

TEST REPORT

Application No.: KSCR2305000762AT
FCC ID: 2AL8S-9801C24G
Applicant: Zhejiang Uniview Technologies Co., Ltd.
Address of Applicant: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China
Manufacturer: Zhejiang Uniview Technologies Co., Ltd.
Address of Manufacturer: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China
Factory: Zhejiang Uniview System Technology Co., Ltd.
Address of Factory: No.1277 Qingfeng South Road(South), Tongxiang Economic Development Zone, Tongxiang City, Jiaxing City, 314500, Zhejiang, China

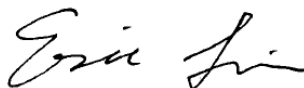
Equipment Under Test (EUT):

EUT Name: Wireless Bridge
Model No.: WLN-EB5E-IN,WLN-EB5E-IN-NB,WLN-EB5E,WLN-EB5E-xxxxxxx-
 yyyyyyy-zzz(where x y z may be 0-9 A-Z a-z or blank, or -. "-" is optional.
 The differences no impact safety related constructions and EMC). ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-05-04
Date of Test: 2023-05-10 to 2023-05-14
Date of Issue: 2023-05-18

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



Eric Lin
 Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Original	2023-05-18	/

Authorized for issue by:			
		<i>Damon Zhou</i>	

		Damon Zhou /Project Engineer	
		<i>Eric Lin</i>	

		Eric Lin /Reviewer	



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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass

Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the Identical in electrical and electronic characters. Only the model WLN-EB5E-IN was tested since their differences were the model number.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 24V,0.5A POE
Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11a/n(HT20): 20MHz; 802.11n(HT40): 40MHz
DFS Function:	Without DFS function
Antenna Type:	PCB Antenna
Antenna Gain:	Antenna 1: 15dBi (Provided by the manufacturer) Antenna 2: 15dBi (Provided by the manufacturer) Directional gain: 18.01 (Provided by the manufacturer)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
POE Adapter	GOSPELL	G0549A-240-050	/
Notebook	Lenovo	/	/



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4.3 Power level setting using in test

Channel	802.11a		802.11n(HT20)	
	Ant 1	Ant 2	Ant 1	Ant 2
36	12	12	10	10
40	12	12	10	10
48	12	12	10	10
149	10	10	10	10
157	10	10	10	10
165	10	10	10	10

Channel	802.11n(HT40)	
	Ant 1	Ant 2
38	8	8
46	8	8
151	10	10
159	10	10



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4.4 Measurement Uncertainty

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

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



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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	02/03/2023	02/02/2024
2	LISN	R&S	ENV216	KS301197	01/17/2023	01/16/2024
3	LISN	Schwarzbeck	NNLK 8129	KS301091	01/17/2023	01/16/2024
4	Pulse Limiter	R&S	ESH3-Z2	KUS1902E001	01/17/2023	01/16/2024
5	CE test Cable	Thermax	/	CZ301102	01/17/2023	01/16/2024
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	02/03/2023	02/02/2024
4	Signal Generator	R&S	SMBV100B	KSEM032	03/16/2023	03/15/2024
5	Signal Generator	R&S	SMW200A	KSEM020-1	08/22/2022	08/21/2023
6	Signal Generator	Agilent	N5182A	KUS2001M001-1	08/22/2022	08/21/2023
7	Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	08/22/2022	08/21/2023
8	Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	03/16/2023	03/15/2024
9	Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	08/22/2022	08/21/2023
10	Switcher	CCSRF	FY562	KUS2001M001-3	08/22/2022	08/21/2023
11	AC Power Source	EXTECH	6605	KS301178	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	KS301180	N.C.R	N.C.R
13	Conducted Test Cable	Thermax	RF01-RF04	CZ301111-CZ301120	02/03/2023	02/02/2024
14	Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	11/16/2022	11/15/2023
15	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	03/22/2023	03/21/2024
16	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	03/16/2023	03/15/2024
3	Signal Generator	Agilent	E8257C	KS301066	08/22/2022	08/21/2023
4	Loop Antenna	COM-POWER	AL-130R	KUS1806E001	03/18/2023	03/17/2025
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	02/21/2023	02/20/2024
9	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	CZ301058	02/26/2023	02/25/2024
10	Amplifier(30MHz~18GHz)	PANSHAN TECHNOLOGY	LNA:1~18G	KSEM010-1	01/17/2023	01/16/2024
11	Amplifier(18~40GHz)	COM-POWER	PAM-840A	KUS1710E001	01/21/2023	01/20/2024



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12	RE Test Cable	REBES MICROWAVE	/	CZ301097	11/12/2022	11/11/2023
13	Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-4	03/22/2023	03/21/2024
14	Software	Faratronic	EZ_EMCC-v3A1	/	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 an 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 integrated on the main PCB and no consideration of replacement. The best case gain of the Antenna 1: 15dBi; Antenna 2: 15dBi; the directional gain is: 18.01dBi. 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

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

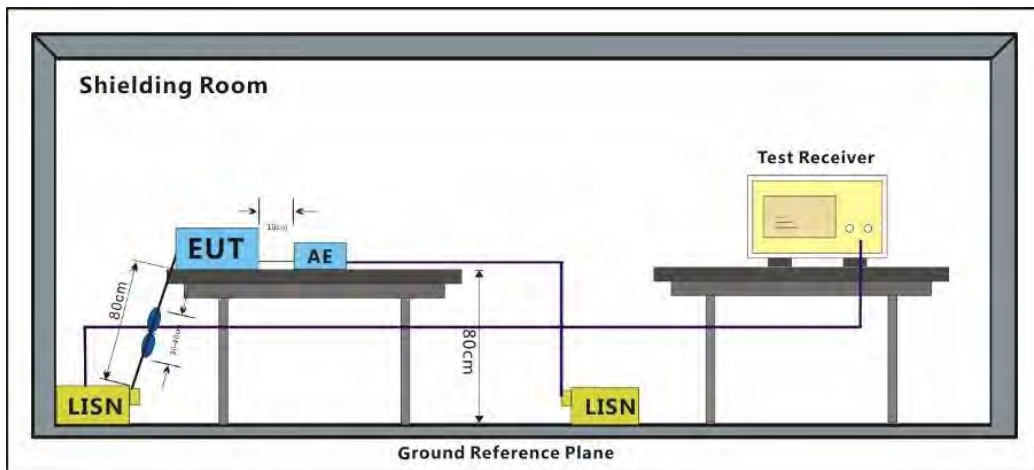
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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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 + 5ohm 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: Level=Read Level+ Cable Loss+ LISN Factor



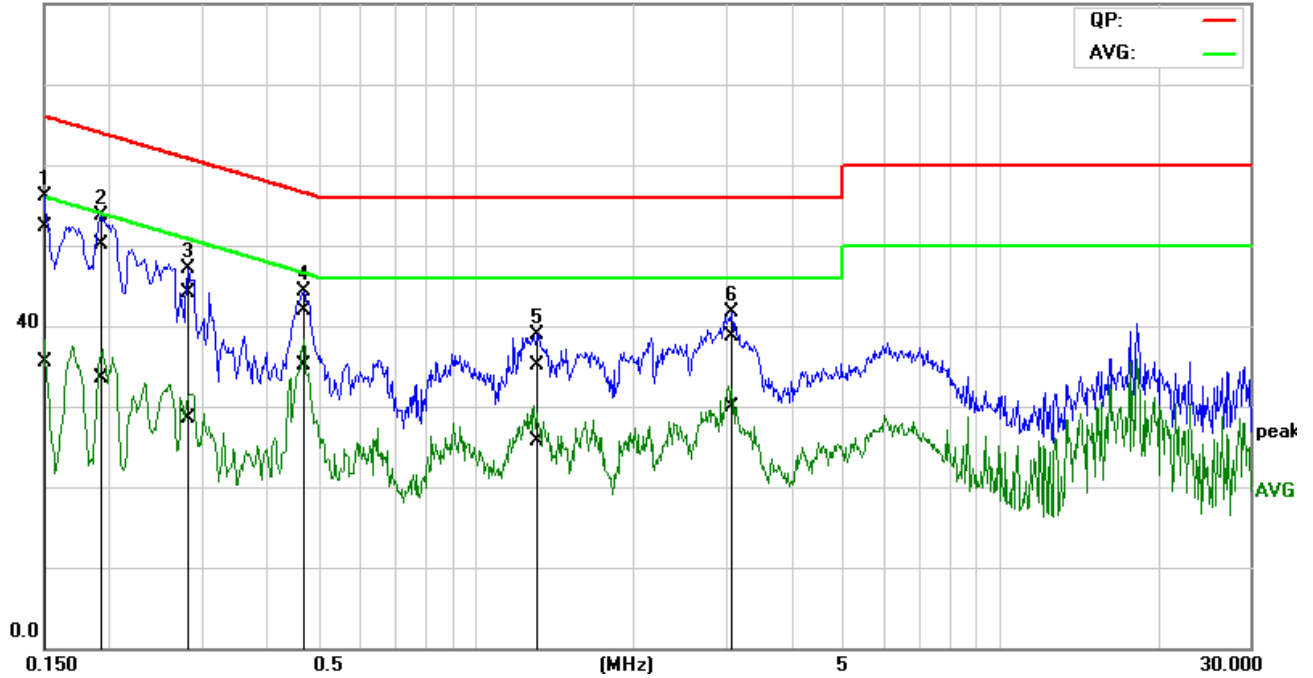
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Test Mode: 00; Line: Live line

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	0.1500	32.06	15.35	20.25	52.31	35.60	66.00	56.00	-13.69	-20.40	Pass
2	0.1923	29.95	13.33	20.16	50.11	33.49	63.94	53.94	-13.83	-20.45	Pass
3	0.2819	23.93	8.35	20.15	44.08	28.50	60.76	50.76	-16.68	-22.26	Pass
4*	0.4700	21.82	14.95	20.07	41.89	35.02	56.51	46.51	-14.62	-11.49	Pass
5	1.3099	15.02	5.79	20.00	35.02	25.79	56.00	46.00	-20.98	-20.21	Pass
6	3.0740	18.64	9.85	19.99	38.63	29.84	56.00	46.00	-17.37	-16.16	Pass

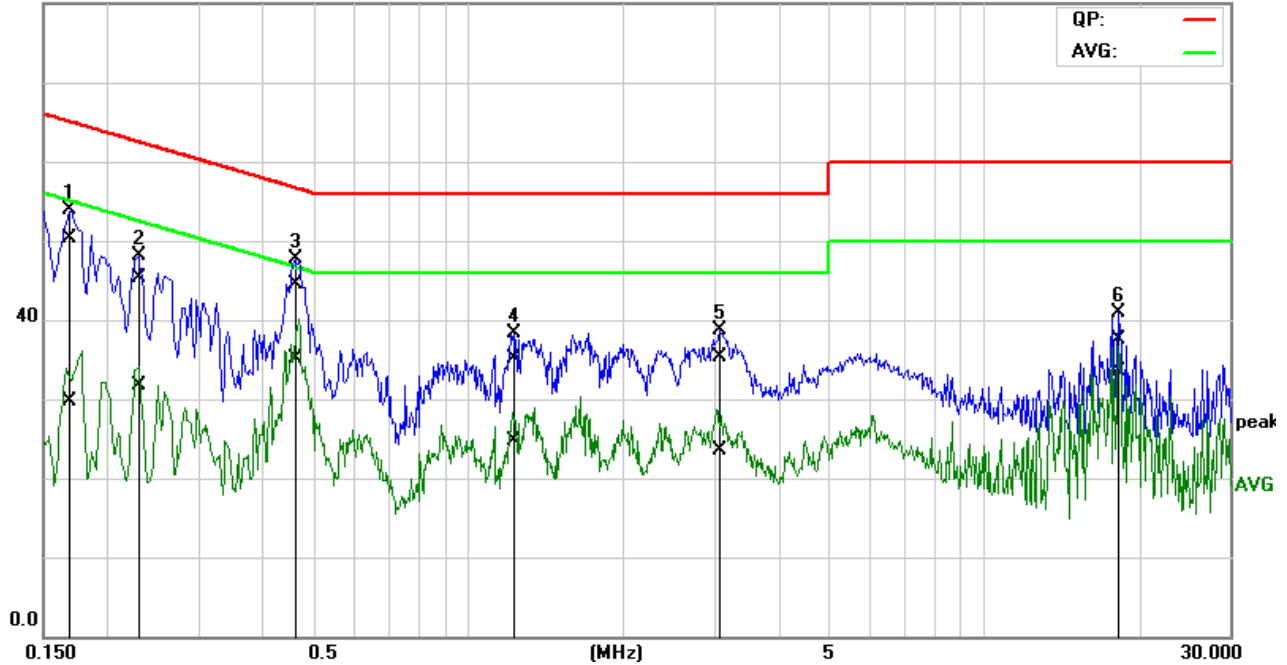


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Test Mode: 00; Line: Neutral Line

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	0.1700	30.02	9.42	20.21	50.23	29.63	64.96	54.96	-14.73	-25.33	Pass
2	0.2300	25.16	11.64	20.15	45.31	31.79	62.45	52.45	-17.14	-20.66	Pass
3*	0.4620	24.42	15.06	20.08	44.50	35.14	56.66	46.66	-12.16	-11.52	Pass
4	1.2260	15.01	4.68	20.01	35.02	24.69	56.00	46.00	-20.98	-21.31	Pass
5	3.0820	15.27	3.51	19.99	35.26	23.50	56.00	46.00	-20.74	-22.50	Pass
6	18.2420	17.53	13.54	19.96	37.49	33.50	60.00	50.00	-22.51	-16.50	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: 24.5 °C

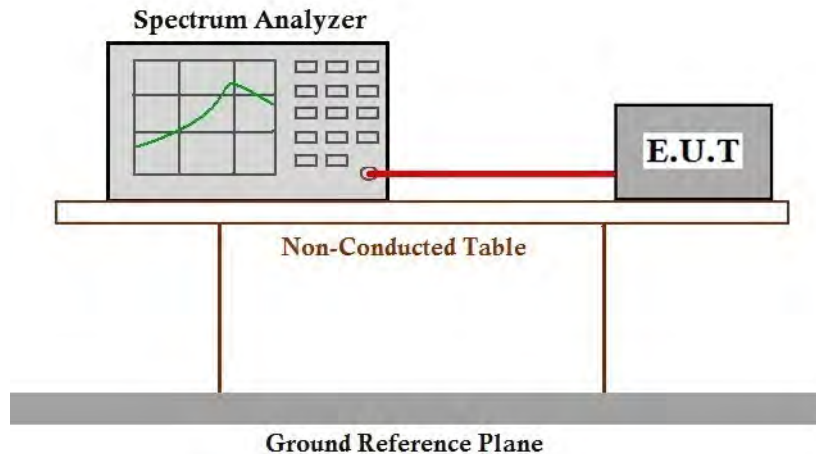
Humidity: 50.8 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

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

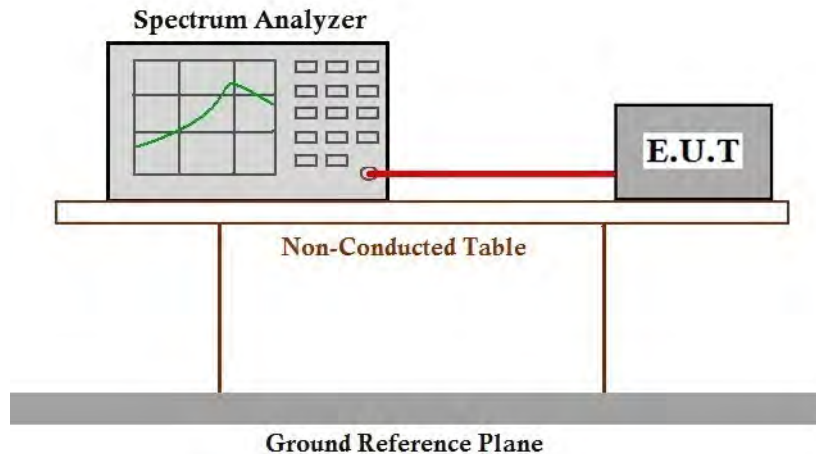
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

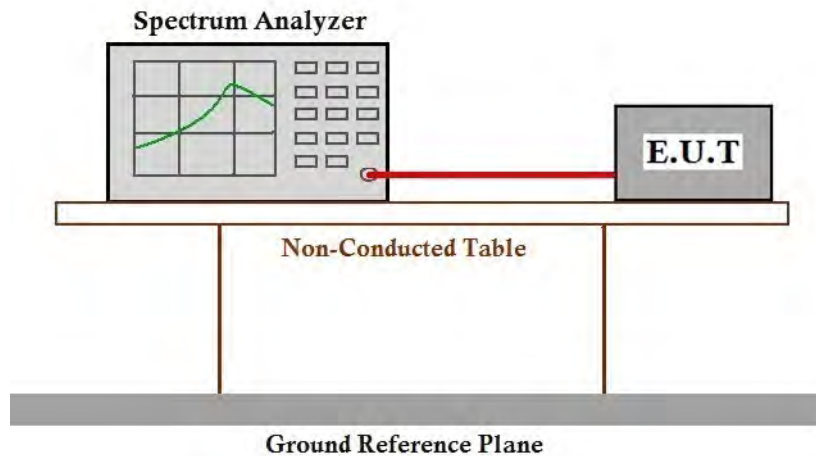
Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 24.5 °C

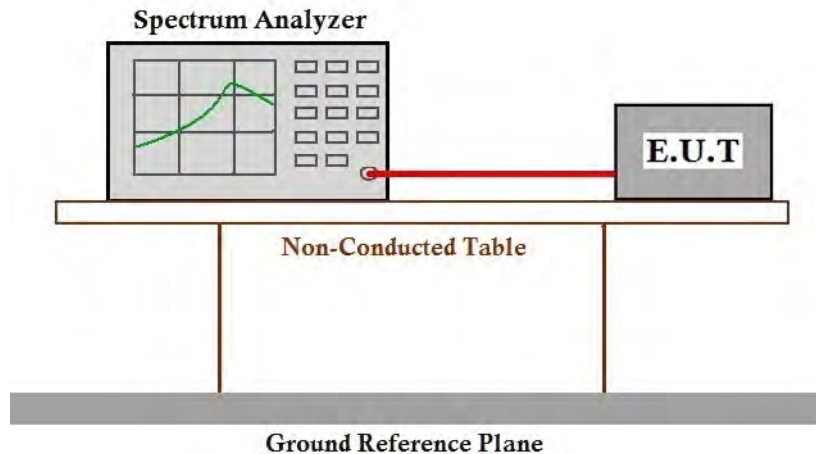
Humidity: 50.8 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-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), 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

Please Refer to Appendix for Details



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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:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
	E.I.R.P ≤125mW(21dBm) for outdoor access point
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:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p> <p>The Gain of 802.11a each antenna is Ant 1: 15dBi, Ant 2: 15dBi Therefore, the power limit should be reduced from the part exceeding 6, For Ant 1:5150-5250MHz: 15dBm & 5725-5850MHz: 21dBm. For Ant 2:5150-5250MHz: 15dBm & 5725-5850MHz: 21dBm.</p> <p>The EUT 802.11n mode supports 2 * 2 MIMO transmission. The Gain of each antenna is Ant 1: 15dBi, Ant 2: 15dBi, so the Directional Gain: 18.01dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5150-5250MHz: 11.99dBm & 5725-5850MHz: 17.99dBm.</p>

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

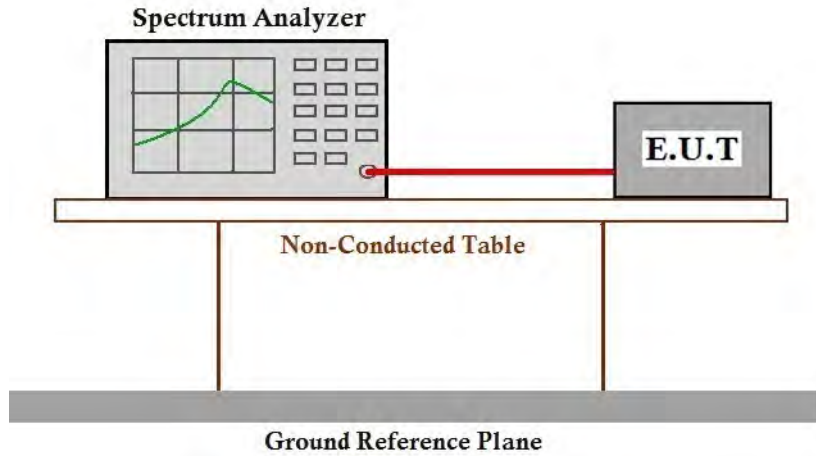
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	<p>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</p> <p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.</p> <p>The Gain of 802.11a each antenna is Ant 1: 15dBi, Ant 2: 15dBi</p> <p>Therefore, the Power spectrum density limit should be reduced from the part exceeding 6,</p> <p>For ant 1:5150-5250MHz: 2dBm/MHz & 5725-5850MHz: 21dBm/500 kHz.</p> <p>For ant 2:5150-5250MHz: 2dBm/MHz & 5725-5850MHz: 21dBm/500 kHz.</p> <p>The EUT 802.11n mode supports 2 * 2 MIMO transmission. The Gain of each antenna is Ant 1: 15dBi, Ant 2: 15dBi, so the Directional Gain: 18.01dBi.</p> <p>Therefore, the Power spectrum density limit should be reduced from the part exceeding 6,</p> <p>5150-5250MHz: -1.01dBm/MHz & 5725-5850MHz: 17.99dBm/500 kHz.</p>

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

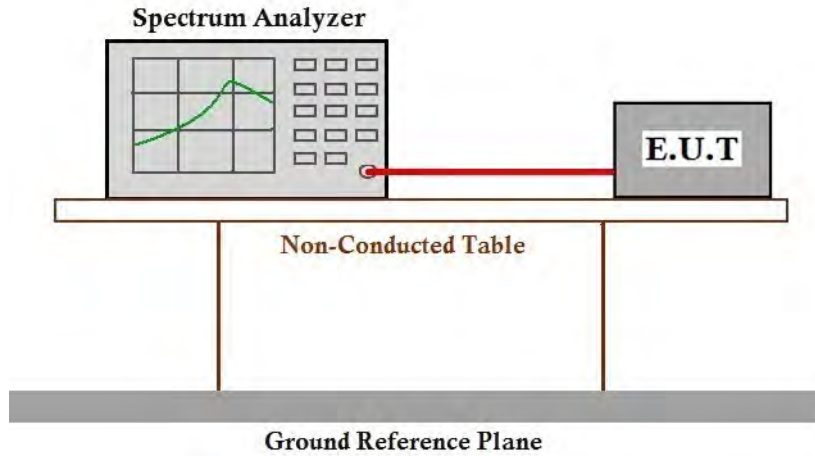
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), 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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>* Frequency in CFR 15.205 Restricted Band.</p> <p>Note: Frequency in non-Restricted Band:</p> <p>(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.</p>		

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar



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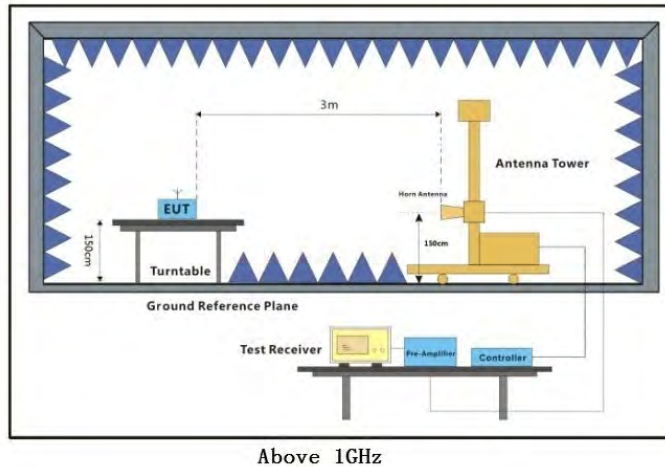
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7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), 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:

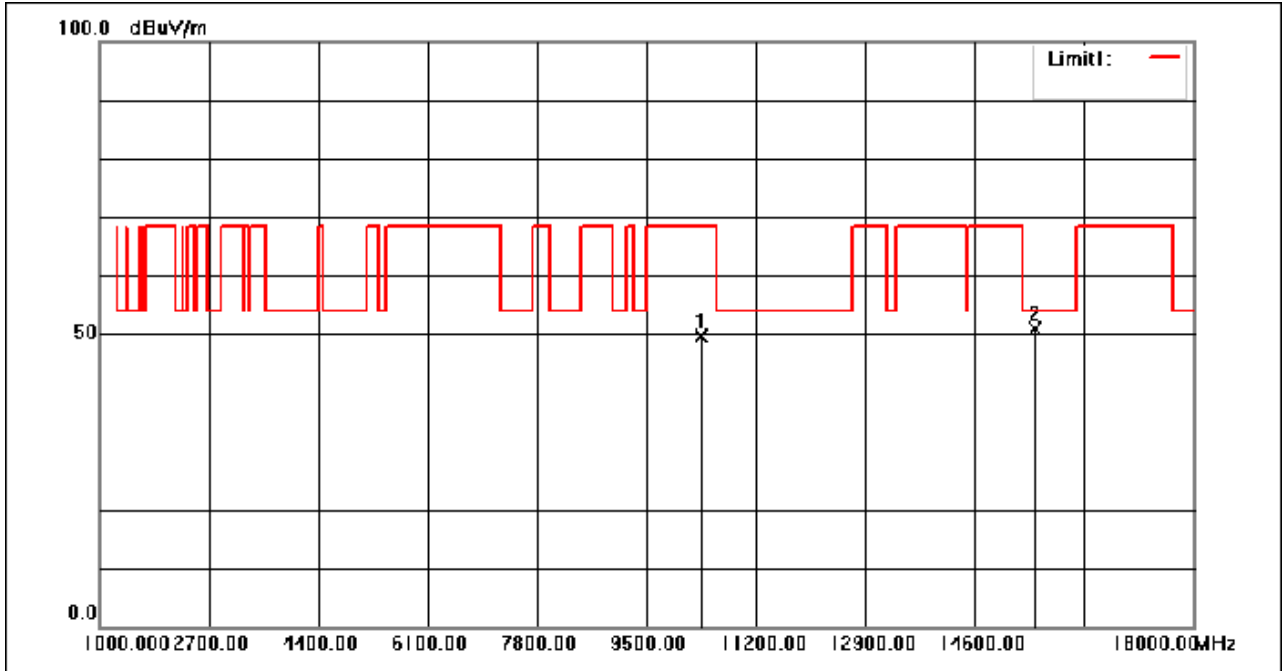
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.58	0.16	49.74	68.30	-18.56	peak
2	15540.000	45.22	5.73	50.95	54.00	-3.05	peak



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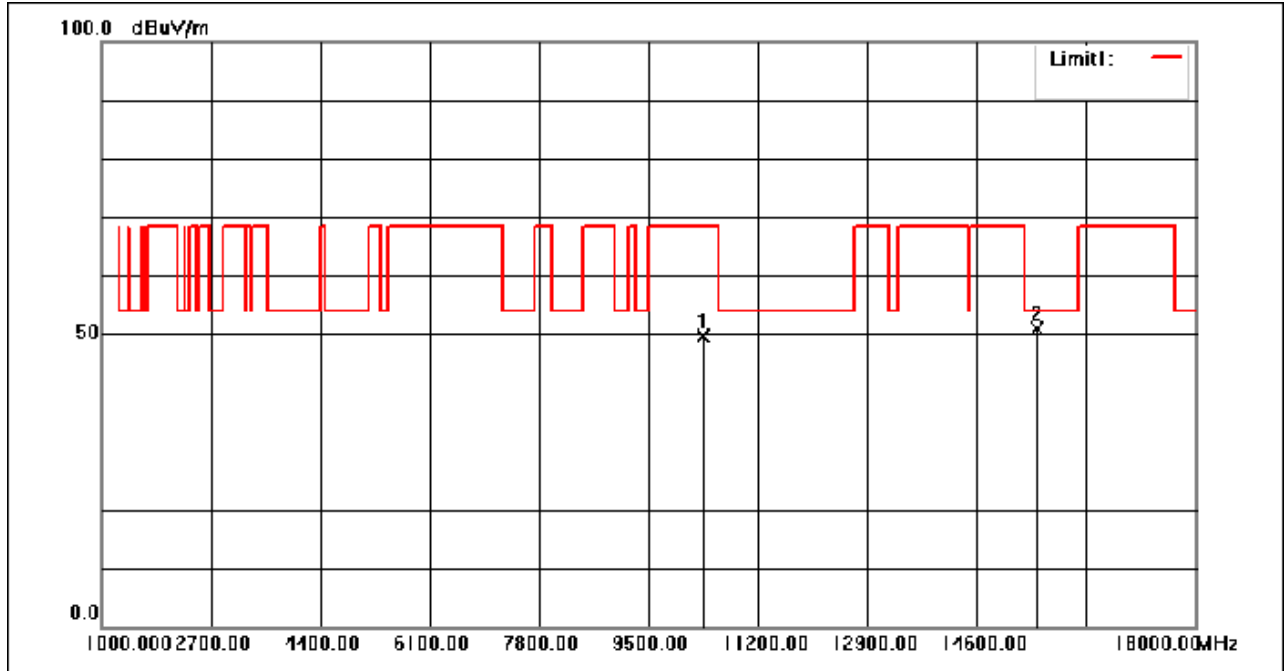
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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



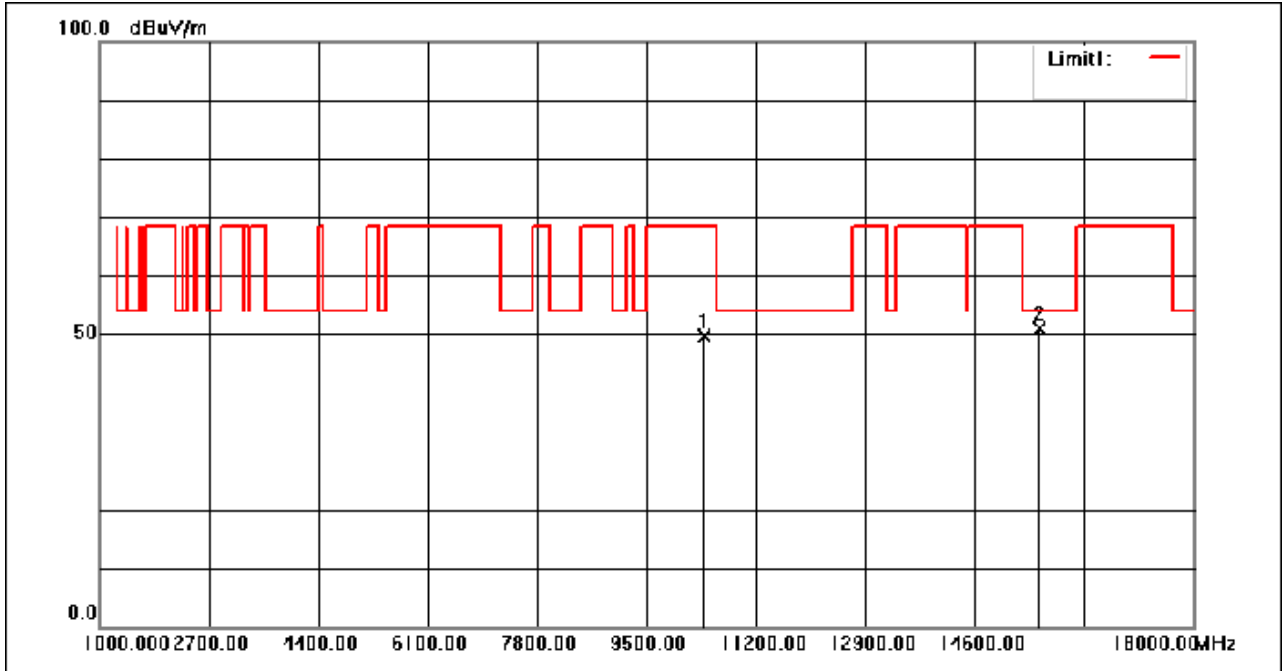
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.52	0.16	49.68	68.30	-18.62	peak
2	15540.000	45.12	5.73	50.85	54.00	-3.15	peak



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



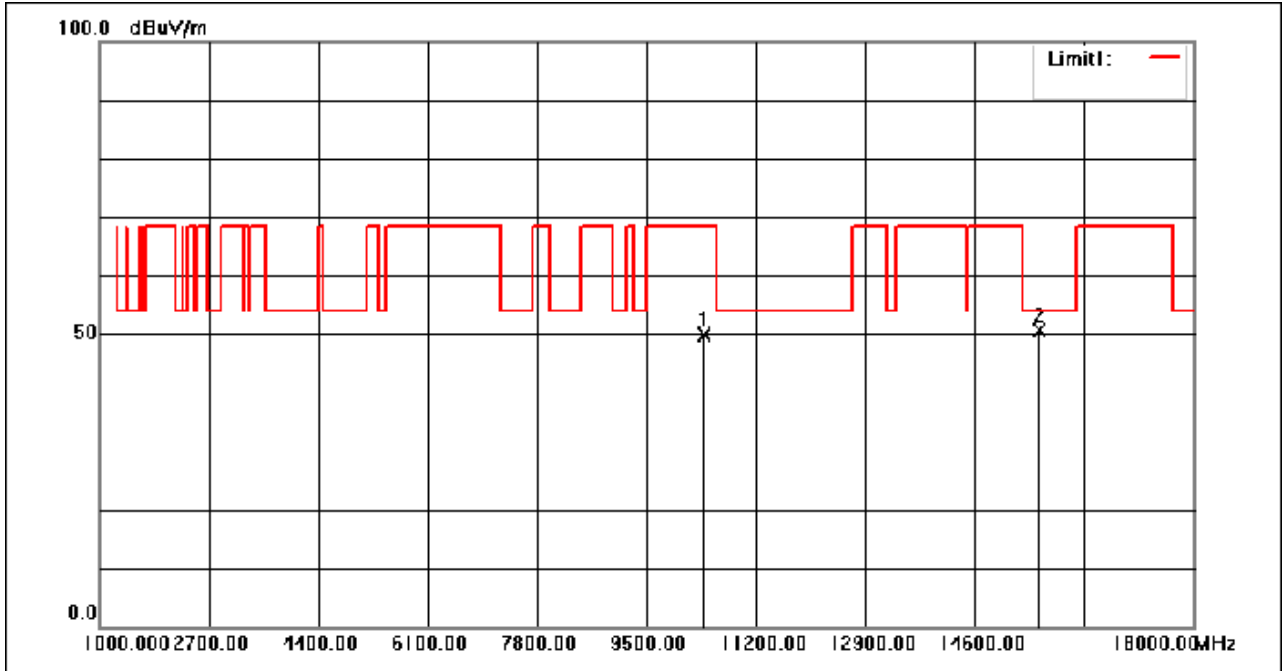
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.35	0.24	49.59	68.30	-18.71	peak
2	15600.000	45.15	5.85	51.00	54.00	-3.00	peak



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



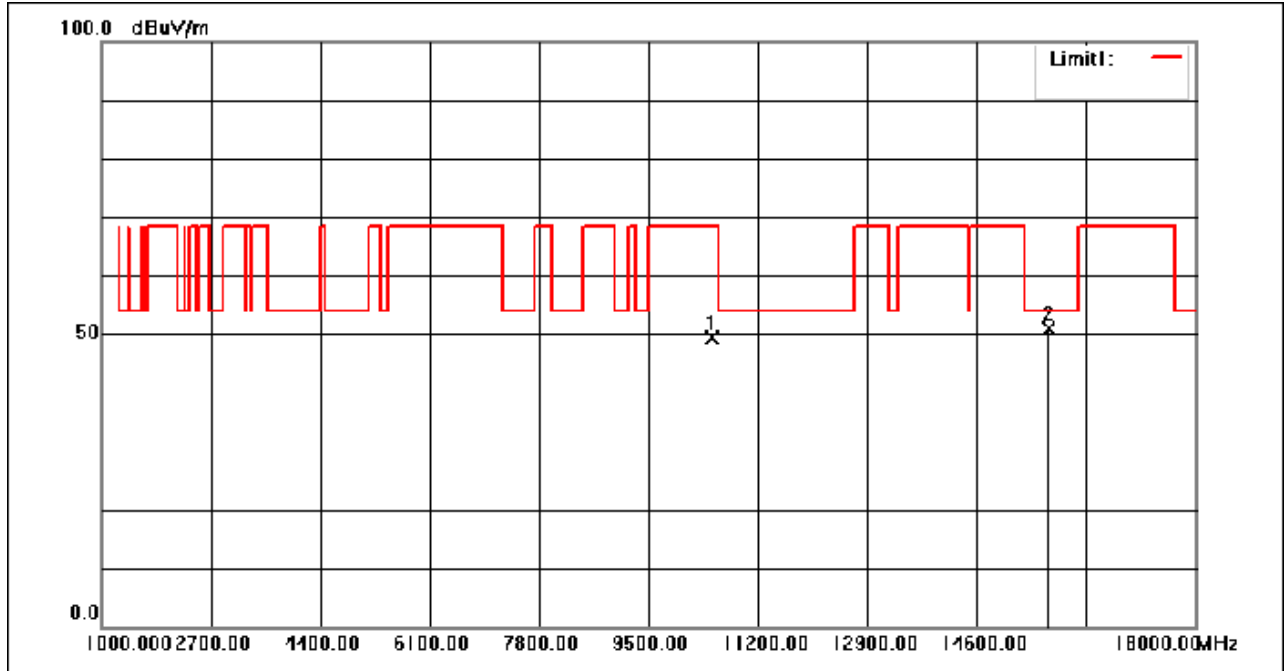
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.60	0.24	49.84	68.30	-18.46	peak
2	15600.000	44.75	5.85	50.60	54.00	-3.40	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.99	0.40	49.39	68.30	-18.91	peak
2	15720.000	44.67	6.10	50.77	54.00	-3.23	peak



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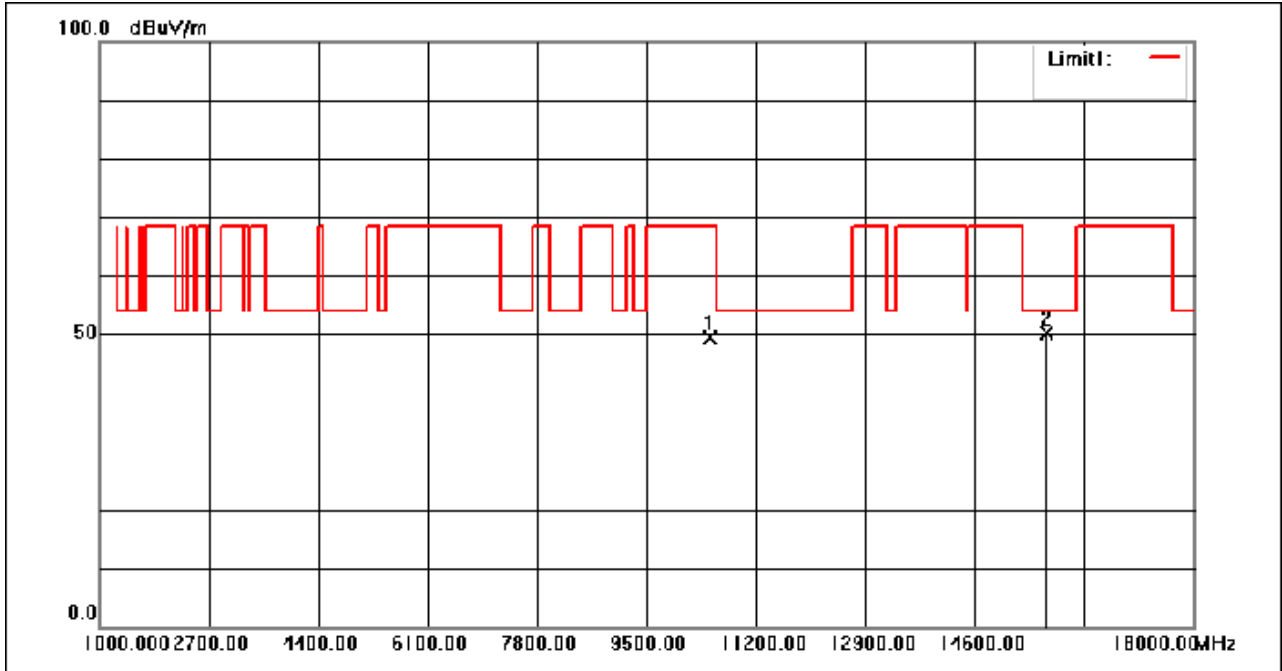
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



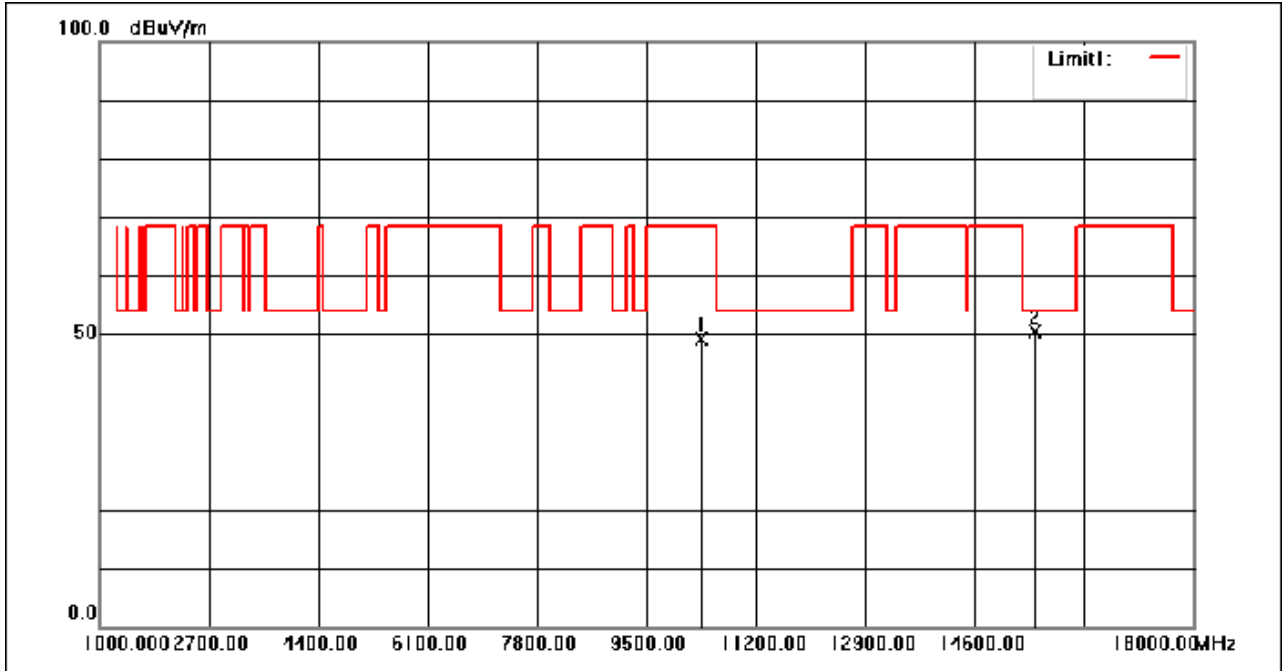
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.90	0.40	49.30	68.30	-19.00	peak
2	15720.000	43.97	6.10	50.07	54.00	-3.93	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	48.88	0.16	49.04	68.30	-19.26	peak
2	15540.000	44.72	5.73	50.45	54.00	-3.55	peak



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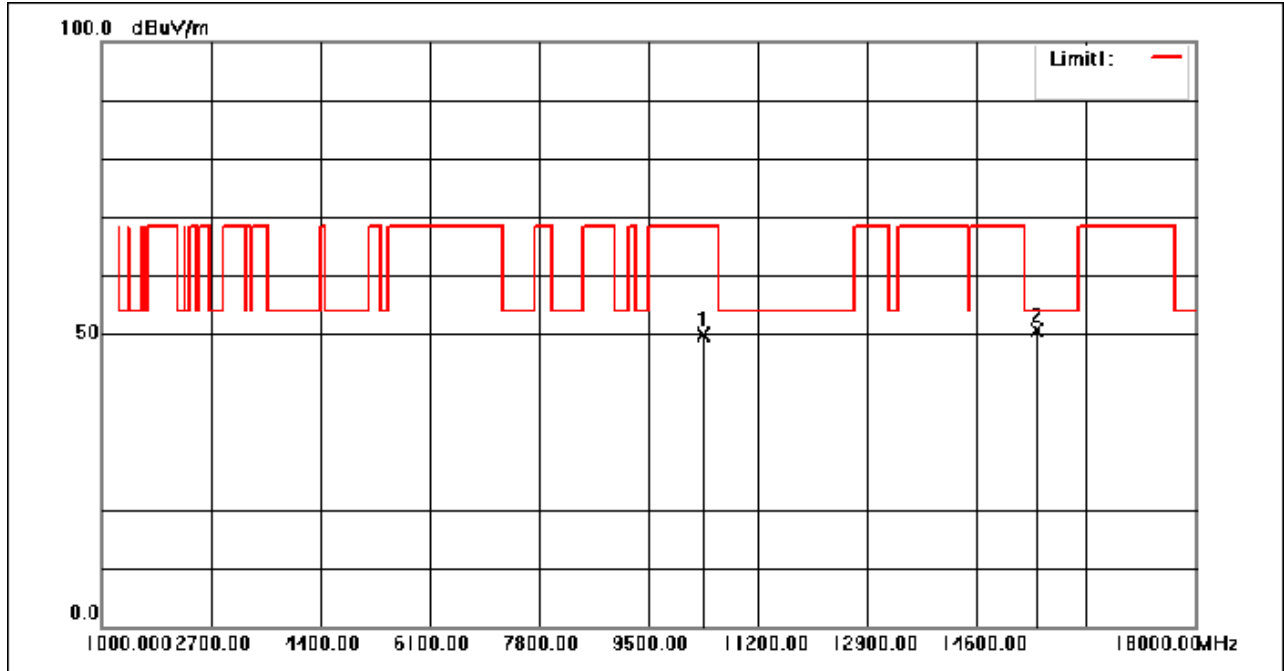
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	49.64	0.16	49.80	68.30	-18.50	peak
2	15540.000	45.02	5.73	50.75	54.00	-3.25	peak



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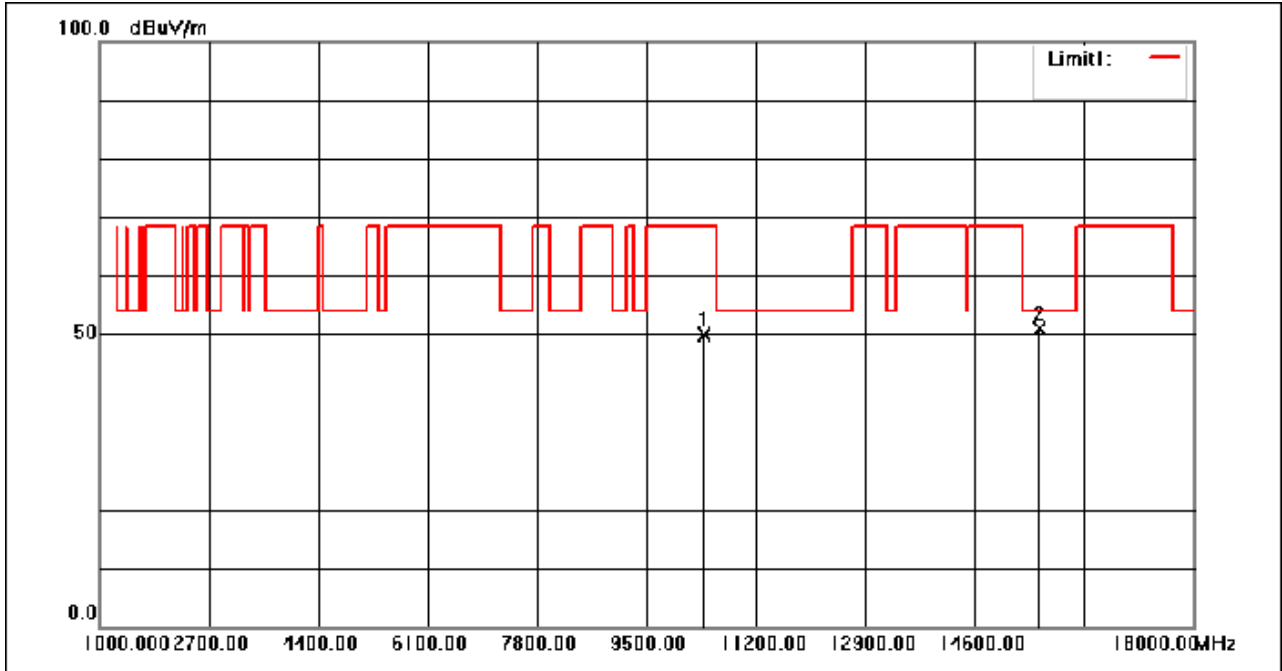
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



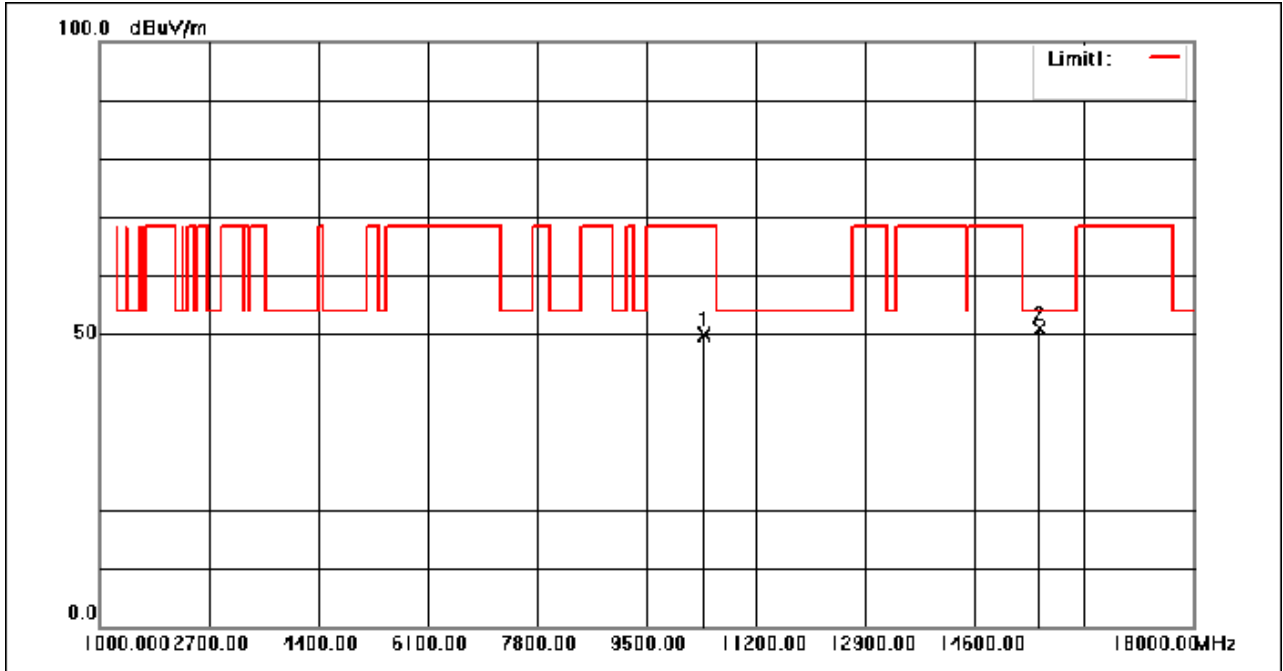
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.63	0.24	49.87	68.30	-18.43	peak
2	15600.000	45.13	5.85	50.98	54.00	-3.02	peak



