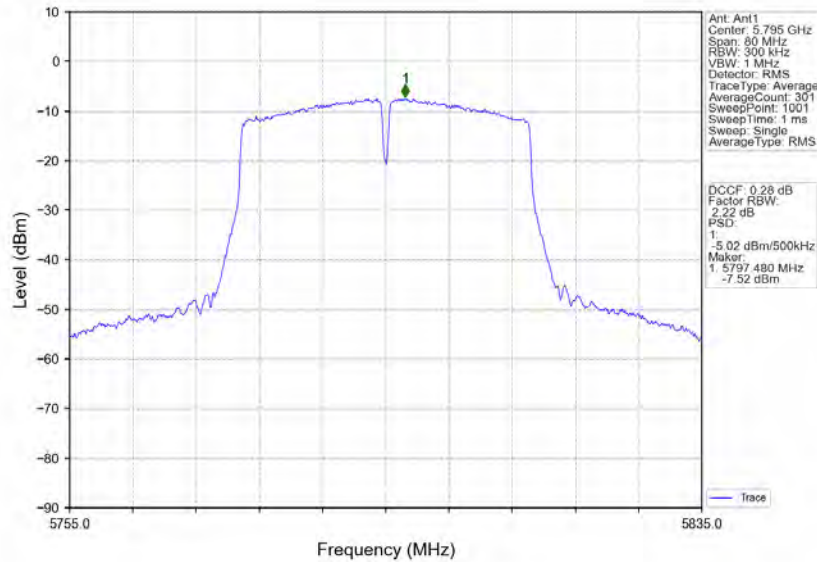
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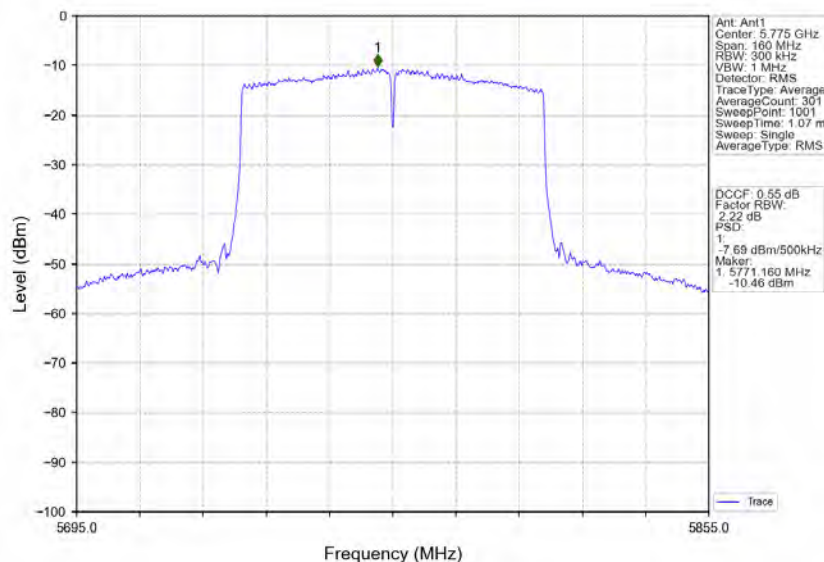
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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Report No.: KSCR221000185704

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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	3.46	5179.980	5150 to 5250	Pass
				3.8	5179.940	5150 to 5250	Pass
				4.35	5179.900	5150 to 5250	Pass
			-30	3.8	5180.020	5150 to 5250	Pass
			-20	3.8	5179.920	5150 to 5250	Pass
			-10	3.8	5180.040	5150 to 5250	Pass
			0	3.8	5179.900	5150 to 5250	Pass
			10	3.8	5180.080	5150 to 5250	Pass
			30	3.8	5180.000	5150 to 5250	Pass
			40	3.8	5180.020	5150 to 5250	Pass
			50	3.8	5180.020	5150 to 5250	Pass
		5200	20	3.46	5199.960	5150 to 5250	Pass
				3.8	5200.000	5150 to 5250	Pass
				4.35	5200.000	5150 to 5250	Pass
			-30	3.8	5200.040	5150 to 5250	Pass
			-20	3.8	5200.000	5150 to 5250	Pass
			-10	3.8	5200.040	5150 to 5250	Pass
			0	3.8	5199.980	5150 to 5250	Pass
			10	3.8	5200.000	5150 to 5250	Pass
			30	3.8	5200.040	5150 to 5250	Pass
			40	3.8	5200.000	5150 to 5250	Pass
			50	3.8	5200.040	5150 to 5250	Pass
		5240	20	3.46	5239.960	5150 to 5250	Pass
				3.8	5239.920	5150 to 5250	Pass
				4.35	5240.020	5150 to 5250	Pass
			-30	3.8	5239.980	5150 to 5250	Pass
			-20	3.8	5240.100	5150 to 5250	Pass
			-10	3.8	5239.980	5150 to 5250	Pass
			0	3.8	5240.020	5150 to 5250	Pass
			10	3.8	5239.940	5150 to 5250	Pass
			30	3.8	5239.980	5150 to 5250	Pass