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



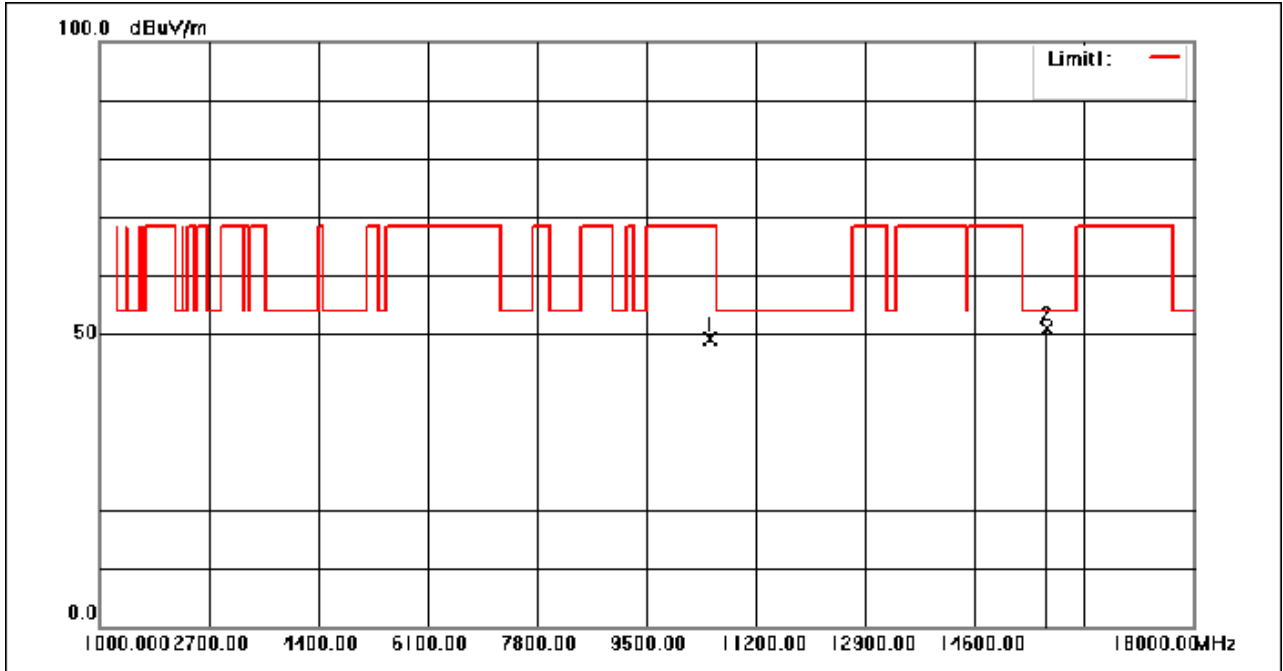
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.66	0.24	49.90	68.30	-18.40	peak
2	15600.000	45.01	5.85	50.86	54.00	-3.14	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	48.85	0.40	49.25	68.30	-19.05	peak
2	15720.000	44.72	6.10	50.82	54.00	-3.18	peak



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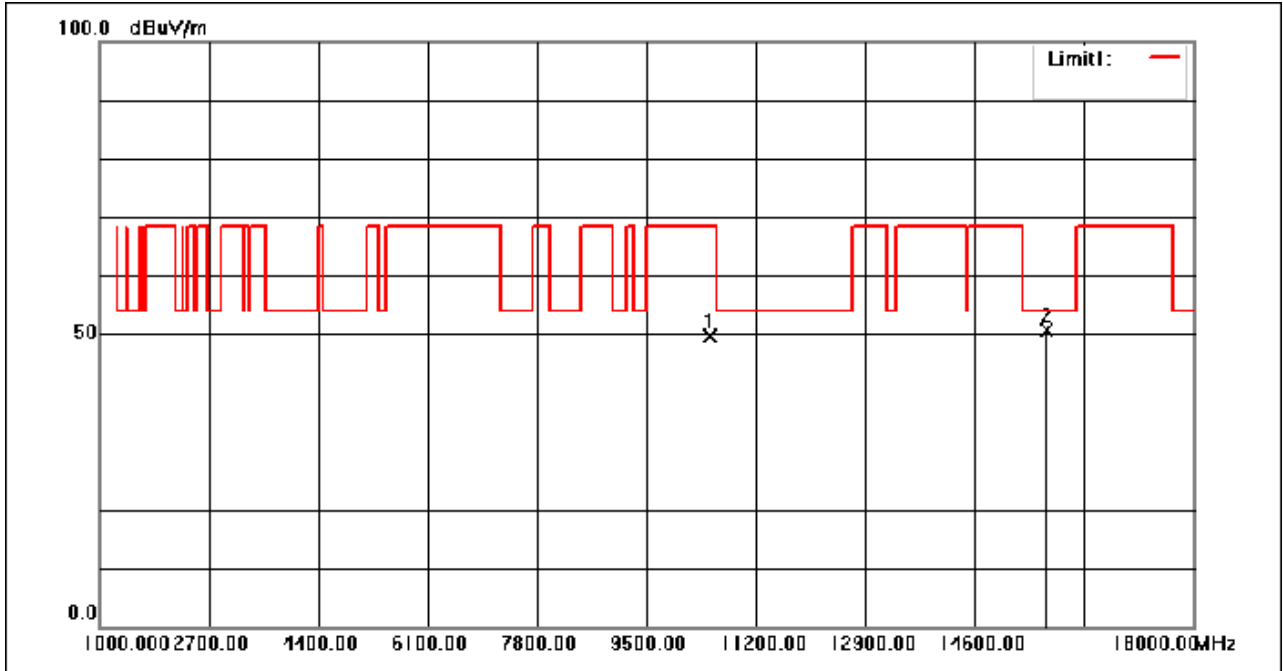
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.18	0.40	49.58	68.30	-18.72	peak
2	15720.000	44.58	6.10	50.68	54.00	-3.32	peak



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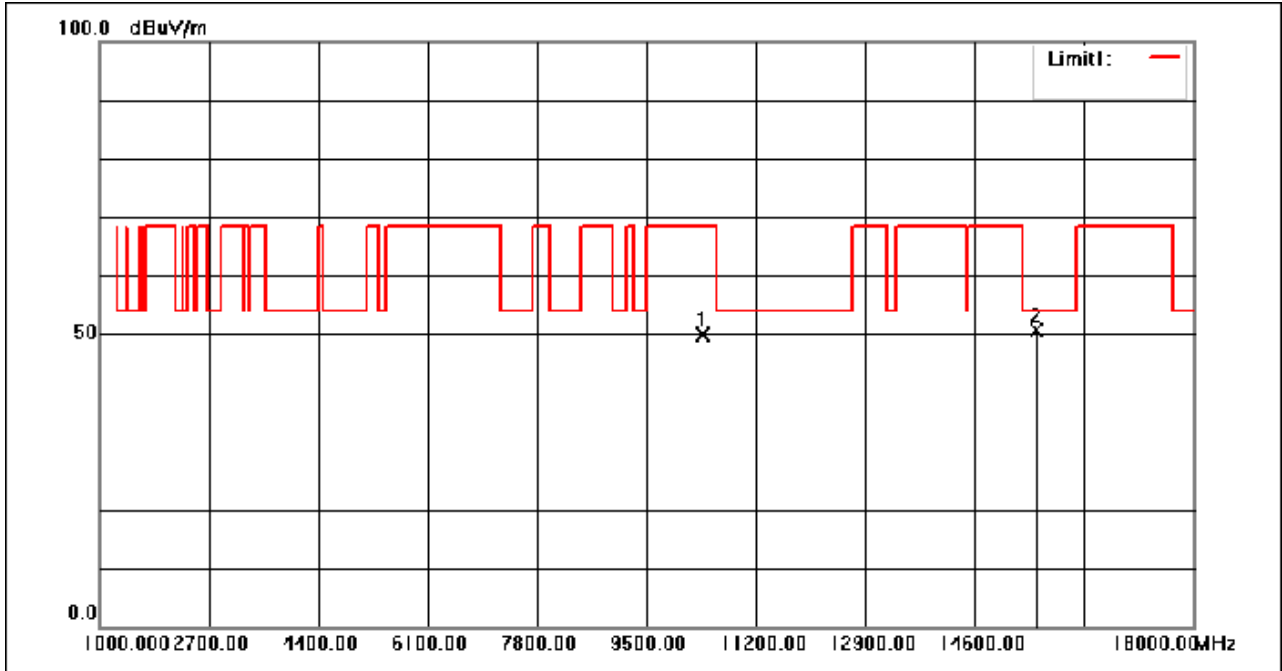
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.67	0.20	49.87	68.30	-18.43	peak
2	15570.000	44.77	5.79	50.56	54.00	-3.44	peak



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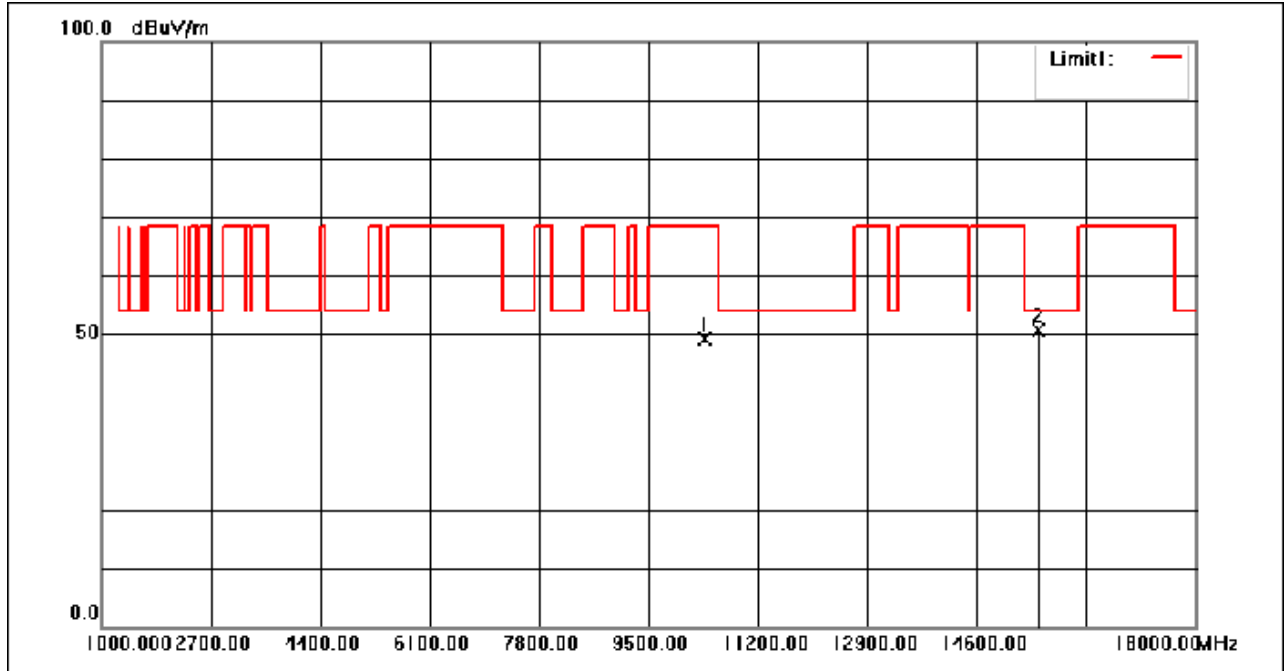
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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



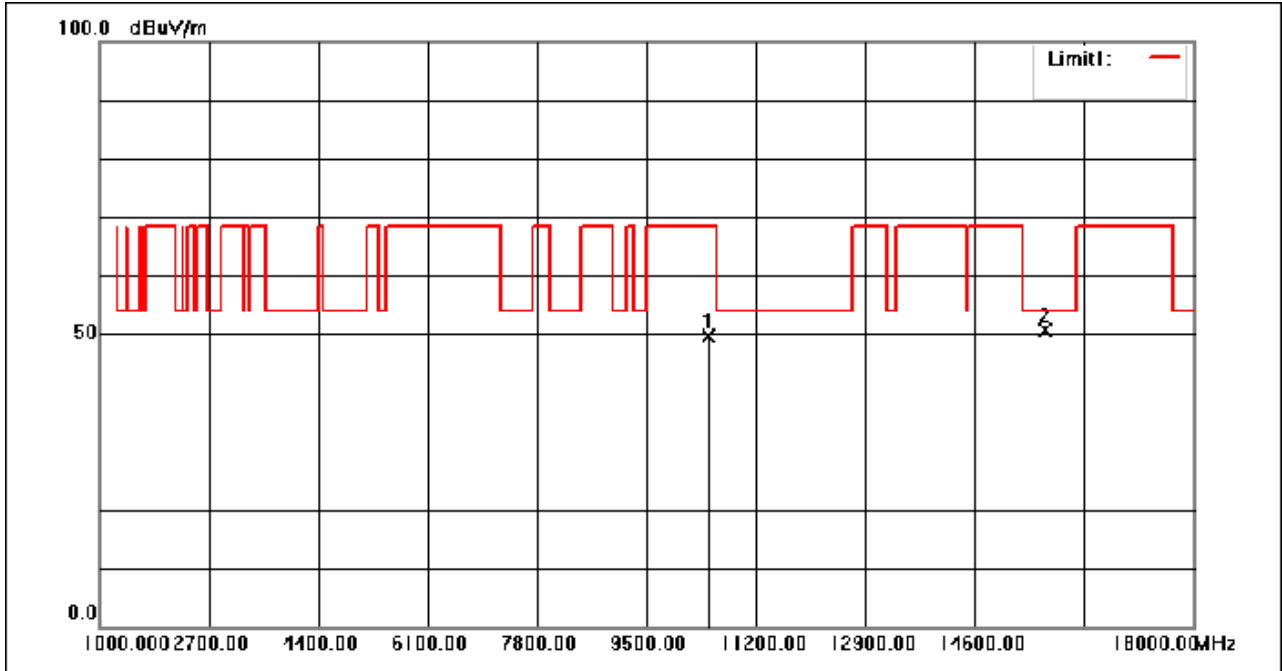
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	48.97	0.20	49.17	68.30	-19.13	peak
2	15570.000	44.82	5.79	50.61	54.00	-3.39	peak



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



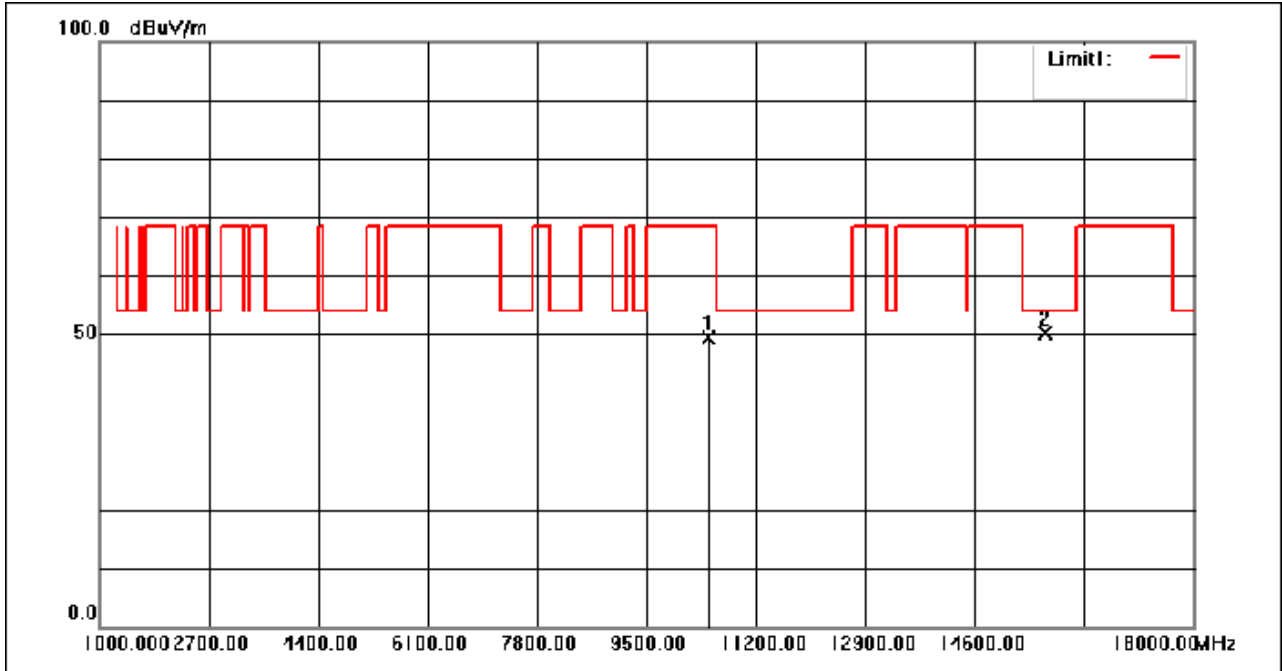
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.16	0.36	49.52	68.30	-18.78	peak
2	15690.000	44.60	6.04	50.64	54.00	-3.36	peak



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



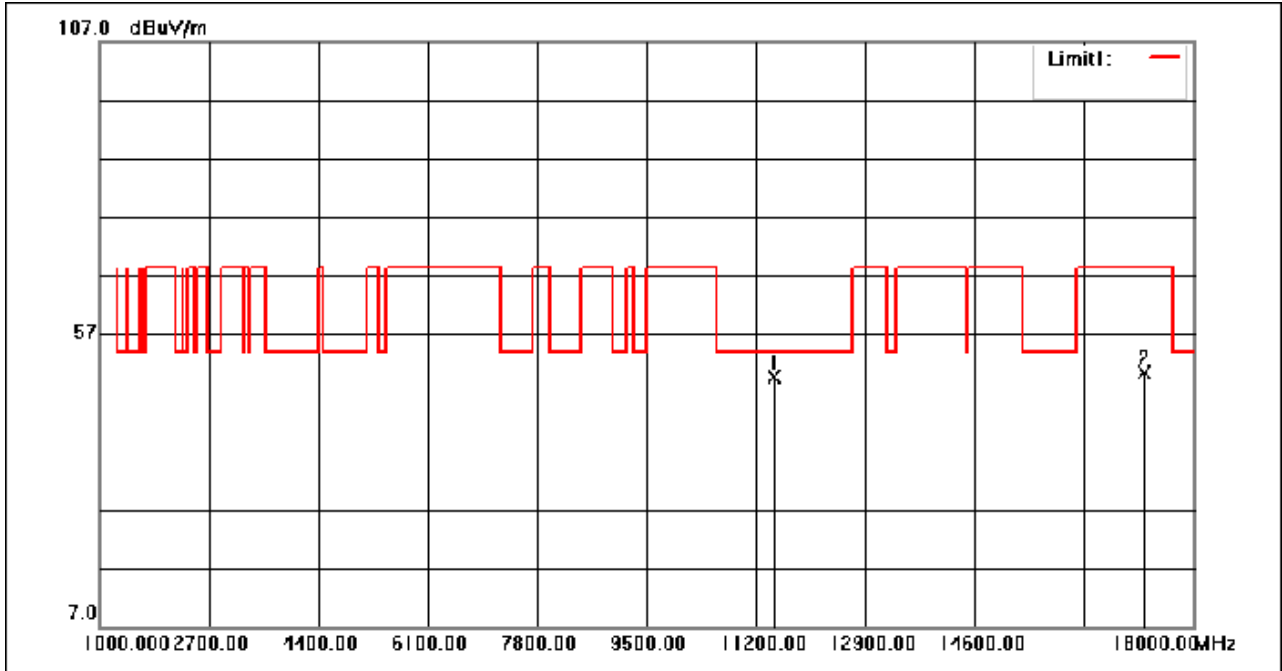
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.13	0.36	49.49	68.30	-18.81	peak
2	15690.000	44.07	6.04	50.11	54.00	-3.89	peak



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



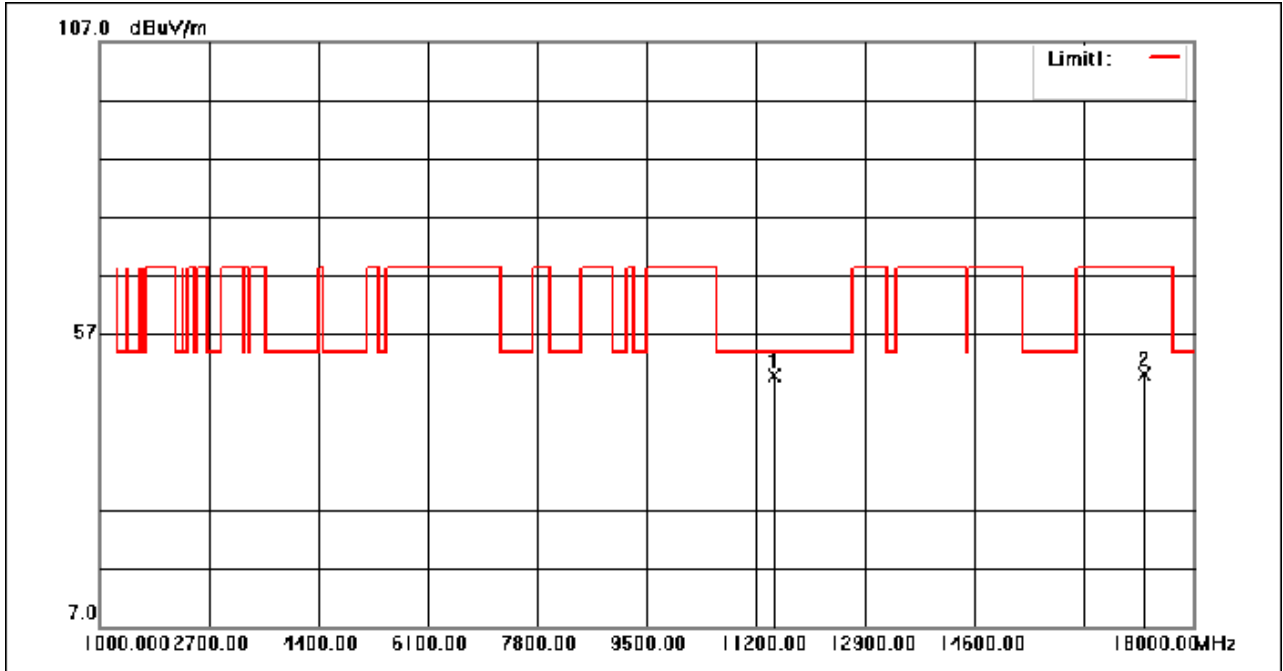
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.71	0.94	49.65	54.00	-4.35	peak
2	17235.000	41.43	9.05	50.48	68.30	-17.82	peak



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



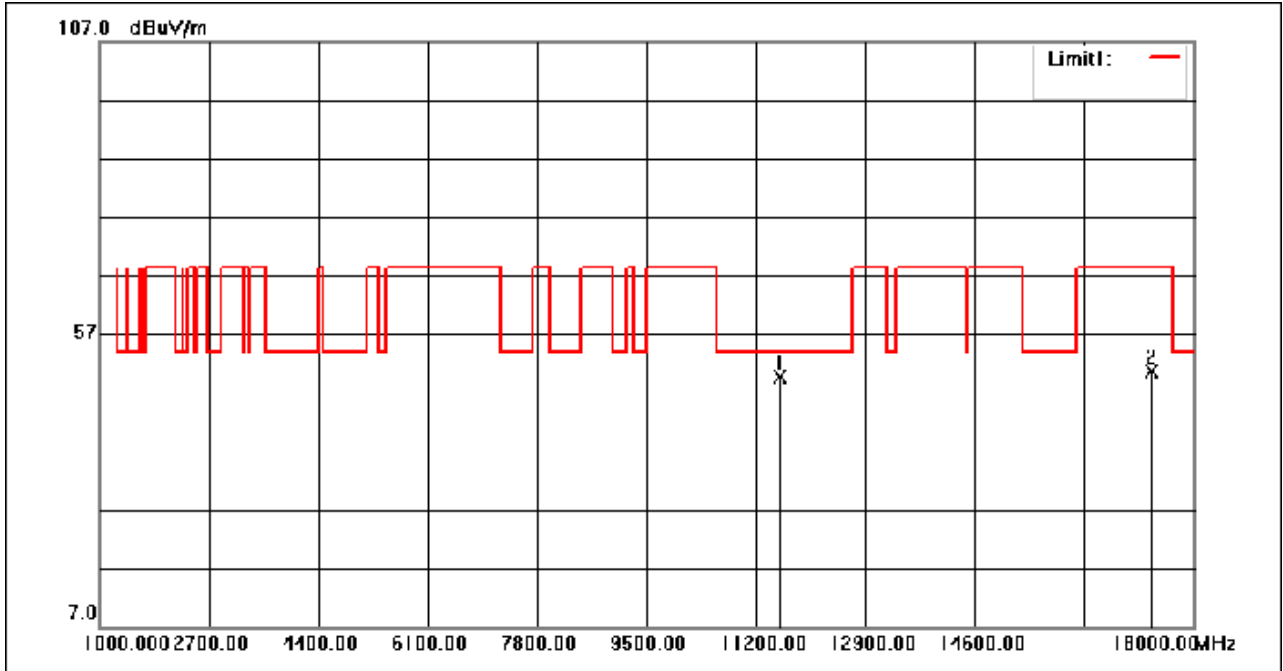
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.86	0.94	49.80	54.00	-4.20	peak
2	17235.000	41.20	9.05	50.25	68.30	-18.05	peak



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



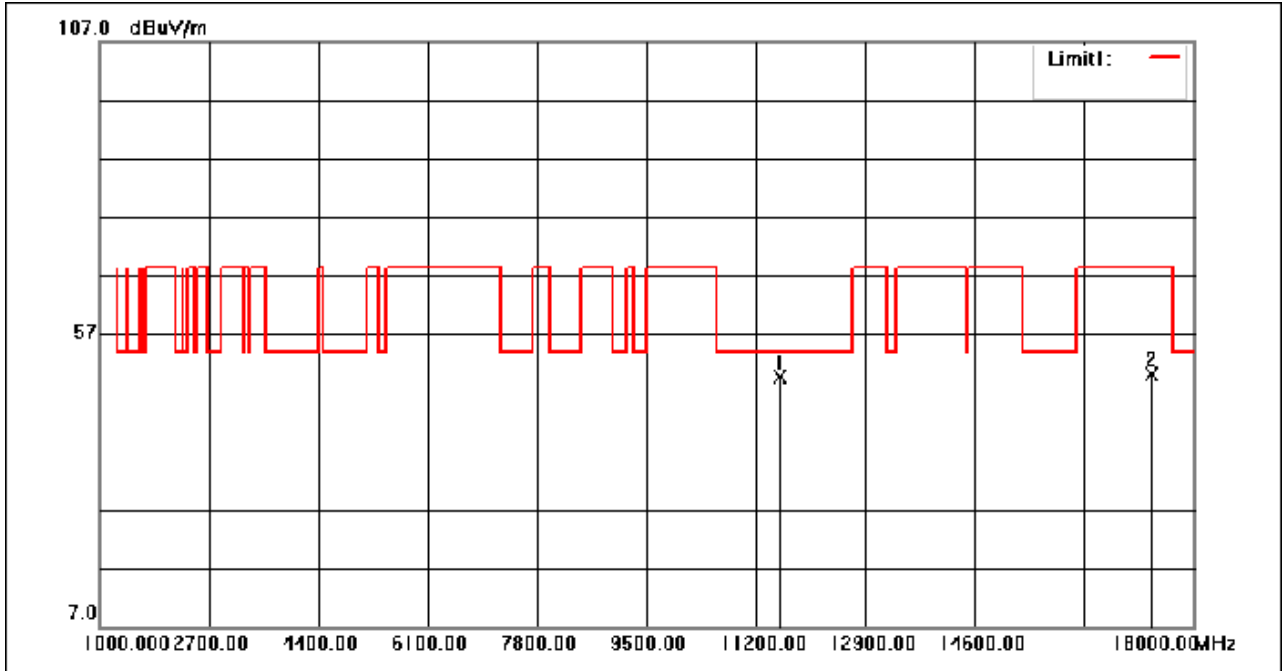
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.33	1.18	49.51	54.00	-4.49	peak
2	17355.000	41.77	8.98	50.75	68.30	-17.55	peak



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



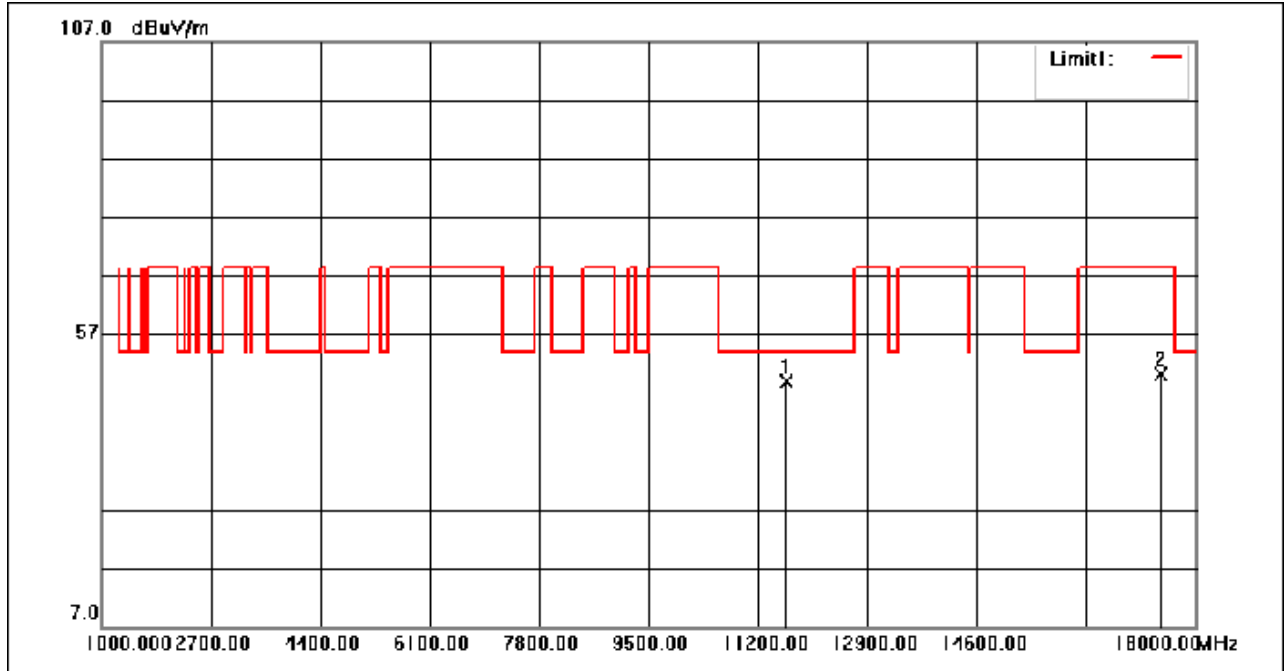
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.46	1.18	49.64	54.00	-4.36	peak
2	17355.000	41.11	8.98	50.09	68.30	-18.21	peak



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



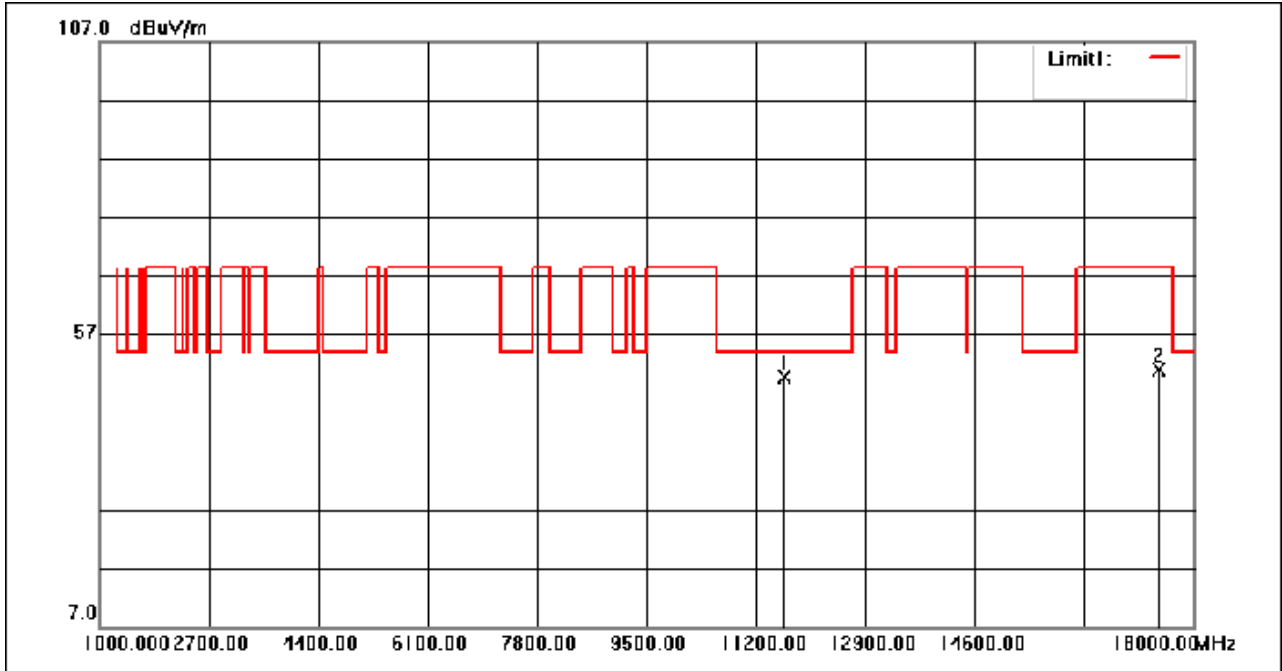
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	47.36	1.45	48.81	54.00	-5.19	peak
2	17475.000	41.27	8.90	50.17	68.30	-18.13	peak



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



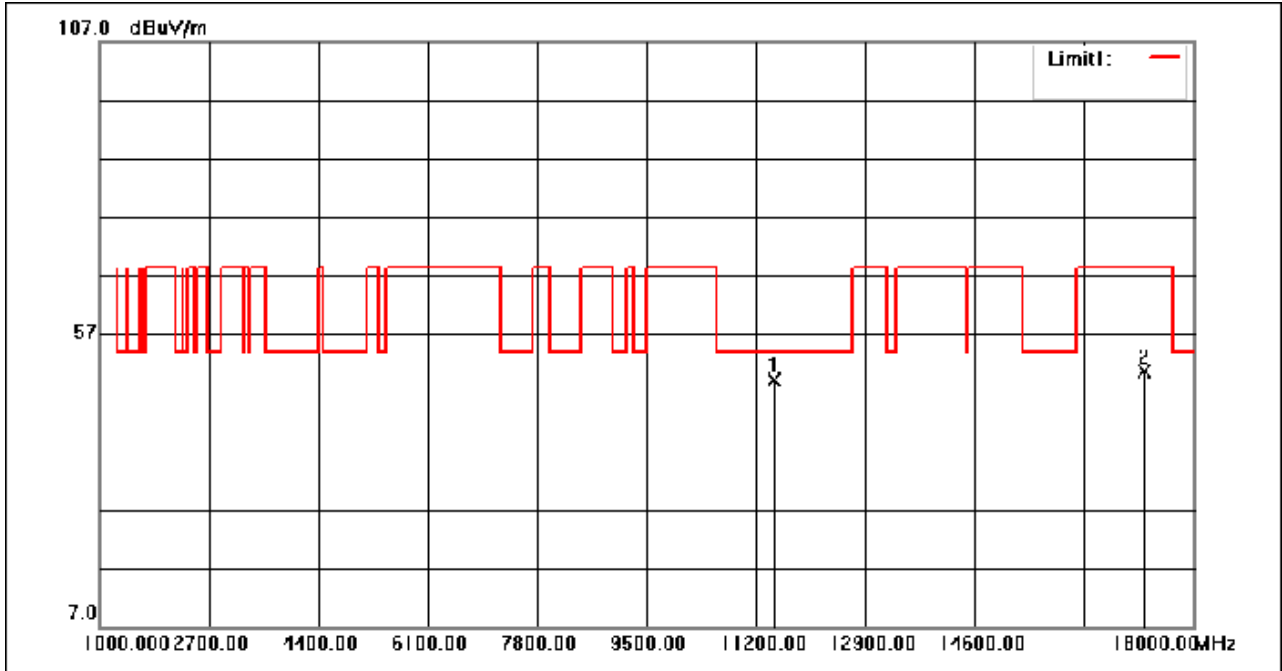
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.18	1.45	49.63	54.00	-4.37	peak
2	17475.000	42.00	8.90	50.90	68.30	-17.40	peak



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



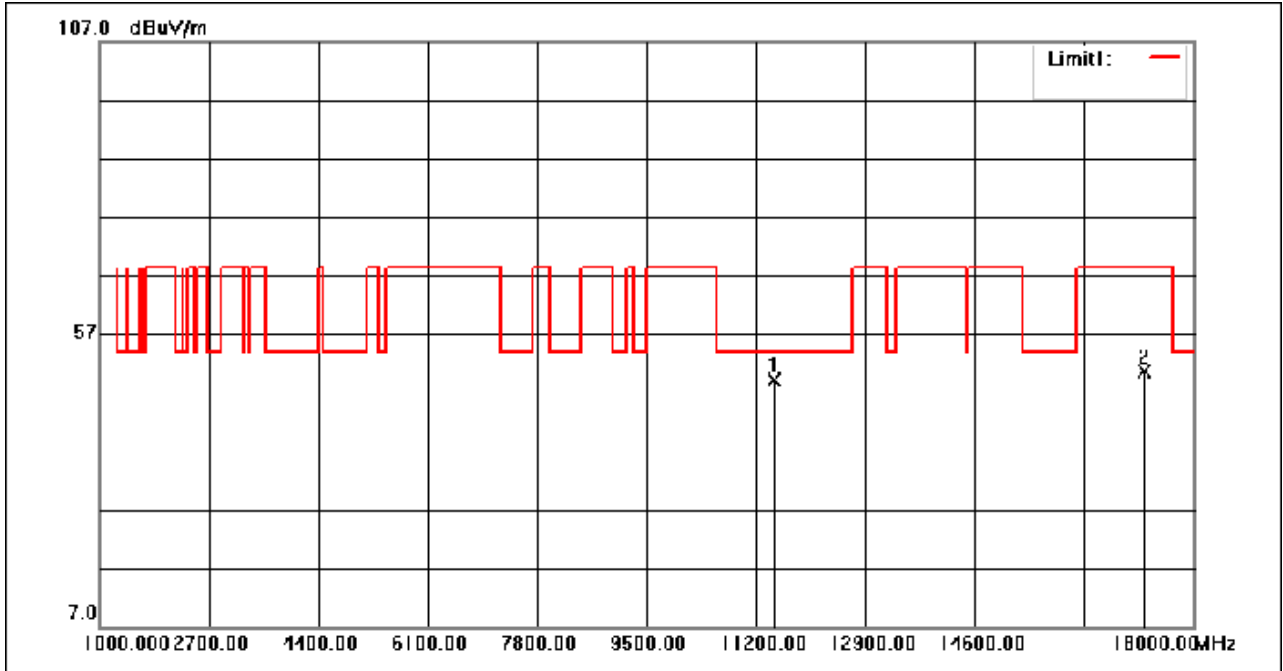
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.13	0.94	49.07	54.00	-4.93	peak
2	17235.000	41.52	9.05	50.57	68.30	-17.73	peak



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



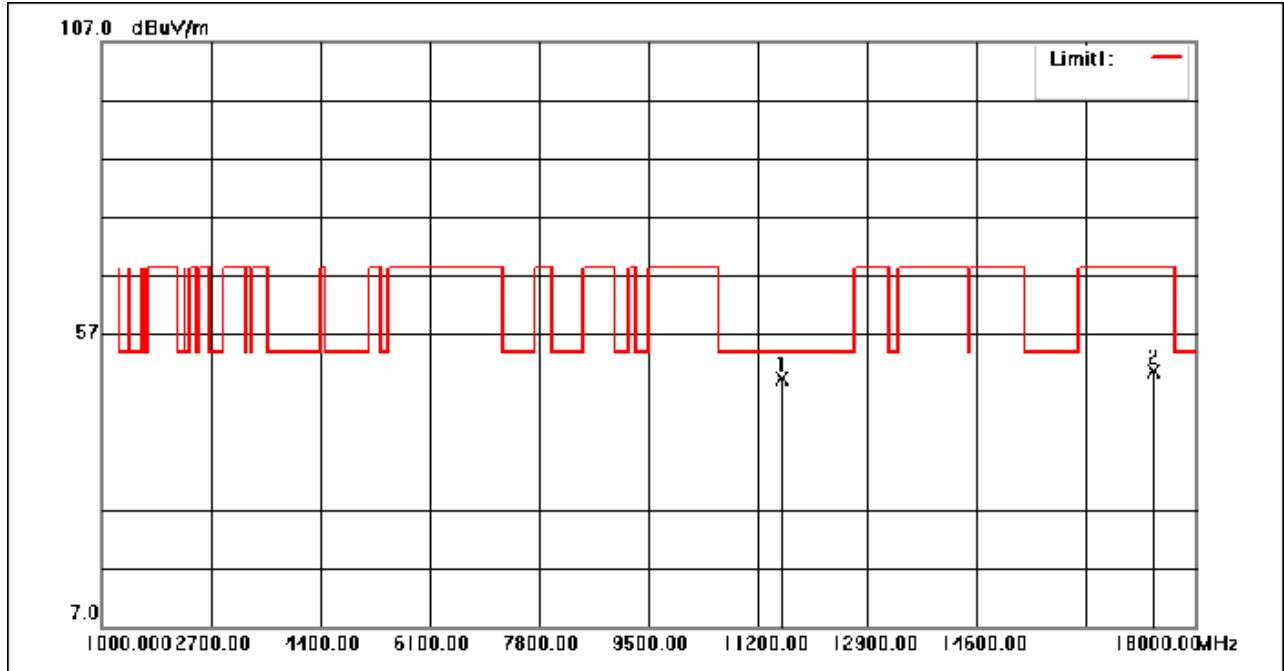
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	48.16	0.94	49.10	54.00	-4.90	peak
2	17235.000	41.47	9.05	50.52	68.30	-17.78	peak



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



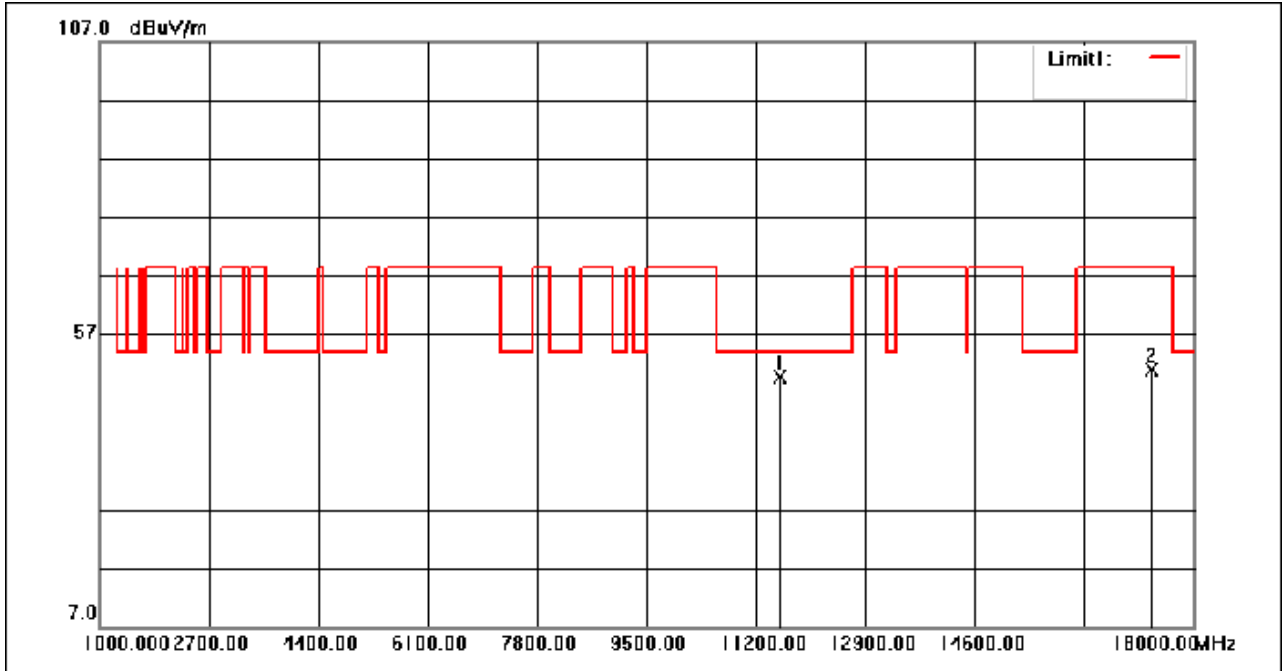
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.08	1.18	49.26	54.00	-4.74	peak
2	17355.000	41.65	8.98	50.63	68.30	-17.67	peak



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



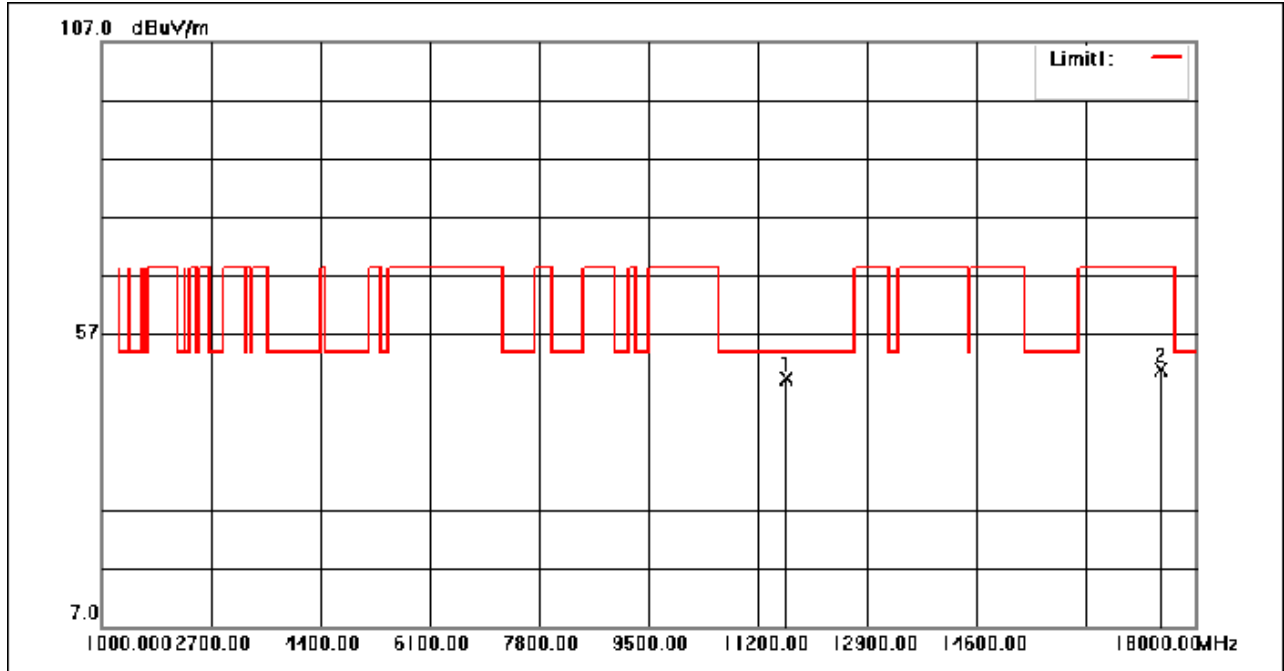
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.39	1.18	49.57	54.00	-4.43	peak
2	17355.000	41.99	8.98	50.97	68.30	-17.33	peak



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



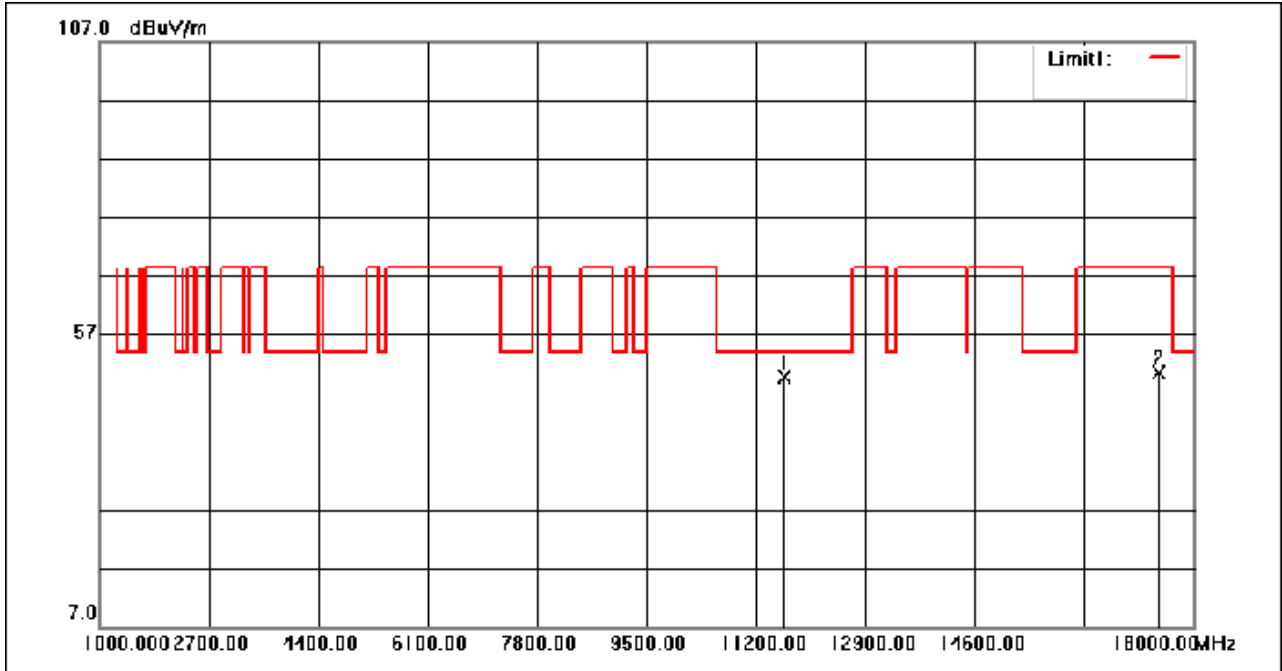
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.05	1.45	49.50	54.00	-4.50	peak
2	17475.000	41.88	8.90	50.78	68.30	-17.52	peak



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



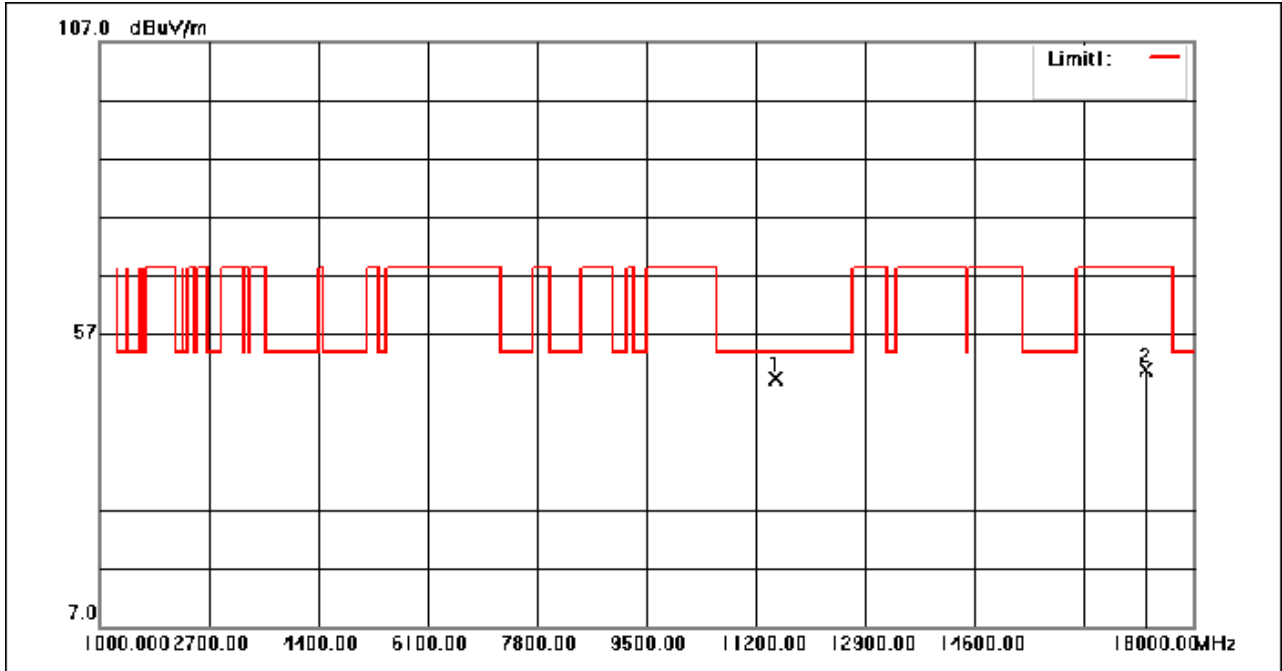
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.30	1.45	49.75	54.00	-4.25	peak
2	17475.000	41.59	8.90	50.49	68.30	-17.81	peak