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Compliance Certification Services (Kunshan) Inc.

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			40	3.8	5240.000	5150 to 5250	Pass
			50	3.8	5239.960	5150 to 5250	Pass
		5745	20	3.46	5744.960	5725 to 5850	Pass
				3.8	5744.940	5725 to 5850	Pass
				4.35	5745.020	5725 to 5850	Pass
			-30	3.8	5744.900	5725 to 5850	Pass
			-20	3.8	5744.880	5725 to 5850	Pass
			-10	3.8	5744.900	5725 to 5850	Pass
			0	3.8	5744.920	5725 to 5850	Pass
			10	3.8	5744.900	5725 to 5850	Pass
			30	3.8	5744.940	5725 to 5850	Pass
			40	3.8	5744.980	5725 to 5850	Pass
			50	3.8	5745.000	5725 to 5850	Pass
			5785	20	3.46	5785.060	5725 to 5850
		3.8			5784.920	5725 to 5850	Pass
		4.35			5784.920	5725 to 5850	Pass
		-30		3.8	5785.000	5725 to 5850	Pass
		-20		3.8	5785.000	5725 to 5850	Pass
		-10		3.8	5785.000	5725 to 5850	Pass
		0		3.8	5785.060	5725 to 5850	Pass
		10		3.8	5784.940	5725 to 5850	Pass
		30		3.8	5785.040	5725 to 5850	Pass
		40		3.8	5784.980	5725 to 5850	Pass
		50		3.8	5784.980	5725 to 5850	Pass
		5825	20	3.46	5825.000	5725 to 5850	Pass
				3.8	5824.960	5725 to 5850	Pass
				4.35	5825.020	5725 to 5850	Pass
			-30	3.8	5824.980	5725 to 5850	Pass
			-20	3.8	5825.000	5725 to 5850	Pass
			-10	3.8	5825.020	5725 to 5850	Pass
			0	3.8	5824.940	5725 to 5850	Pass
			10	3.8	5824.900	5725 to 5850	Pass
			30	3.8	5825.020	5725 to 5850	Pass
			40	3.8	5824.900	5725 to 5850	Pass
			50	3.8	5824.920	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	3.46	5179.980	5150 to 5250	Pass
				3.8	5179.940	5150 to 5250	Pass
				4.35	5179.940	5150 to 5250	Pass
			-30	3.8	5180.040	5150 to 5250	Pass



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Compliance Certification Services (Kunshan) Inc.

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			-20	3.8	5180.040	5150 to 5250	Pass
			-10	3.8	5180.020	5150 to 5250	Pass
			0	3.8	5179.960	5150 to 5250	Pass
			10	3.8	5180.000	5150 to 5250	Pass
			30	3.8	5180.040	5150 to 5250	Pass
			40	3.8	5179.980	5150 to 5250	Pass
			50	3.8	5180.000	5150 to 5250	Pass
		5200	20	3.46	5200.000	5150 to 5250	Pass
				3.8	5199.960	5150 to 5250	Pass
				4.35	5199.940	5150 to 5250	Pass
			-30	3.8	5199.920	5150 to 5250	Pass
			-20	3.8	5199.920	5150 to 5250	Pass
			-10	3.8	5199.920	5150 to 5250	Pass
			0	3.8	5199.940	5150 to 5250	Pass
			10	3.8	5199.980	5150 to 5250	Pass
			30	3.8	5200.000	5150 to 5250	Pass
			40	3.8	5200.060	5150 to 5250	Pass
			50	3.8	5200.040	5150 to 5250	Pass
		5240	20	3.46	5239.960	5150 to 5250	Pass
				3.8	5240.000	5150 to 5250	Pass
				4.35	5239.900	5150 to 5250	Pass
			-30	3.8	5239.960	5150 to 5250	Pass
			-20	3.8	5240.020	5150 to 5250	Pass
			-10	3.8	5239.960	5150 to 5250	Pass
			0	3.8	5240.000	5150 to 5250	Pass
			10	3.8	5240.000	5150 to 5250	Pass
			30	3.8	5239.920	5150 to 5250	Pass
			40	3.8	5239.920	5150 to 5250	Pass
			50	3.8	5240.000	5150 to 5250	Pass
		5745	20	3.46	5745.040	5725 to 5850	Pass
				3.8	5744.940	5725 to 5850	Pass
				4.35	5744.960	5725 to 5850	Pass
			-30	3.8	5744.980	5725 to 5850	Pass
			-20	3.8	5744.940	5725 to 5850	Pass
			-10	3.8	5744.960	5725 to 5850	Pass
			0	3.8	5744.980	5725 to 5850	Pass
			10	3.8	5744.920	5725 to 5850	Pass
			30	3.8	5744.980	5725 to 5850	Pass
			40	3.8	5745.060	5725 to 5850	Pass