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



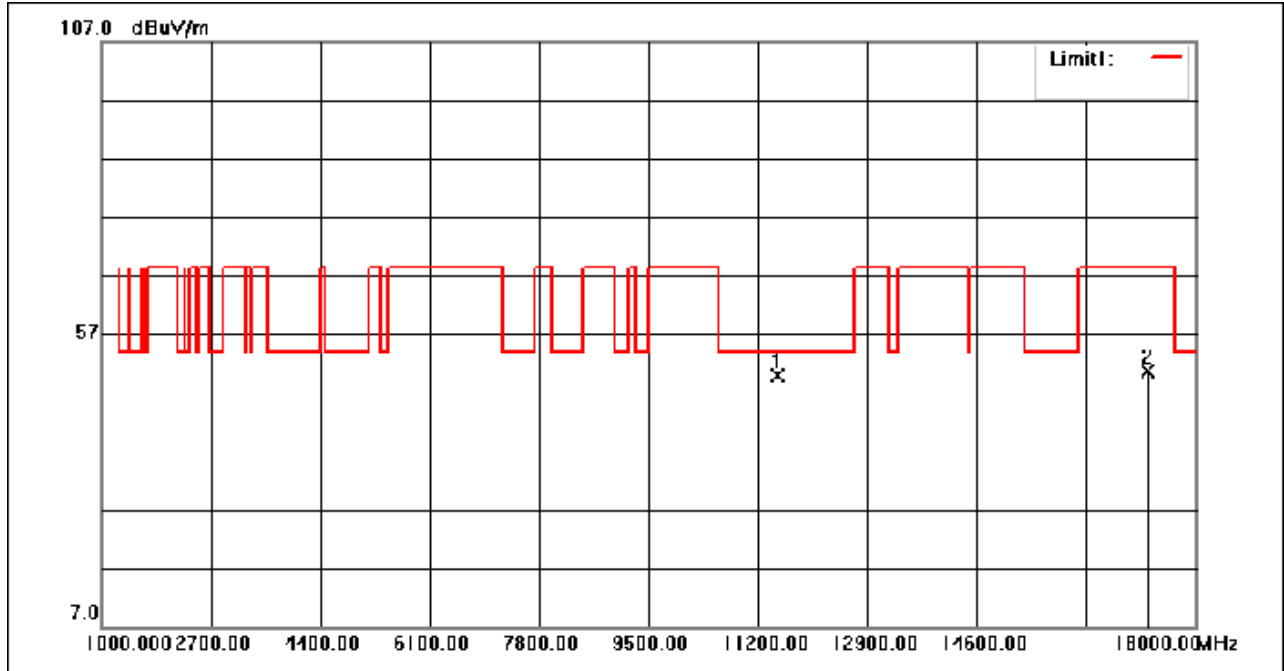
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.32	0.99	49.31	54.00	-4.69	peak
2	17265.000	41.81	9.03	50.84	68.30	-17.46	peak



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



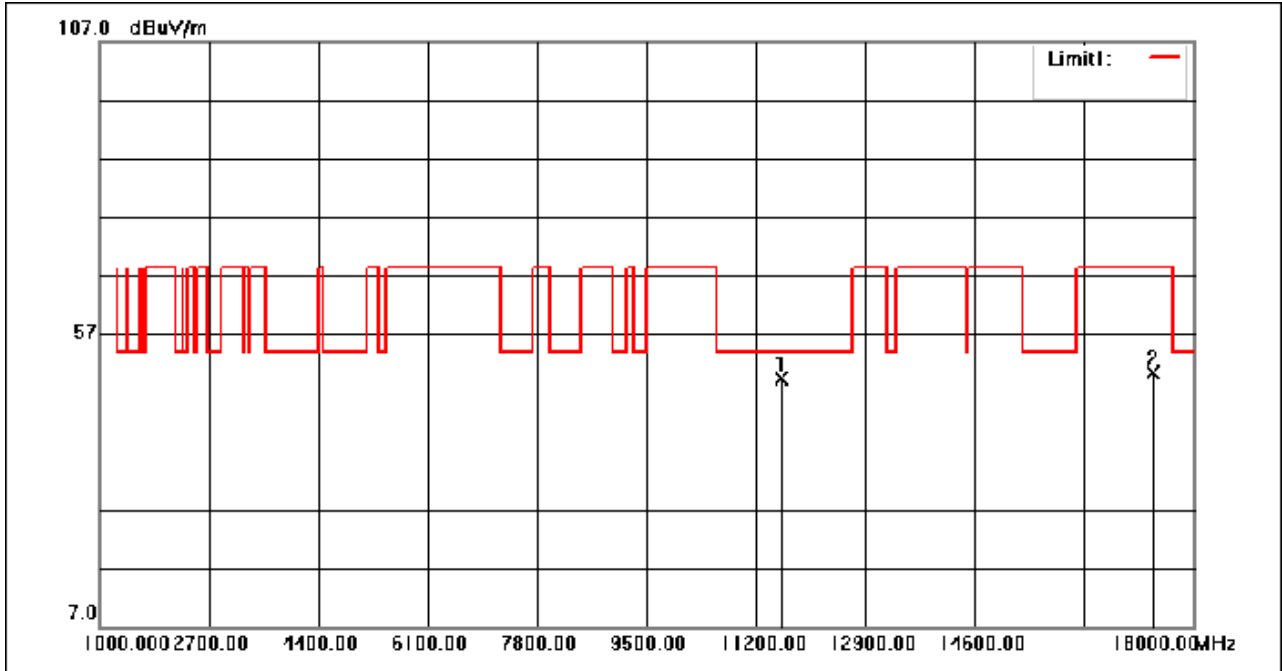
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	48.91	0.99	49.90	54.00	-4.10	peak
2	17265.000	41.54	9.03	50.57	68.30	-17.73	peak



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



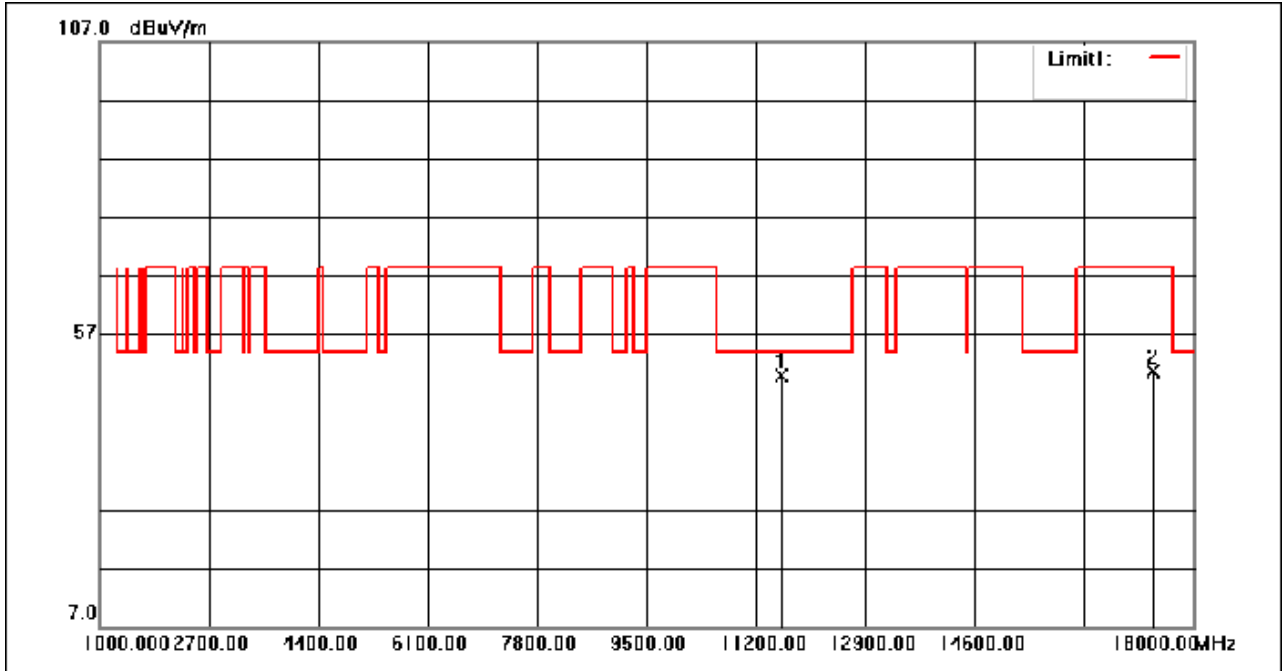
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.25	1.25	49.50	54.00	-4.50	peak
2	17385.000	41.47	8.96	50.43	68.30	-17.87	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.68	1.25	49.93	54.00	-4.07	peak
2	17385.000	41.74	8.96	50.70	68.30	-17.60	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

Measurement Distance: 3m

Limit:

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

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

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

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

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

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar



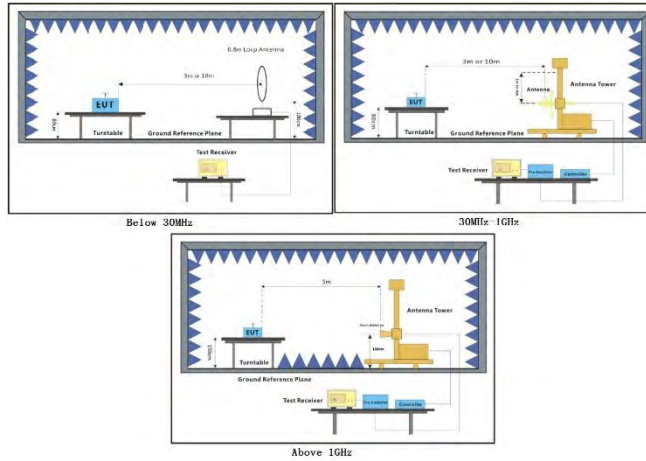
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), 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 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

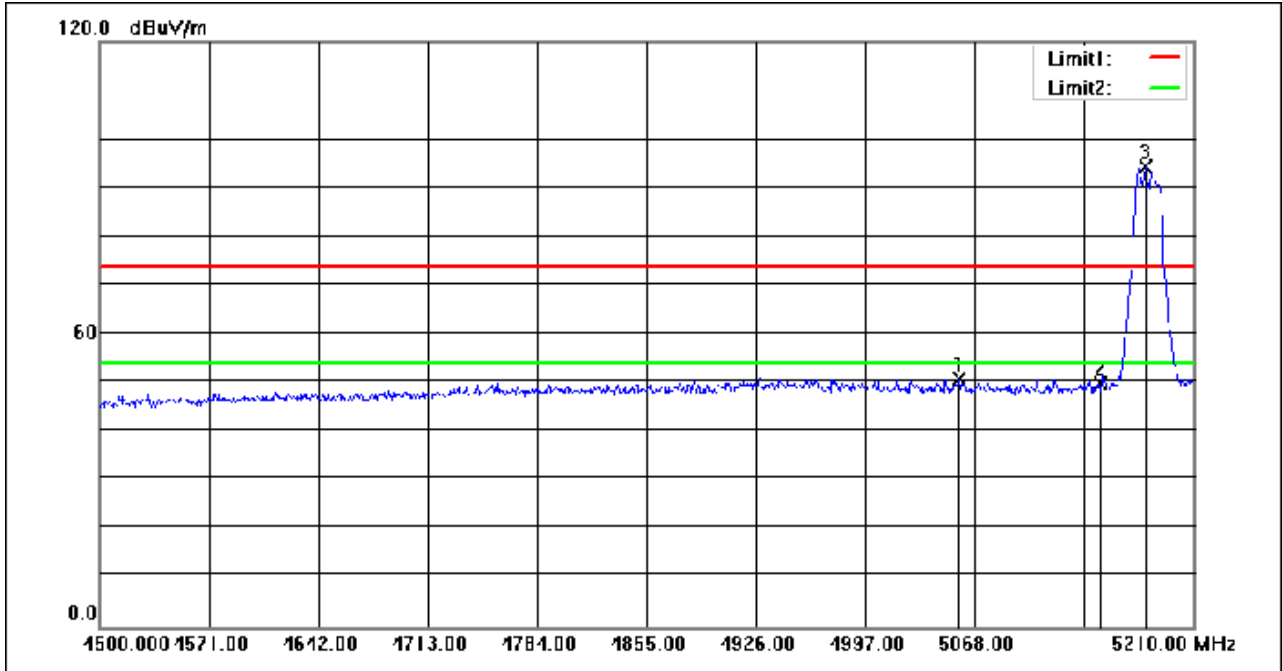
2. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5058.060	61.13	-10.36	50.77	74.00	-23.23	peak
2	5150.000	60.81	-10.95	49.86	74.00	-24.14	peak
3	5179.470	105.18	-10.87	94.31	74.00	20.31	peak



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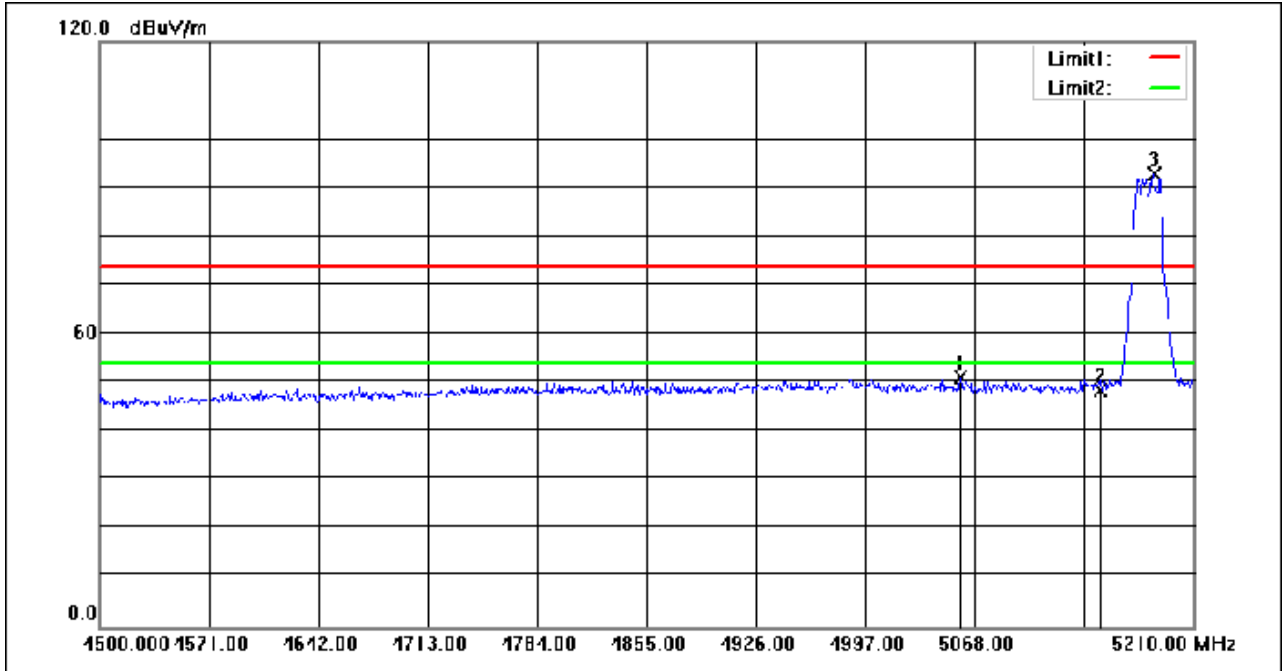
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Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



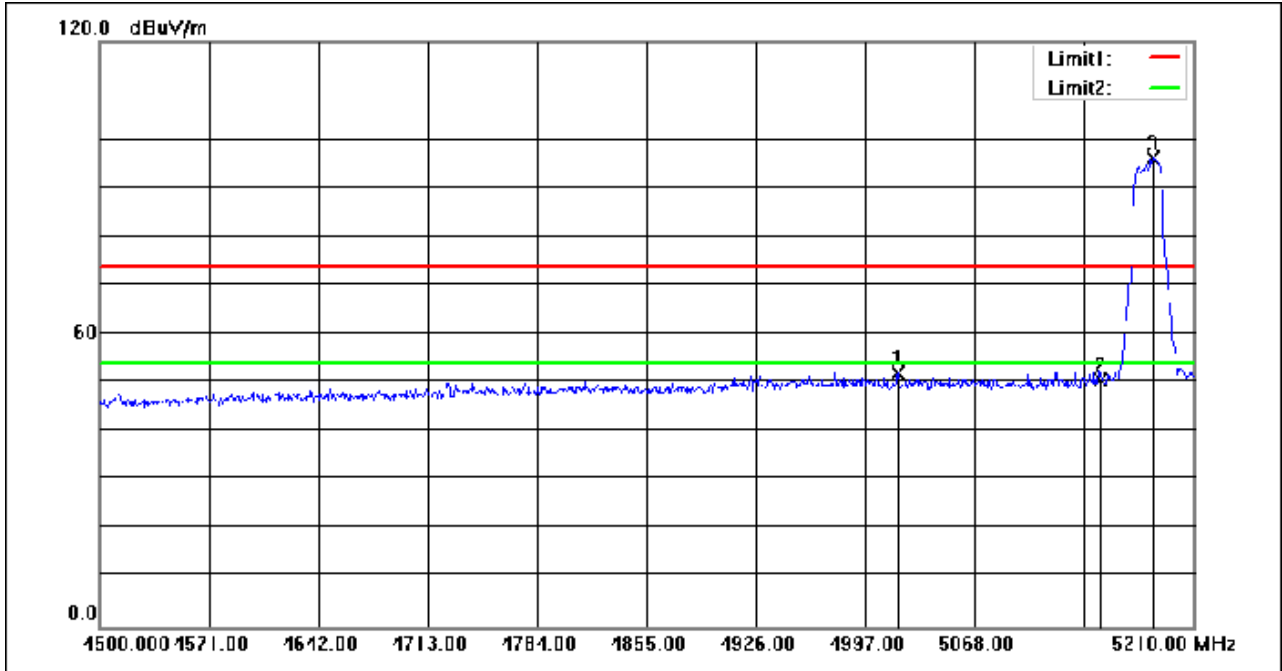
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5058.770	61.38	-10.36	51.02	74.00	-22.98	peak
2	5150.000	59.53	-10.95	48.58	74.00	-25.42	peak
3	5184.440	103.57	-10.85	92.72	74.00	18.72	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5018.300	62.24	-10.10	52.14	74.00	-21.86	peak
2	5150.000	61.55	-10.95	50.60	74.00	-23.40	peak
3	5183.730	107.01	-10.85	96.16	74.00	22.16	peak



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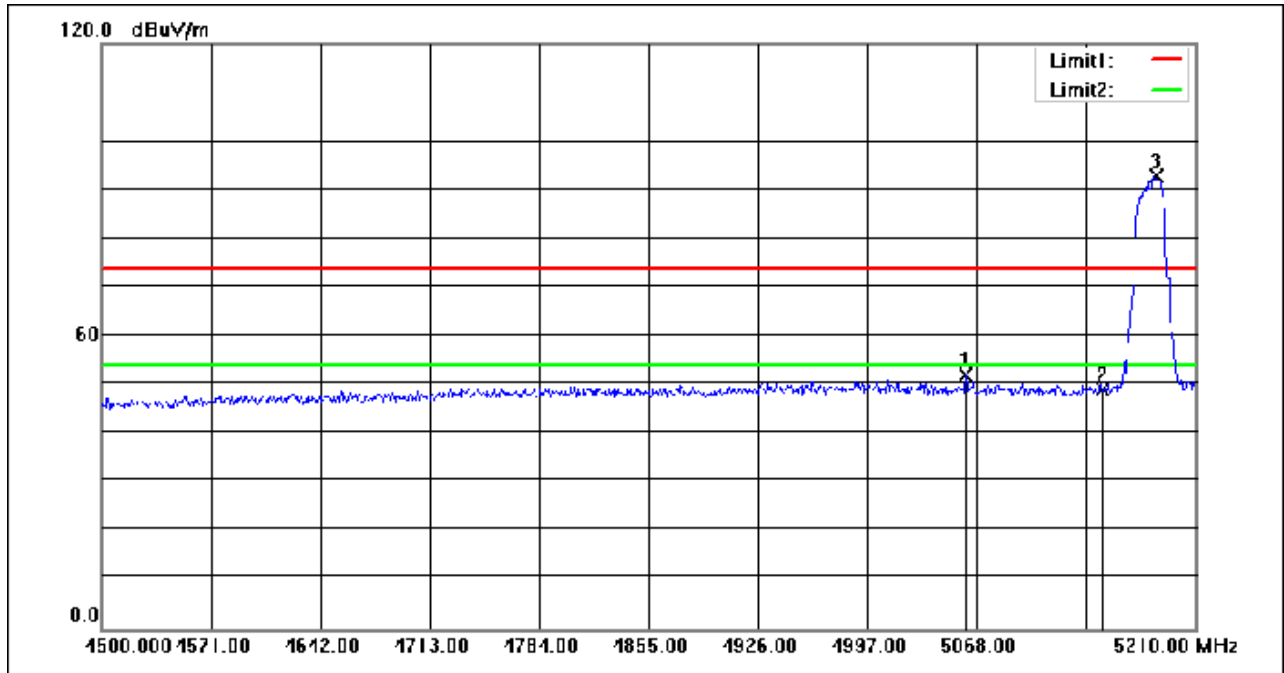
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Report No.: KSCR230500076201

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5060.900	62.32	-10.37	51.95	74.00	-22.05	peak
2	5150.000	60.03	-10.95	49.08	74.00	-24.92	peak
3	5184.440	103.73	-10.85	92.88	74.00	18.88	peak



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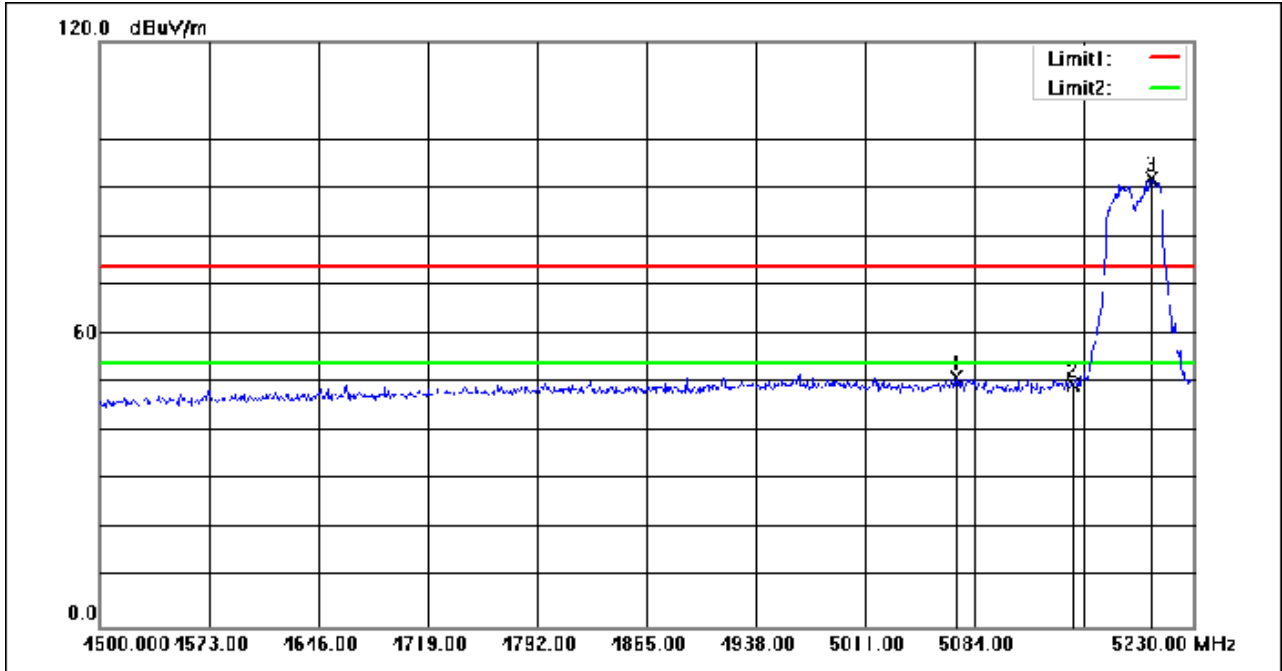
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Report No.: KSCR230500076201

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5071.590	61.45	-10.44	51.01	74.00	-22.99	peak
2	5150.000	60.62	-10.95	49.67	74.00	-24.33	peak
3	5202.260	102.81	-10.80	92.01	74.00	18.01	peak



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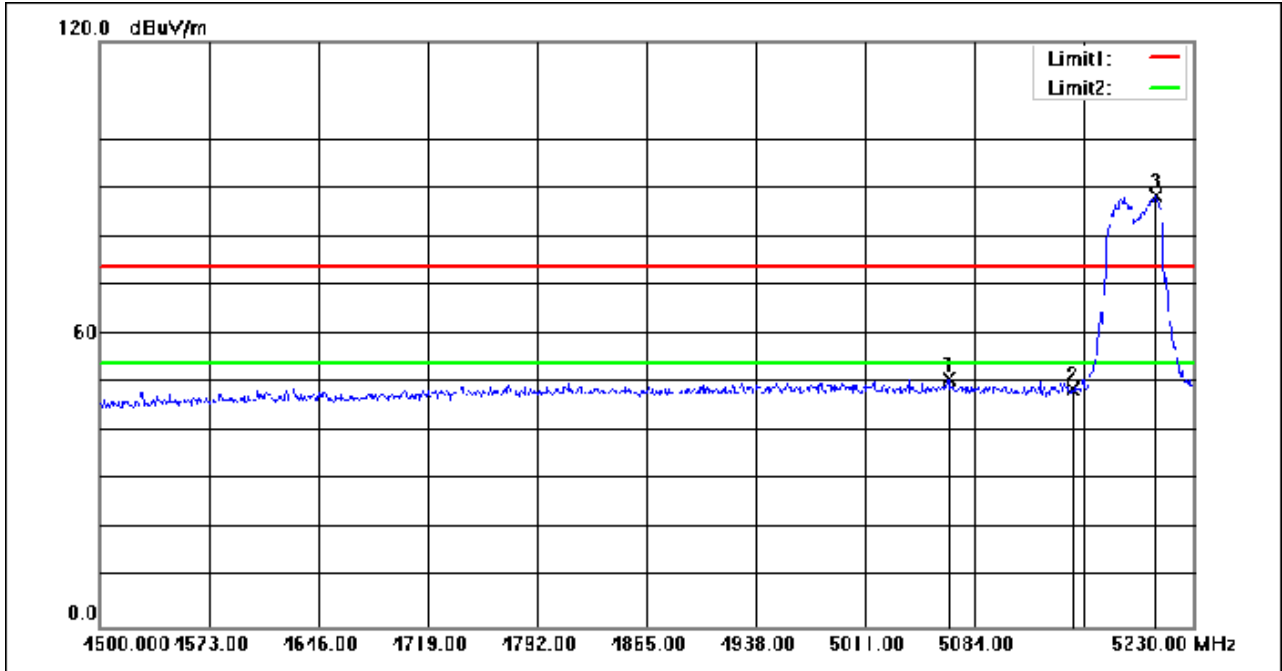
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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

Page: 69 of 177

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



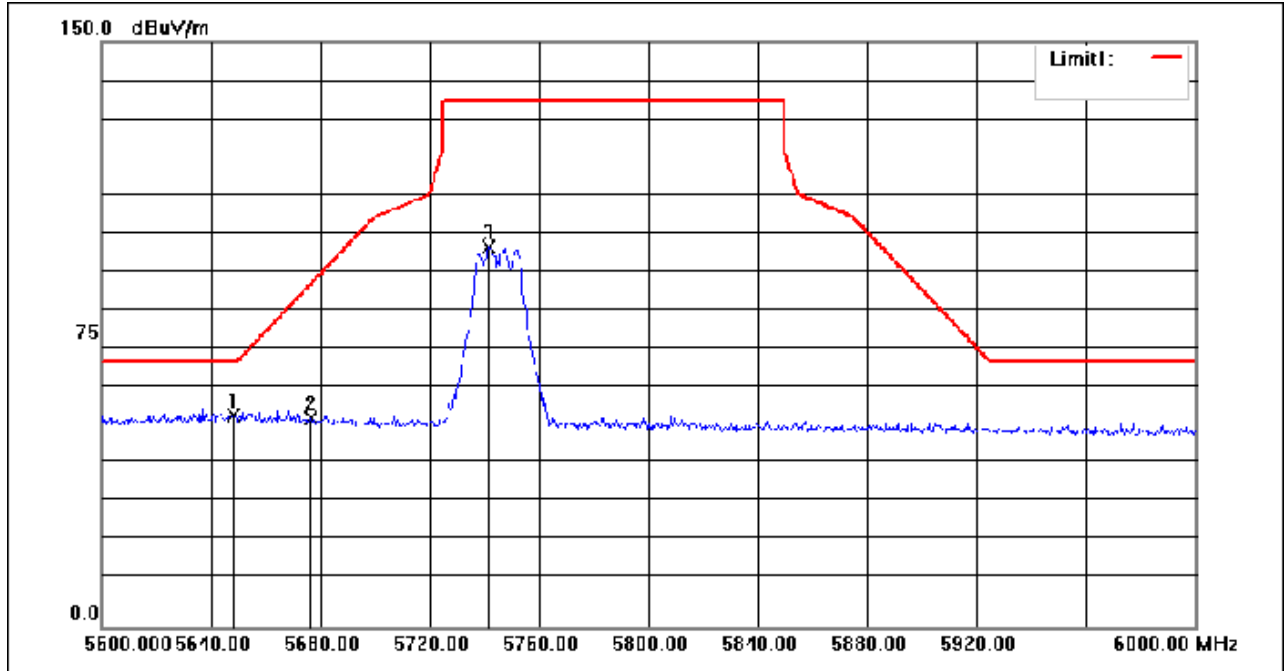
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5066.480	61.14	-10.41	50.73	74.00	-23.27	peak
2	5150.000	59.84	-10.95	48.89	74.00	-25.11	peak
3	5205.180	99.08	-10.80	88.28	74.00	14.28	peak



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



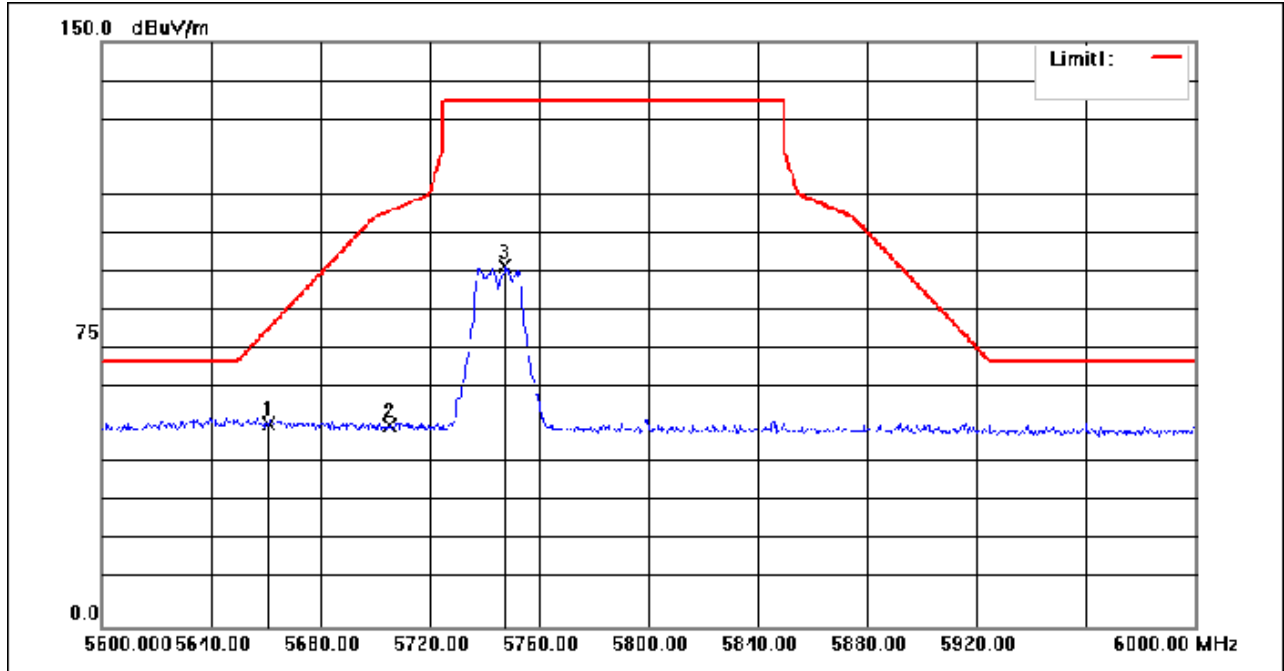
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5648.400	63.55	-9.47	54.08	68.20	-14.12	peak
2	5676.400	62.88	-9.39	53.49	87.74	-34.25	peak
3	5741.600	106.43	-9.27	97.16	135.00	-37.84	peak



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



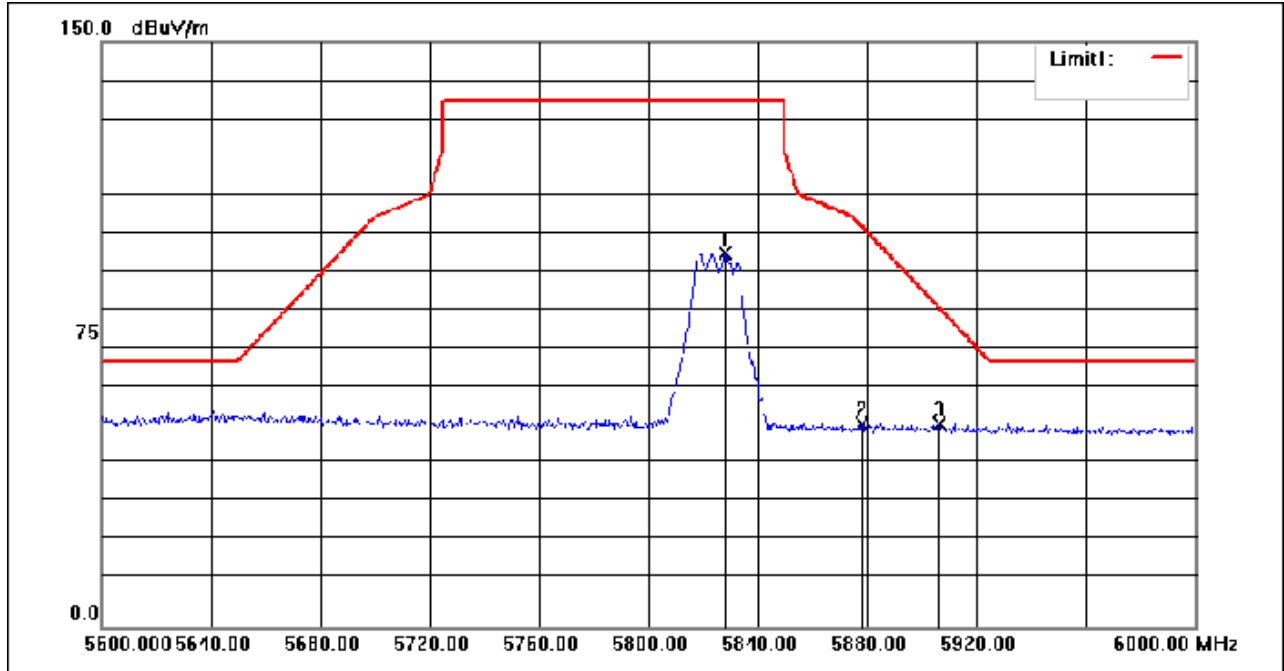
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5661.200	61.40	-9.44	51.96	76.49	-24.53	peak
2	5705.200	61.05	-9.30	51.75	106.66	-54.91	peak
3	5747.600	101.82	-9.28	92.54	135.00	-42.46	peak



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



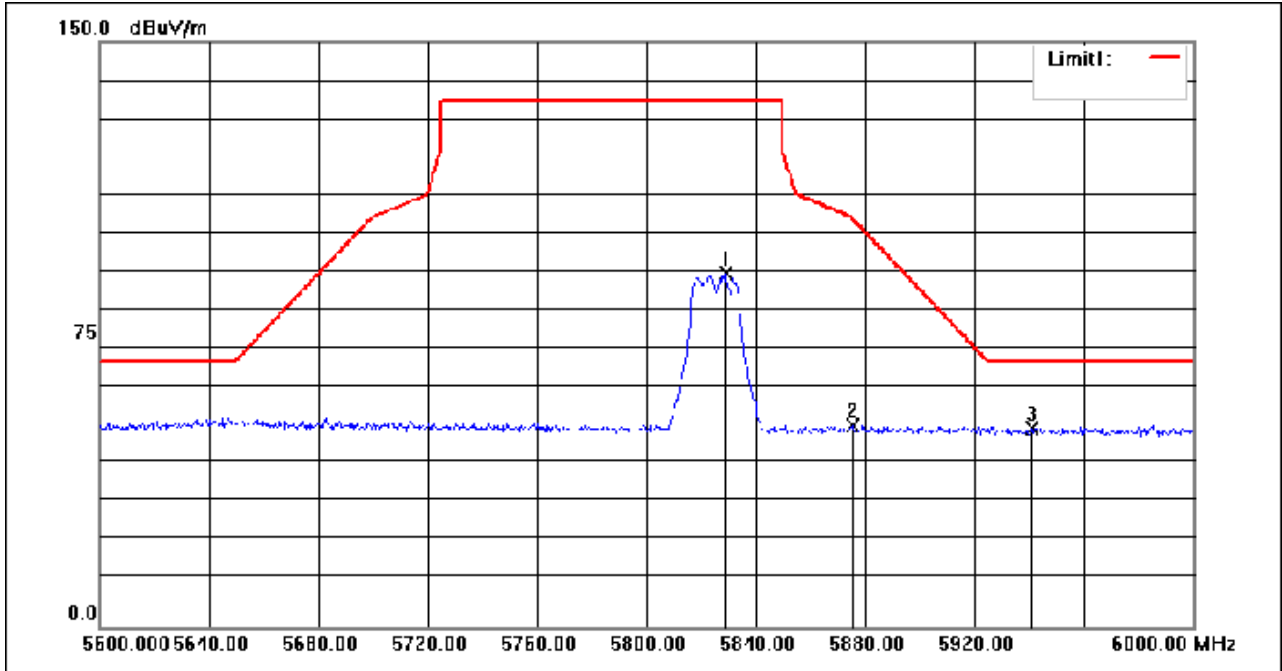
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.000	105.22	-9.40	95.82	135.00	-39.18	peak
2	5878.000	61.37	-9.40	51.97	102.98	-51.01	peak
3	5906.400	61.23	-9.35	51.88	81.96	-30.08	peak



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



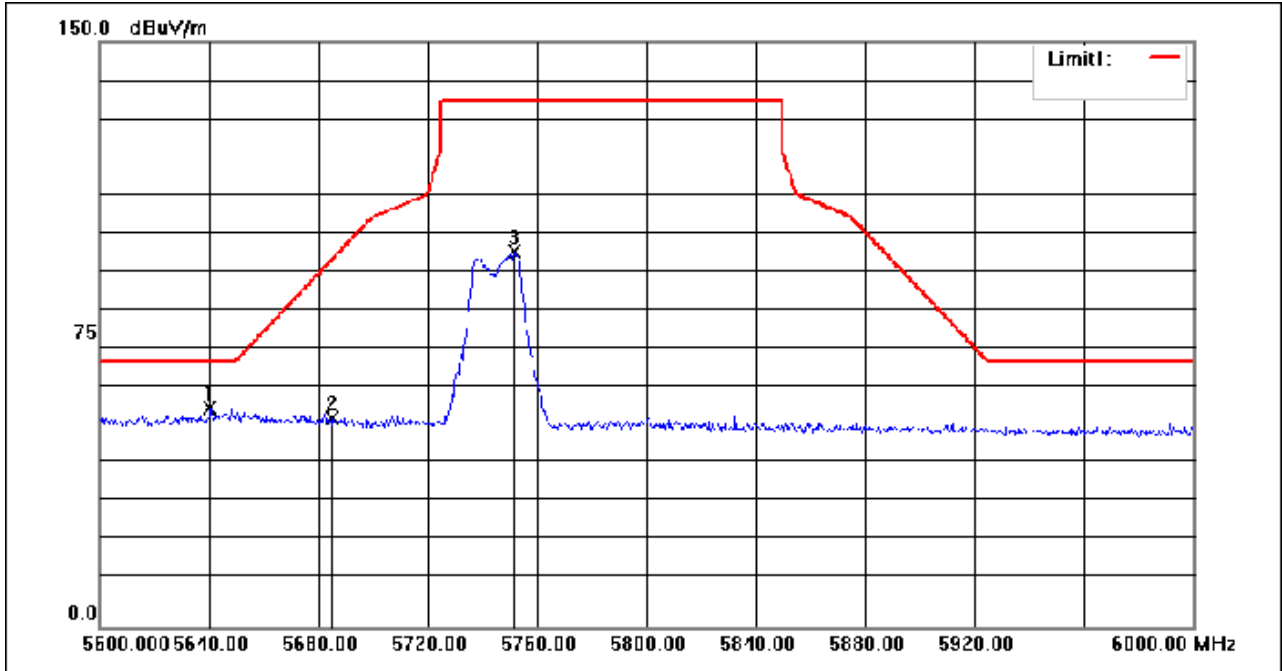
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5828.800	99.99	-9.41	90.58	135.00	-44.42	peak
2	5875.600	61.13	-9.40	51.73	104.76	-53.03	peak
3	5941.200	60.25	-9.30	50.95	68.20	-17.25	peak



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



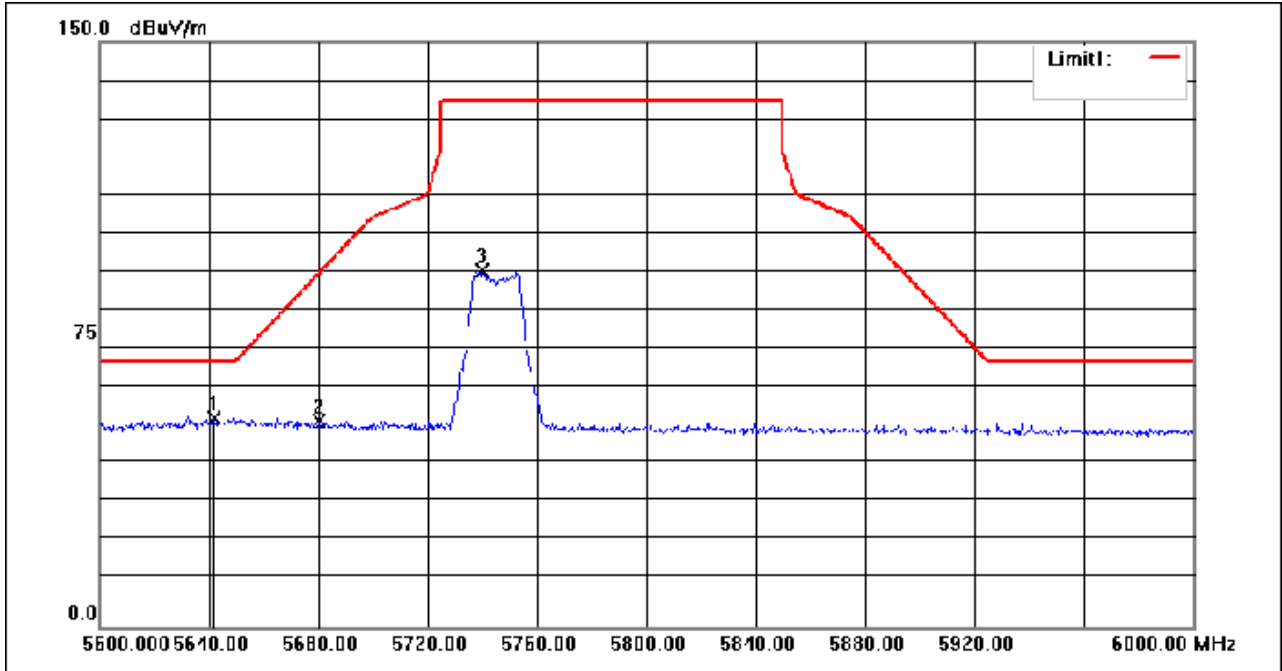
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5640.400	65.47	-9.50	55.97	68.20	-12.23	peak
2	5685.200	62.90	-9.36	53.54	94.25	-40.71	peak
3	5751.600	105.39	-9.28	96.11	135.00	-38.89	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5642.000	62.97	-9.49	53.48	68.20	-14.72	peak
2	5680.400	62.15	-9.37	52.78	90.70	-37.92	peak
3	5740.000	100.73	-9.26	91.47	135.00	-43.53	peak

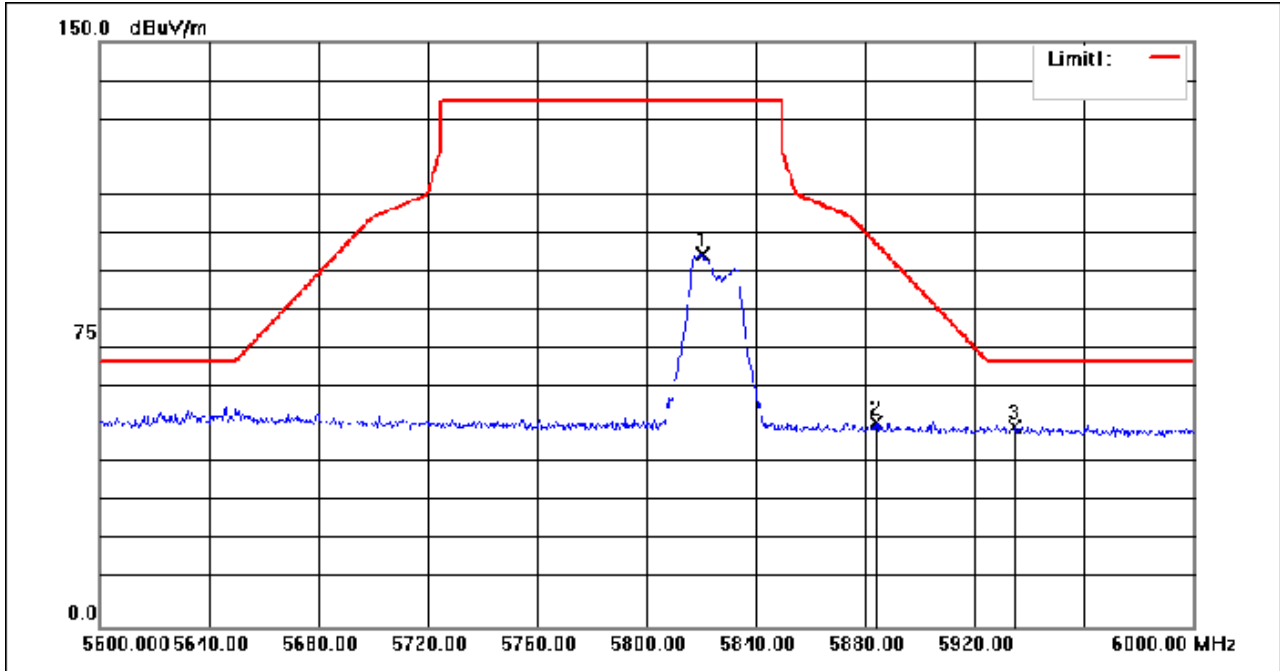


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



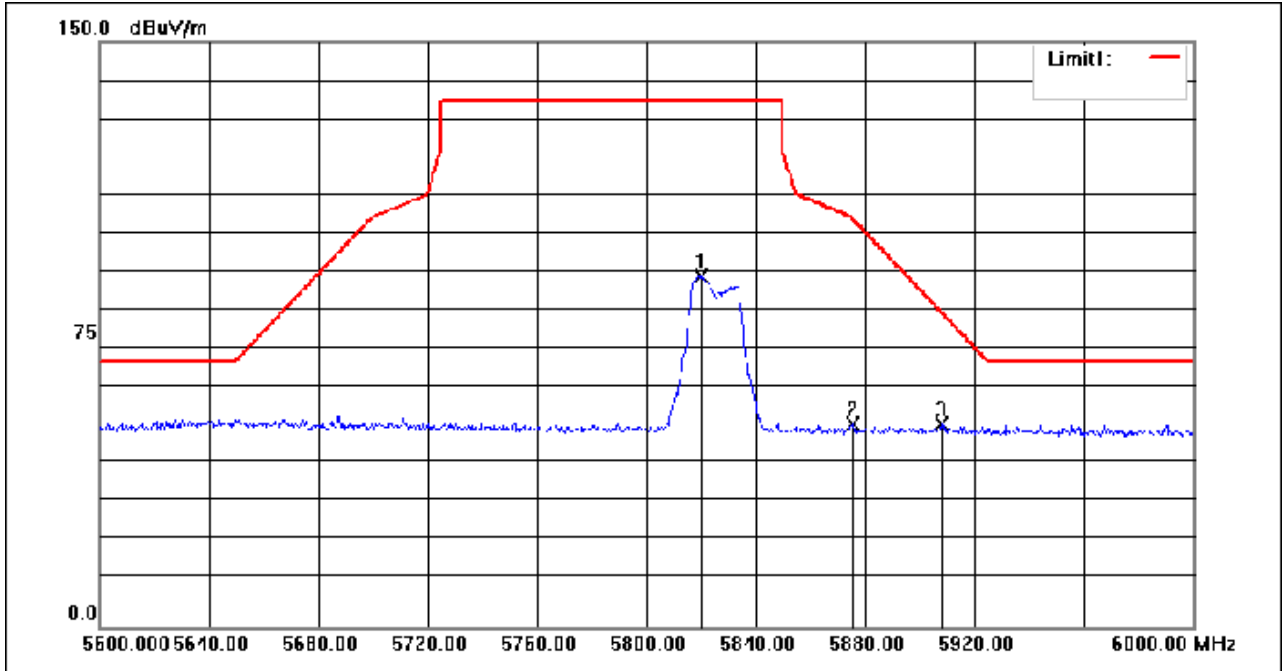
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.400	104.98	-9.40	95.58	135.00	-39.42	peak
2	5884.000	61.87	-9.39	52.48	98.54	-46.06	peak
3	5934.800	60.66	-9.31	51.35	68.20	-16.85	peak