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Compliance Certification Services (Kunshan) Inc.

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		5785	50	3.8	5744.940	5725 to 5850	Pass
			20	3.46	5785.020	5725 to 5850	Pass
				3.8	5784.980	5725 to 5850	Pass
				4.35	5785.040	5725 to 5850	Pass
			-30	3.8	5784.960	5725 to 5850	Pass
			-20	3.8	5785.000	5725 to 5850	Pass
			-10	3.8	5784.960	5725 to 5850	Pass
			0	3.8	5785.020	5725 to 5850	Pass
			10	3.8	5785.020	5725 to 5850	Pass
			30	3.8	5785.000	5725 to 5850	Pass
			40	3.8	5785.000	5725 to 5850	Pass
			50	3.8	5784.980	5725 to 5850	Pass
		5825	20	3.46	5825.000	5725 to 5850	Pass
				3.8	5824.920	5725 to 5850	Pass
				4.35	5824.940	5725 to 5850	Pass
			-30	3.8	5824.980	5725 to 5850	Pass
			-20	3.8	5824.980	5725 to 5850	Pass
			-10	3.8	5825.000	5725 to 5850	Pass
			0	3.8	5825.020	5725 to 5850	Pass
			10	3.8	5824.900	5725 to 5850	Pass
			30	3.8	5824.960	5725 to 5850	Pass
			40	3.8	5824.940	5725 to 5850	Pass
			50	3.8	5825.040	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	3.46	5190.000	5150 to 5250	Pass
				3.8	5190.000	5150 to 5250	Pass
				4.35	5190.000	5150 to 5250	Pass
			-30	3.8	5190.000	5150 to 5250	Pass
			-20	3.8	5189.960	5150 to 5250	Pass
			-10	3.8	5190.000	5150 to 5250	Pass
			0	3.8	5189.960	5150 to 5250	Pass
			10	3.8	5190.000	5150 to 5250	Pass
			30	3.8	5190.000	5150 to 5250	Pass
			40	3.8	5190.000	5150 to 5250	Pass
			50	3.8	5190.040	5150 to 5250	Pass
		5230	20	3.46	5230.000	5150 to 5250	Pass
				3.8	5230.000	5150 to 5250	Pass
				4.35	5230.000	5150 to 5250	Pass
			-30	3.8	5229.960	5150 to 5250	Pass
			-20	3.8	5229.960	5150 to 5250	Pass



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Compliance Certification Services (Kunshan) Inc.

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			-10	3.8	5229.960	5150 to 5250	Pass
			0	3.8	5230.000	5150 to 5250	Pass
			10	3.8	5229.920	5150 to 5250	Pass
			30	3.8	5229.960	5150 to 5250	Pass
			40	3.8	5230.000	5150 to 5250	Pass
			50	3.8	5229.960	5150 to 5250	Pass
		5755	20	3.46	5755.000	5725 to 5850	Pass
				3.8	5755.000	5725 to 5850	Pass
				4.35	5755.000	5725 to 5850	Pass
			-30	3.8	5754.960	5725 to 5850	Pass
			-20	3.8	5755.000	5725 to 5850	Pass
			-10	3.8	5755.040	5725 to 5850	Pass
			0	3.8	5755.000	5725 to 5850	Pass
			10	3.8	5754.960	5725 to 5850	Pass
			30	3.8	5755.040	5725 to 5850	Pass
			40	3.8	5755.000	5725 to 5850	Pass
			50	3.8	5755.000	5725 to 5850	Pass
		5795	20	3.46	5795.000	5725 to 5850	Pass
				3.8	5795.000	5725 to 5850	Pass
				4.35	5794.960	5725 to 5850	Pass
			-30	3.8	5795.000	5725 to 5850	Pass
			-20	3.8	5795.000	5725 to 5850	Pass
			-10	3.8	5794.960	5725 to 5850	Pass
			0	3.8	5795.000	5725 to 5850	Pass
			10	3.8	5795.040	5725 to 5850	Pass
			30	3.8	5795.000	5725 to 5850	Pass
			40	3.8	5795.000	5725 to 5850	Pass
			50	3.8	5795.000	5725 to 5850	Pass
		5180	20	3.46	5180.000	5150 to 5250	Pass
				3.8	5180.040	5150 to 5250	Pass
				4.35	5179.980	5150 to 5250	Pass
			-30	3.8	5179.980	5150 to 5250	Pass
			-20	3.8	5180.040	5150 to 5250	Pass
			-10	3.8	5180.020	5150 to 5250	Pass
			0	3.8	5179.980	5150 to 5250	Pass
			10	3.8	5179.980	5150 to 5250	Pass
			30	3.8	5180.000	5150 to 5250	Pass
			40	3.8	5179.980	5150 to 5250	Pass
			50	3.8	5179.980	5150 to 5250	Pass

802.11ac
(VHT20)

SISO

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		5200	20	3.46	5200.060	5150 to 5250	Pass
				3.8	5199.980	5150 to 5250	Pass
				4.35	5200.080	5150 to 5250	Pass
			-30	3.8	5200.080	5150 to 5250	Pass
			-20	3.8	5200.000	5150 to 5250	Pass
			-10	3.8	5200.020	5150 to 5250	Pass
			0	3.8	5200.000	5150 to 5250	Pass
			10	3.8	5200.020	5150 to 5250	Pass
			30	3.8	5200.040	5150 to 5250	Pass
			40	3.8	5200.000	5150 to 5250	Pass
			50	3.8	5200.040	5150 to 5250	Pass
		5240	20	3.46	5240.040	5150 to 5250	Pass
				3.8	5239.900	5150 to 5250	Pass
				4.35	5240.000	5150 to 5250	Pass
			-30	3.8	5239.940	5150 to 5250	Pass
			-20	3.8	5239.900	5150 to 5250	Pass
			-10	3.8	5240.000	5150 to 5250	Pass
			0	3.8	5239.980	5150 to 5250	Pass
			10	3.8	5240.000	5150 to 5250	Pass
			30	3.8	5240.040	5150 to 5250	Pass
			40	3.8	5240.000	5150 to 5250	Pass
			50	3.8	5240.000	5150 to 5250	Pass
		5745	20	3.46	5745.020	5725 to 5850	Pass
				3.8	5744.980	5725 to 5850	Pass
				4.35	5744.980	5725 to 5850	Pass
			-30	3.8	5745.040	5725 to 5850	Pass
			-20	3.8	5744.940	5725 to 5850	Pass
			-10	3.8	5745.040	5725 to 5850	Pass
			0	3.8	5745.000	5725 to 5850	Pass
			10	3.8	5745.000	5725 to 5850	Pass
			30	3.8	5744.980	5725 to 5850	Pass
			40	3.8	5745.060	5725 to 5850	Pass
			50	3.8	5745.020	5725 to 5850	Pass
		5785	20	3.46	5785.020	5725 to 5850	Pass
				3.8	5784.980	5725 to 5850	Pass
				4.35	5785.000	5725 to 5850	Pass
			-30	3.8	5785.020	5725 to 5850	Pass
			-20	3.8	5784.960	5725 to 5850	Pass
			-10	3.8	5785.060	5725 to 5850	Pass