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



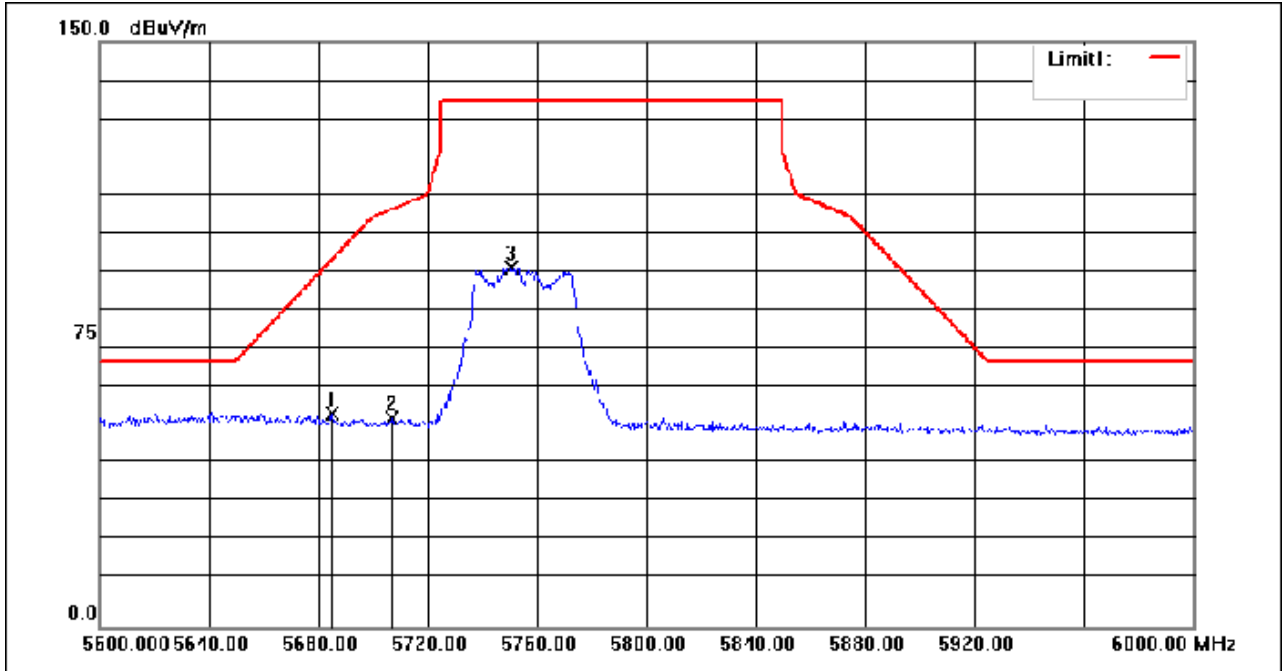
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5820.000	99.38	-9.39	89.99	135.00	-45.01	peak
2	5875.200	61.30	-9.40	51.90	105.05	-53.15	peak
3	5908.000	61.33	-9.35	51.98	80.78	-28.80	peak



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



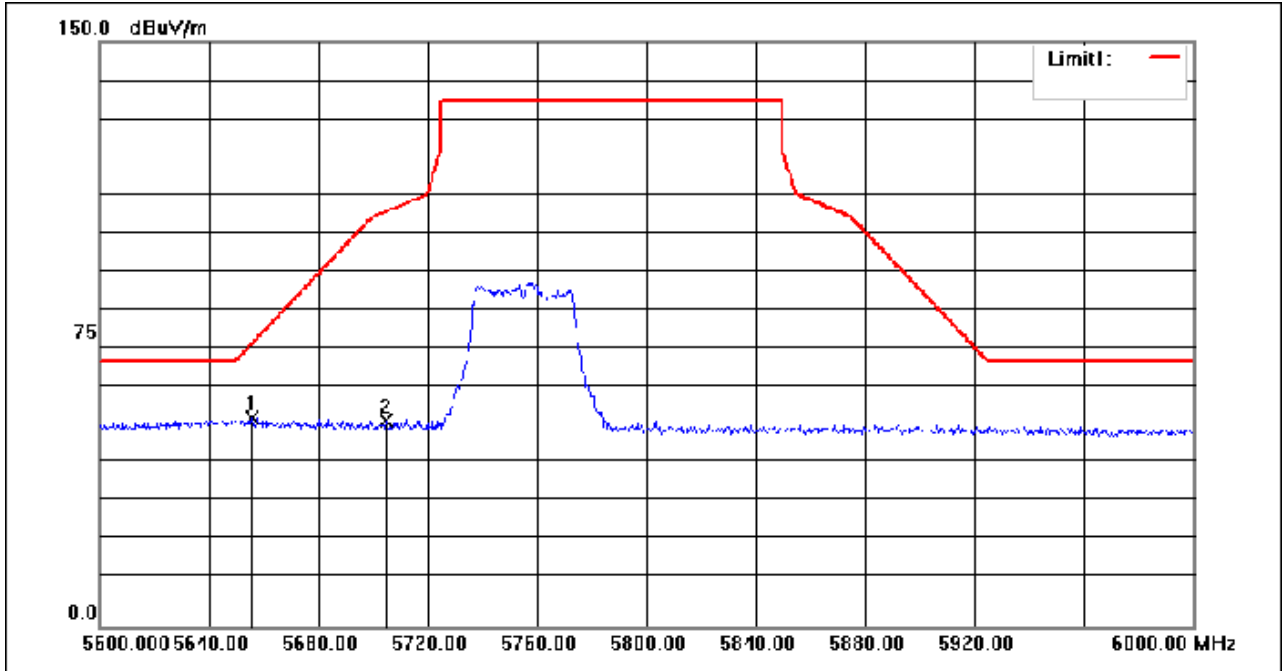
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5684.800	64.04	-9.36	54.68	93.95	-39.27	peak
2	5706.800	62.72	-9.29	53.43	107.10	-53.67	peak
3	5750.800	101.31	-9.28	92.03	135.00	-42.97	peak



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



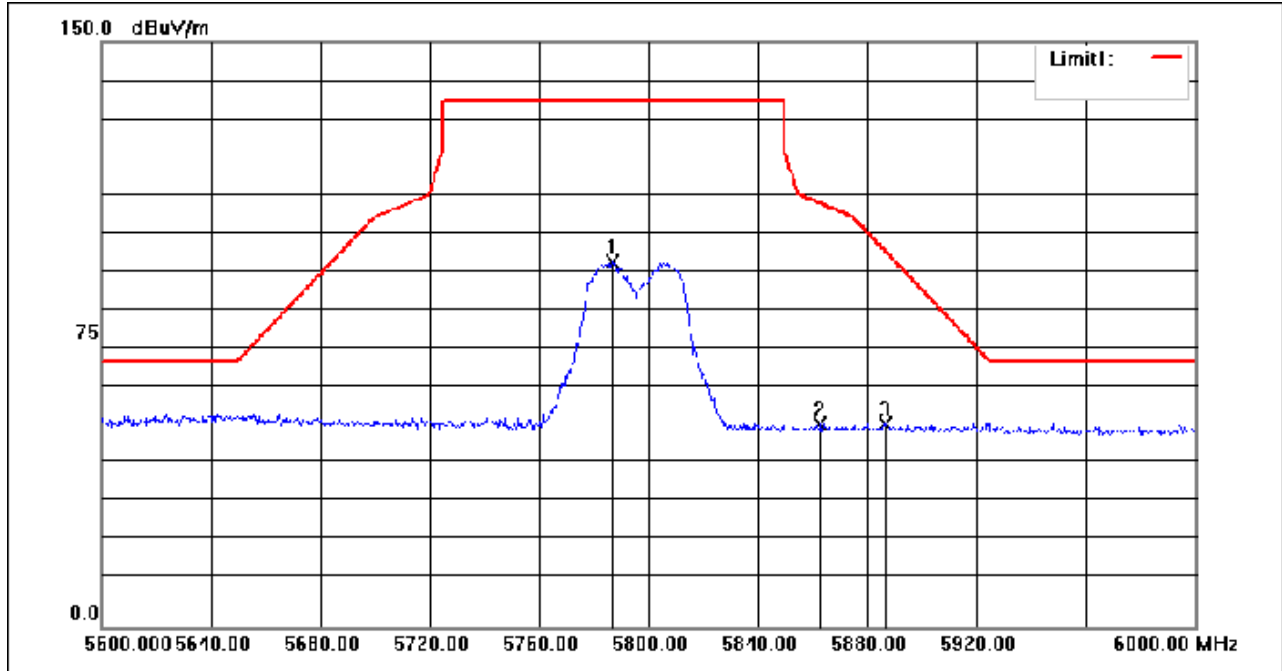
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5655.600	62.91	-9.45	53.46	72.34	-18.88	peak
2	5704.800	62.13	-9.30	52.83	106.54	-53.71	peak



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



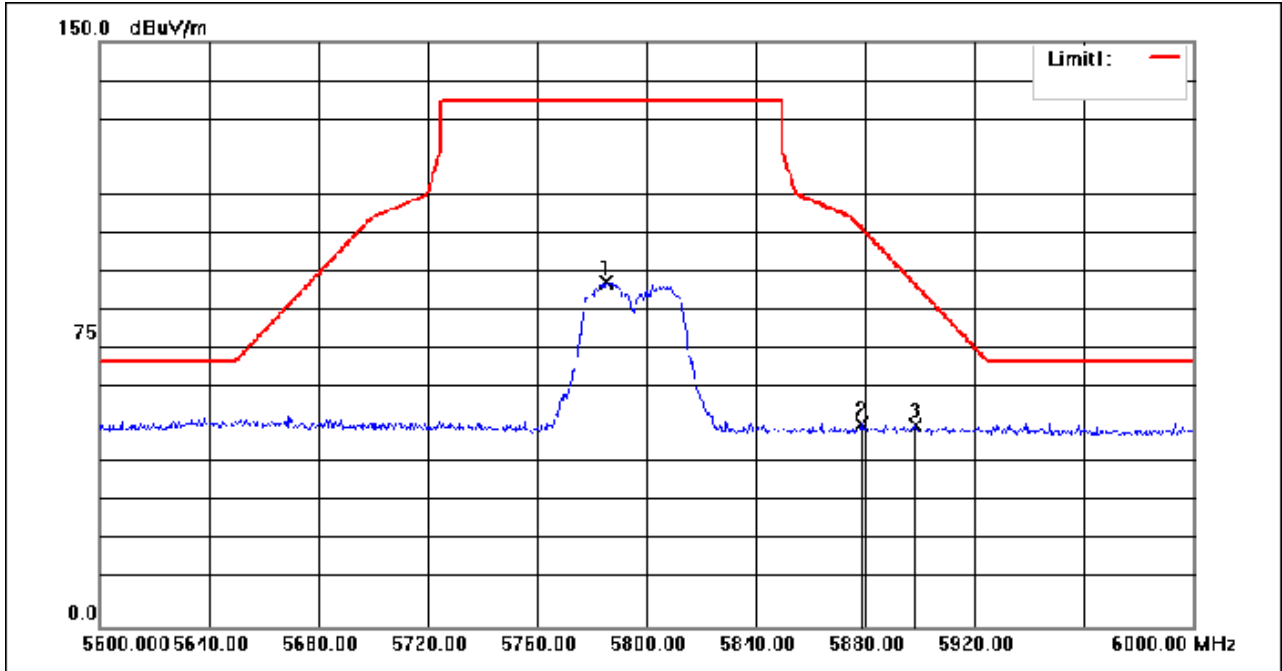
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5786.800	102.84	-9.34	93.50	135.00	-41.50	peak
2	5862.800	61.45	-9.42	52.03	108.62	-56.59	peak
3	5886.400	61.43	-9.39	52.04	96.76	-44.72	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5785.200	97.75	-9.33	88.42	135.00	-46.58	peak
2	5878.400	61.48	-9.40	52.08	102.68	-50.60	peak
3	5898.400	61.10	-9.37	51.73	87.88	-36.15	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: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	01	TX mode (U-NII-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), 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

Environment Parameter	Selected Values During Tests
Relative Humidity	Ambient
Value	Voltage (V AC)
NV	120
LV	102
HV	138

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.11.1 E.U.T. Operation

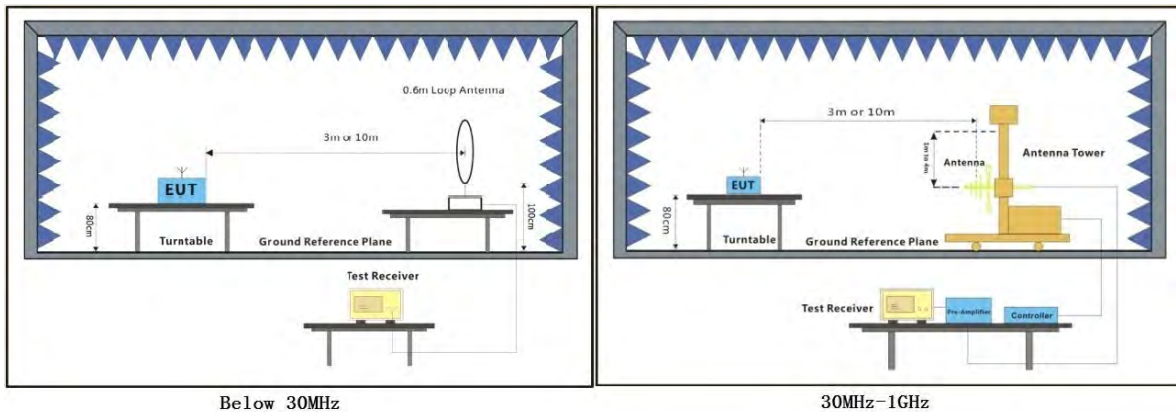
Operating Environment:

Temperature: 22.9 °C Humidity: 43.3 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



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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:

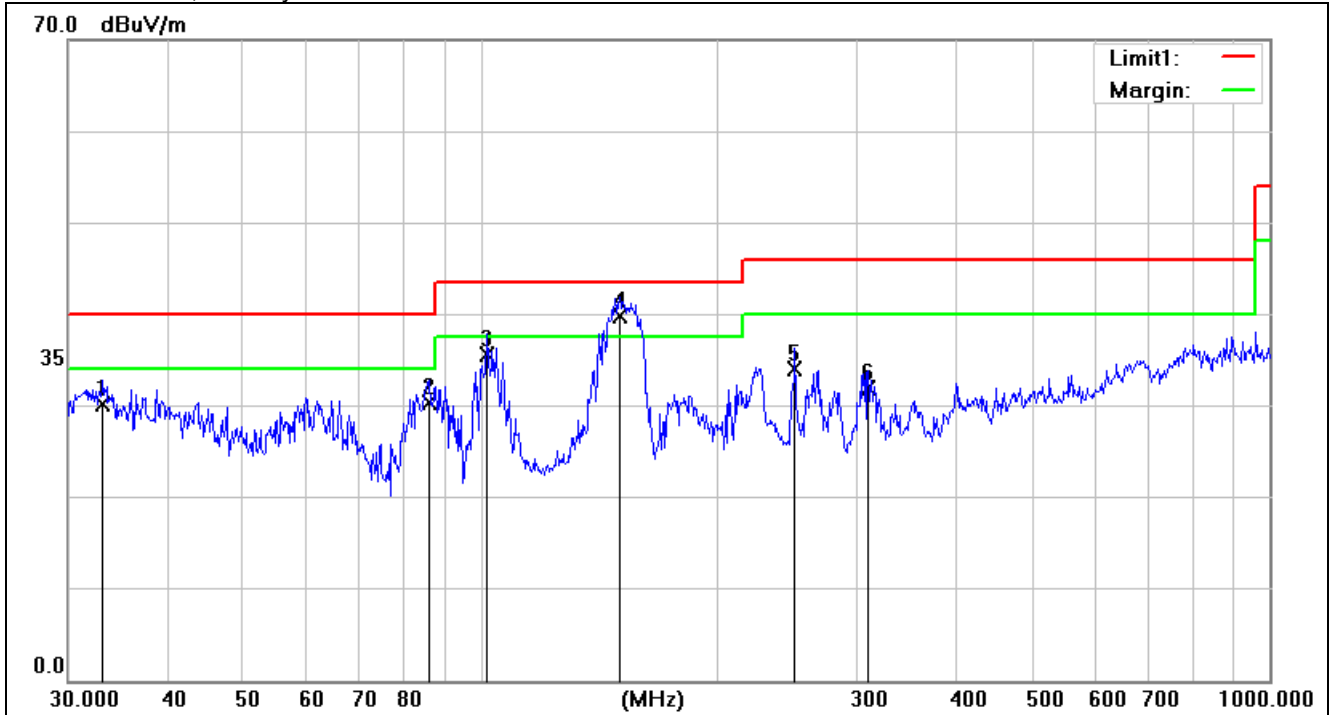
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points 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.



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Test Mode: 00; Polarity: Horizontal



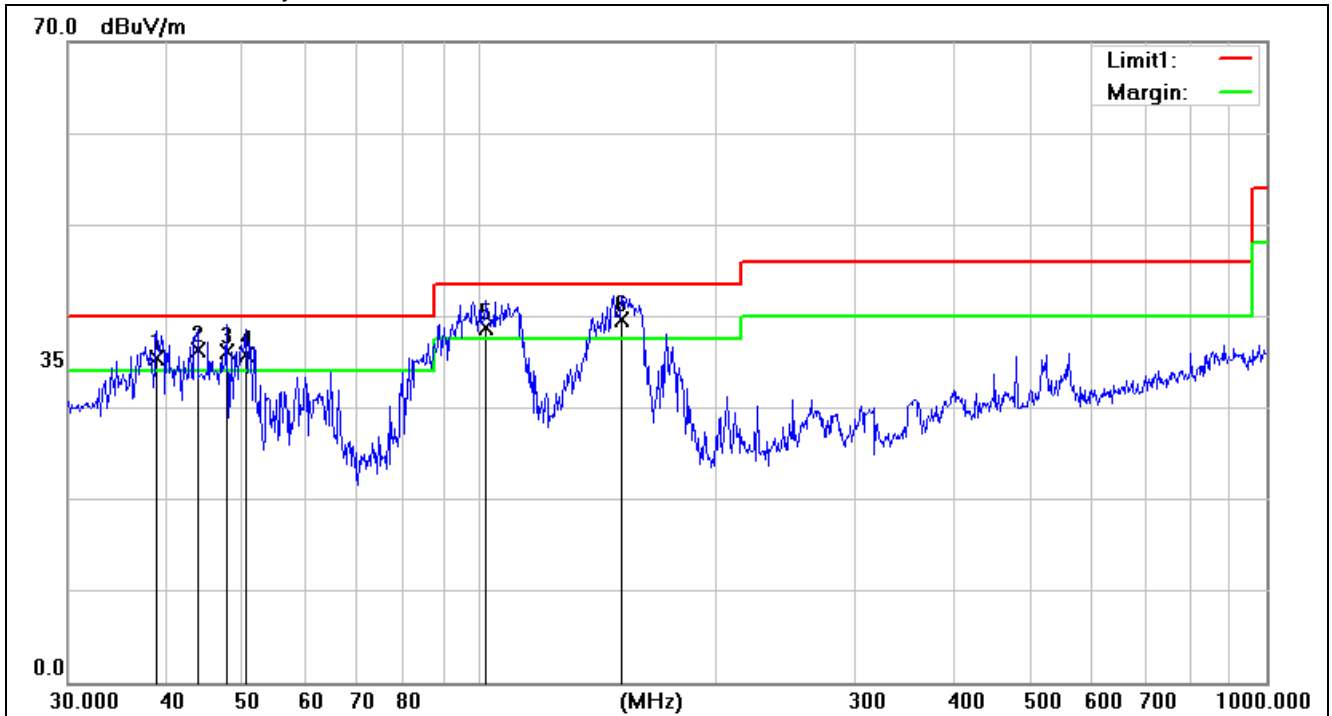
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	33.2111	5.06	25.05	30.11	40.00	-9.89	200	360	QP
2	85.8983	16.17	14.25	30.42	40.00	-9.58	100	25	QP
3	102.0014	18.14	17.44	35.58	43.50	-7.92	200	174	QP
4	150.0107	21.89	17.87	39.76	43.50	-3.74	200	151	QP
5	250.3010	14.32	19.76	34.08	46.00	-11.92	200	88	QP
6	309.9977	11.10	20.83	31.93	46.00	-14.07	300	231	QP



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Test Mode: 00; Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	38.8880	12.77	22.71	35.48	40.00	-4.52	100	152	QP
2	43.8120	15.95	20.32	36.27	40.00	-3.73	200	118	QP
3	47.6584	17.45	18.70	36.15	40.00	-3.85	100	65	QP
4	50.4090	18.14	17.57	35.71	40.00	-4.29	200	49	QP
5	102.0014	21.36	17.44	38.80	43.50	-4.70	200	122	QP
6	151.5971	21.77	17.82	39.59	43.50	-3.91	200	335	QP



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2305000762AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2305000762AT



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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	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00

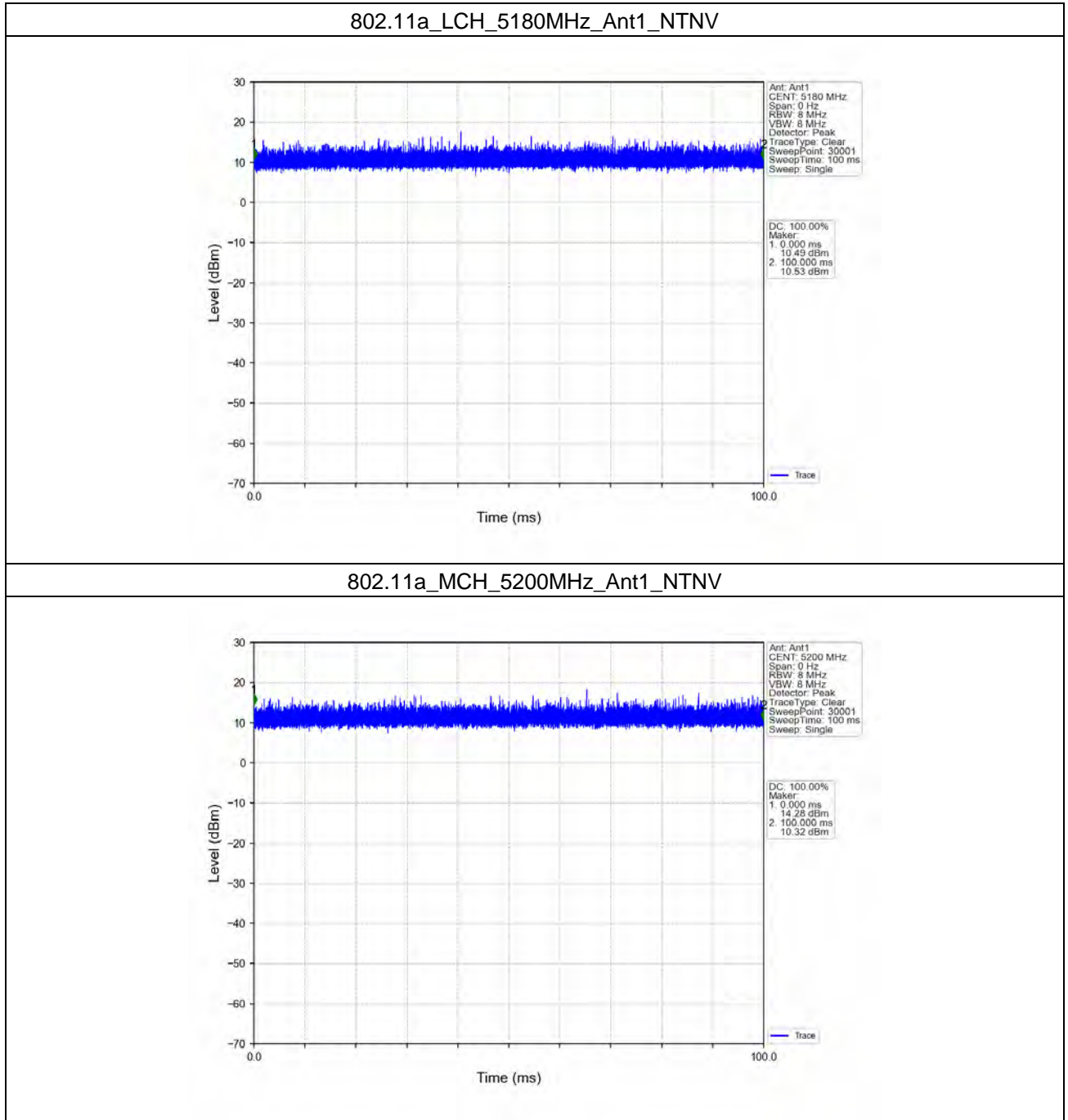


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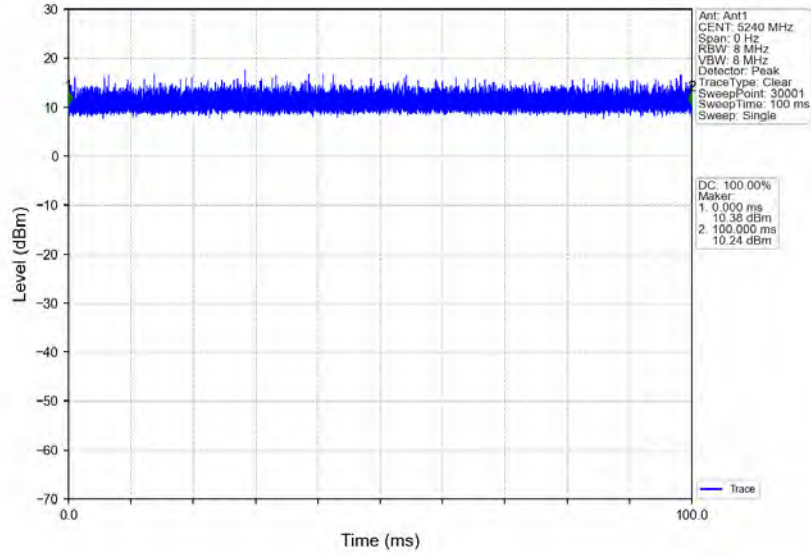
1.1.2 Test Graph



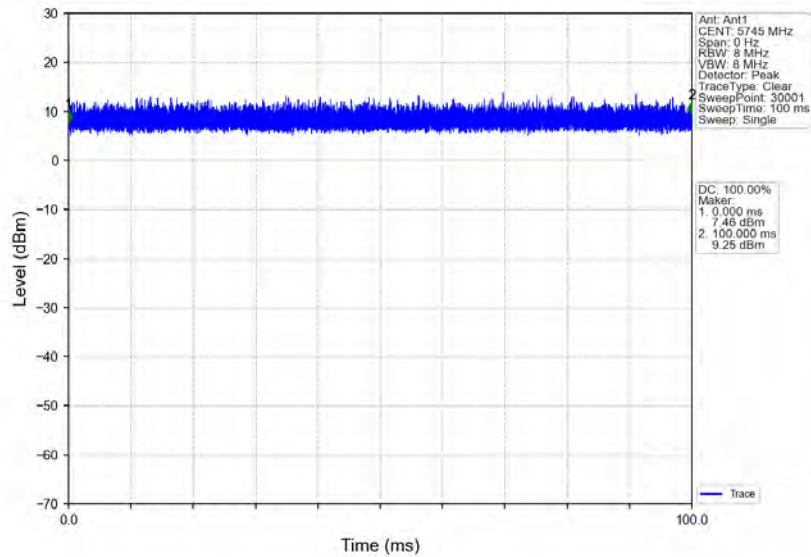
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802.11a_HCH_5240MHz_Ant1_NTNV



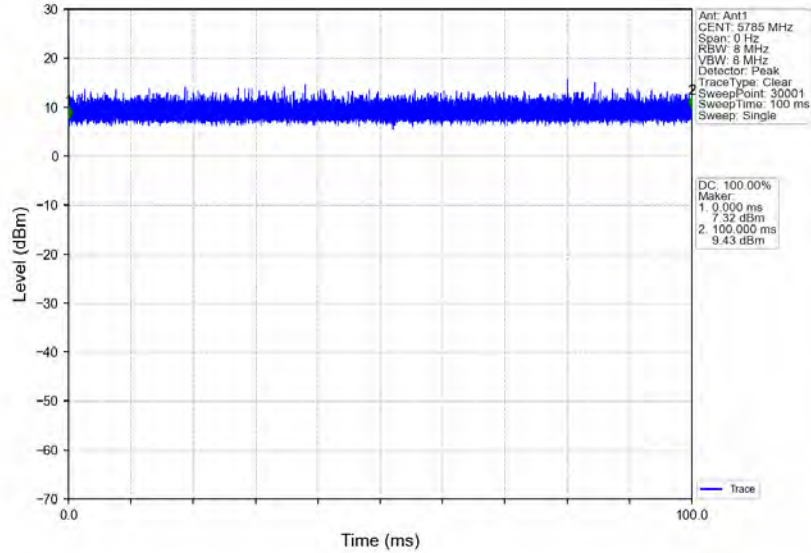
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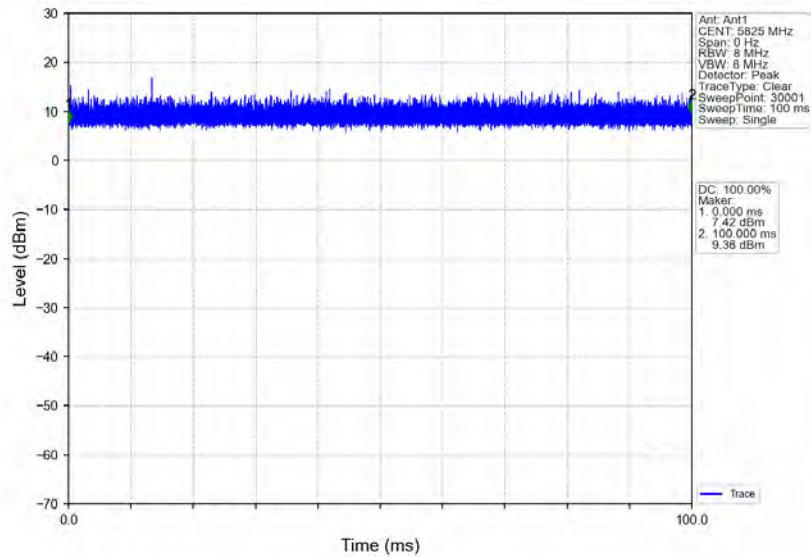
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802.11a_MCH_5785MHz_Ant1_NTNV



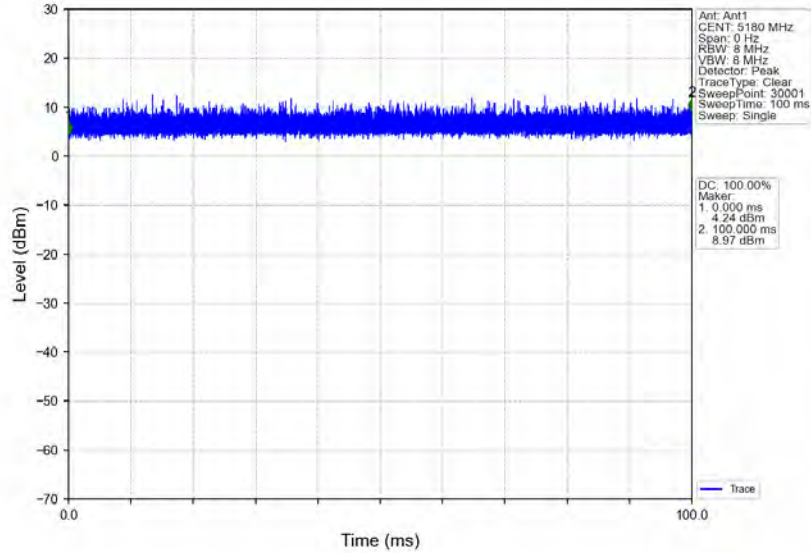
802.11a_HCH_5825MHz_Ant1_NTNV



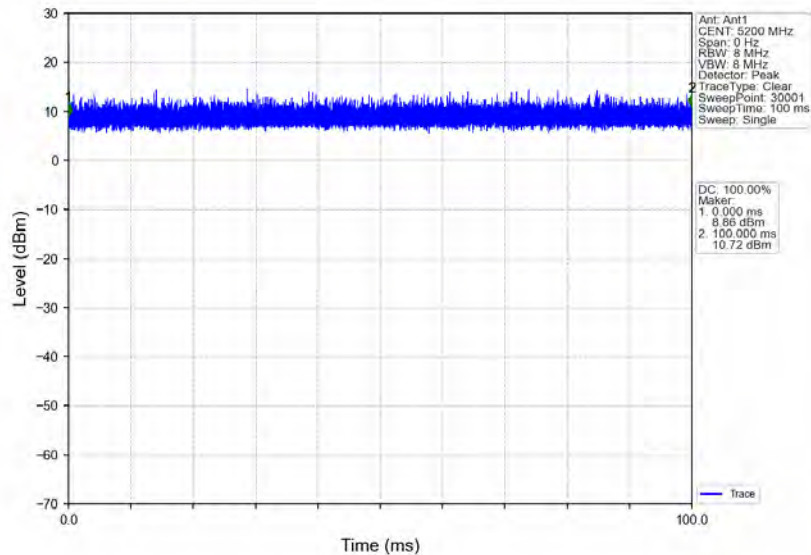
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

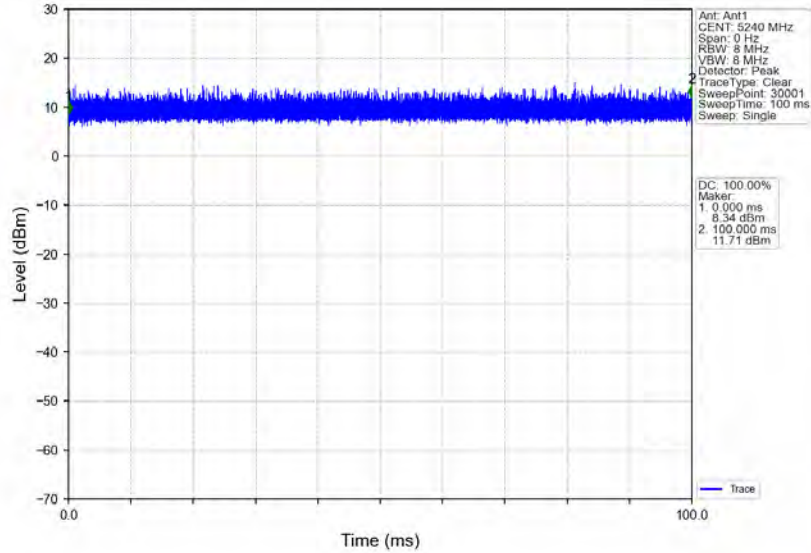


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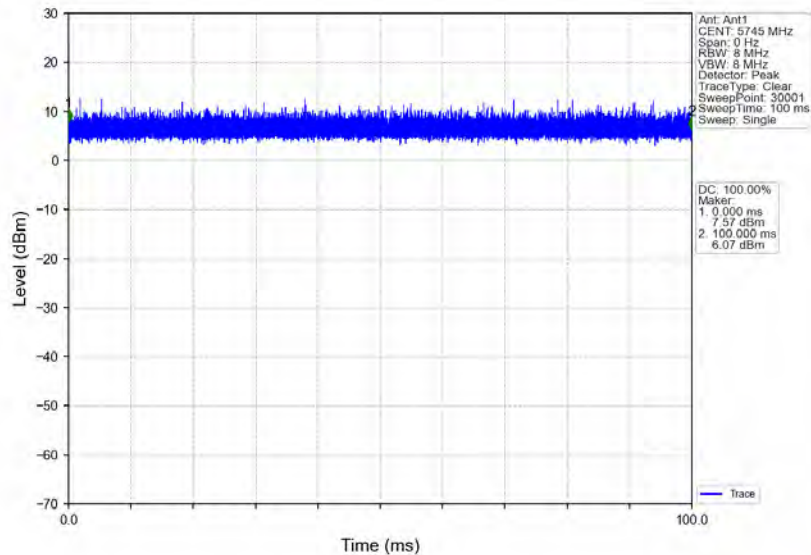
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



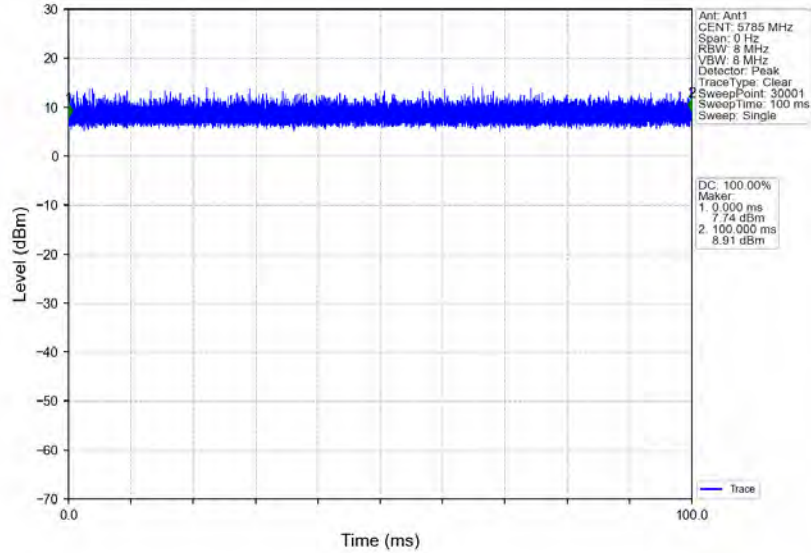
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



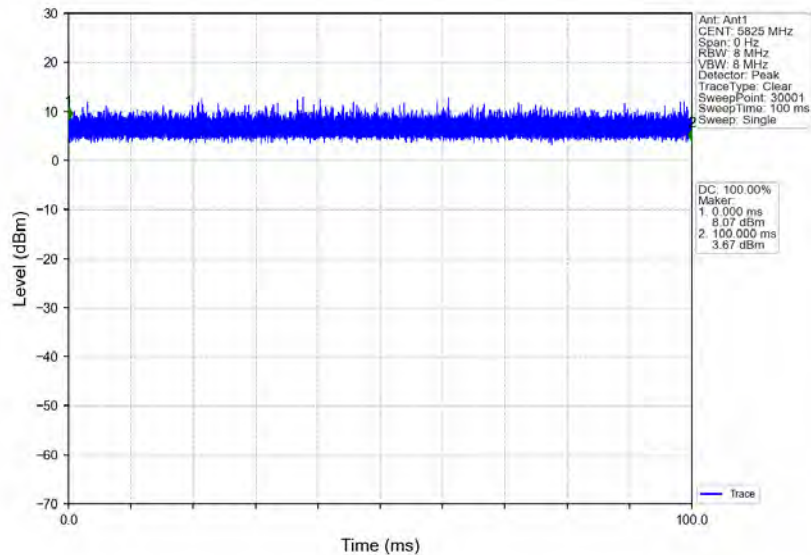
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



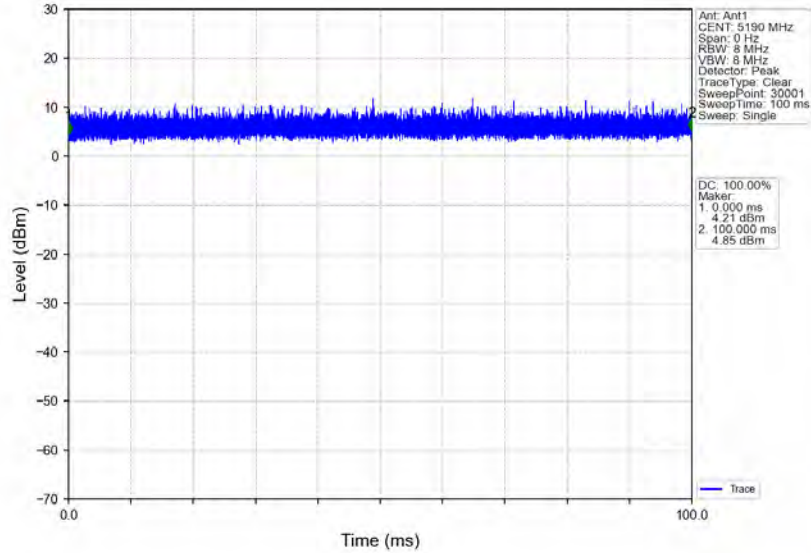
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



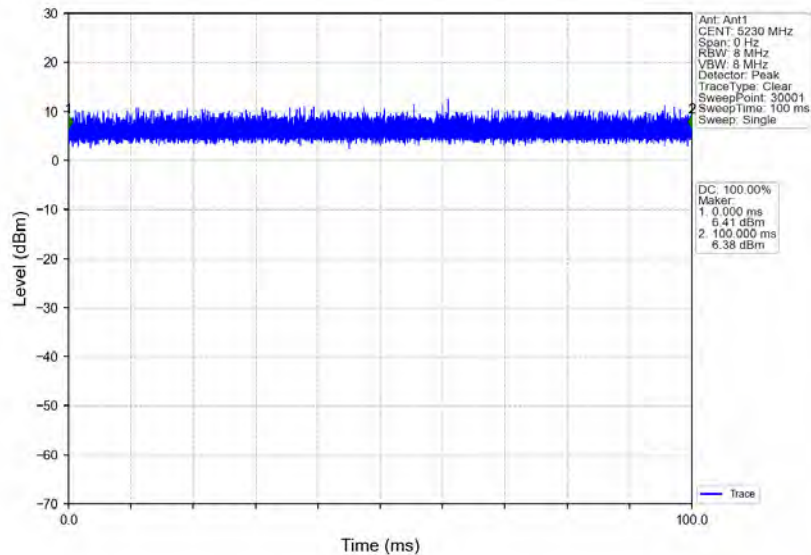
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

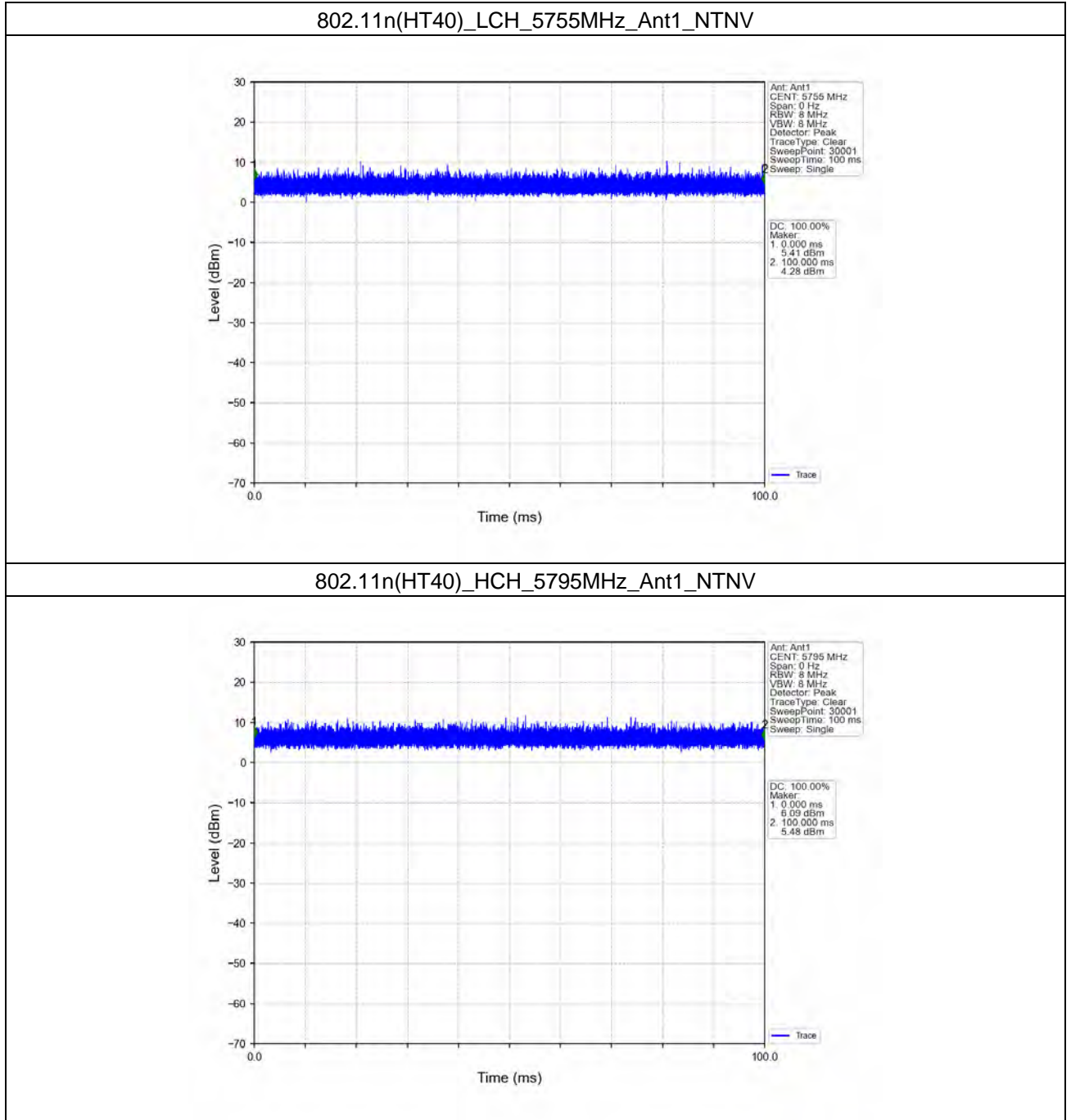


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

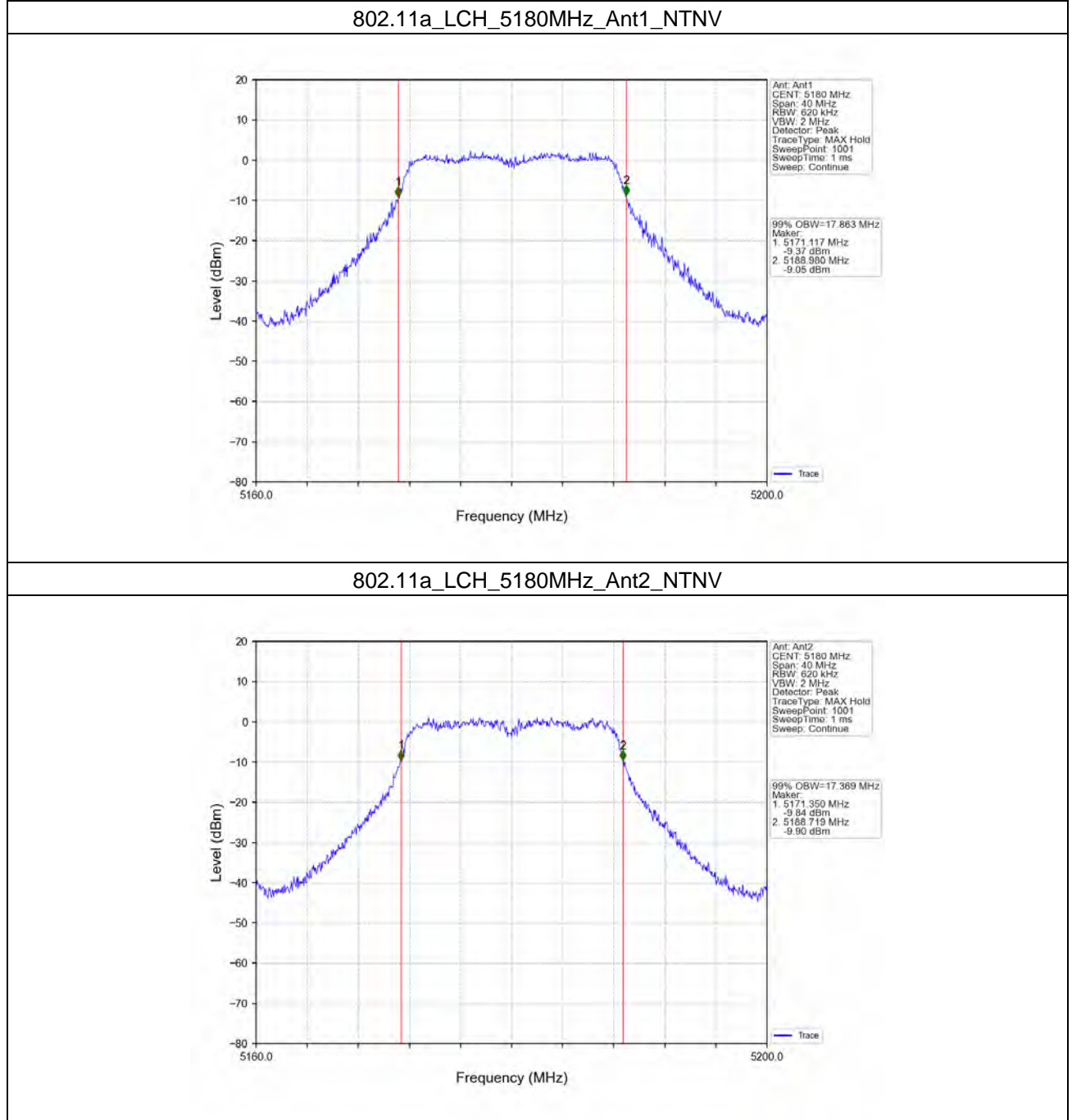
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict	
				Result			
802.11a	SISO	5180	1	17.863	Pass		
			2	17.369	Pass		
		5200	1	17.890	Pass		
			2	17.486	Pass		
		5240	1	17.599	Pass		
			2	17.273	Pass		
		5745	1	17.624	Pass		
			2	17.188	Pass		
		5785	1	17.558	Pass		
			2	17.193	Pass		
		5825	1	17.627	Pass		
			2	17.073	Pass		
		802.11n (HT20)	MIMO	5180	1	18.957	Pass
					2	18.676	Pass
5200	1			18.521	Pass		
	2			18.449	Pass		
5240	1			18.523	Pass		
	2			18.483	Pass		
5745	1			18.476	Pass		
	2			18.535	Pass		
5785	1			18.310	Pass		
	2			18.402	Pass		
5825	1			19.005	Pass		
	2			18.801	Pass		
802.11n (HT40)	MIMO			5190	1	37.401	Pass
					2	37.191	Pass
		5230	1	37.288	Pass		
			2	37.052	Pass		
		5755	1	37.390	Pass		
			2	37.244	Pass		
		5795	1	37.621	Pass		
			2	37.442	Pass		



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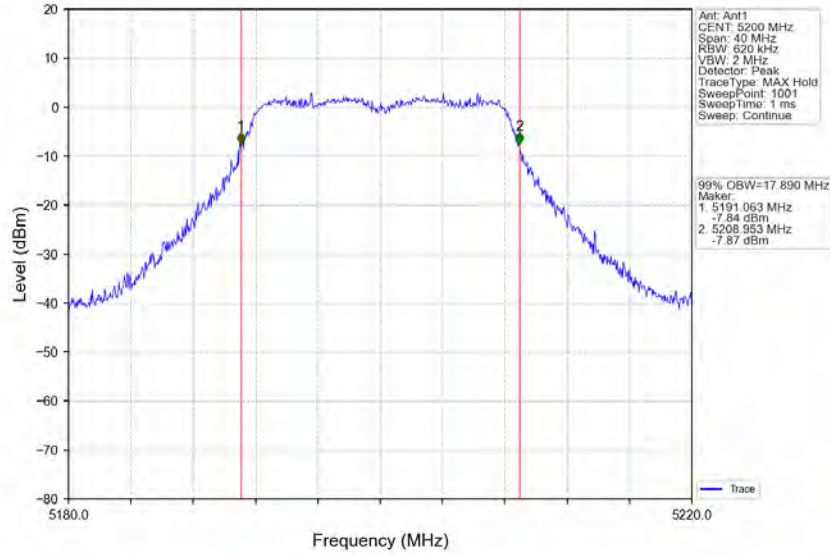
2.1.2 Test Graph



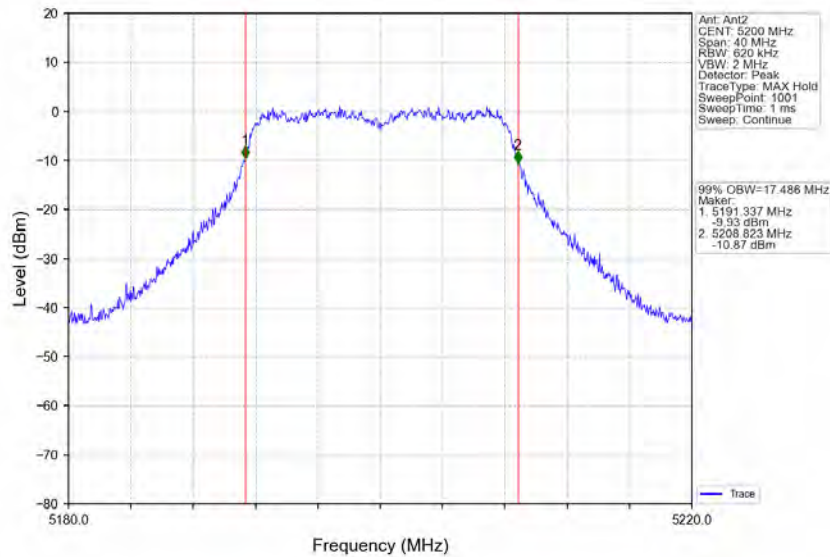
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802.11a_MCH_5200MHz_Ant1_NTNV



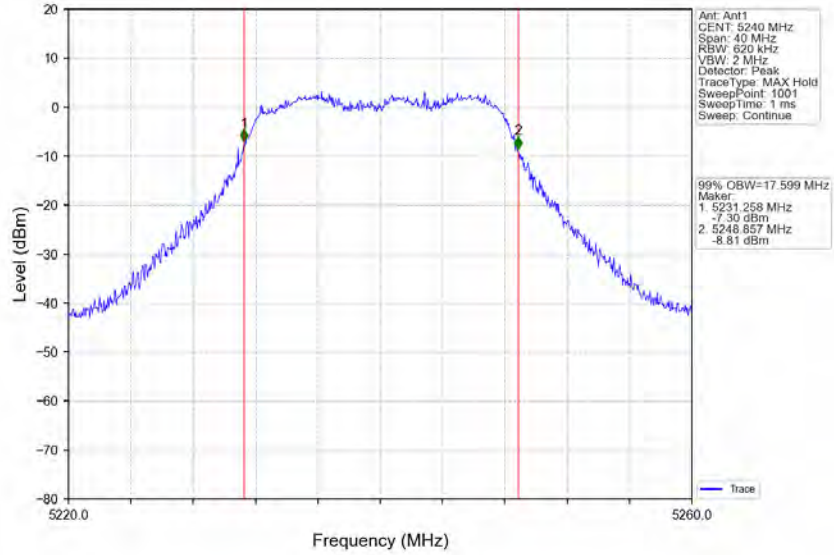
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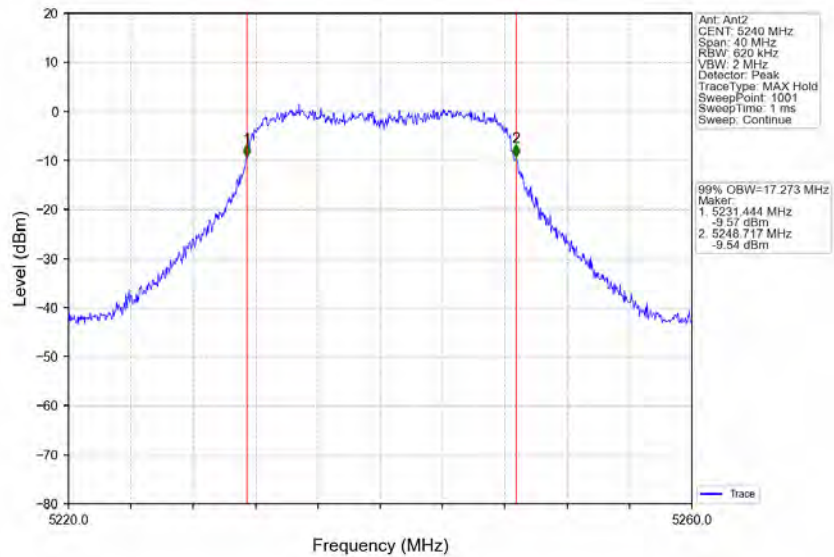
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802.11a_HCH_5240MHz_Ant1_NTNV



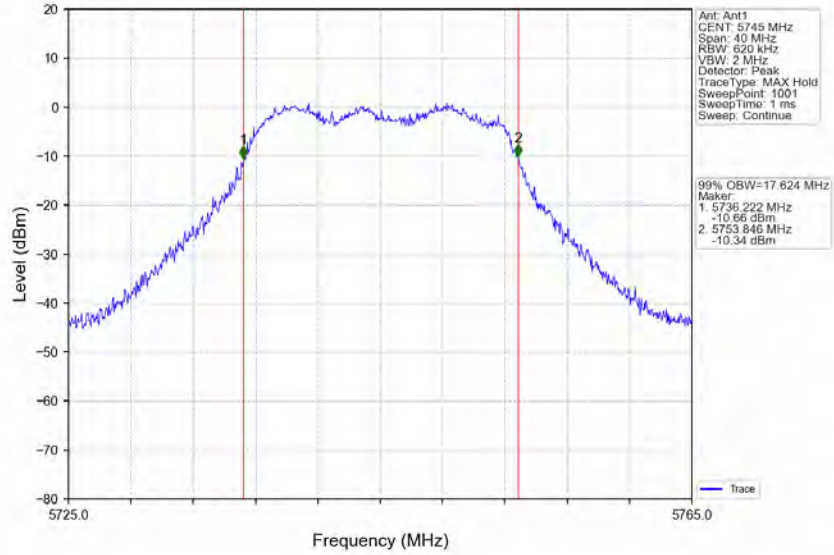
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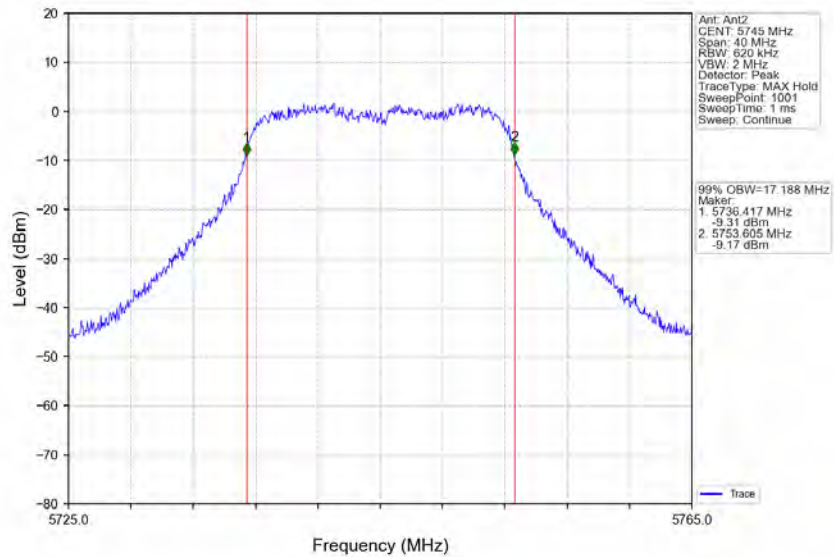
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802.11a_LCH_5745MHz_Ant1_NTNV



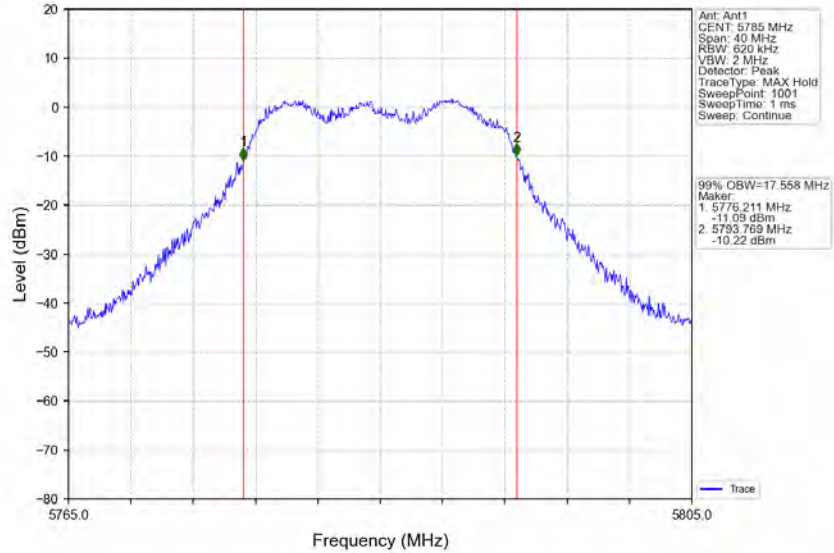
802.11a_LCH_5745MHz_Ant2_NTNV



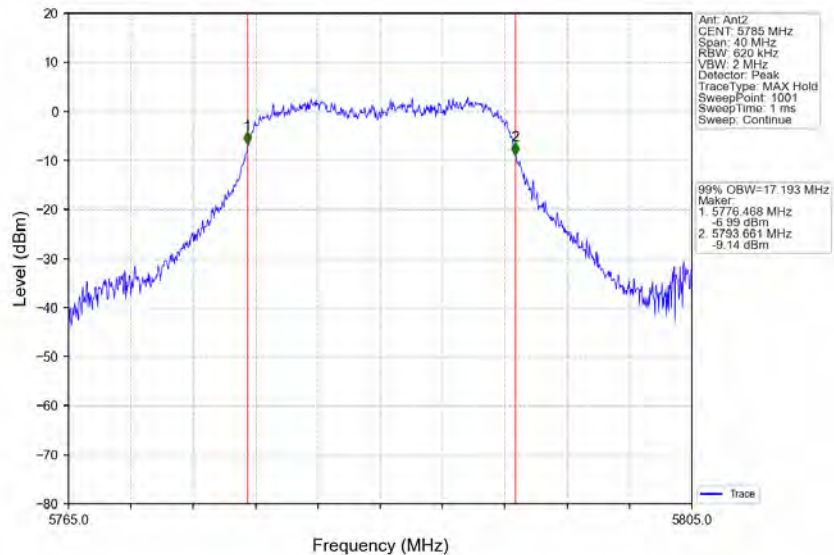
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802.11a_MCH_5785MHz_Ant1_NTNV



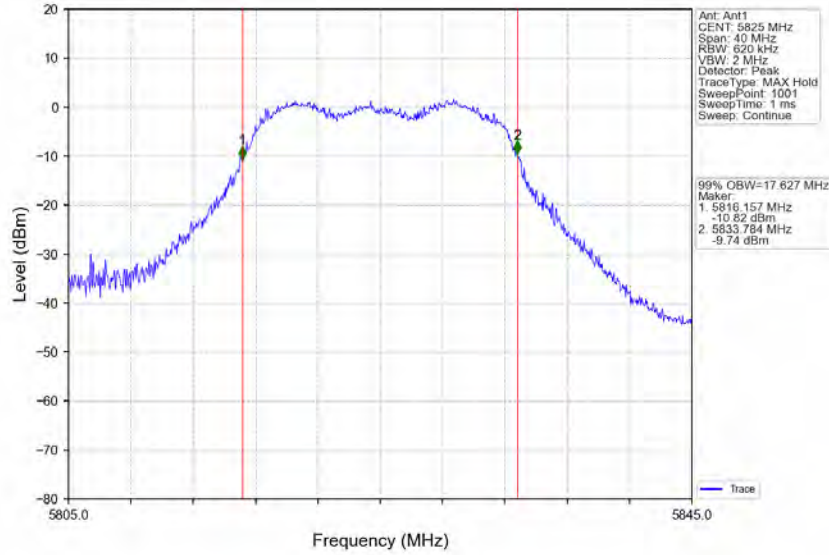
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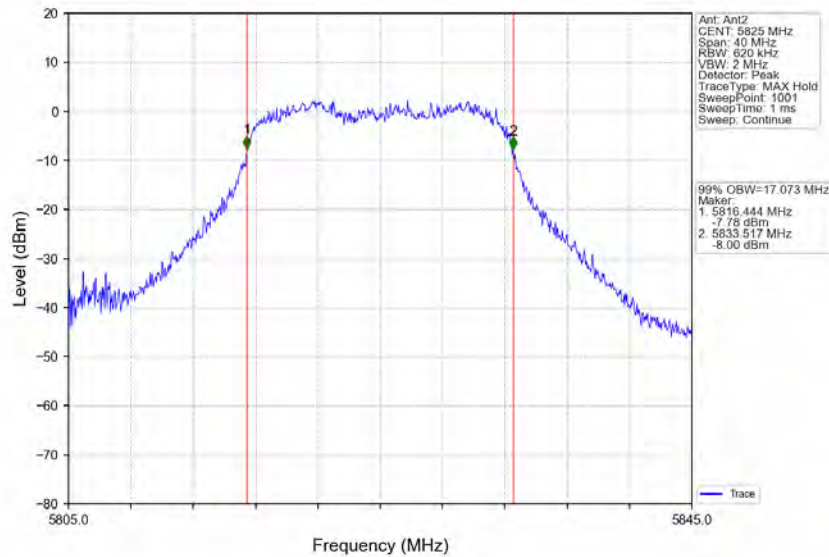
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802.11a_HCH_5825MHz_Ant1_NTNV



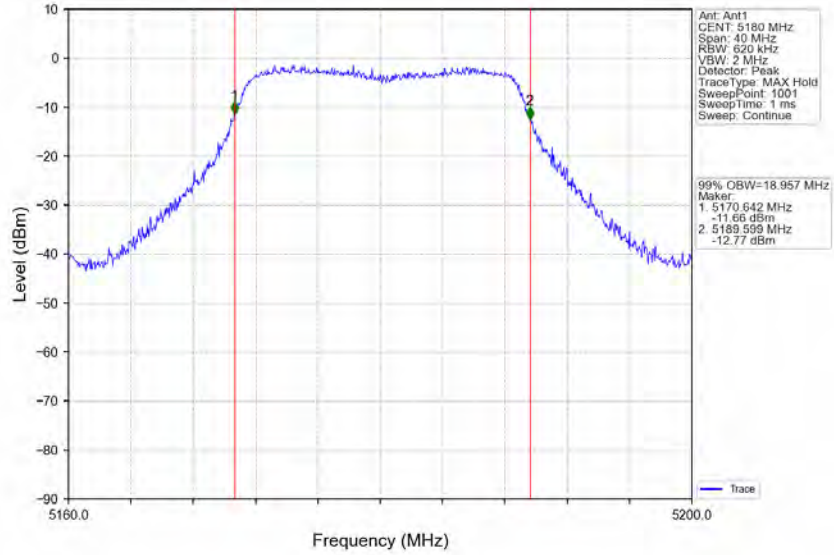
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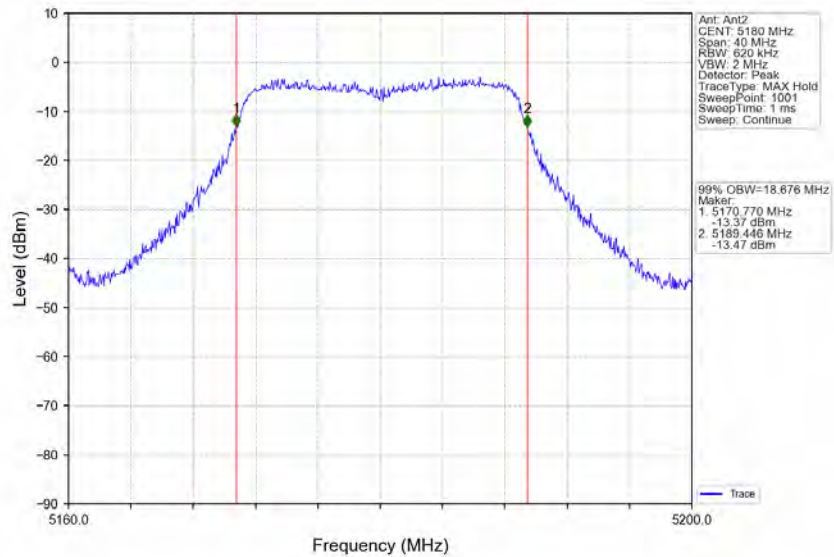
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



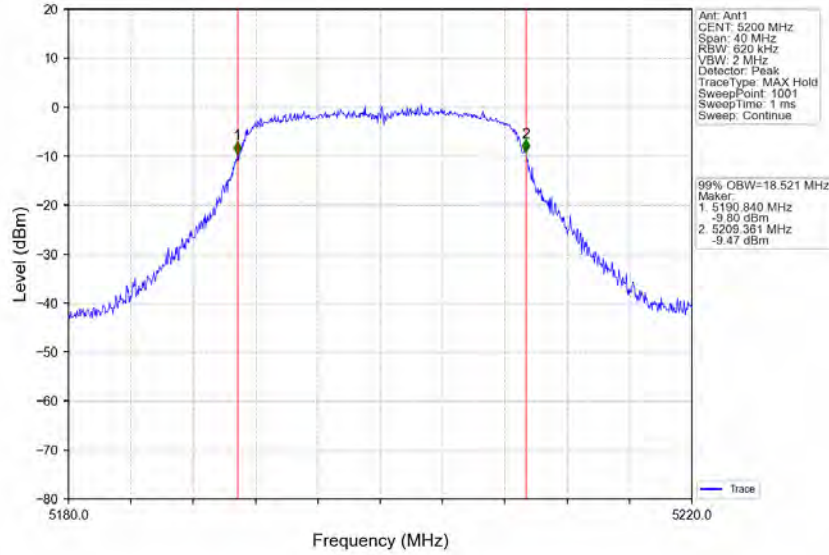
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



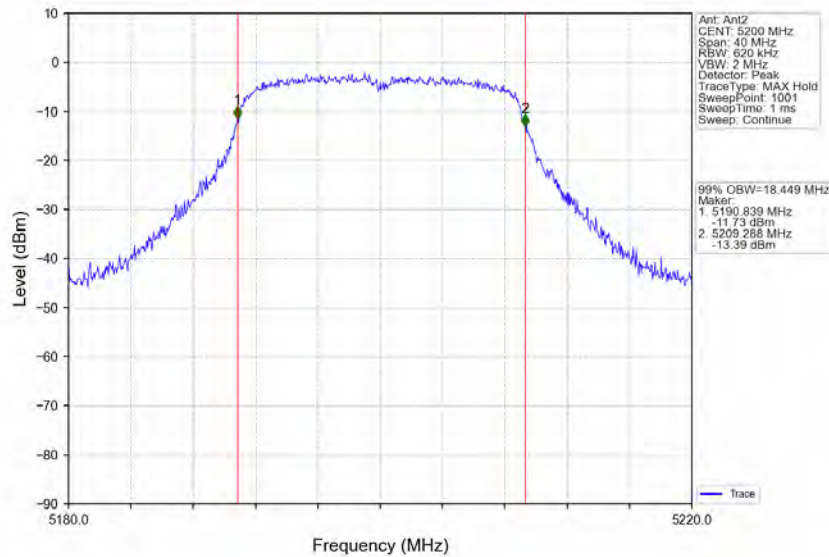
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



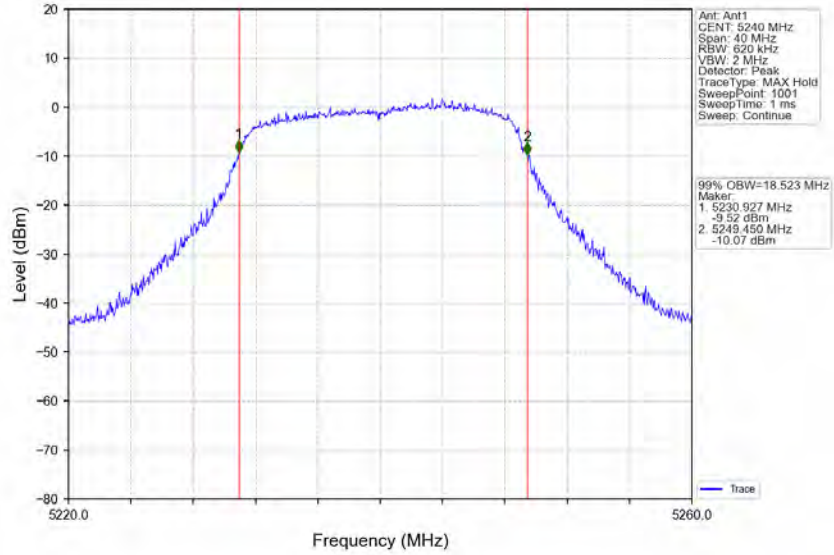
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



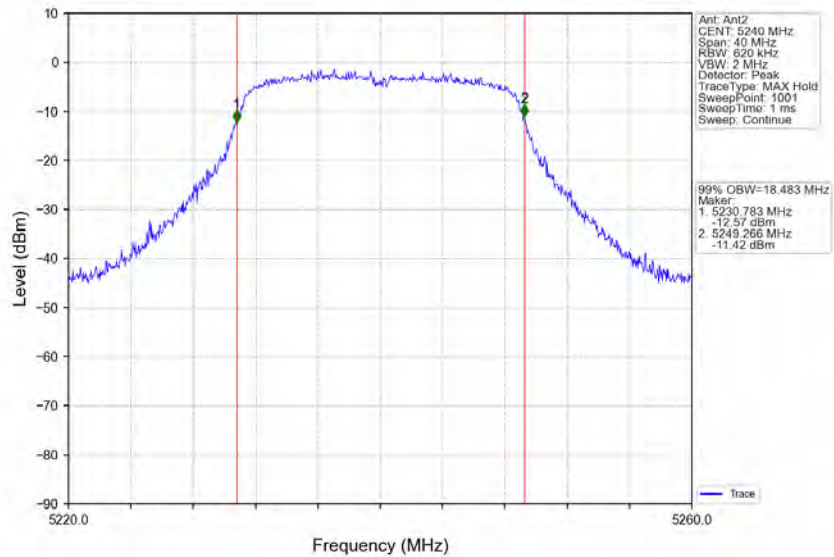
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



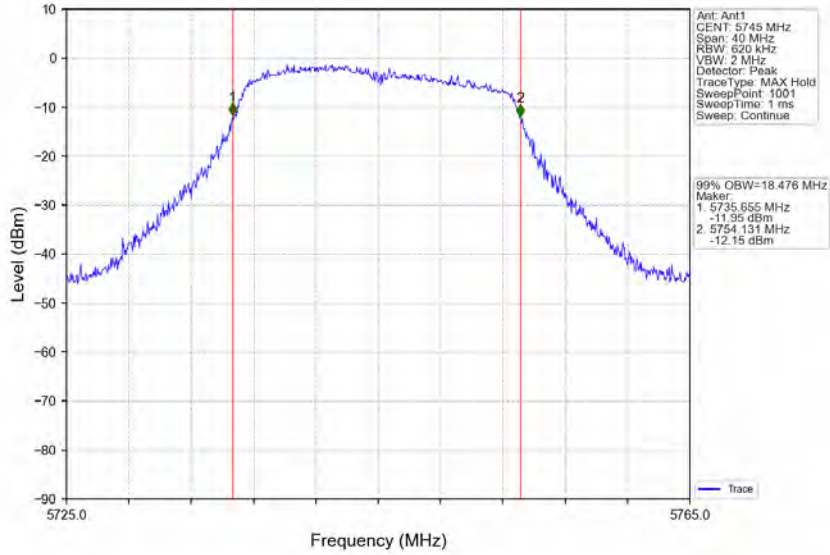
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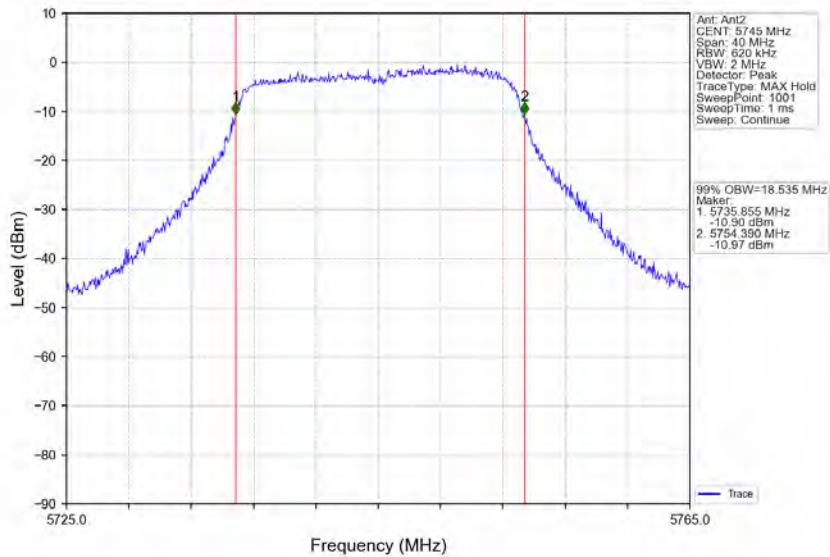
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



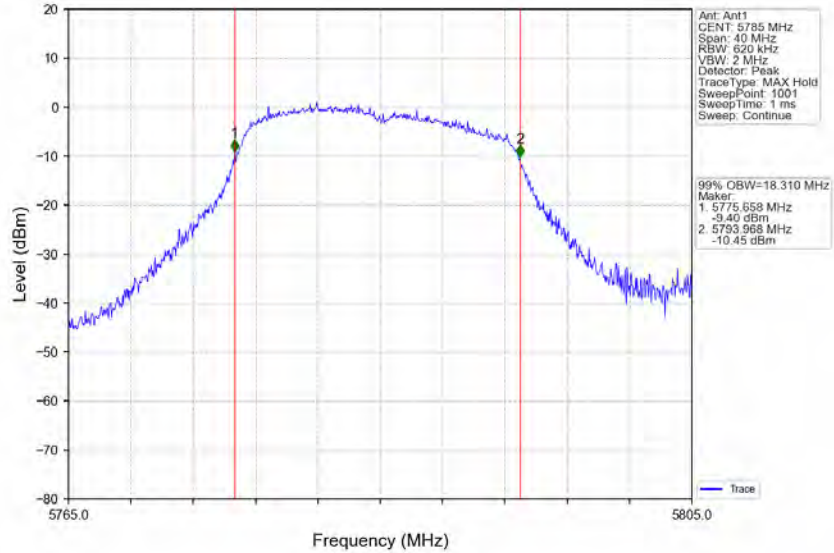
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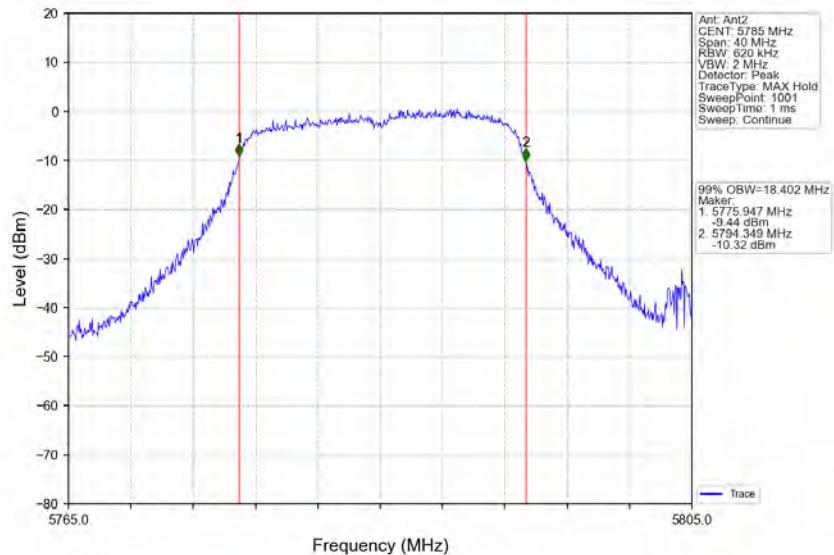
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



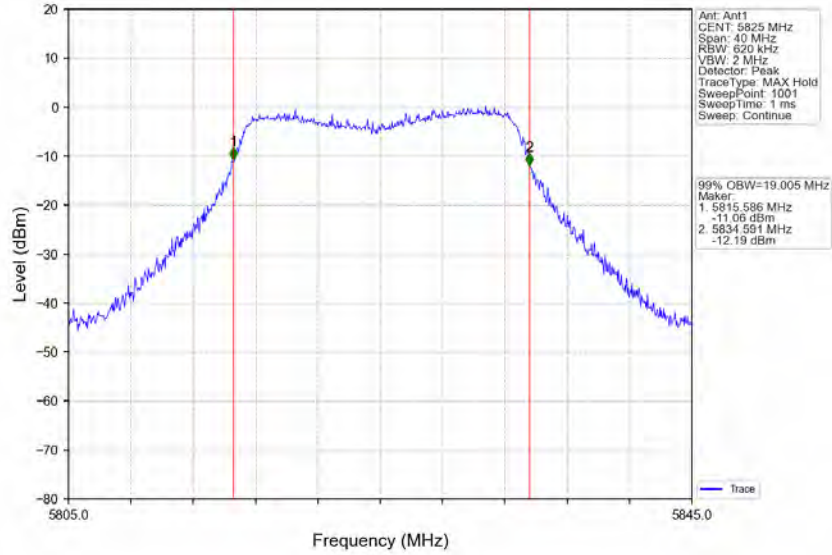
802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



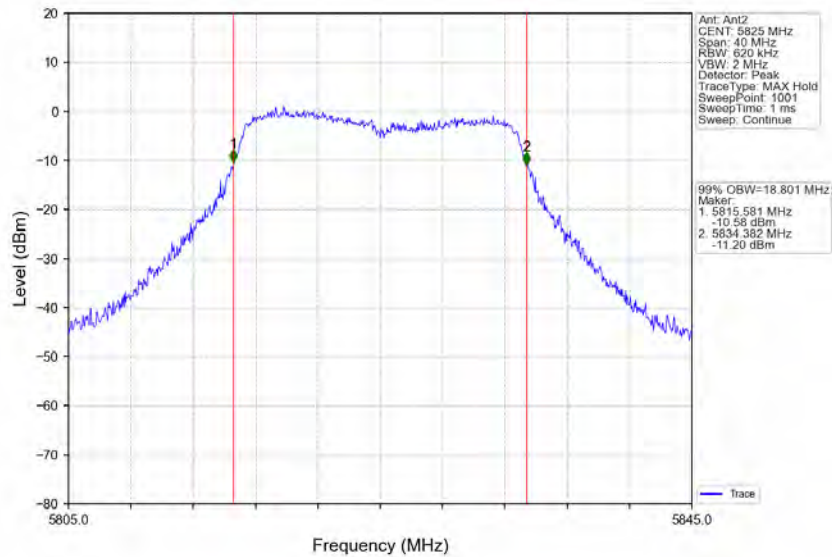
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



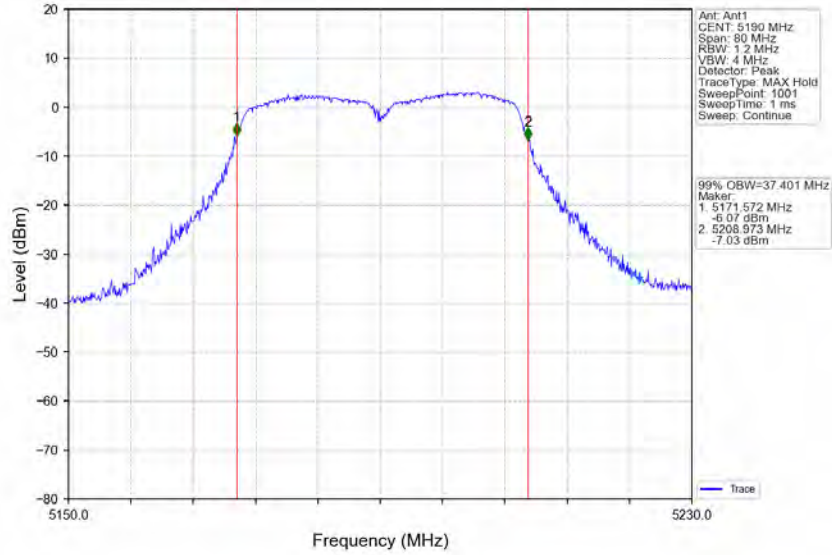
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



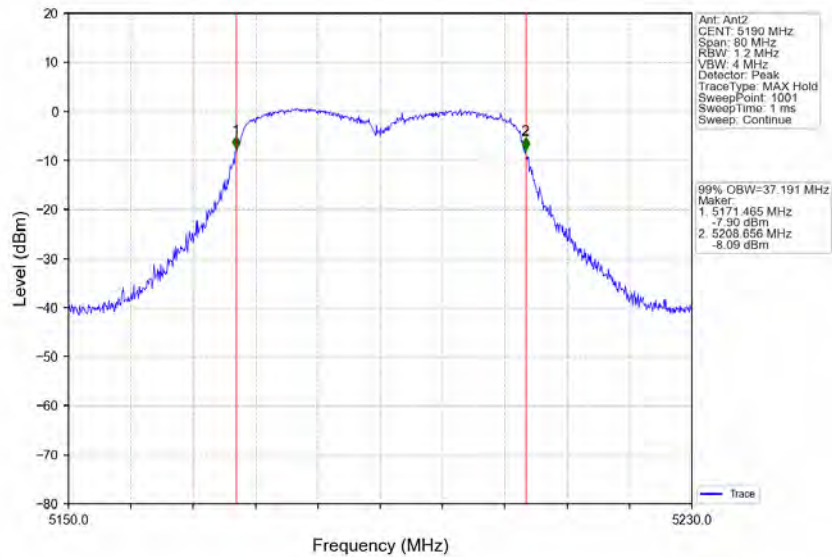
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



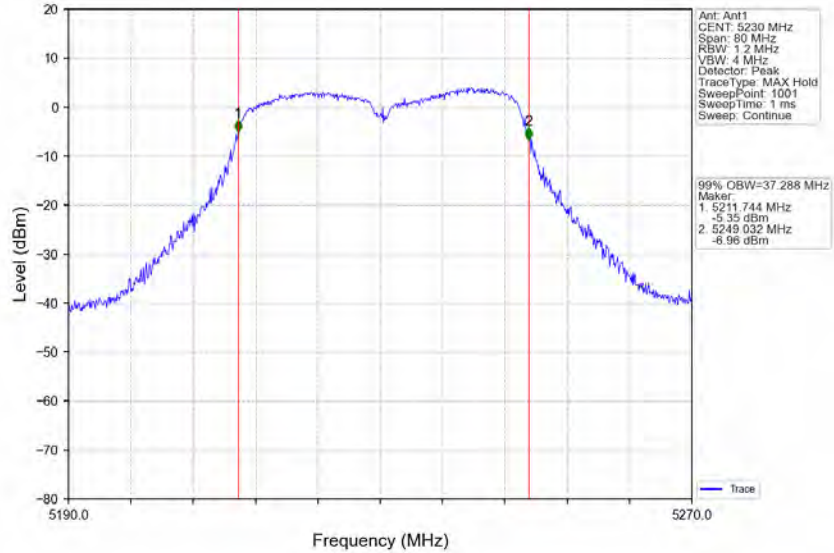
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



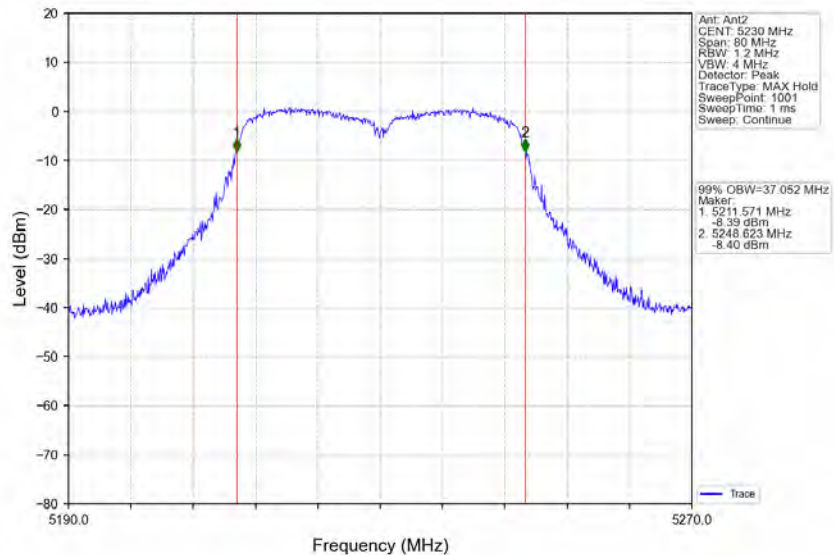
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



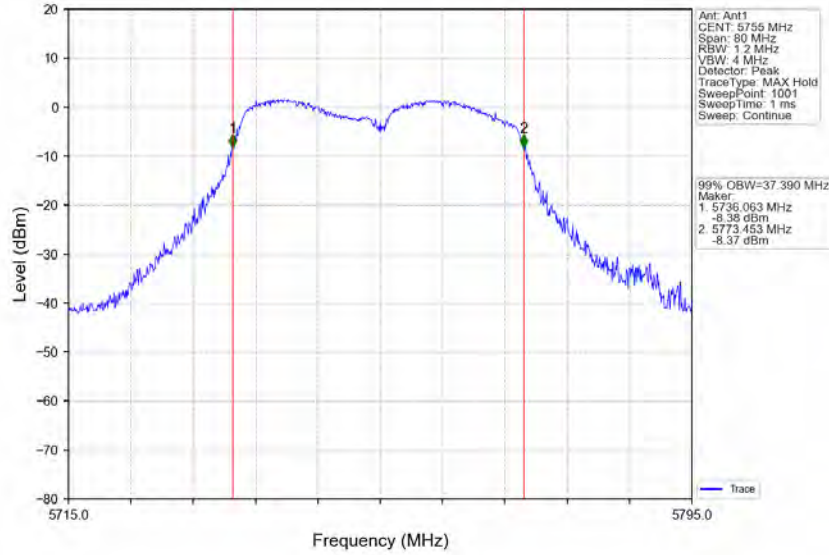
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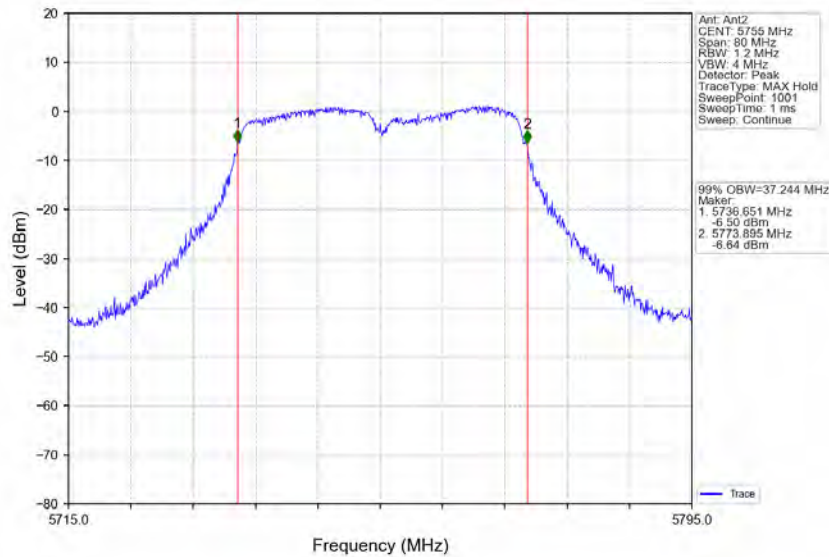
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



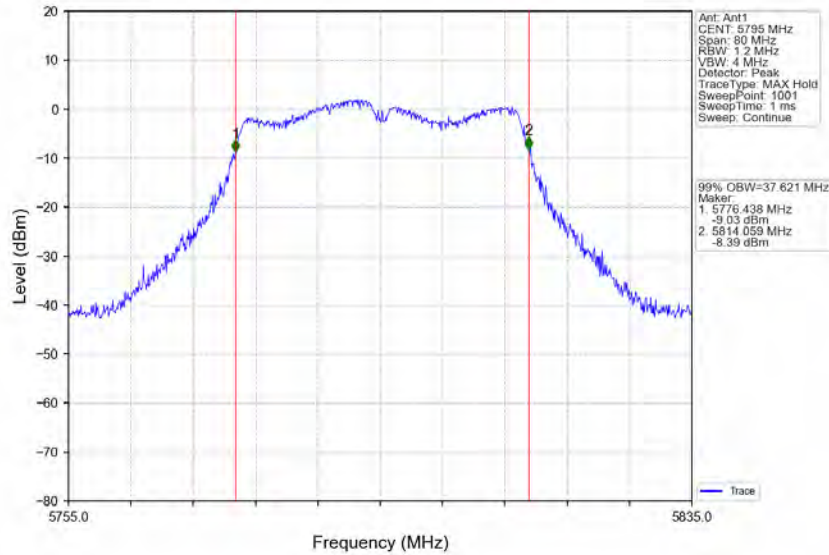
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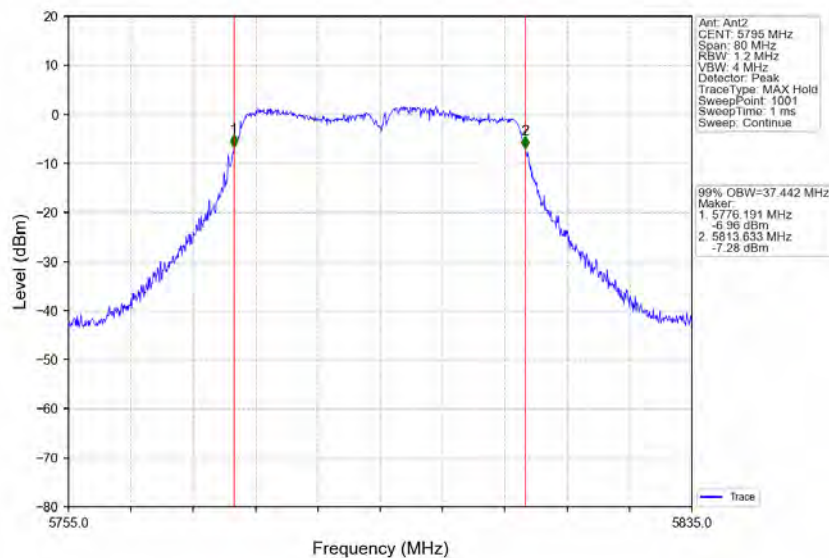
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



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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	16.386	>=0.5	Pass
			2	16.426	>=0.5	Pass
		5785	1	11.523	>=0.5	Pass
			2	16.403	>=0.5	Pass
		5825	1	16.391	>=0.5	Pass
			2	16.377	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.630	>=0.5	Pass
			2	17.684	>=0.5	Pass
		5785	1	15.448	>=0.5	Pass
			2	17.632	>=0.5	Pass
		5825	1	17.833	>=0.5	Pass
			2	17.766	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.979	>=0.5	Pass
			2	36.408	>=0.5	Pass
		5795	1	36.423	>=0.5	Pass
			2	36.410	>=0.5	Pass

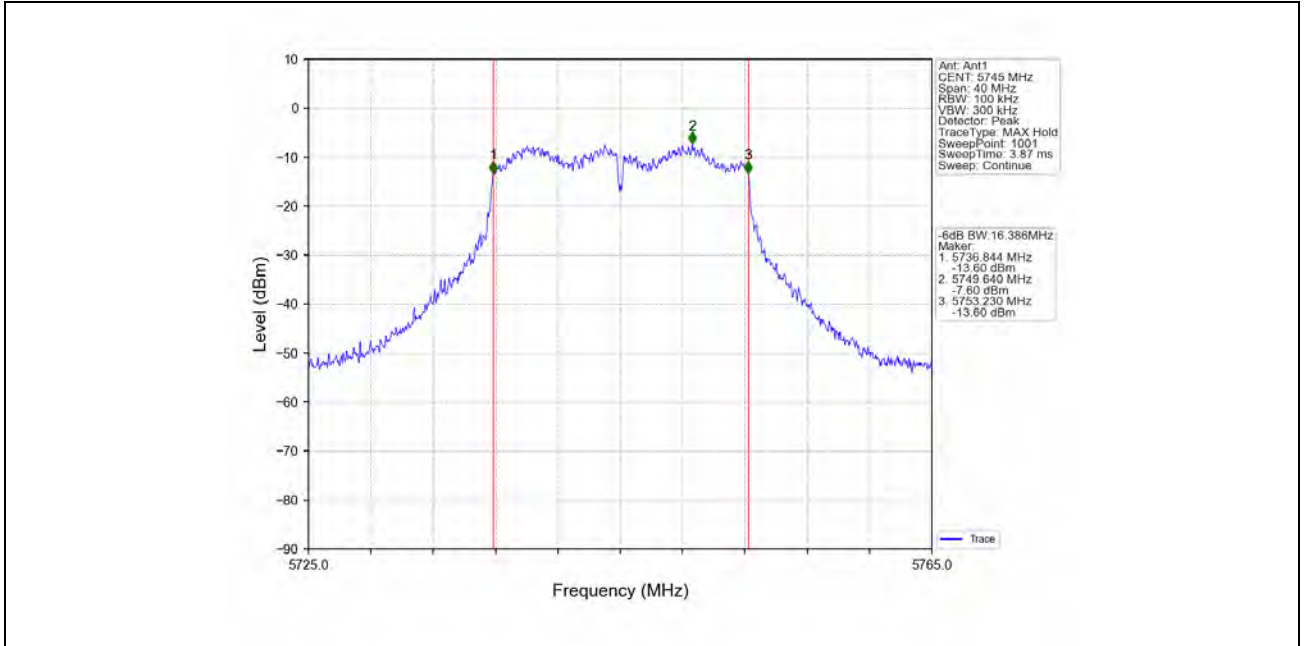
2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV

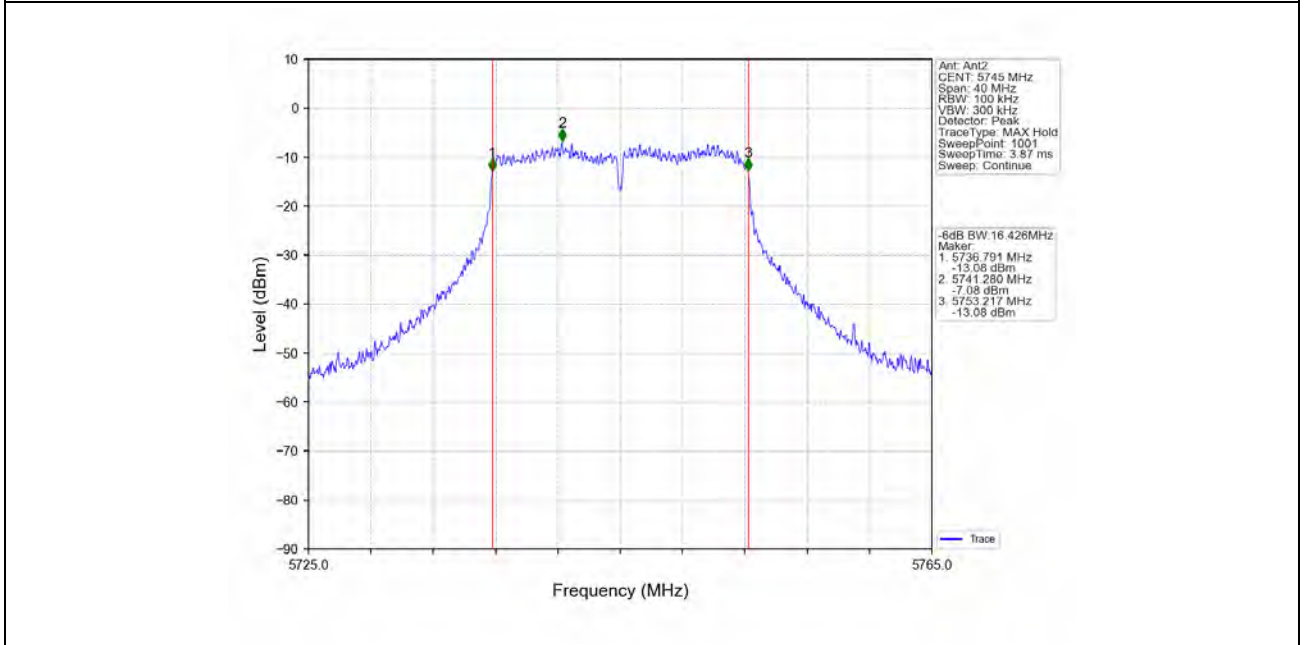


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802.11a_LCH_5745MHz_Ant2_NTNV

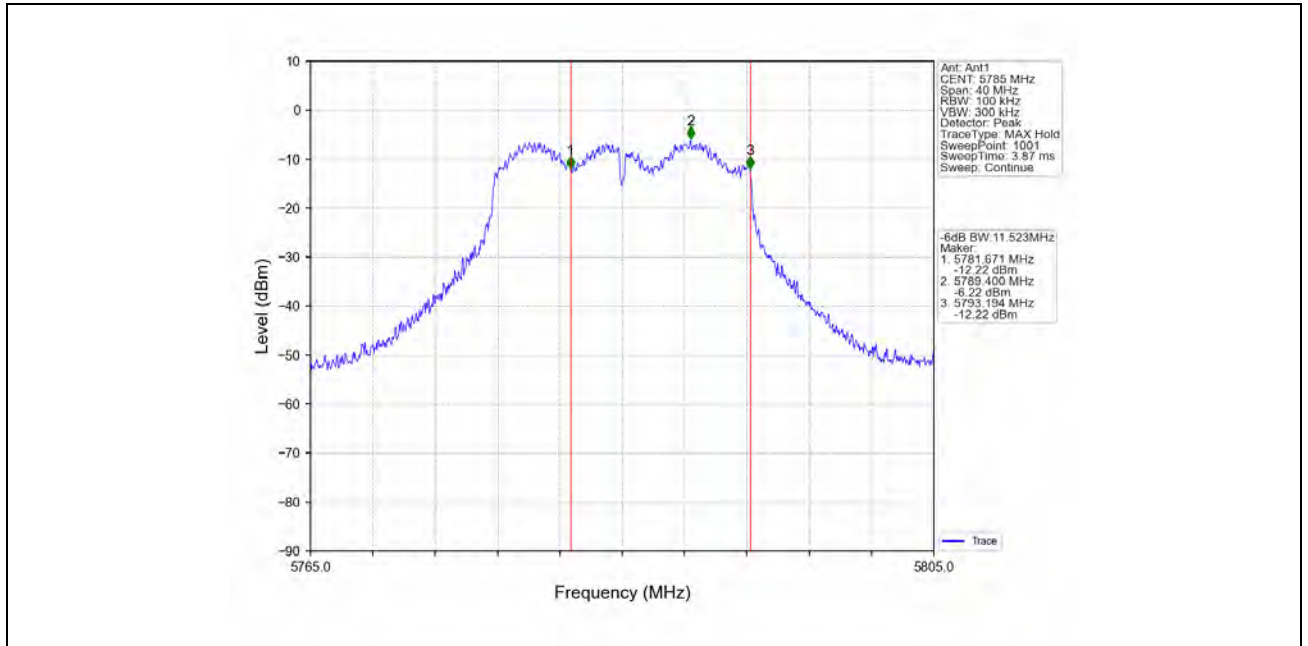


802.11a_MCH_5785MHz_Ant1_NTNV

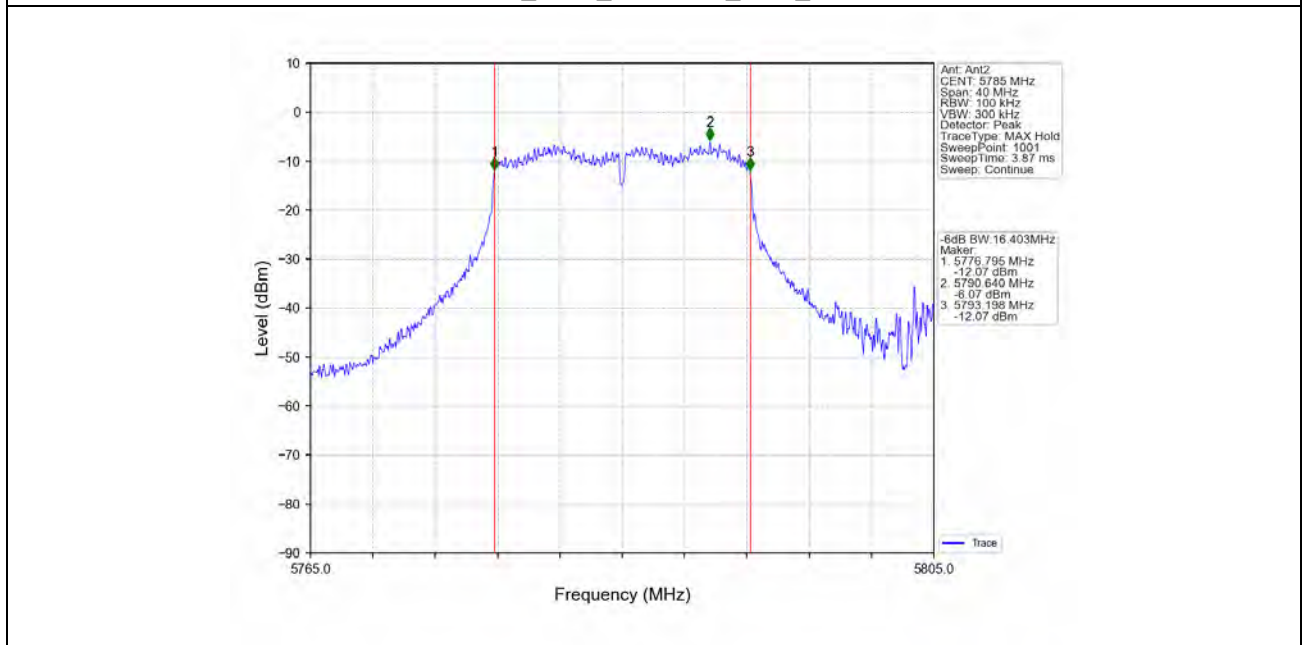


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802.11a_MCH_5785MHz_Ant2_NTNV