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802.11ac (VHT40)	SISO		0	3.8	5784.960	5725 to 5850	Pass
			10	3.8	5785.040	5725 to 5850	Pass
			30	3.8	5785.020	5725 to 5850	Pass
			40	3.8	5785.020	5725 to 5850	Pass
			50	3.8	5785.060	5725 to 5850	Pass
		5825	20	3.46	5824.980	5725 to 5850	Pass
				3.8	5824.980	5725 to 5850	Pass
				4.35	5824.980	5725 to 5850	Pass
			-30	3.8	5824.960	5725 to 5850	Pass
			-20	3.8	5824.980	5725 to 5850	Pass
			-10	3.8	5824.980	5725 to 5850	Pass
			0	3.8	5824.920	5725 to 5850	Pass
			10	3.8	5824.980	5725 to 5850	Pass
			30	3.8	5825.020	5725 to 5850	Pass
			40	3.8	5825.020	5725 to 5850	Pass
			50	3.8	5824.980	5725 to 5850	Pass
		5190	20	3.46	5190.000	5150 to 5250	Pass
				3.8	5190.000	5150 to 5250	Pass
				4.35	5190.000	5150 to 5250	Pass
			-30	3.8	5189.960	5150 to 5250	Pass
			-20	3.8	5190.000	5150 to 5250	Pass
			-10	3.8	5190.000	5150 to 5250	Pass
			0	3.8	5190.040	5150 to 5250	Pass
			10	3.8	5190.000	5150 to 5250	Pass
			30	3.8	5190.000	5150 to 5250	Pass
			40	3.8	5189.960	5150 to 5250	Pass
			50	3.8	5190.040	5150 to 5250	Pass
		5230	20	3.46	5229.960	5150 to 5250	Pass
				3.8	5229.920	5150 to 5250	Pass
				4.35	5229.960	5150 to 5250	Pass
			-30	3.8	5229.960	5150 to 5250	Pass
			-20	3.8	5230.000	5150 to 5250	Pass
			-10	3.8	5230.000	5150 to 5250	Pass
			0	3.8	5229.960	5150 to 5250	Pass
			10	3.8	5230.000	5150 to 5250	Pass
			30	3.8	5230.000	5150 to 5250	Pass
			40	3.8	5229.960	5150 to 5250	Pass
			50	3.8	5230.040	5150 to 5250	Pass
		5755	20	3.46	5754.920	5725 to 5850	Pass



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000185704

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				3.8	5754.960	5725 to 5850	Pass
				4.35	5754.920	5725 to 5850	Pass
			-30	3.8	5754.920	5725 to 5850	Pass
			-20	3.8	5754.960	5725 to 5850	Pass
			-10	3.8	5755.000	5725 to 5850	Pass
			0	3.8	5754.960	5725 to 5850	Pass
			10	3.8	5755.000	5725 to 5850	Pass
			30	3.8	5755.000	5725 to 5850	Pass
			40	3.8	5754.920	5725 to 5850	Pass
			50	3.8	5755.000	5725 to 5850	Pass
		5795	20	3.46	5794.920	5725 to 5850	Pass
				3.8	5795.000	5725 to 5850	Pass
				4.35	5795.000	5725 to 5850	Pass
			-30	3.8	5795.040	5725 to 5850	Pass
			-20	3.8	5795.000	5725 to 5850	Pass
			-10	3.8	5794.960	5725 to 5850	Pass
			0	3.8	5794.960	5725 to 5850	Pass
			10	3.8	5795.000	5725 to 5850	Pass
			30	3.8	5794.960	5725 to 5850	Pass
			40	3.8	5795.040	5725 to 5850	Pass
			50	3.8	5795.040	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	3.46	5209.925	5150 to 5250	Pass
				3.8	5210.000	5150 to 5250	Pass
				4.35	5210.000	5150 to 5250	Pass
			-30	3.8	5209.925	5150 to 5250	Pass
			-20	3.8	5209.925	5150 to 5250	Pass
			-10	3.8	5210.000	5150 to 5250	Pass
			0	3.8	5209.925	5150 to 5250	Pass
			10	3.8	5209.925	5150 to 5250	Pass
			30	3.8	5209.925	5150 to 5250	Pass
			40	3.8	5209.925	5150 to 5250	Pass
			50	3.8	5210.000	5150 to 5250	Pass
		5775	20	3.46	5775.000	5725 to 5850	Pass
				3.8	5775.000	5725 to 5850	Pass
				4.35	5774.850	5725 to 5850	Pass
			-30	3.8	5774.925	5725 to 5850	Pass
			-20	3.8	5775.000	5725 to 5850	Pass
			-10	3.8	5774.925	5725 to 5850	Pass
			0	3.8	5774.925	5725 to 5850	Pass



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			50	3.8	5775.000	5725 to 5850	Pass

- End of the Report -



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