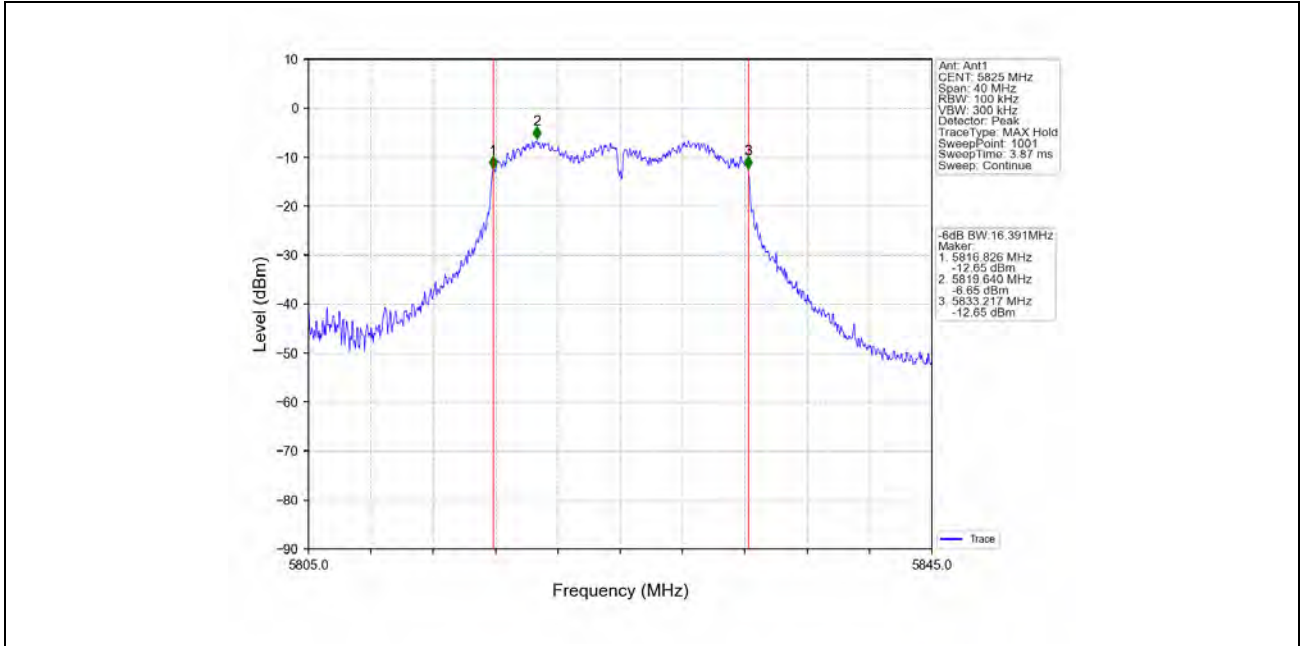


802.11a_HCH_5825MHz_Ant1_NTNV

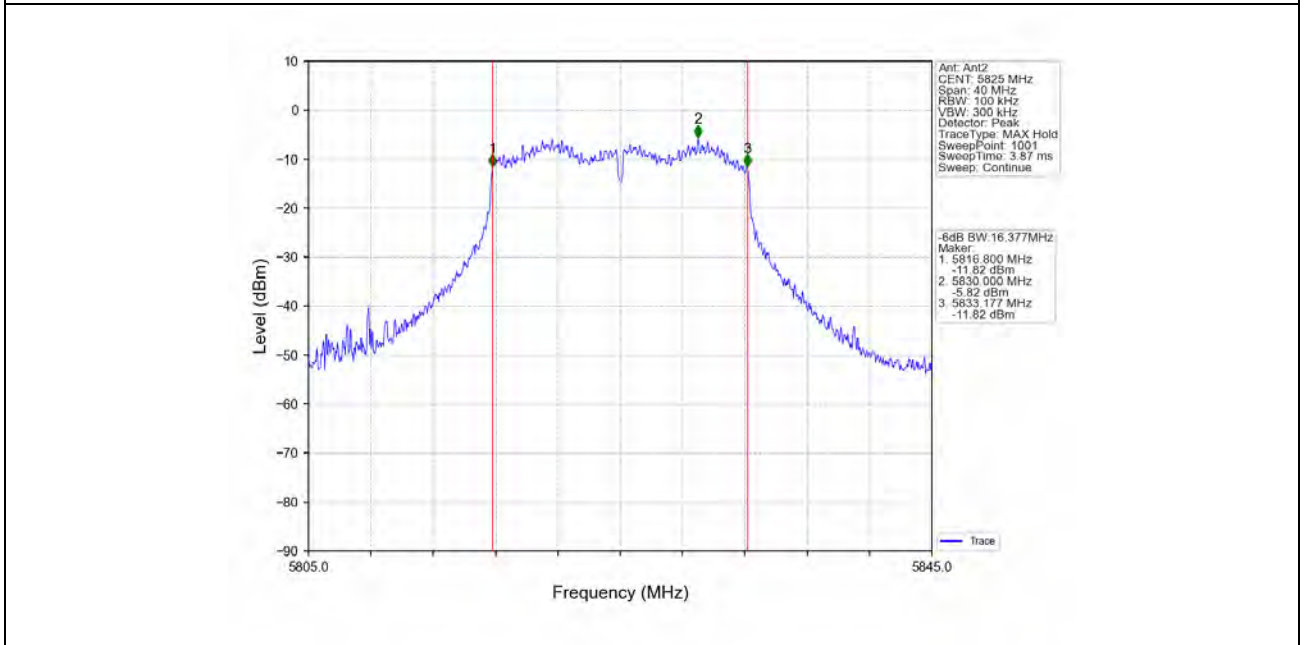


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802.11a_HCH_5825MHz_Ant2_NTNV

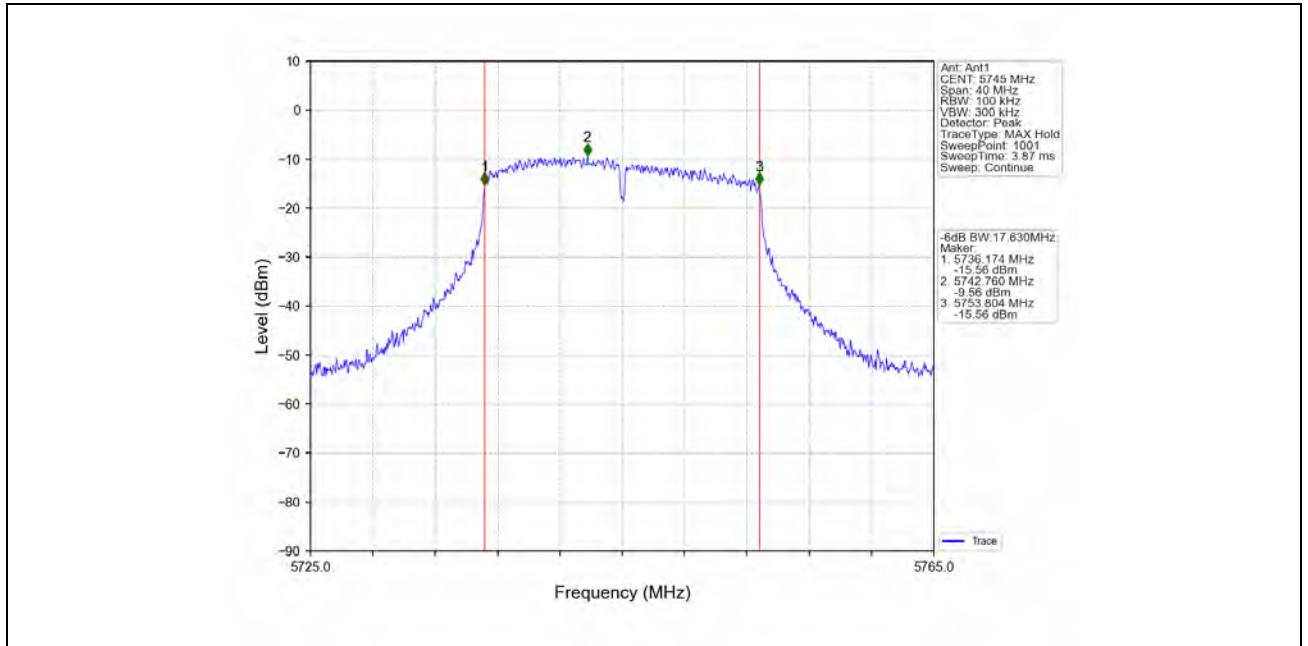


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

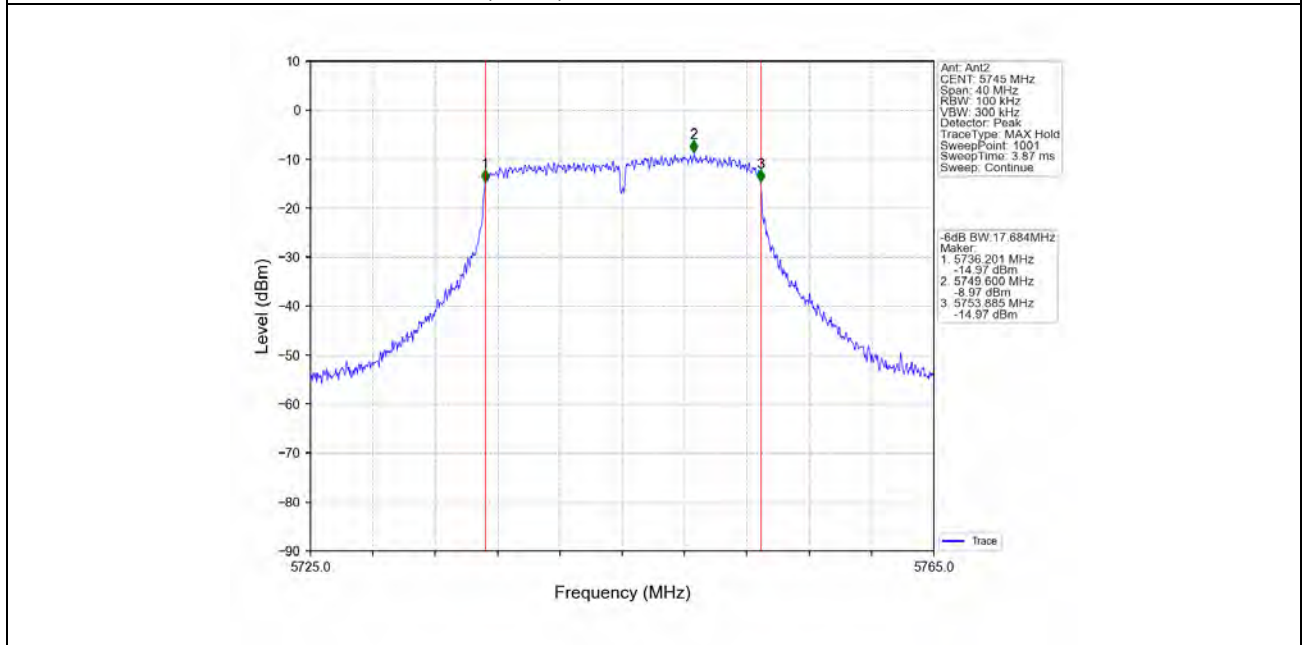


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802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

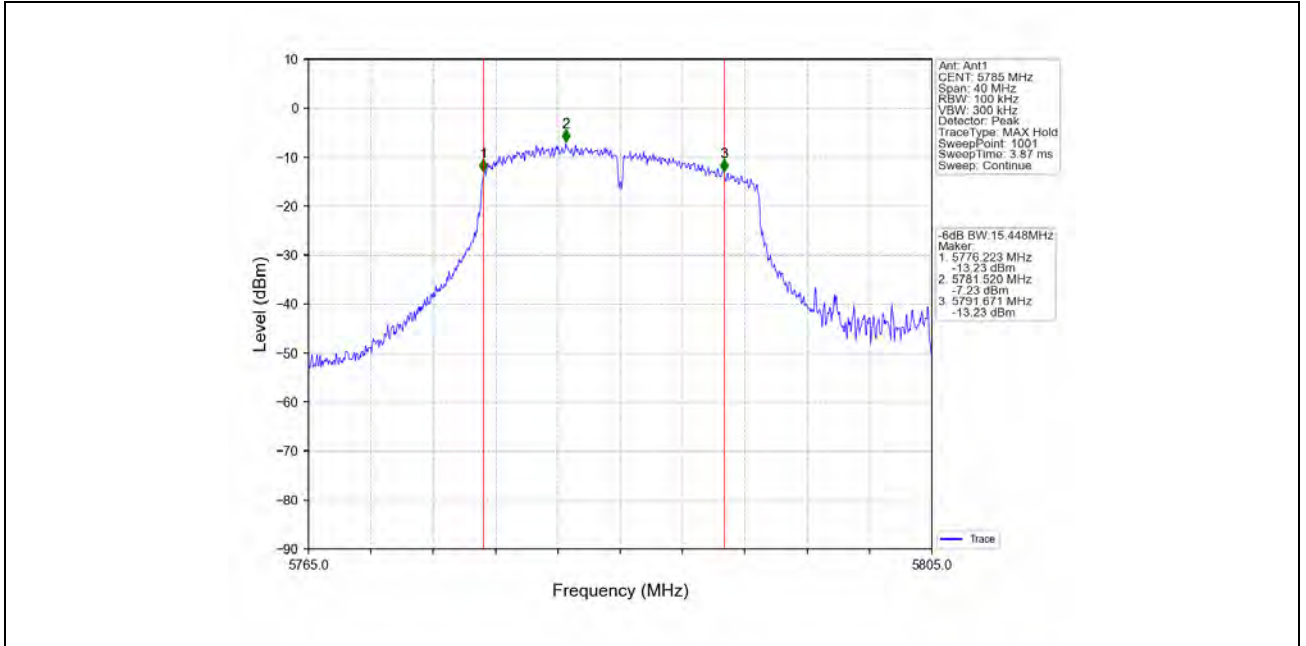


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

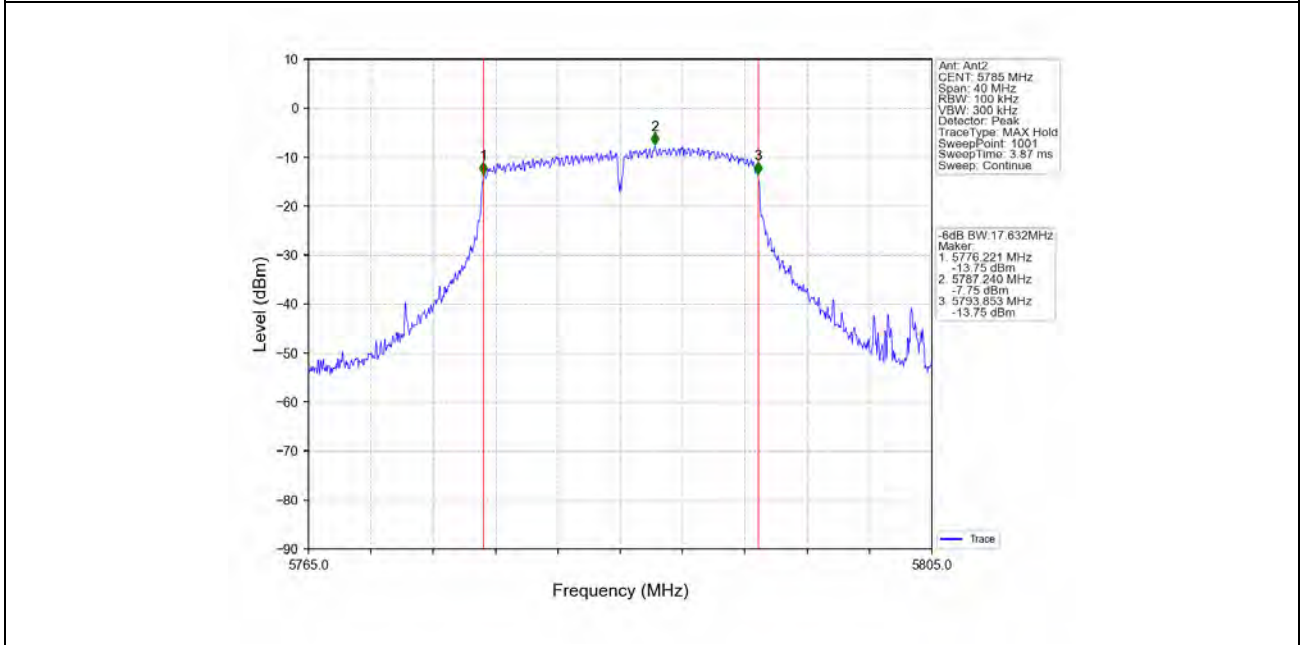


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802.11n(HT20)_MCH_5785MHz_Ant2_NTNV

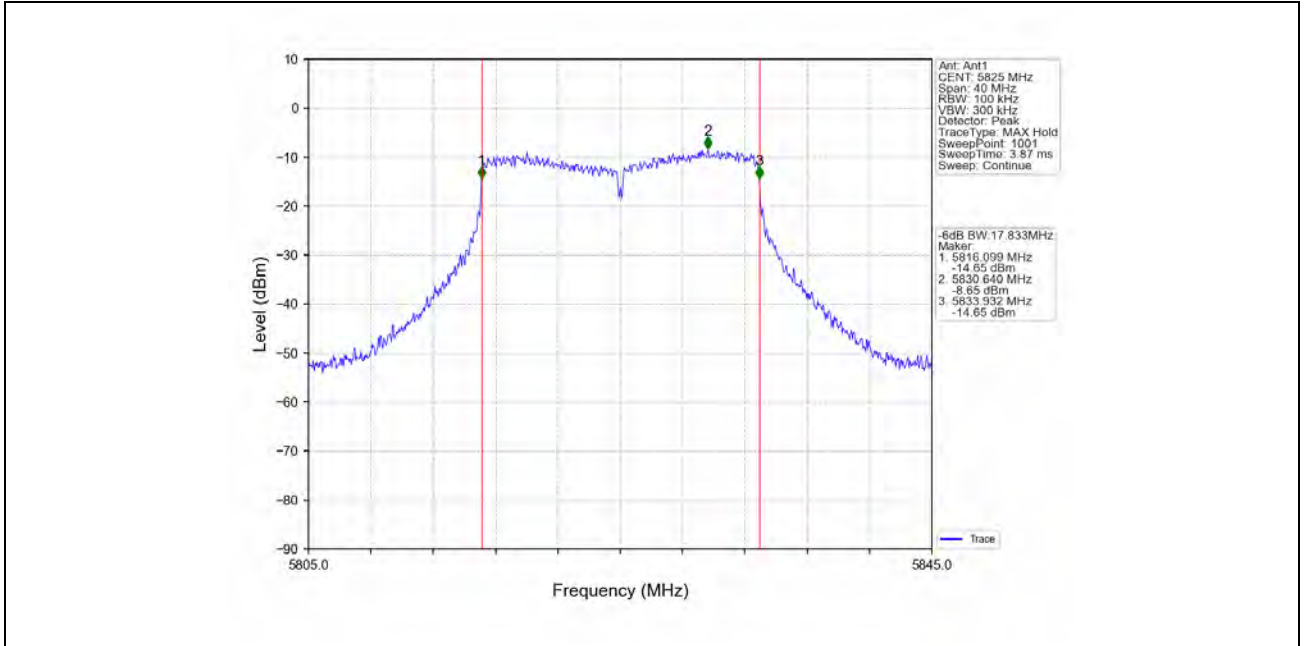


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

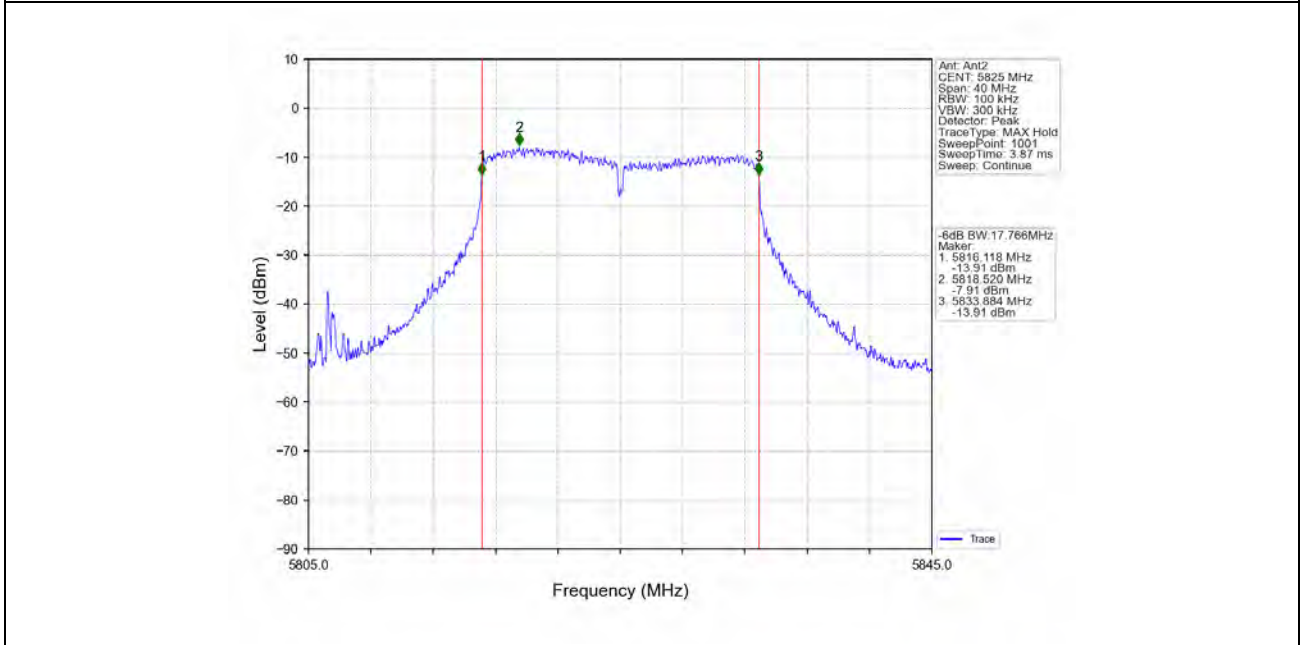


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802.11n(HT20)_HCH_5825MHz_Ant2_NTNV

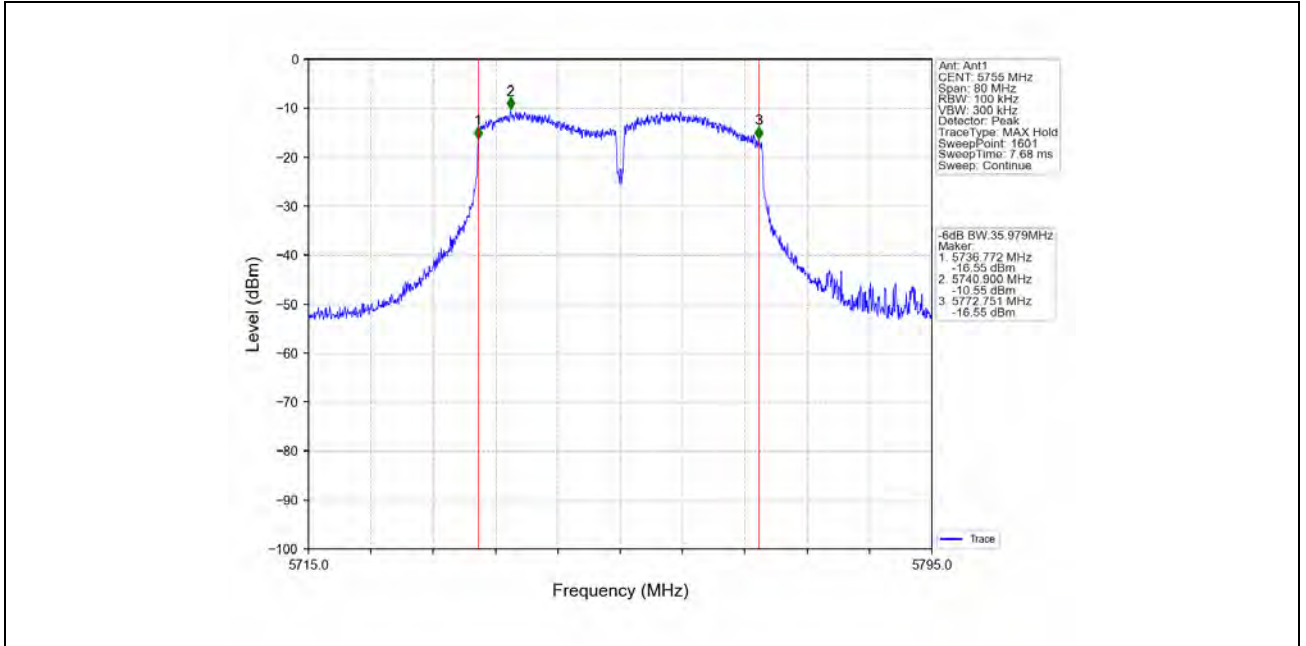


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

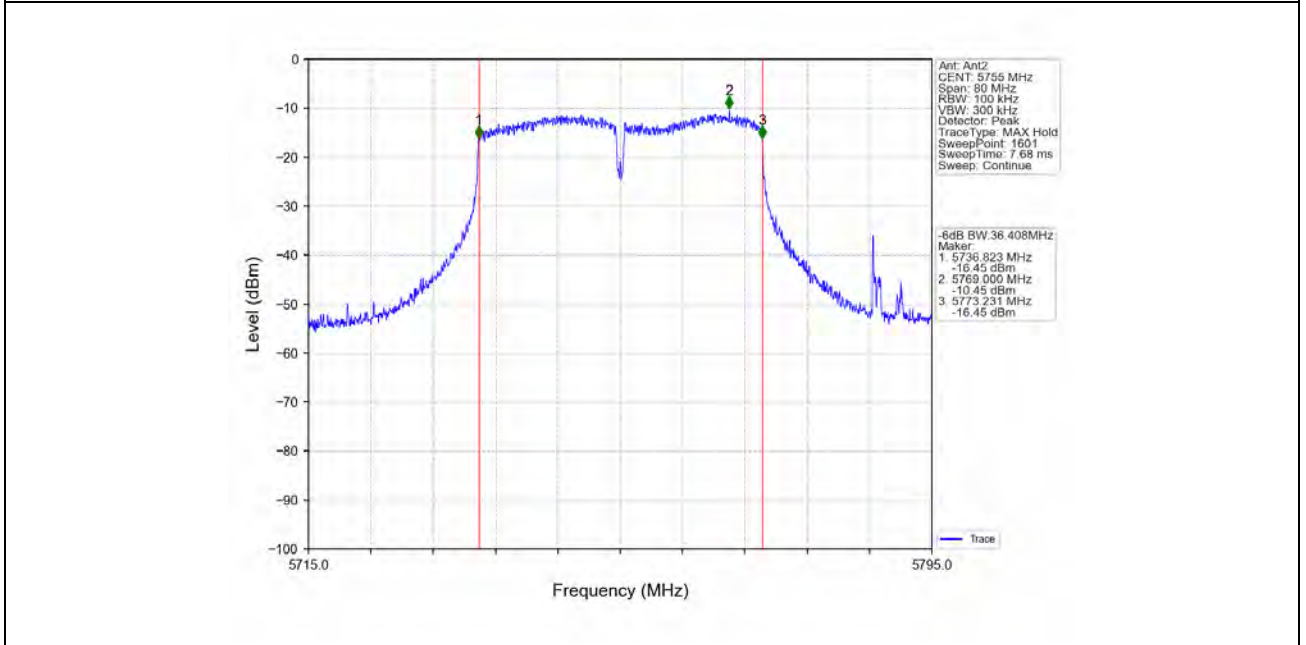


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802.11n(HT40)_LCH_5755MHz_Ant2_NTNV

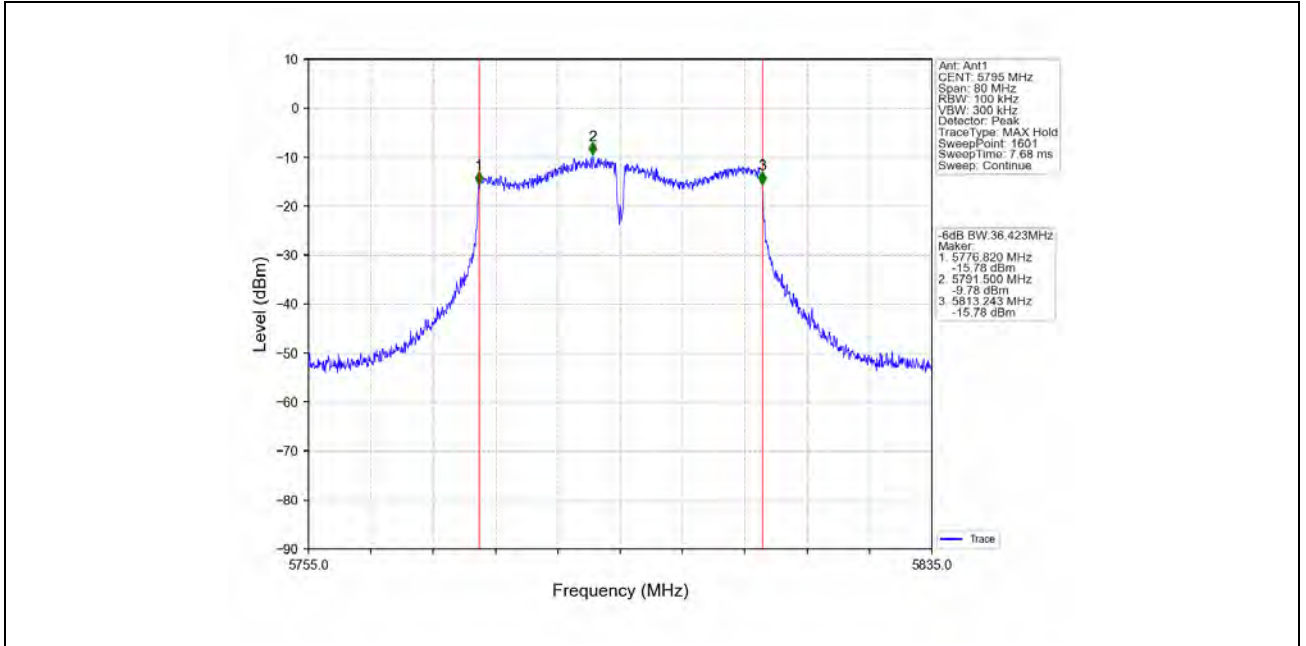


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

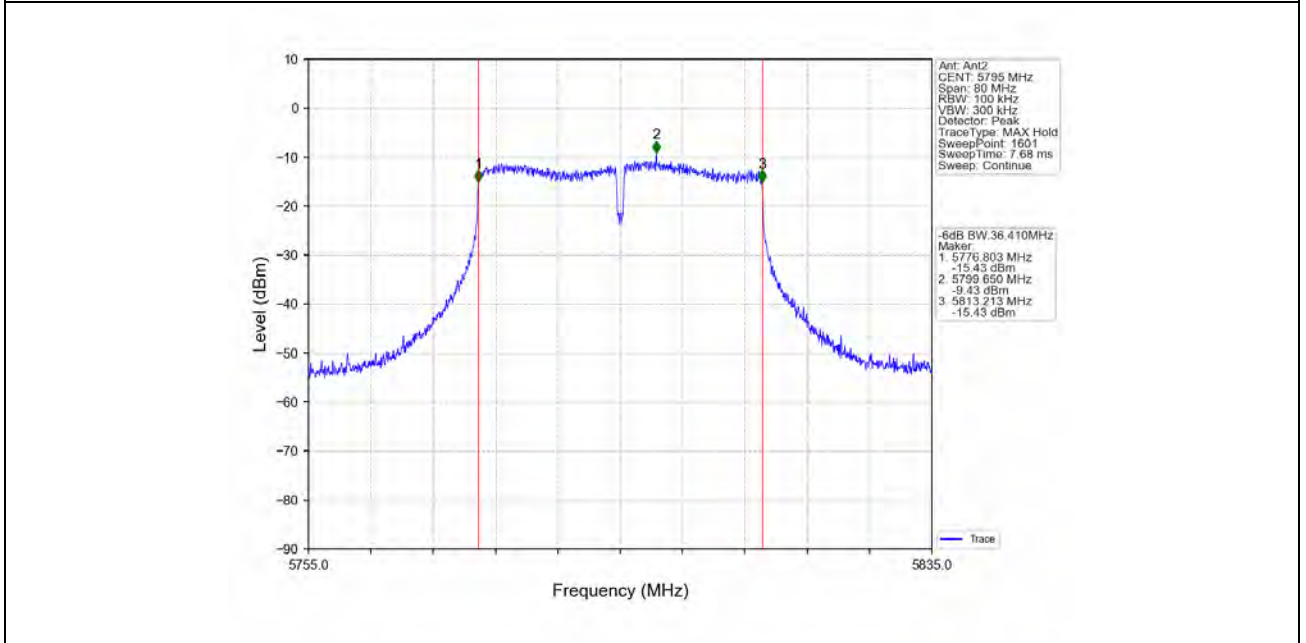


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802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



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2.3 26dB BW

2.3.1 Test Result

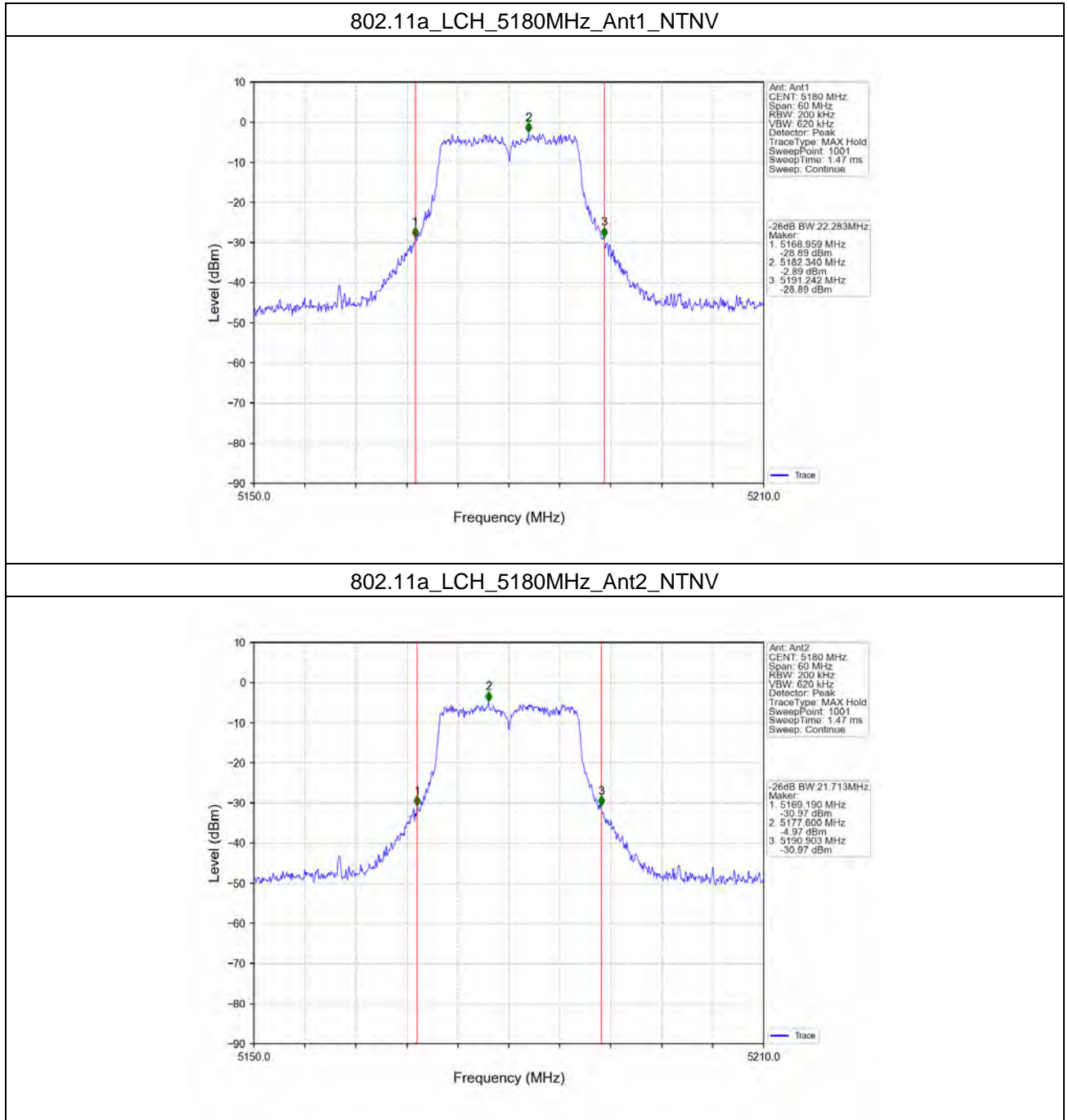
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict		
				Result			
802.11a	SISO	5180	1	22.283	Pass		
			2	21.713	Pass		
		5200	1	22.299	Pass		
			2	22.234	Pass		
		5240	1	21.245	Pass		
			2	21.573	Pass		
802.11n (HT20)	MIMO	5180	1	22.957	Pass		
			2	22.773	Pass		
		5200	1	22.357	Pass		
			2	22.834	Pass		
		5240	1	22.545	Pass		
			2	22.402	Pass		
		802.11n (HT40)	MIMO	5190	1	46.214	Pass
					2	43.614	Pass
5230	1			45.290	Pass		
	2			43.740	Pass		



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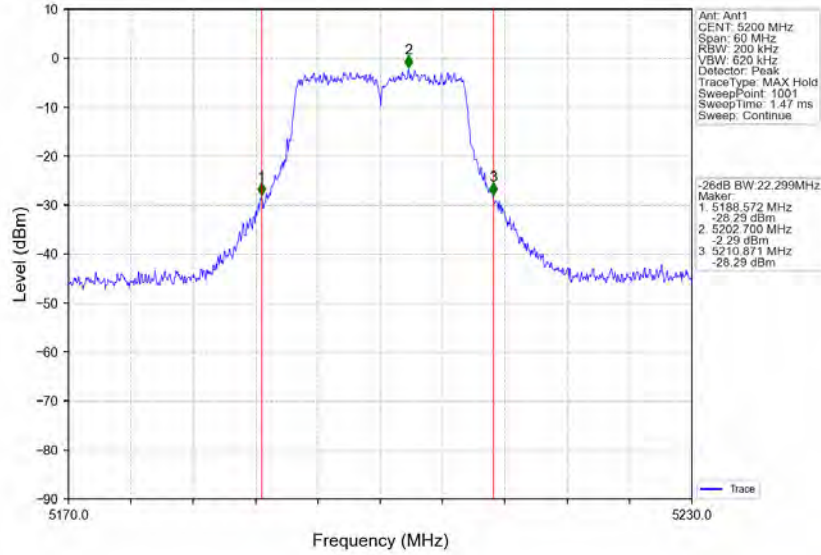
2.3.2 Test Graph



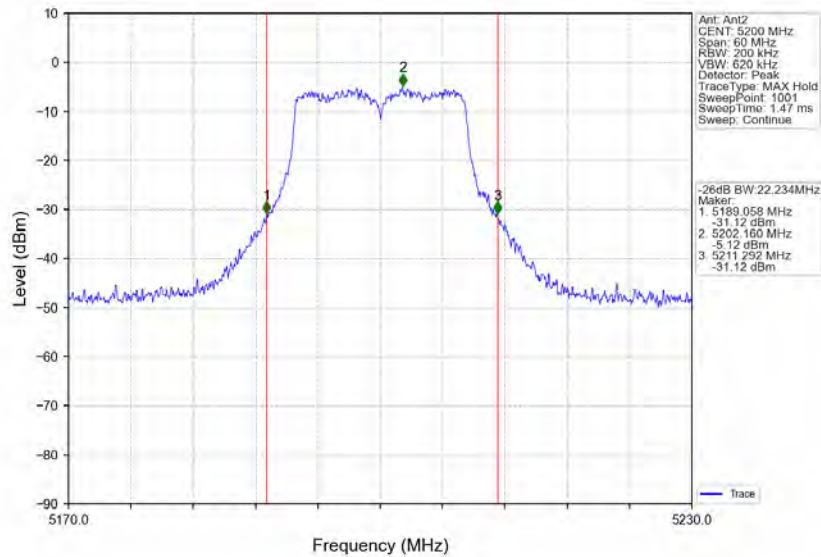
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802.11a_MCH_5200MHz_Ant1_NTNV



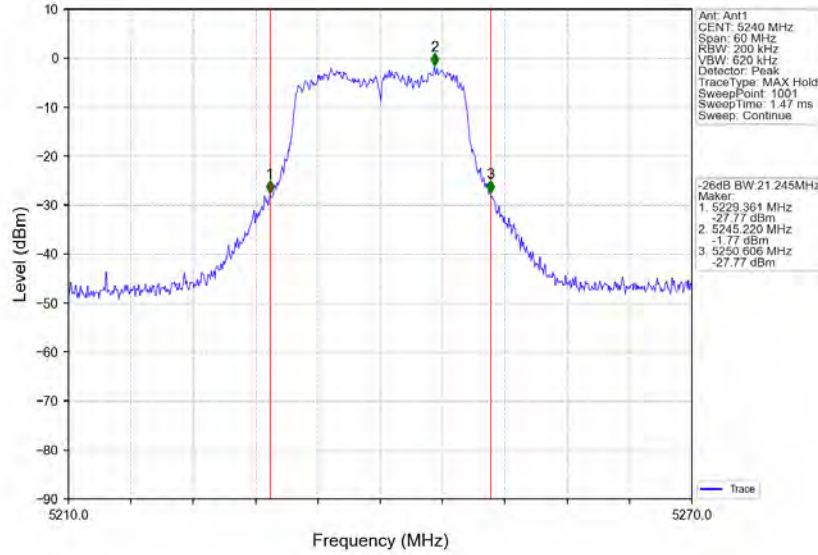
802.11a_MCH_5200MHz_Ant2_NTNV



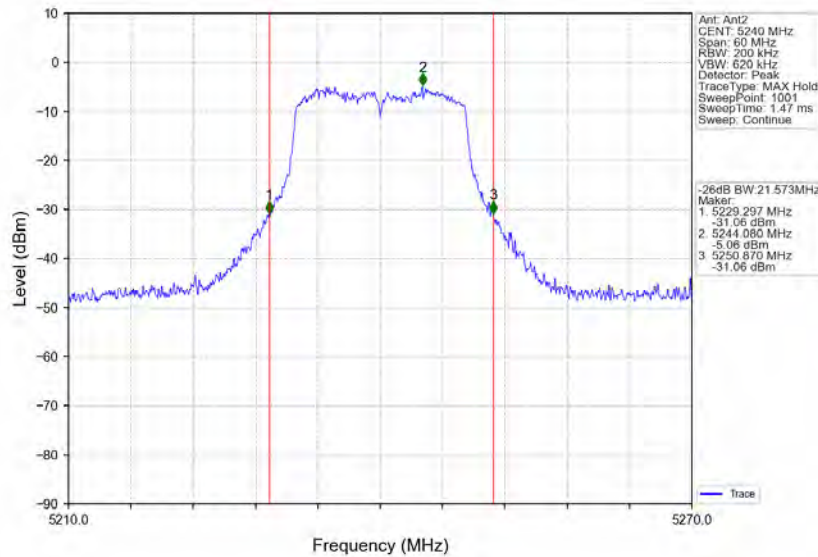
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802.11a_HCH_5240MHz_Ant1_NTNV



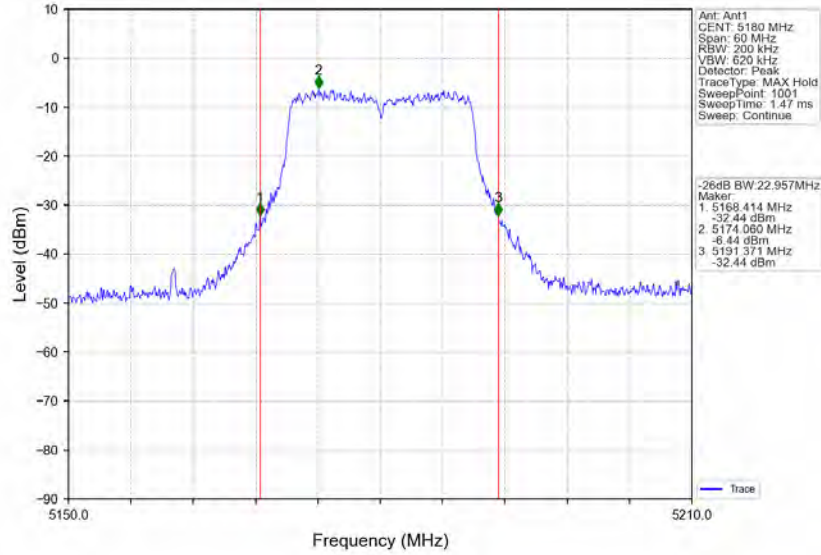
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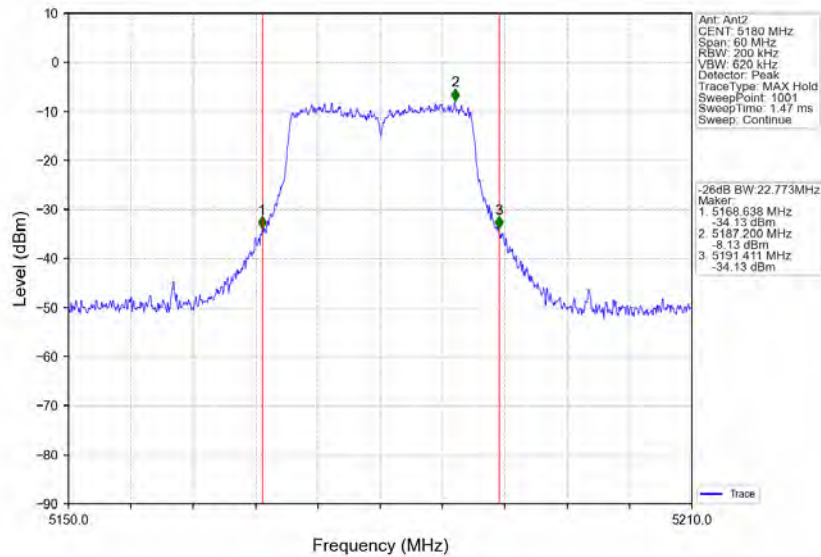
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



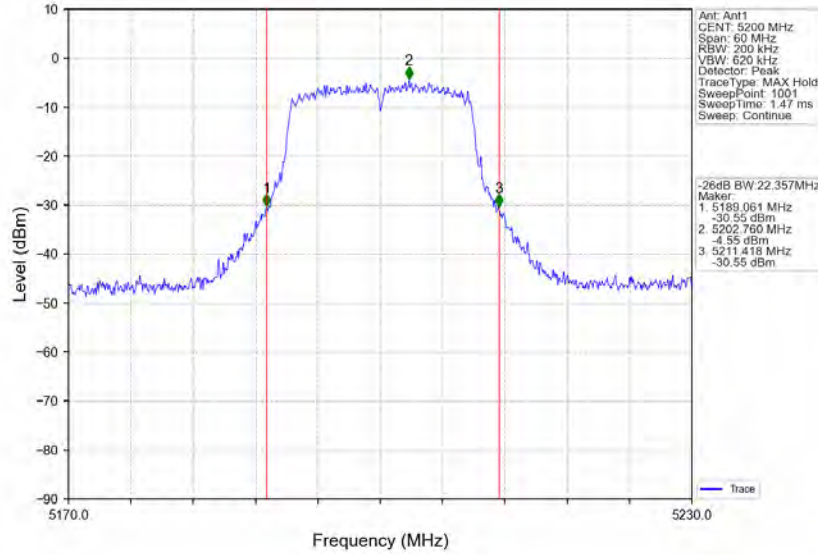
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



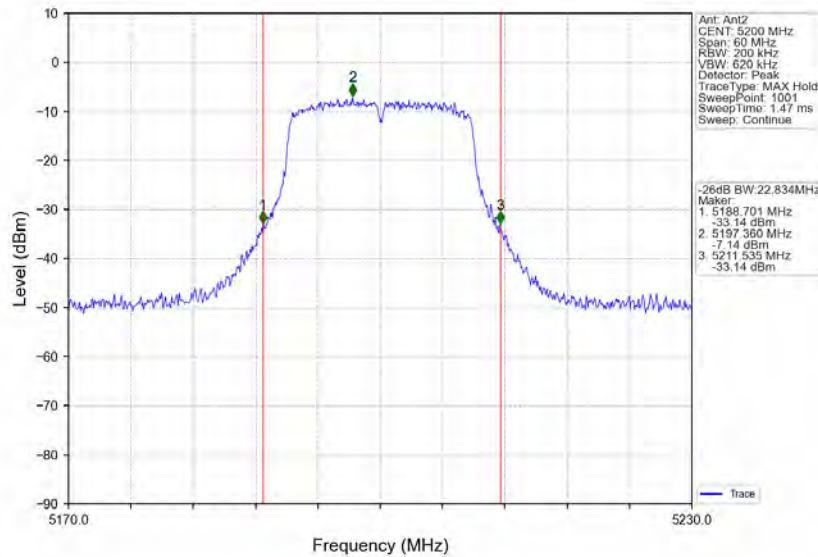
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



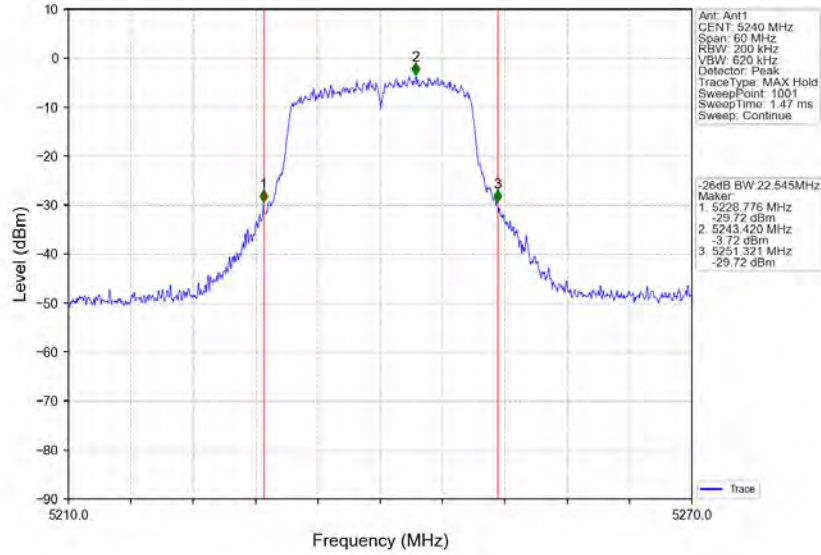
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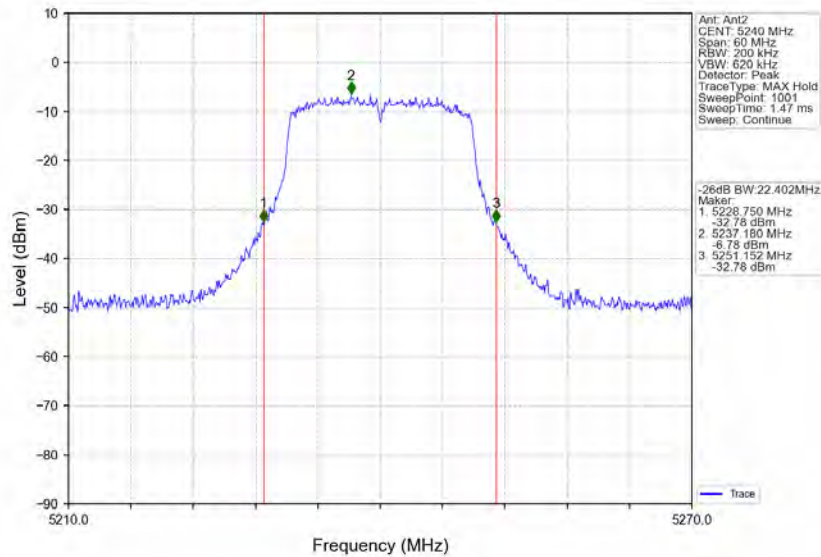
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



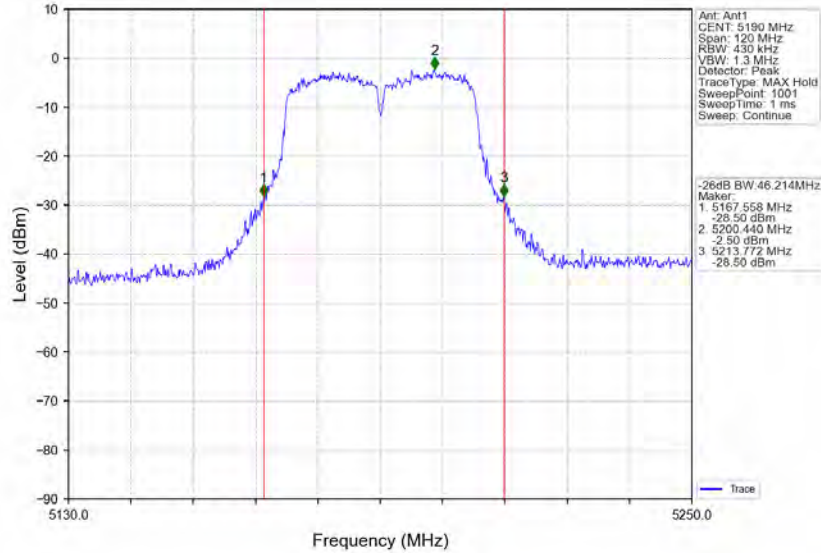
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



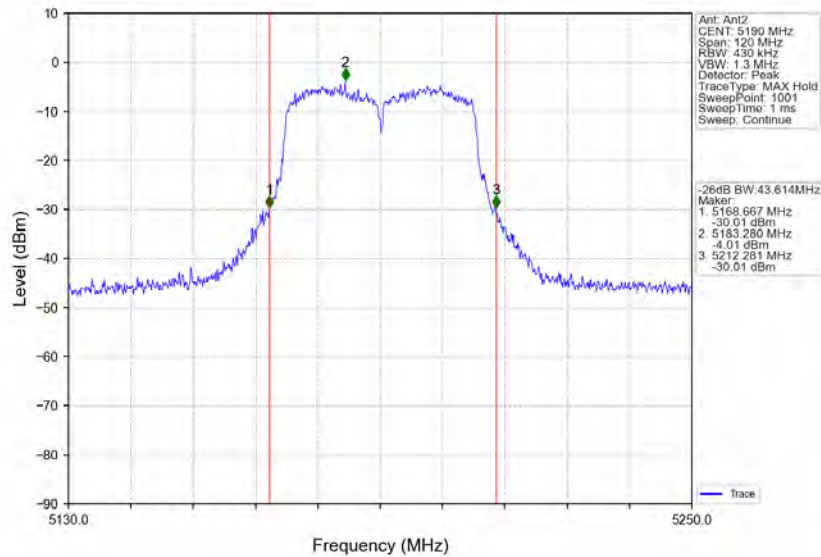
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



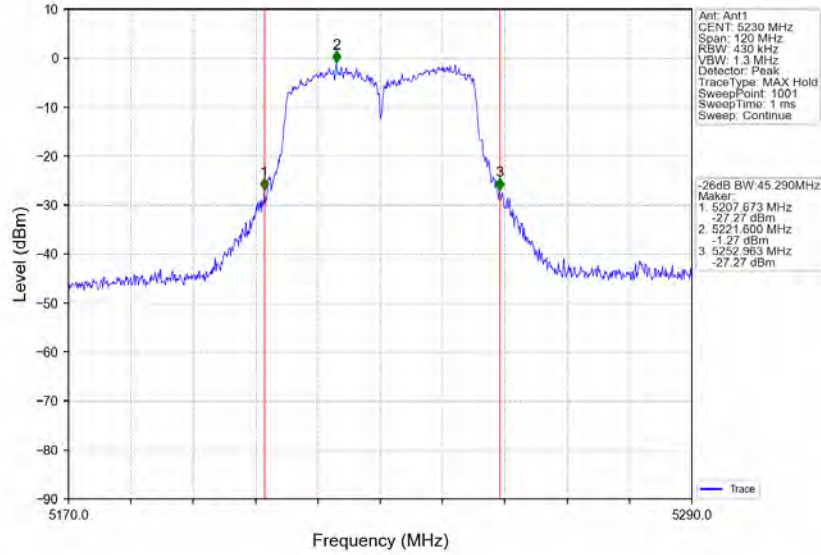
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



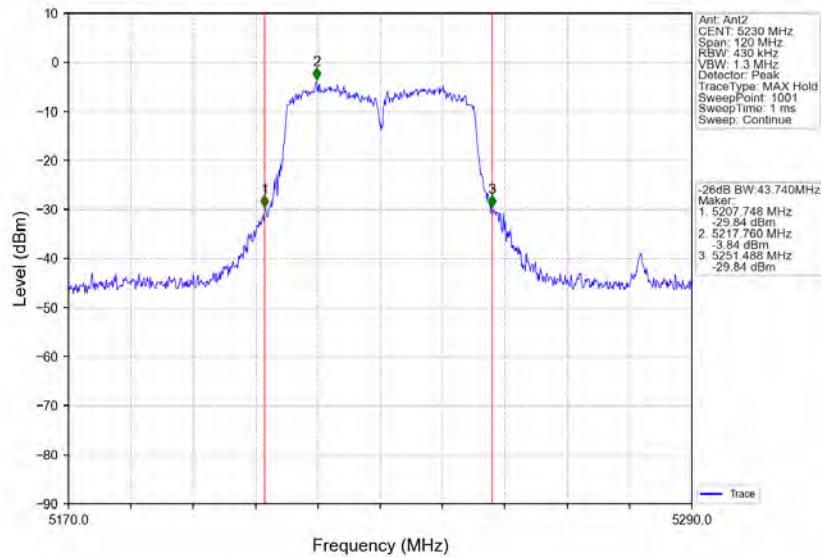
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_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	ANT2	MIMO	Limit	
802.11a	SISO	5180	5.46	5.28	/	<=15	Pass
		5200	5.74	5.01	/	<=15	Pass
		5240	5.63	4.87	/	<=15	Pass
		5745	5.15	5.73	/	<=21	Pass
		5785	5.94	6.34	/	<=21	Pass
		5825	5.99	6.15	/	<=21	Pass
802.11n (HT20)	MIMO	5180	-1.77	-3.43	0.49	<=11.99	Pass
		5200	-0.61	-2.70	1.48	<=11.99	Pass
		5240	0.00	-2.28	2.02	<=11.99	Pass
		5745	3.72	4.43	7.10	<=17.99	Pass
		5785	5.01	5.39	8.21	<=17.99	Pass
		5825	4.91	5.22	8.08	<=17.99	Pass
802.11n (HT40)	MIMO	5190	-0.25	-2.53	1.77	<=11.99	Pass
		5230	0.13	-2.34	2.08	<=11.99	Pass
		5755	5.23	5.36	8.31	<=17.99	Pass
		5795	5.18	5.84	8.53	<=17.99	Pass

Note1: Antenna Gain: Ant1: 15.00dBi; Ant2: 15.00dBi;
 Note2: Directional Gain: 18.01dBi



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Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR230500076201

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Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			EIRP (dBm)				Verdict
			ANT1	ANT2	MIMO	ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	5.46	5.28	/	20.46	20.28	/	<=21	Pass
		5200	5.74	5.01	/	20.74	20.01	/	<=21	Pass
		5240	5.63	4.87	/	20.63	19.87	/	<=21	Pass
802.11n (HT20)	MIMO	5180	-1.77	-3.43	0.49	/	/	18.50	<=21	Pass
		5200	-0.61	-2.70	1.48	/	/	19.49	<=21	Pass
		5240	0.00	-2.28	2.02	/	/	20.03	<=21	Pass
802.11n (HT40)	MIMO	5190	-0.25	-2.53	1.77	/	/	19.78	<=21	Pass
		5230	0.13	-2.34	2.08	/	/	20.09	<=21	Pass

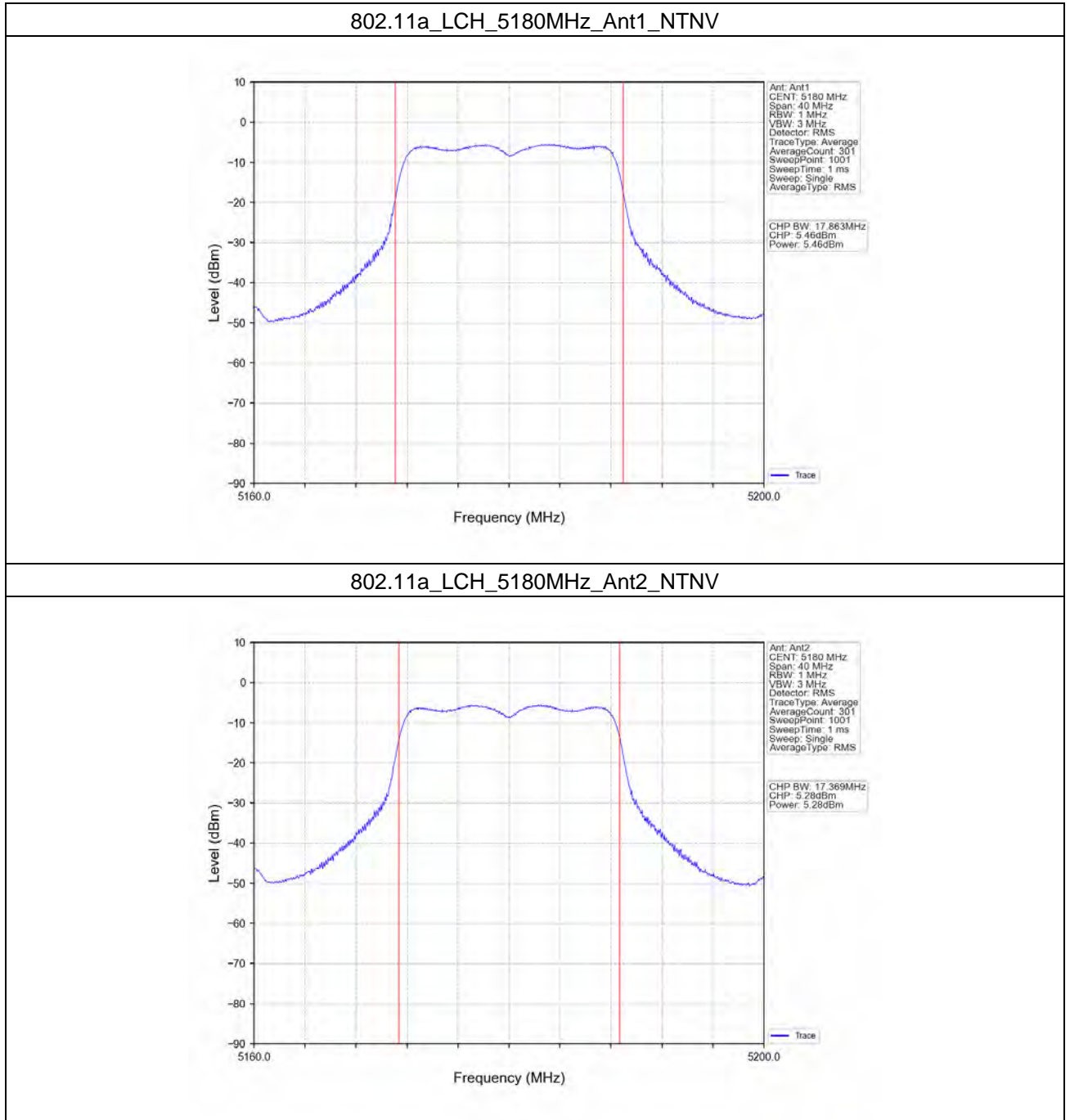
Note1: Antenna Gain: Ant1: 15.00dBi; Ant2: 15.00dBi;
 Note2: Directional Gain: 18.01dBi



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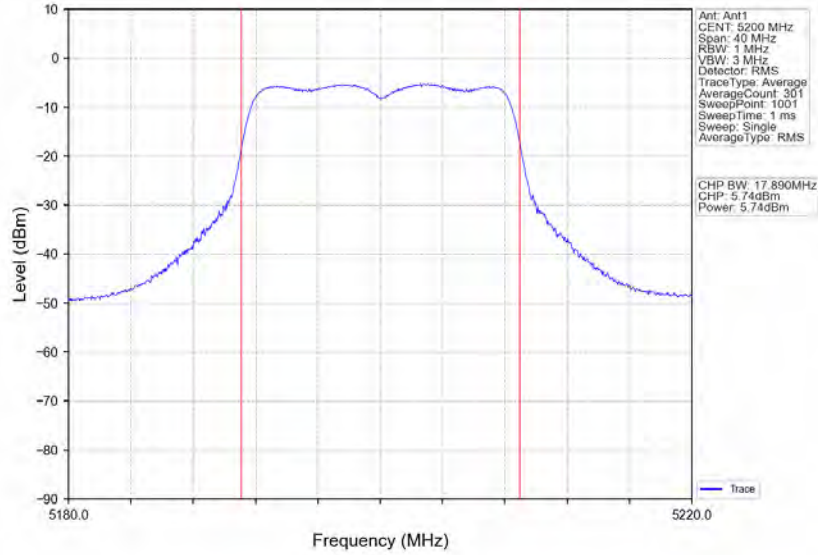
3.1.2 Test Graph



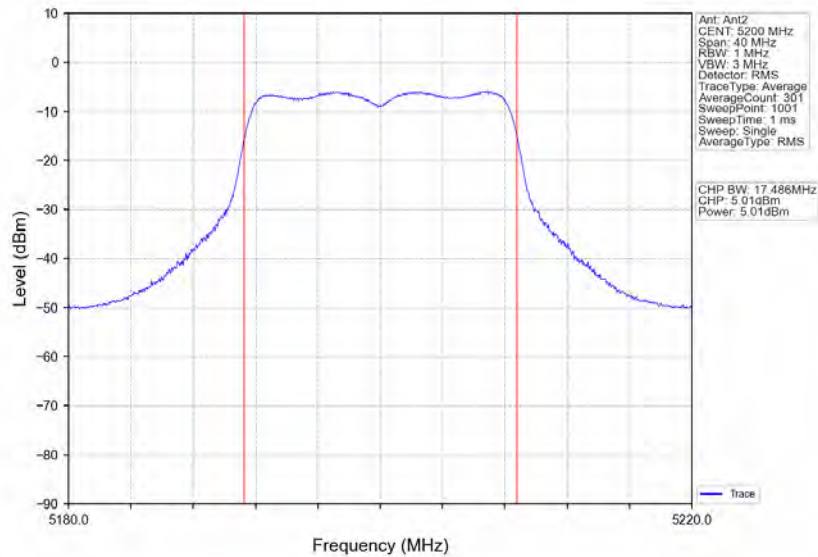
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802.11a_MCH_5200MHz_Ant1_NTNV



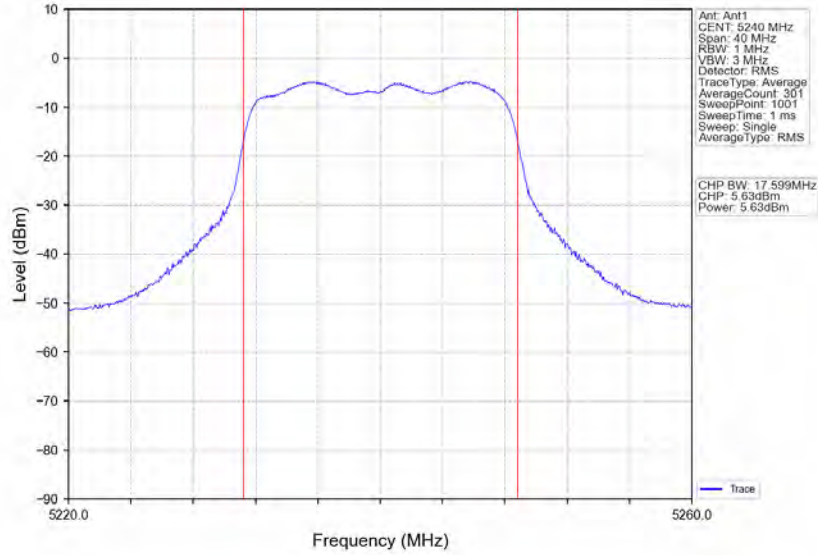
802.11a_MCH_5200MHz_Ant2_NTNV



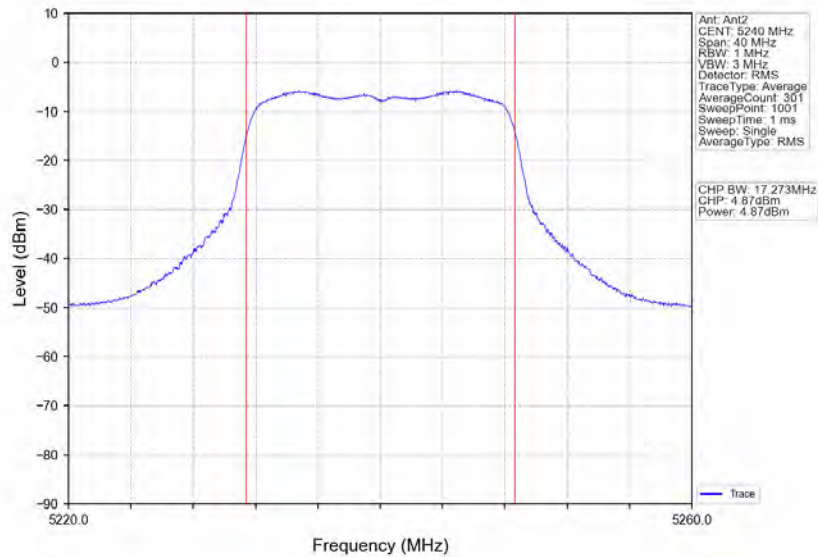
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802.11a_HCH_5240MHz_Ant1_NTNV



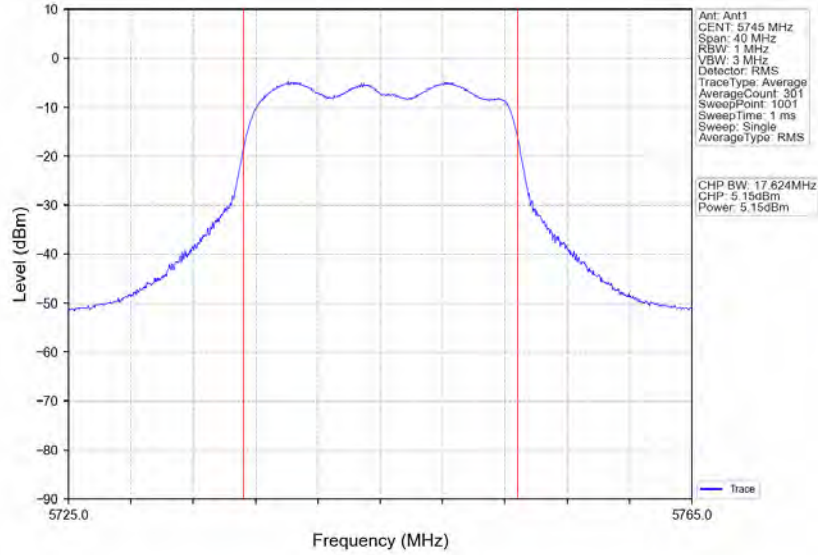
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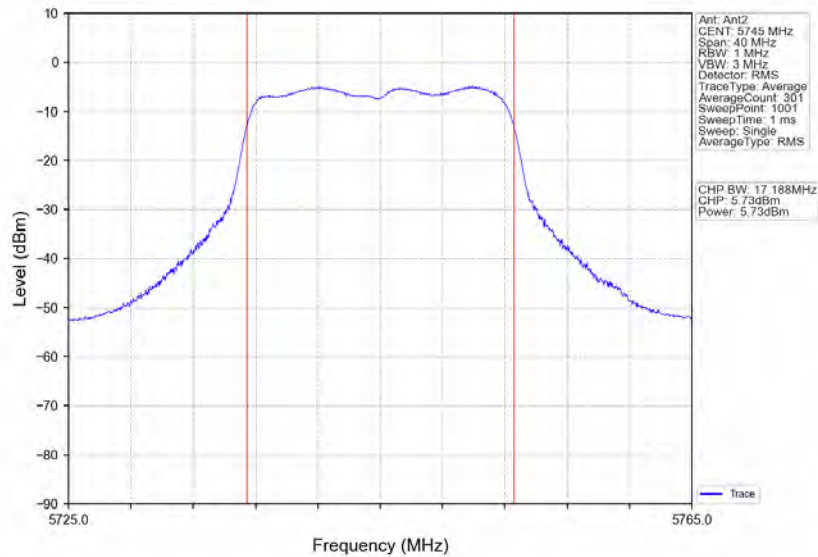
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802.11a_LCH_5745MHz_Ant1_NTNV



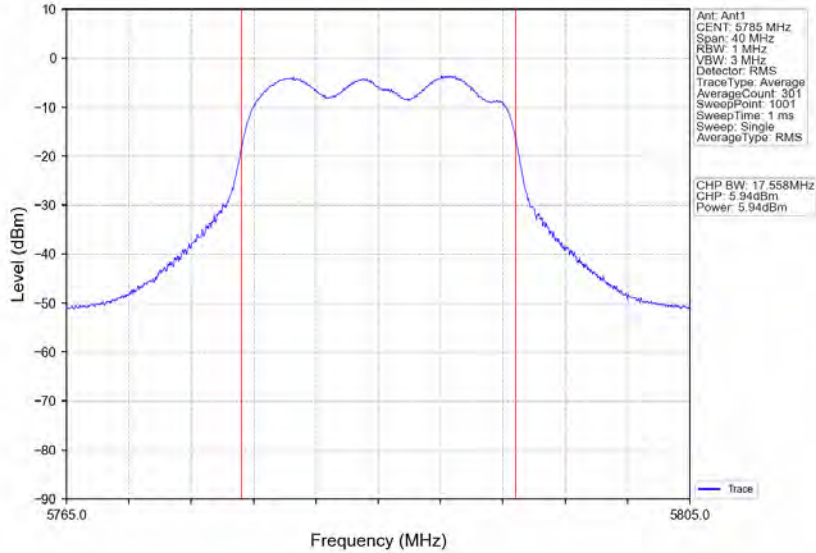
802.11a_LCH_5745MHz_Ant2_NTNV



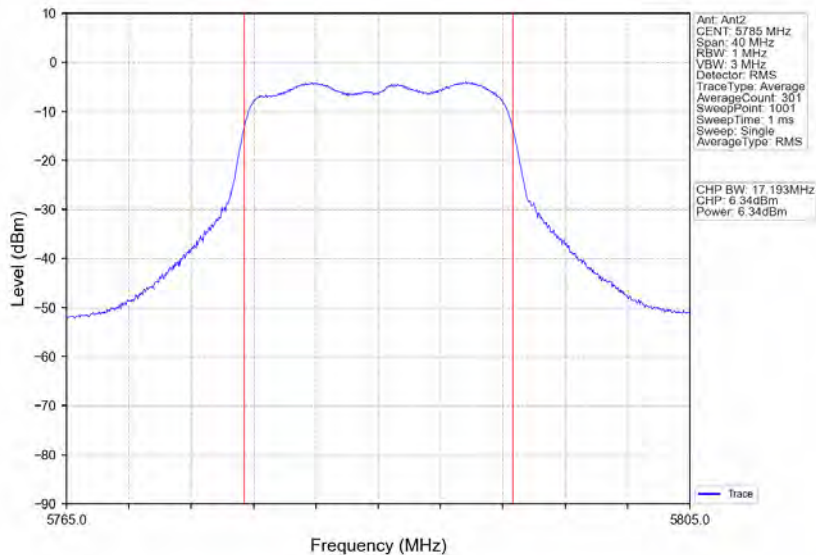
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802.11a_MCH_5785MHz_Ant1_NTNV



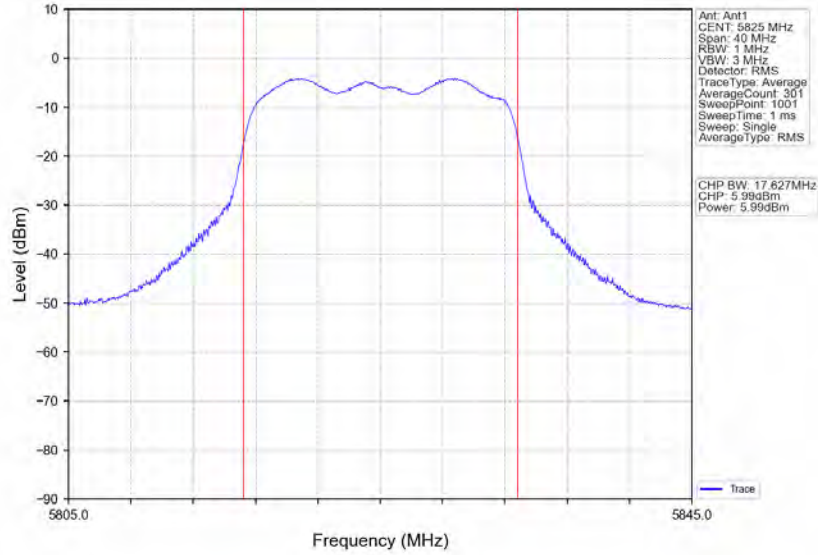
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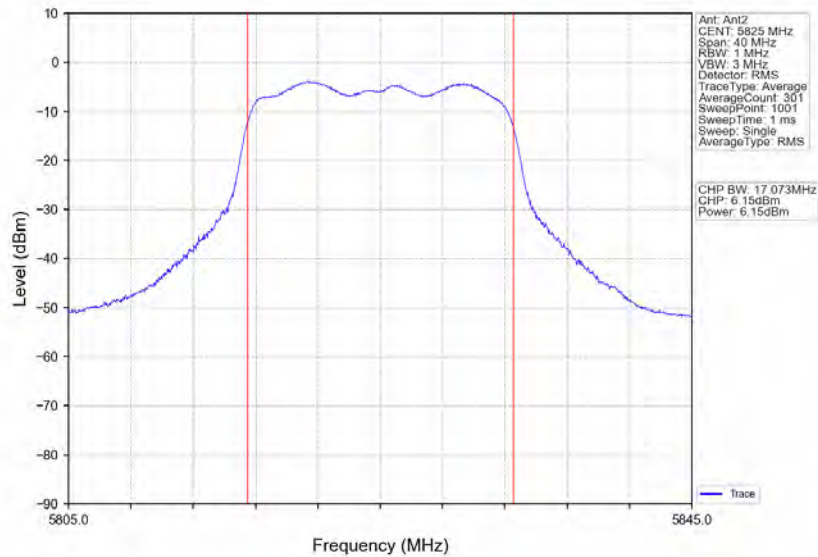
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802.11a_HCH_5825MHz_Ant1_NTNV



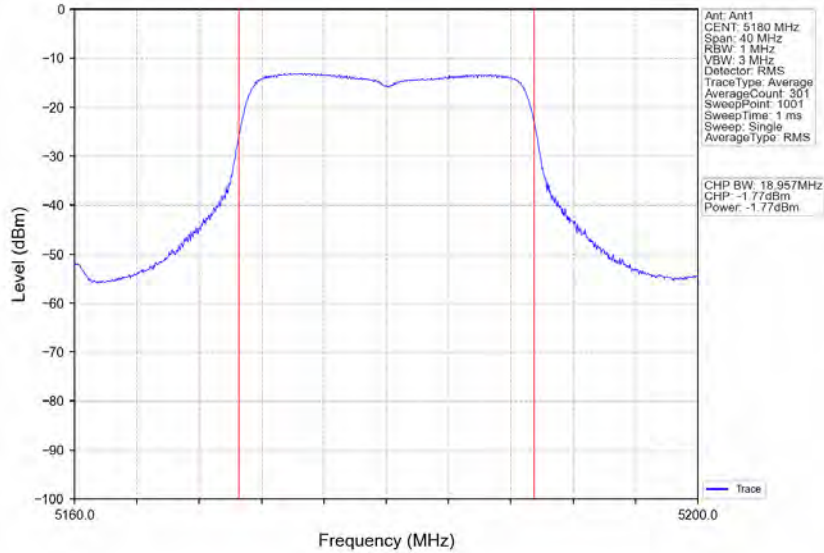
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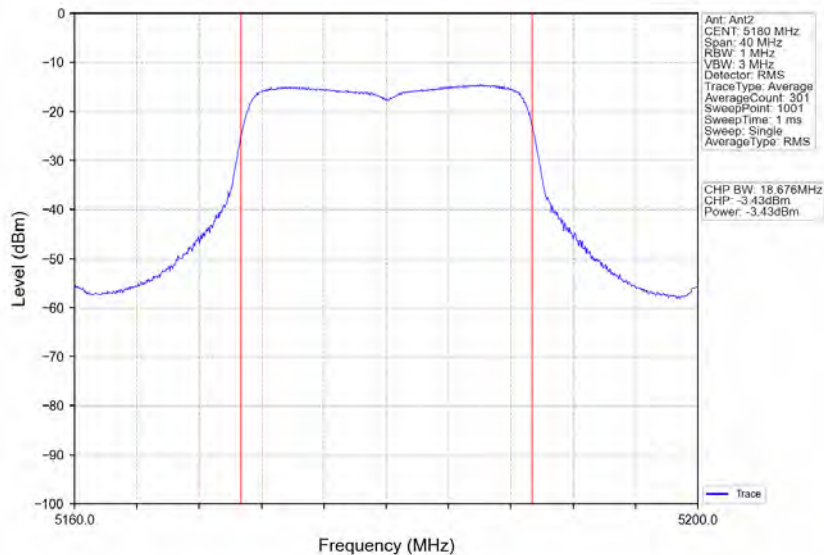
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



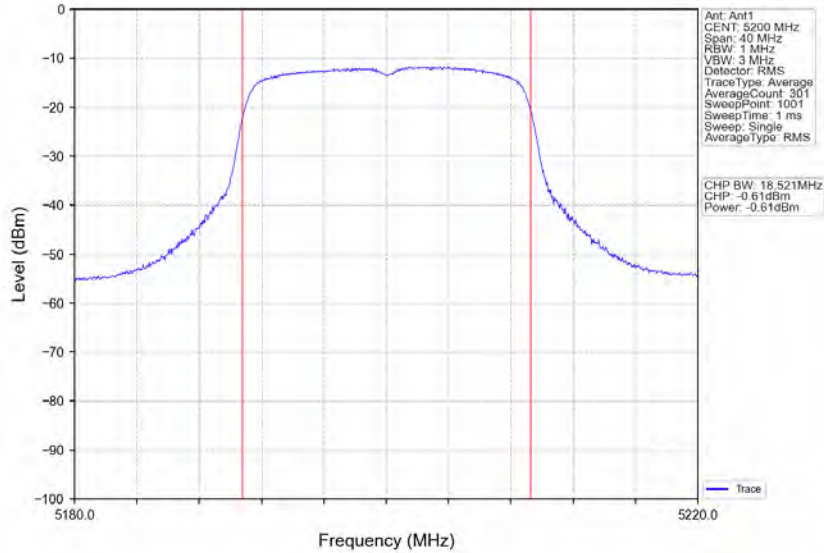
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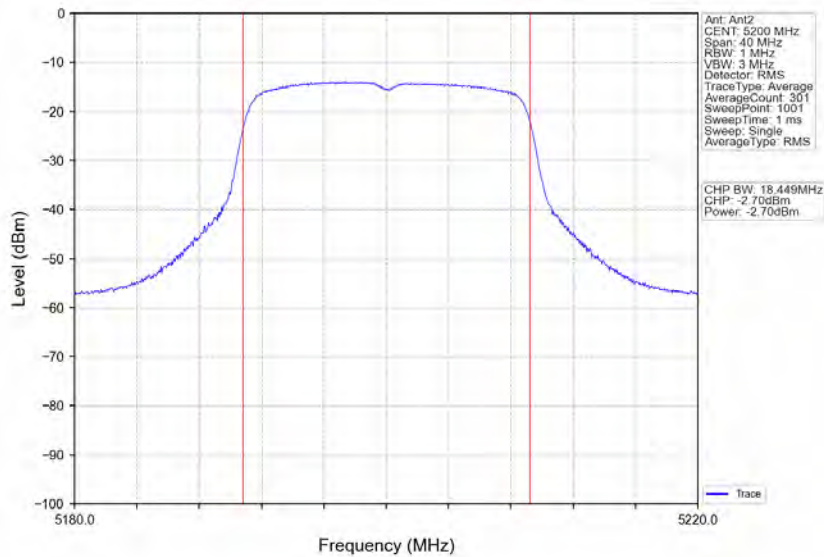
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



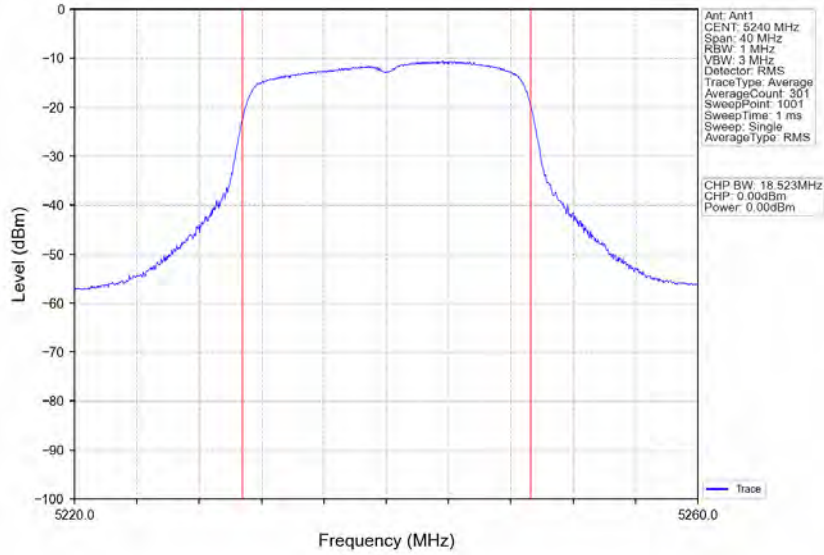
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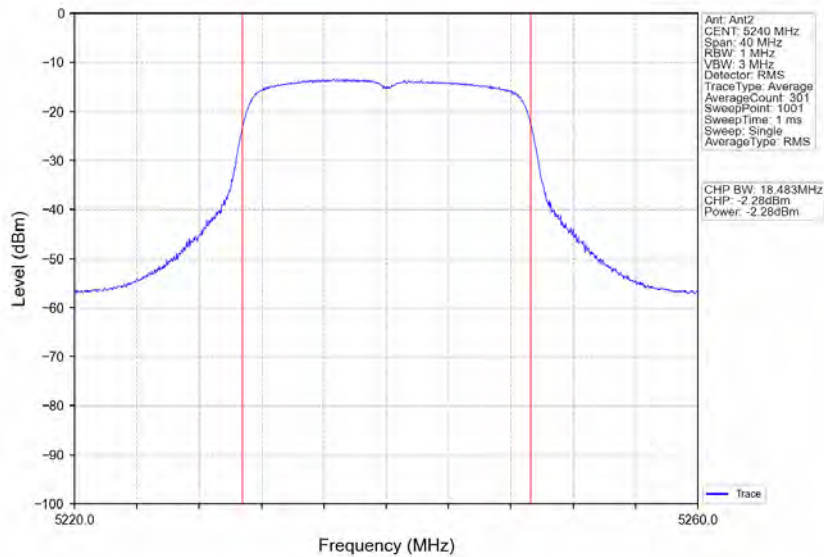
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



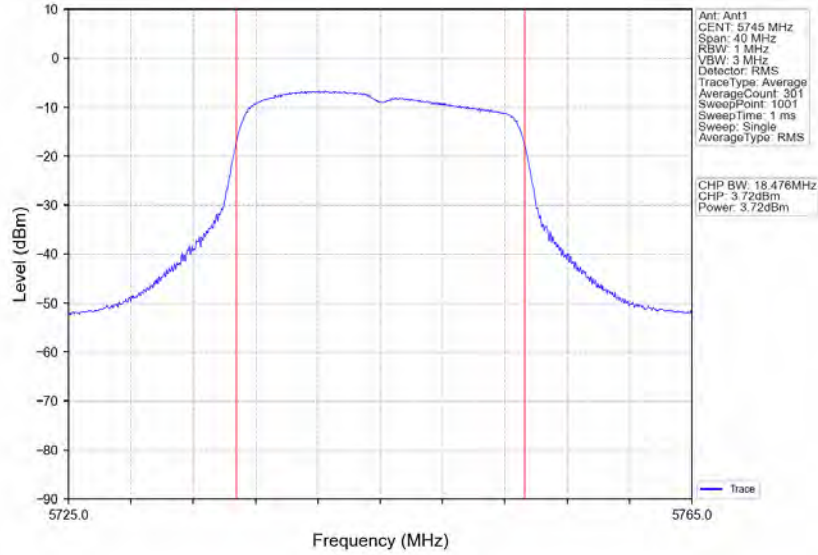
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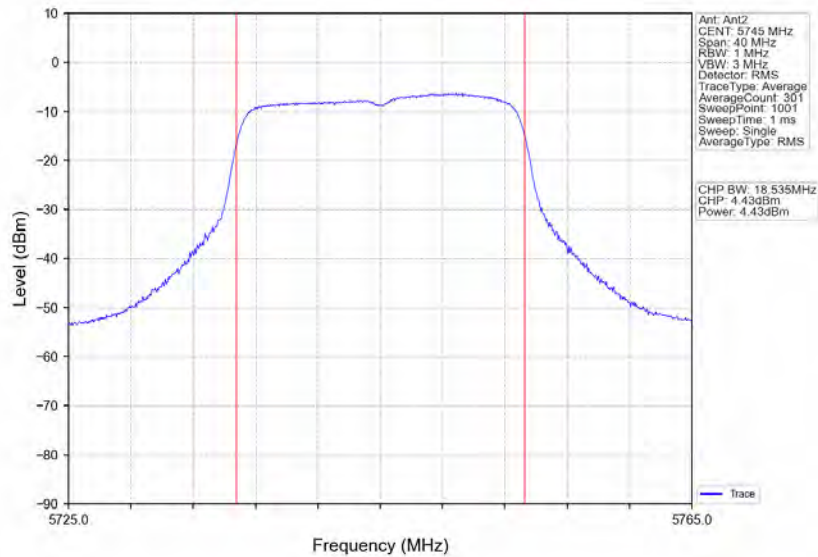
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



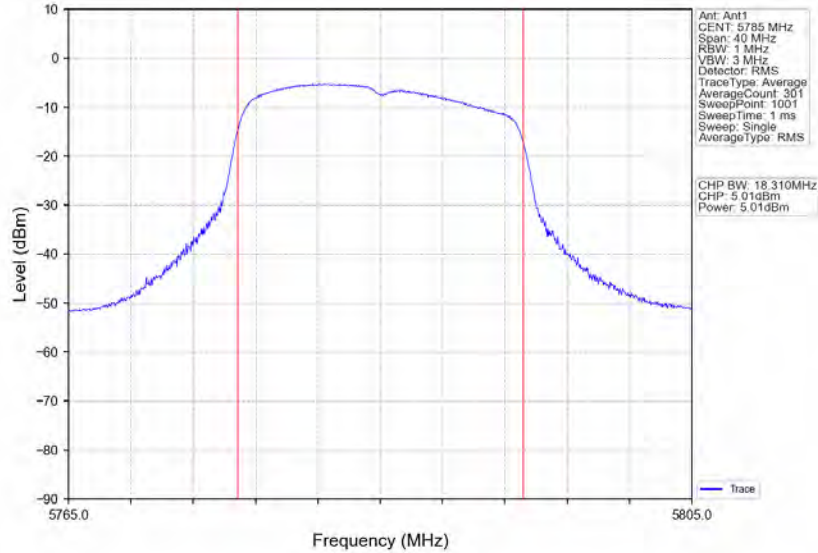
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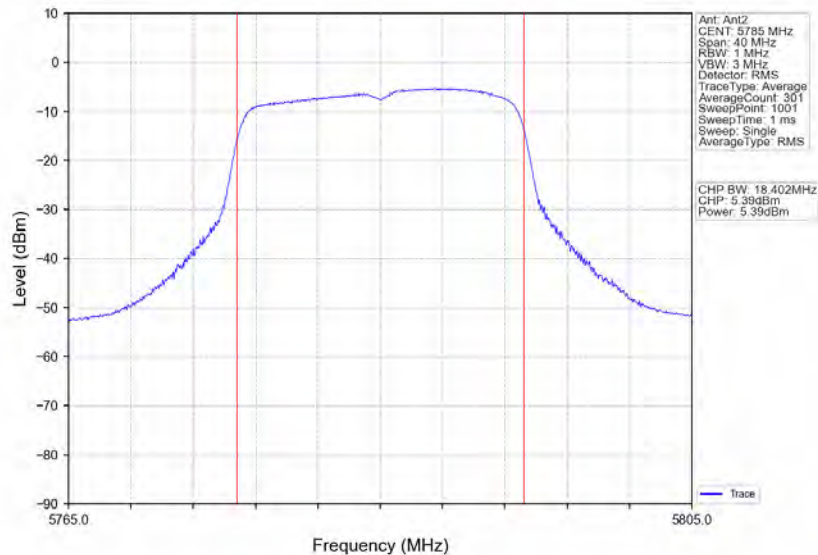
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



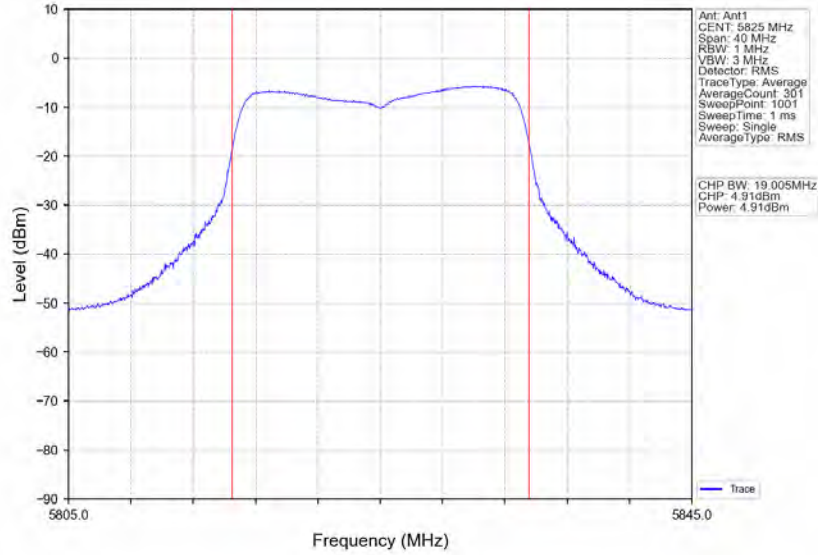
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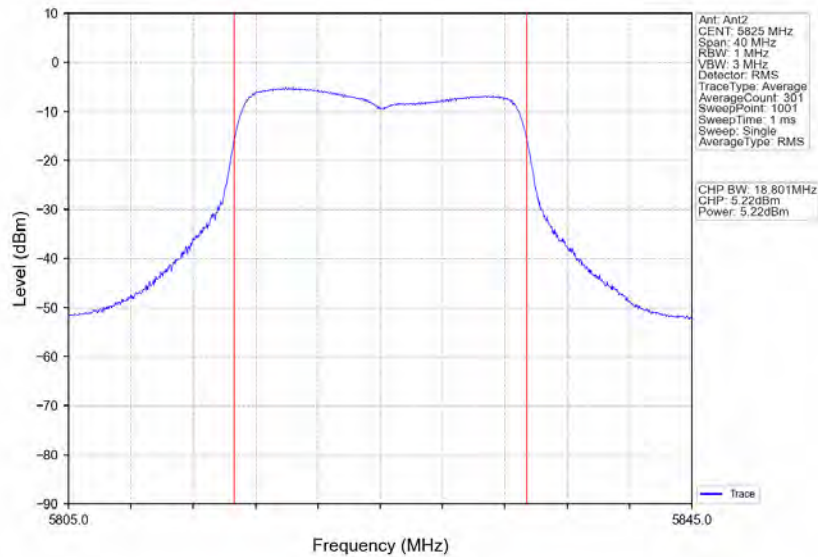
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



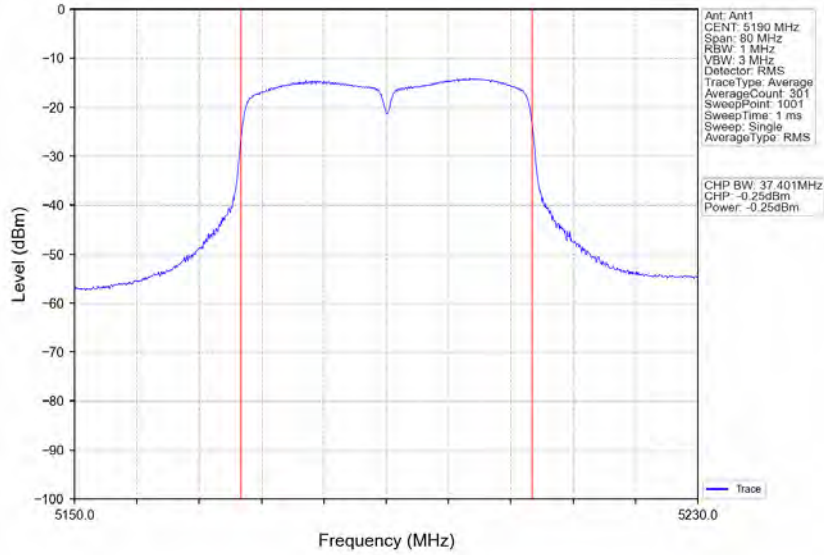
802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



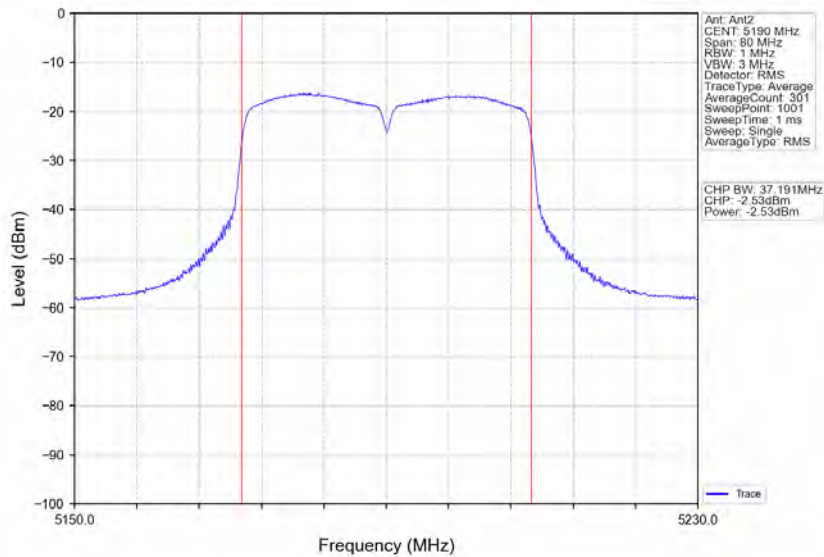
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



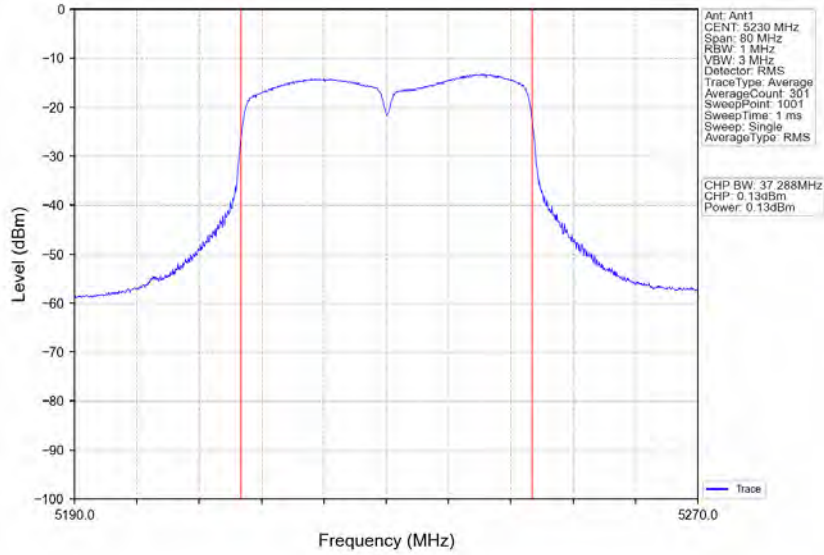
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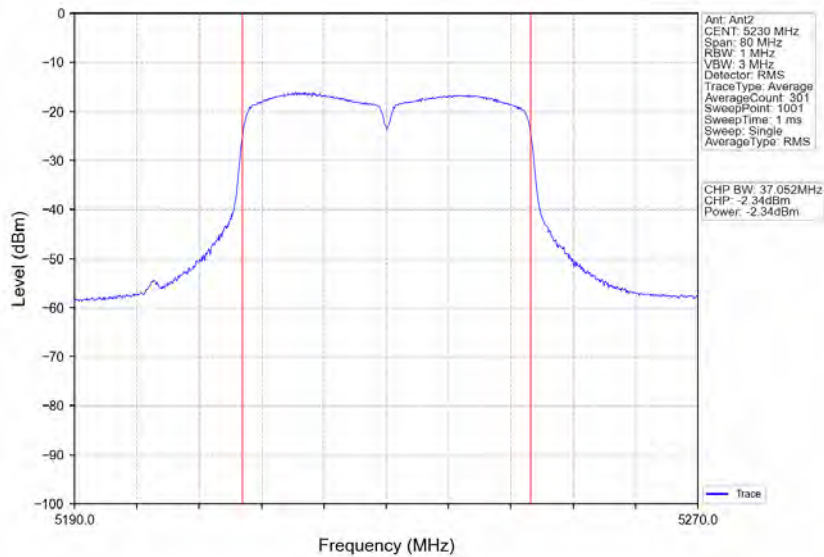
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



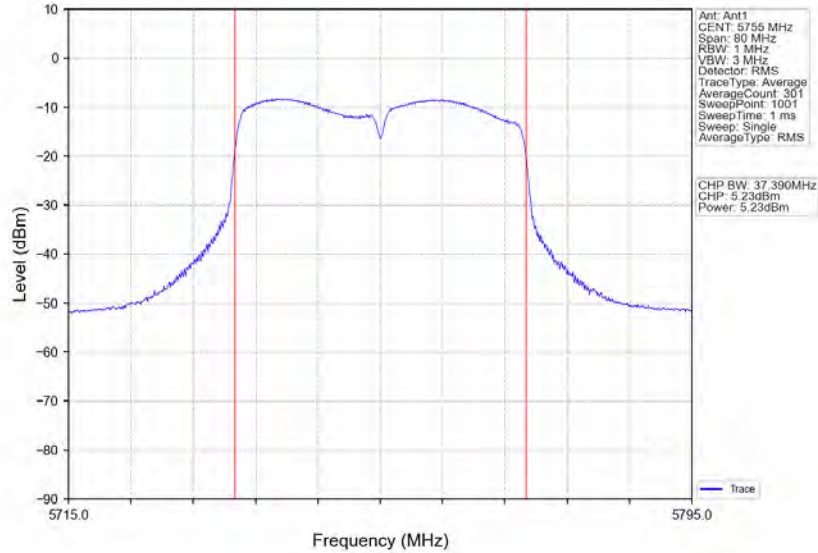
802.11n(HT40)_HCH_5230MHz_Ant2_NTNV



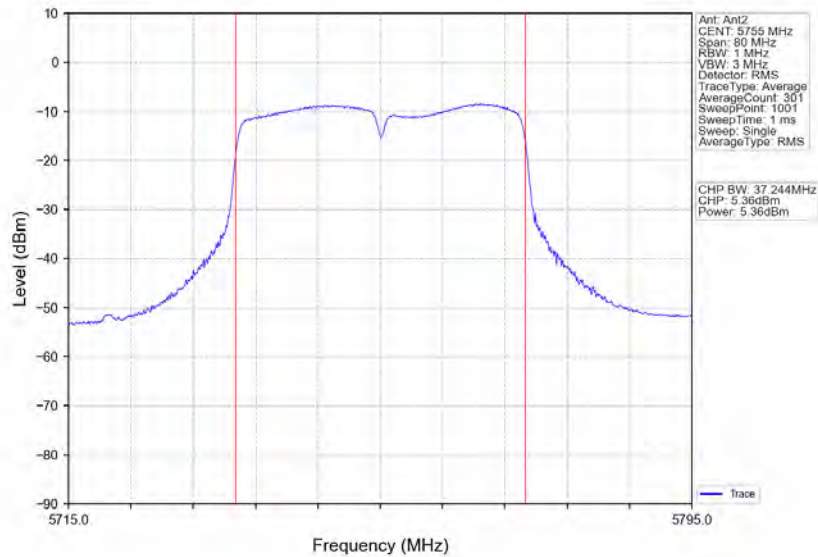
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



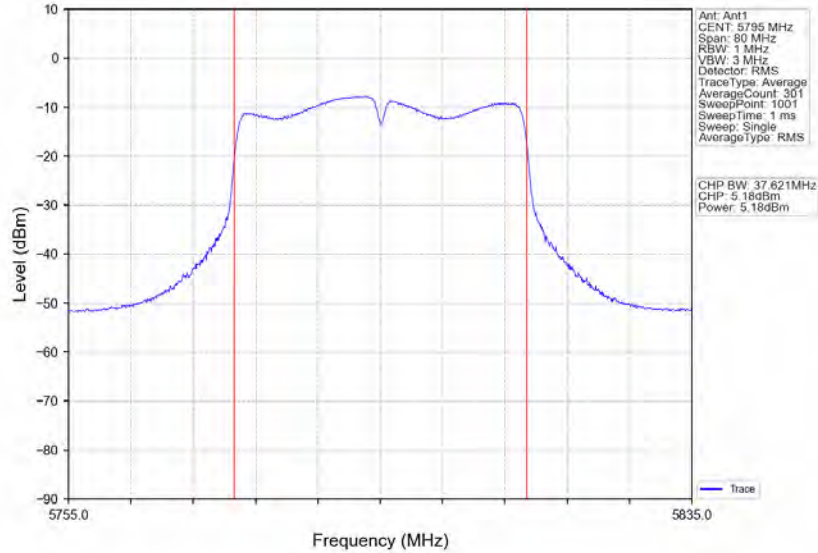
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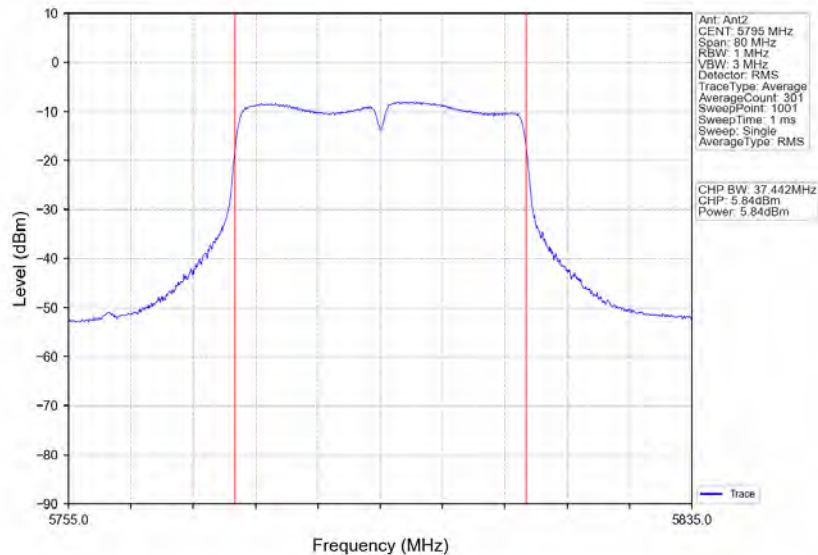
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant2_NTNV



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4. Maximum Power Spectral Density

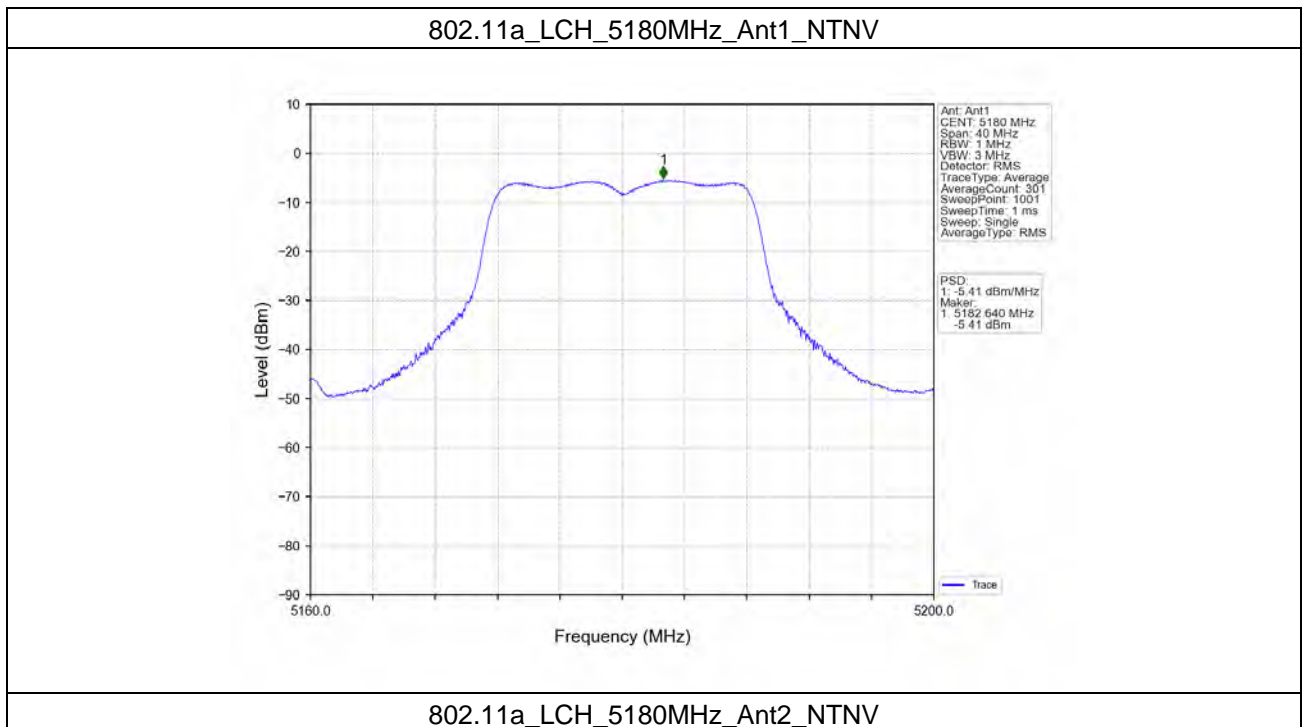
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	-5.41	-5.53	/	<=2	Pass
		5200	-5.20	-5.95	/	<=2	Pass
		5240	-4.78	-5.84	/	<=2	Pass
802.11n (HT20)	MIMO	5180	-12.92	-14.35	-10.89	<=-1.01	Pass
		5200	-11.71	-13.74	-9.85	<=-1.01	Pass
		5240	-10.65	-13.43	-9.01	<=-1.01	Pass
802.11n (HT40)	MIMO	5190	-13.99	-16.23	-12.19	<=-1.01	Pass
		5230	-13.20	-16.12	-11.70	<=-1.01	Pass

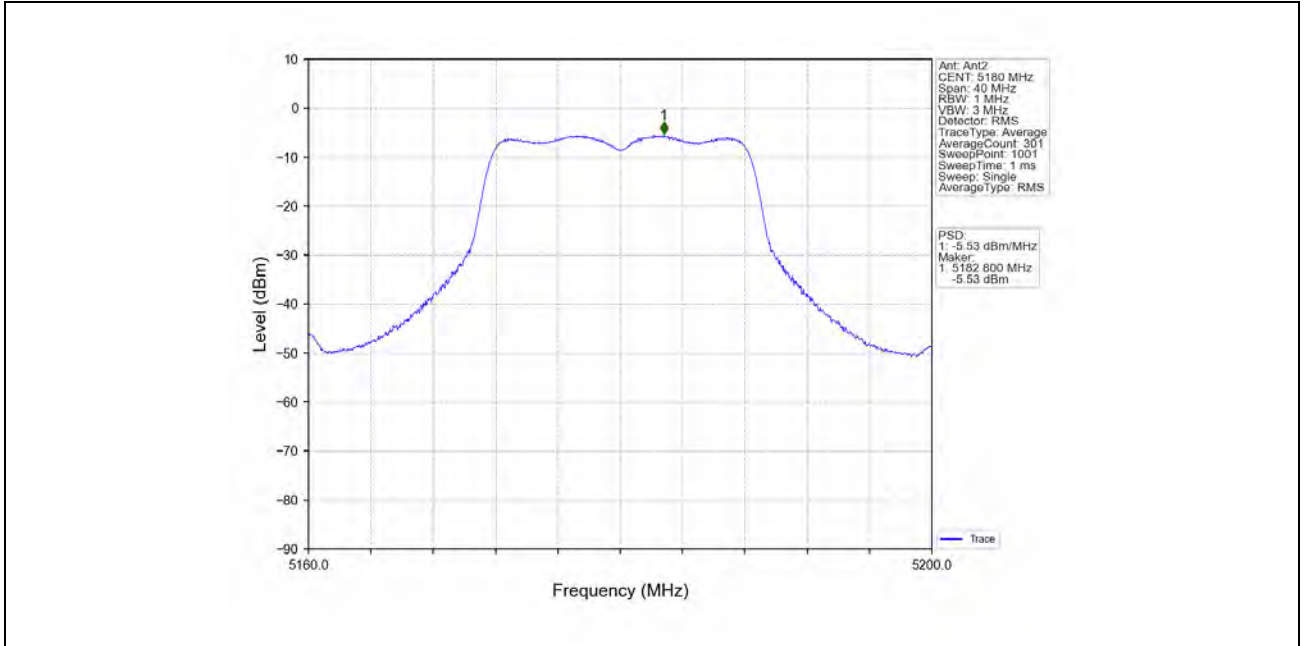
Note1: Antenna Gain: Ant1: 15.00dBi; Ant2: 15.00dBi;
 Note2: Directional Gain:18.01dBi

4.1.2 Test Graph

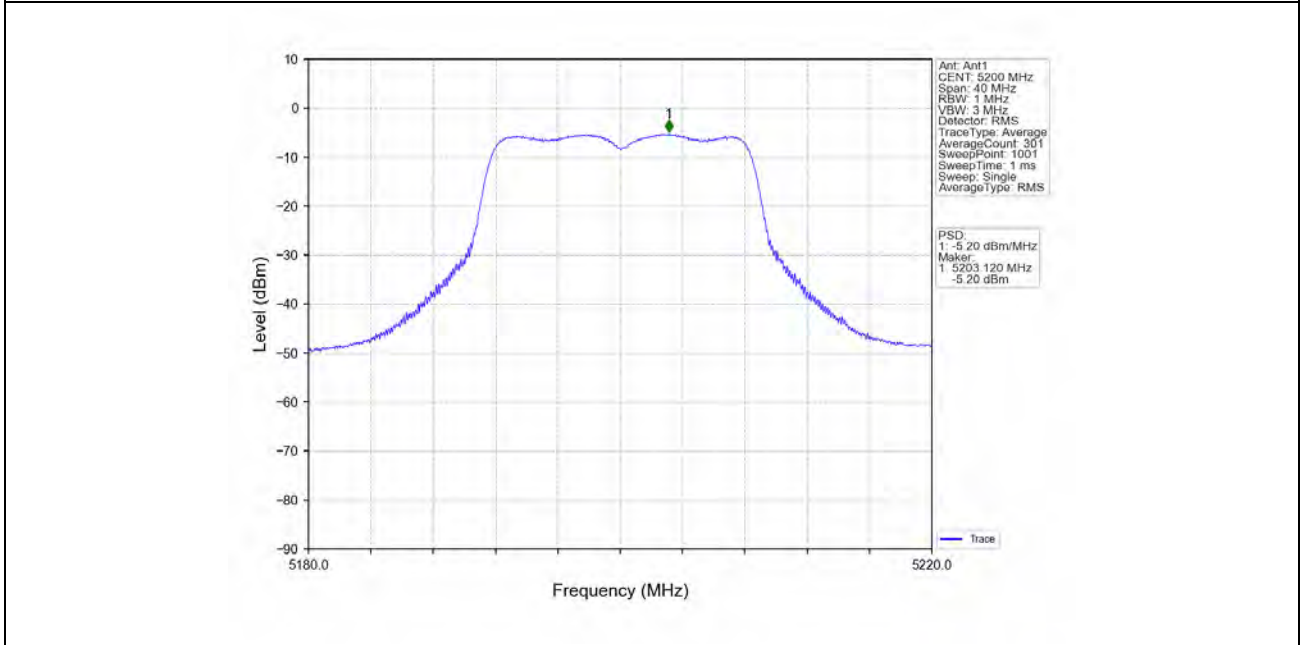


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802.11a_MCH_5200MHz_Ant1_NTNV

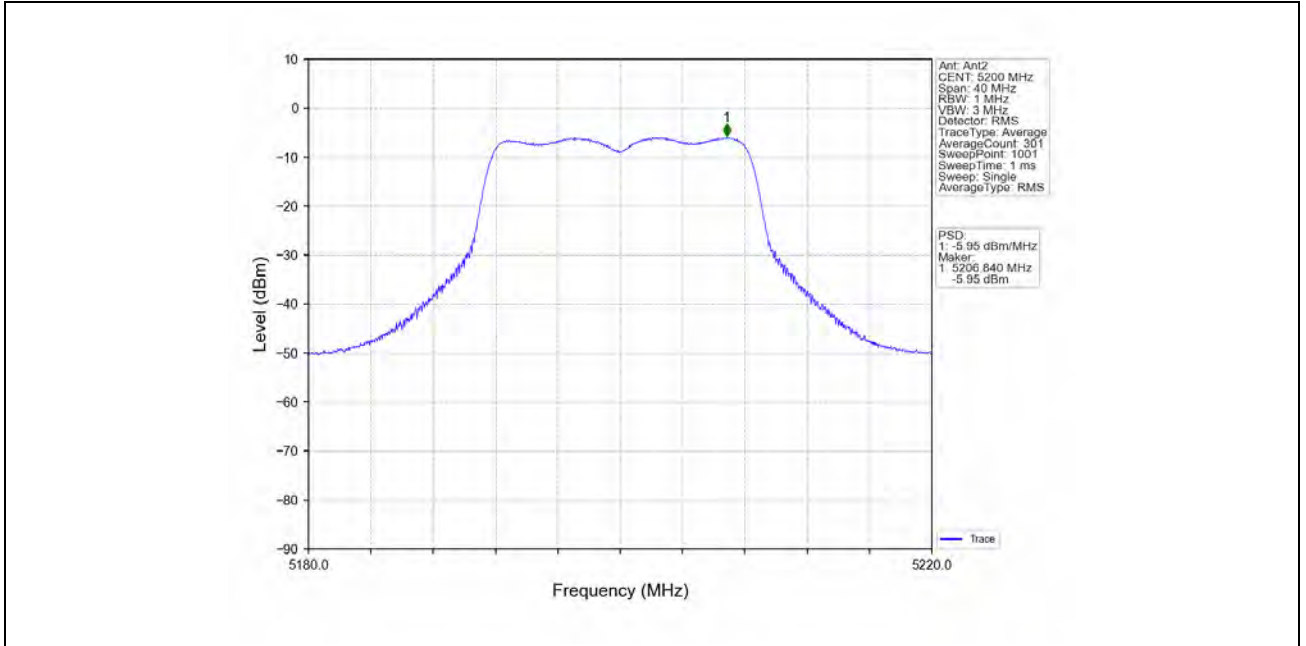


802.11a_MCH_5200MHz_Ant2_NTNV

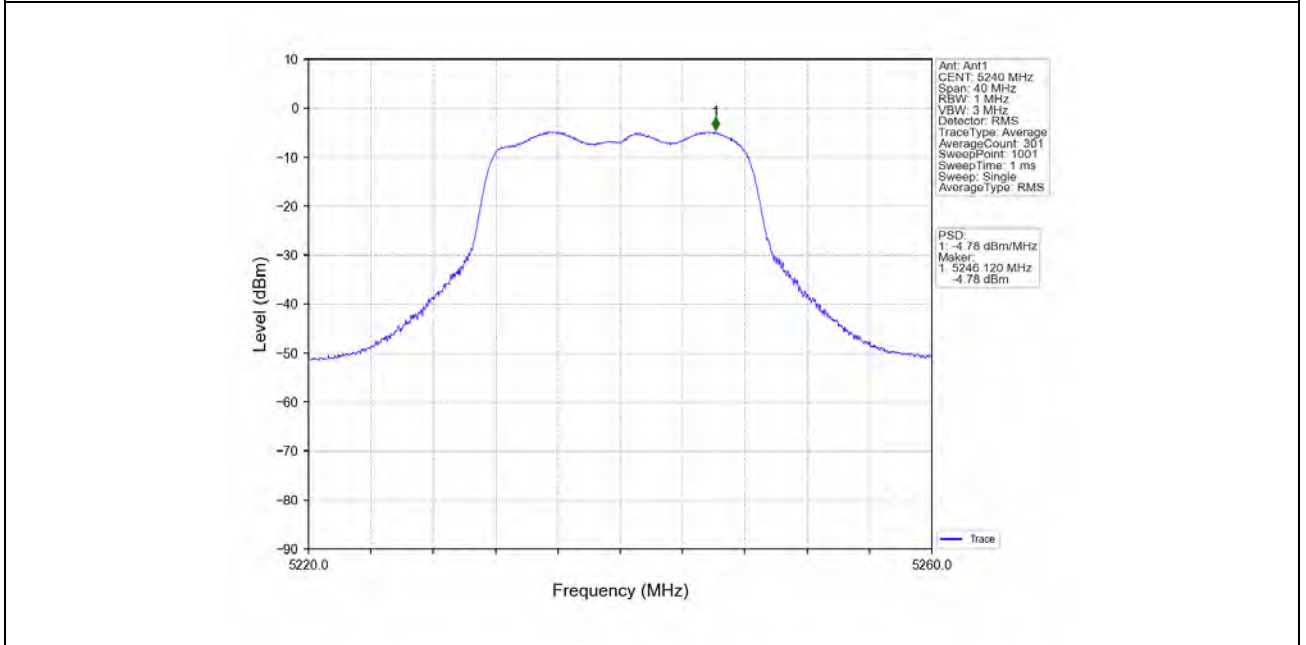


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802.11a_HCH_5240MHz_Ant1_NTNV

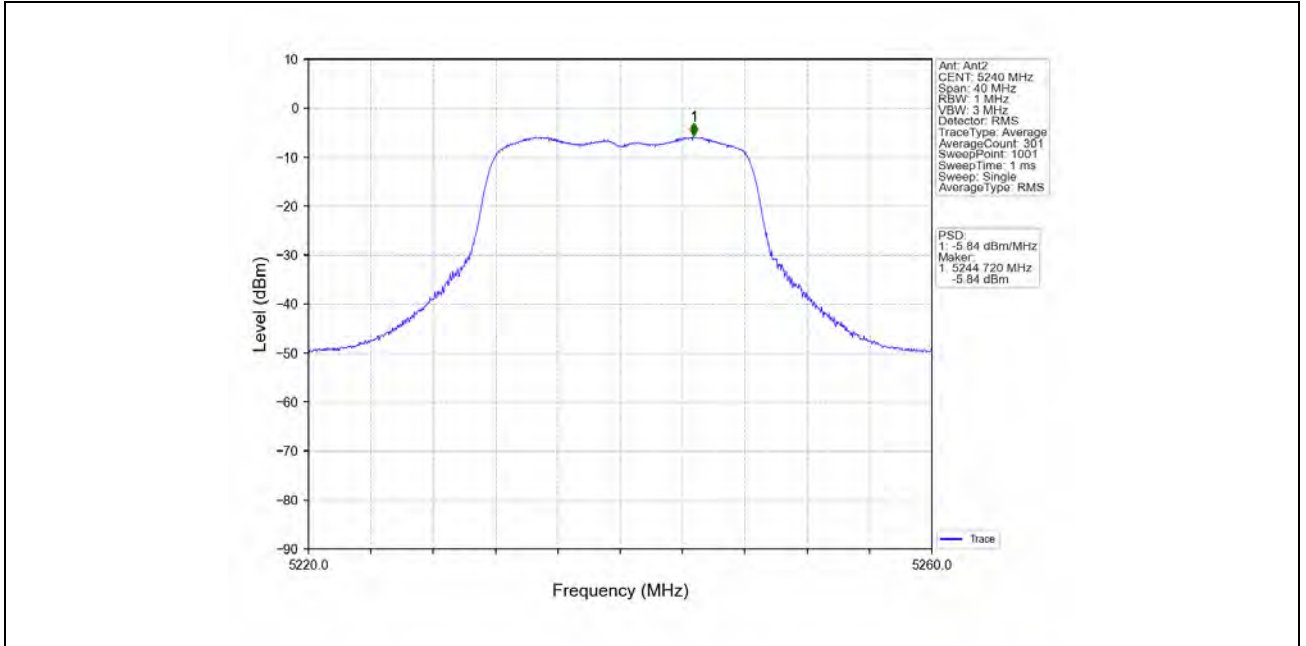


802.11a_HCH_5240MHz_Ant2_NTNV

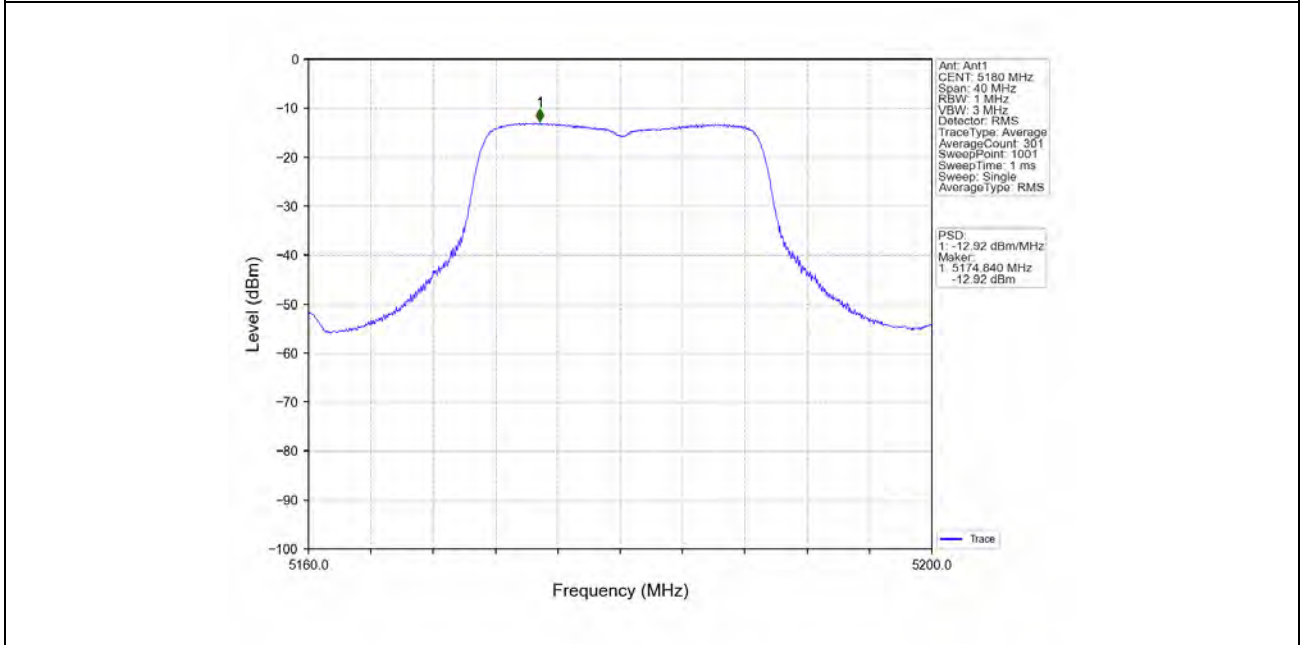


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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

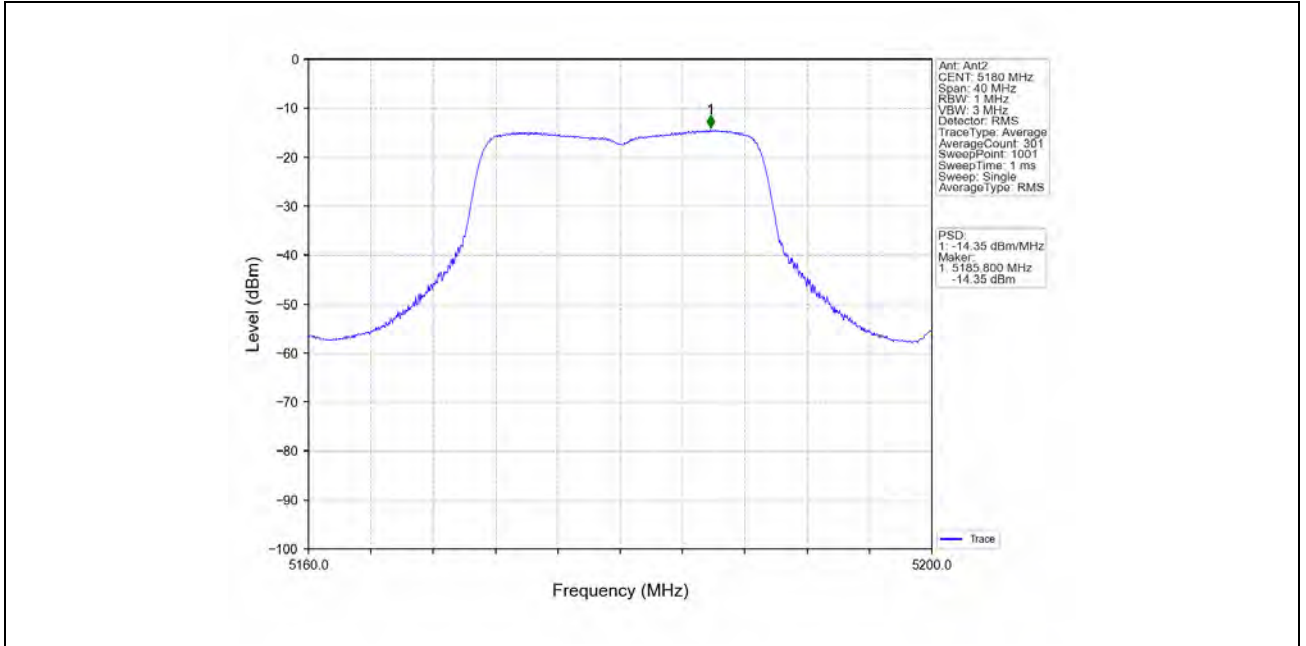


802.11n(HT20)_LCH_5180MHz_Ant2_NTNV

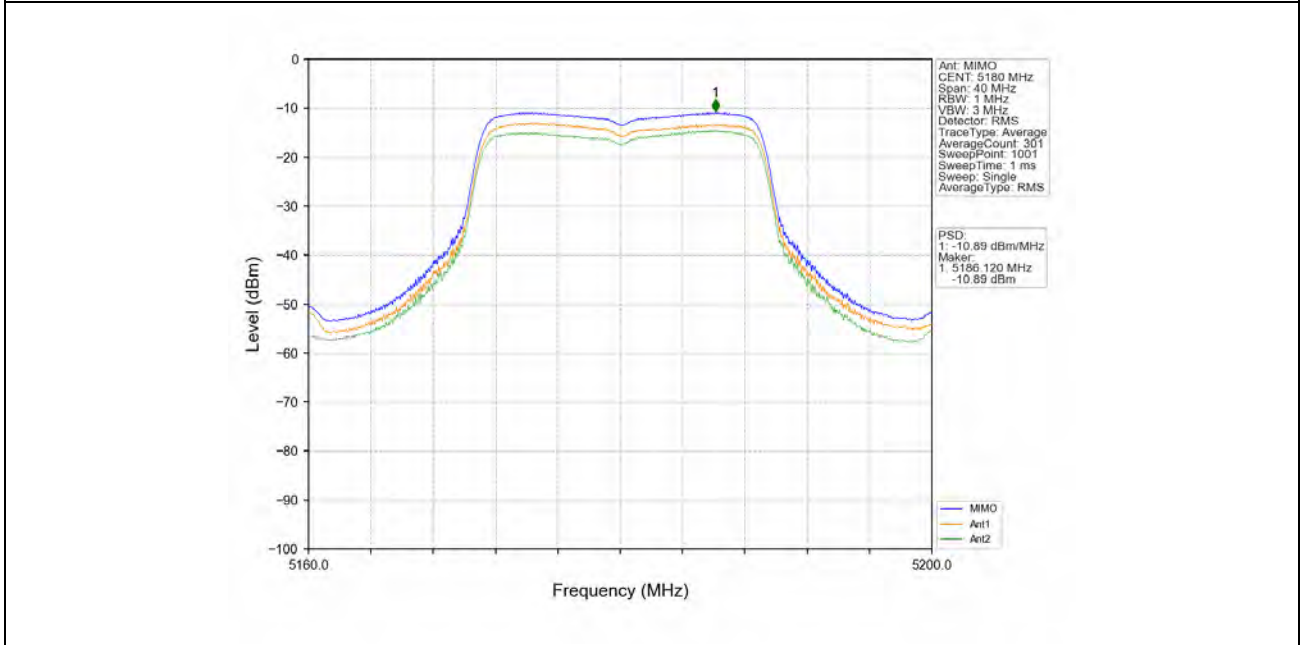


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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV

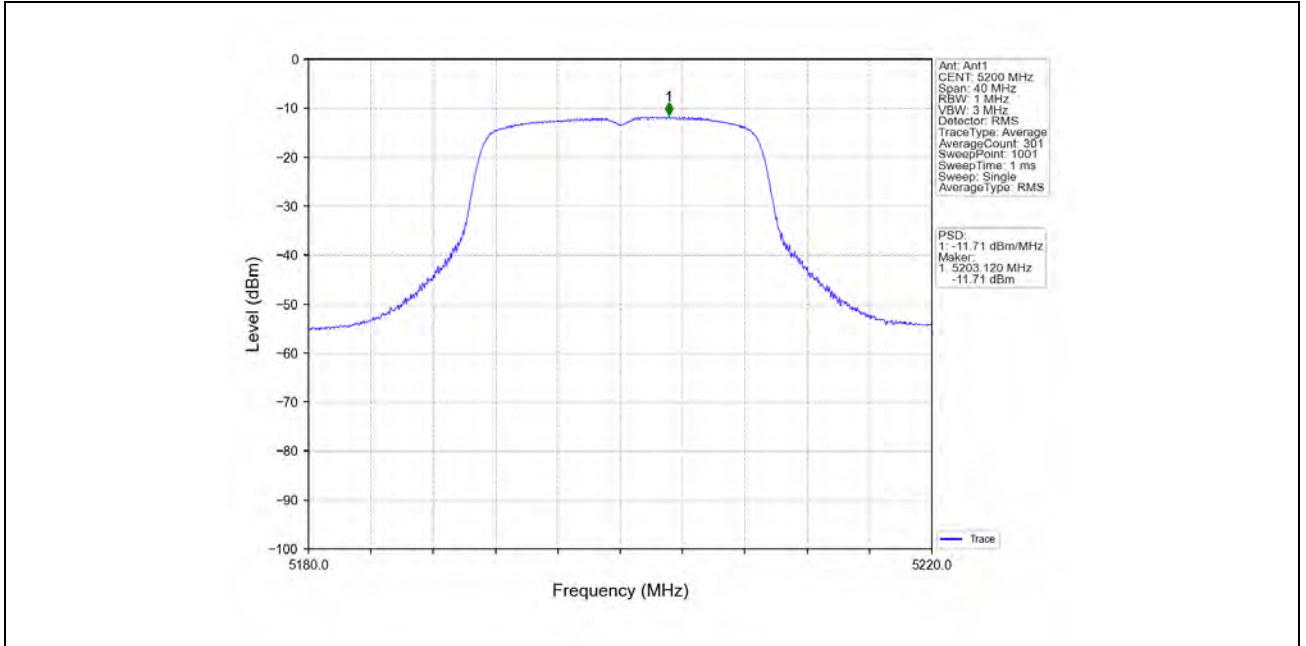


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

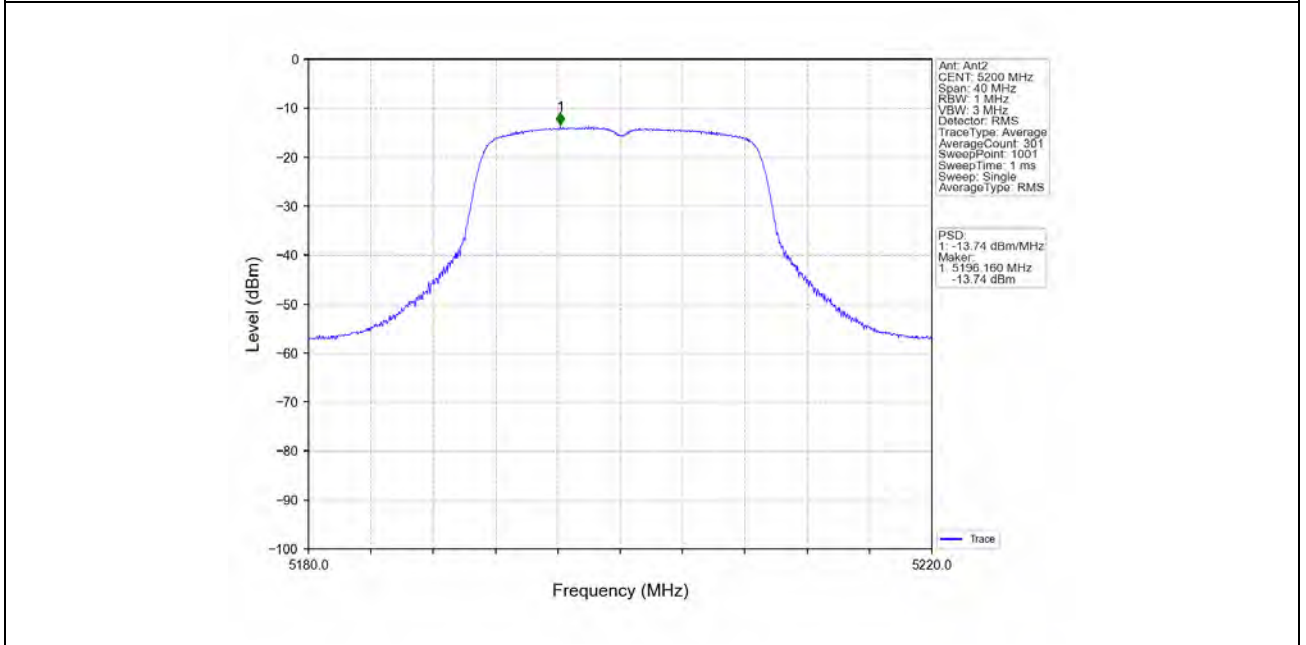


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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV

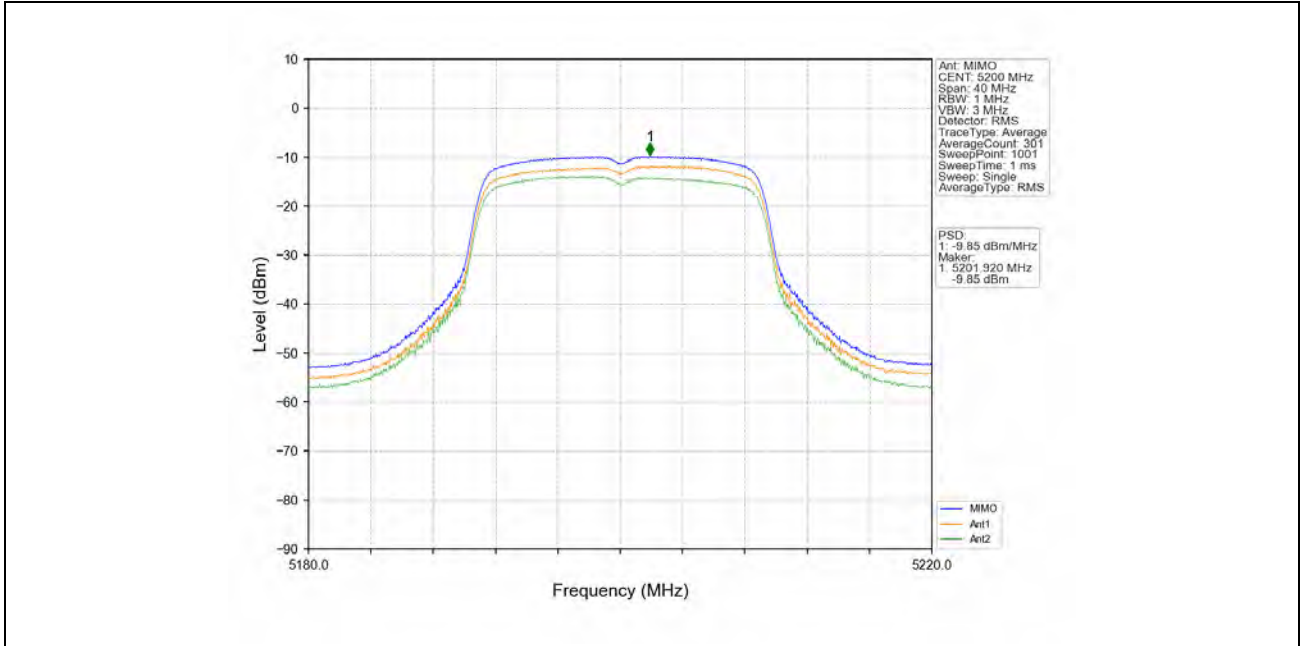


802.11n(HT20)_MCH_5200MHz_MIMO_NTNV

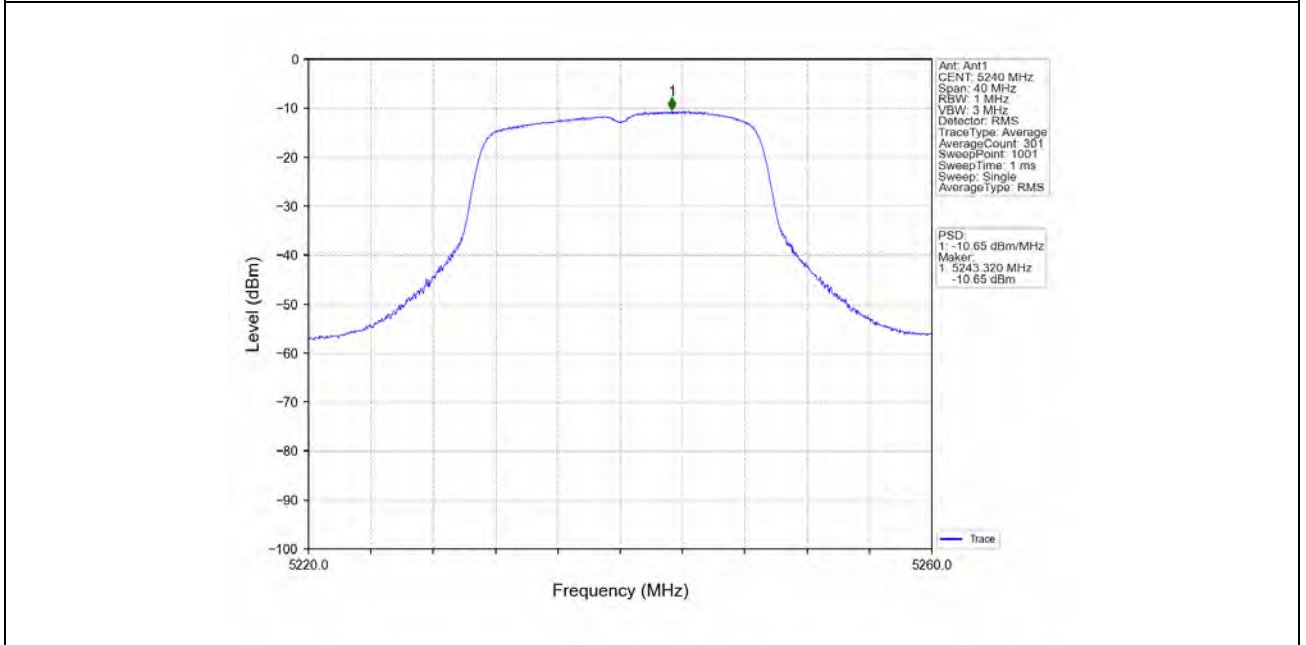


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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

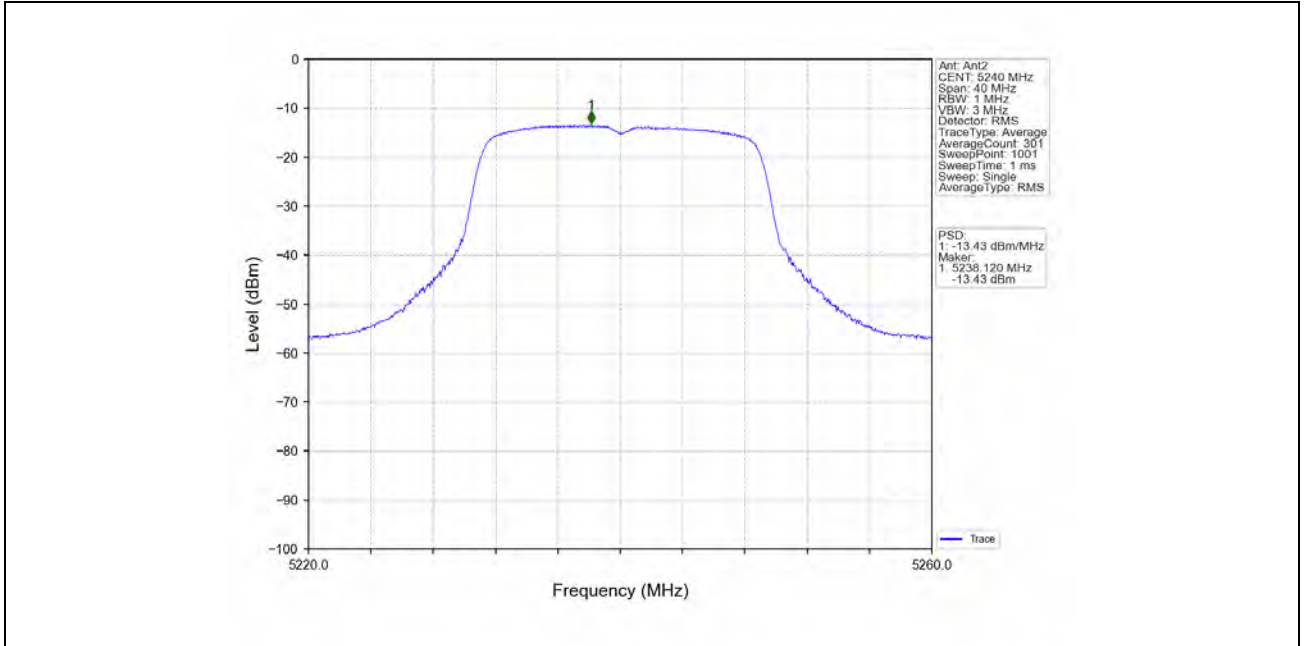


802.11n(HT20)_HCH_5240MHz_Ant2_NTNV

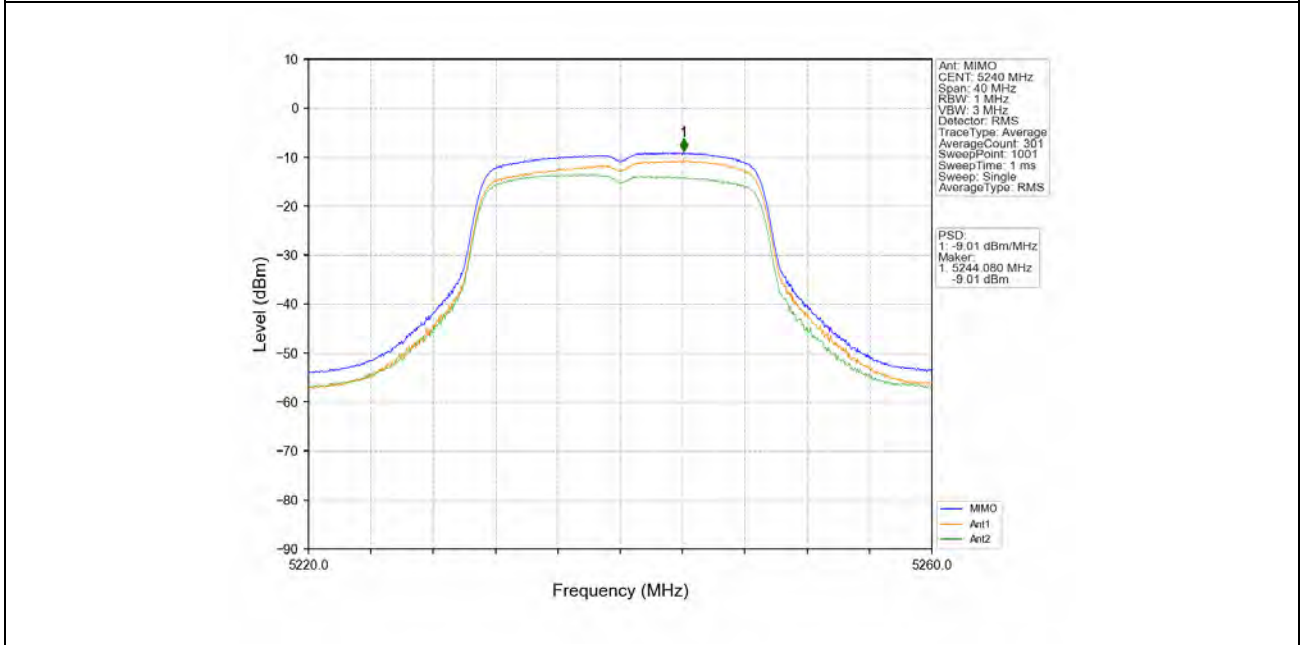


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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV

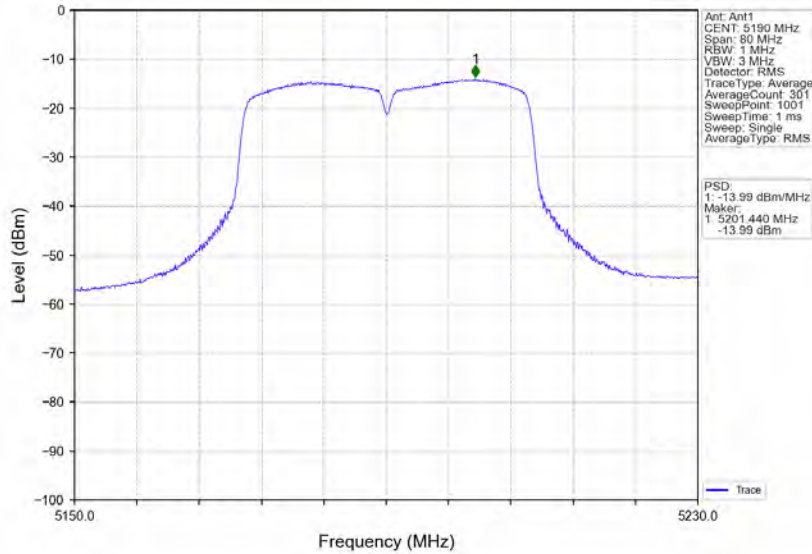


802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

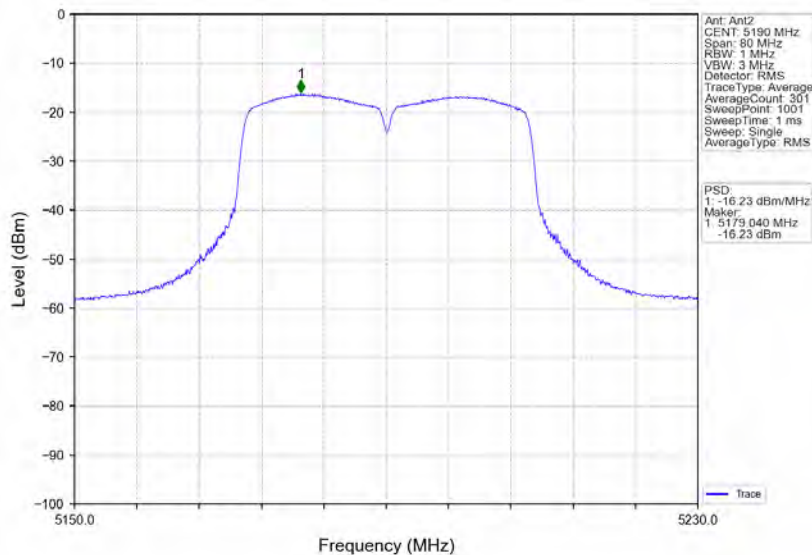


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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV

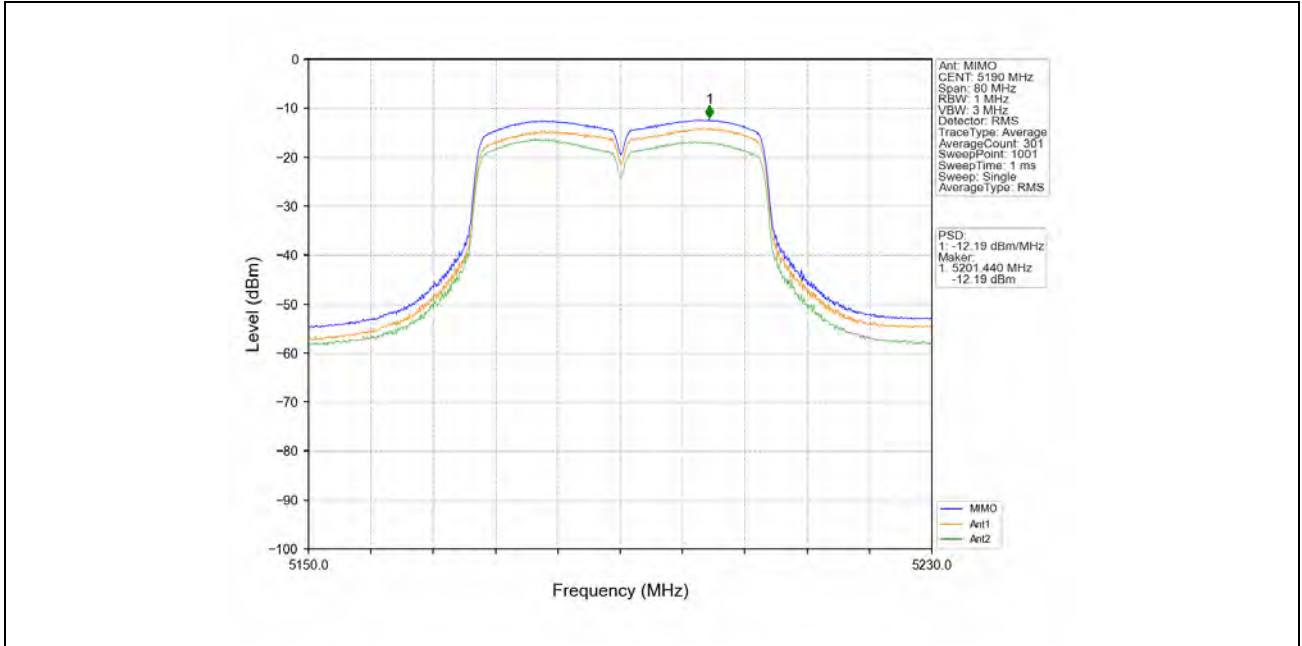


802.11n(HT40)_LCH_5190MHz_MIMO_NTNV

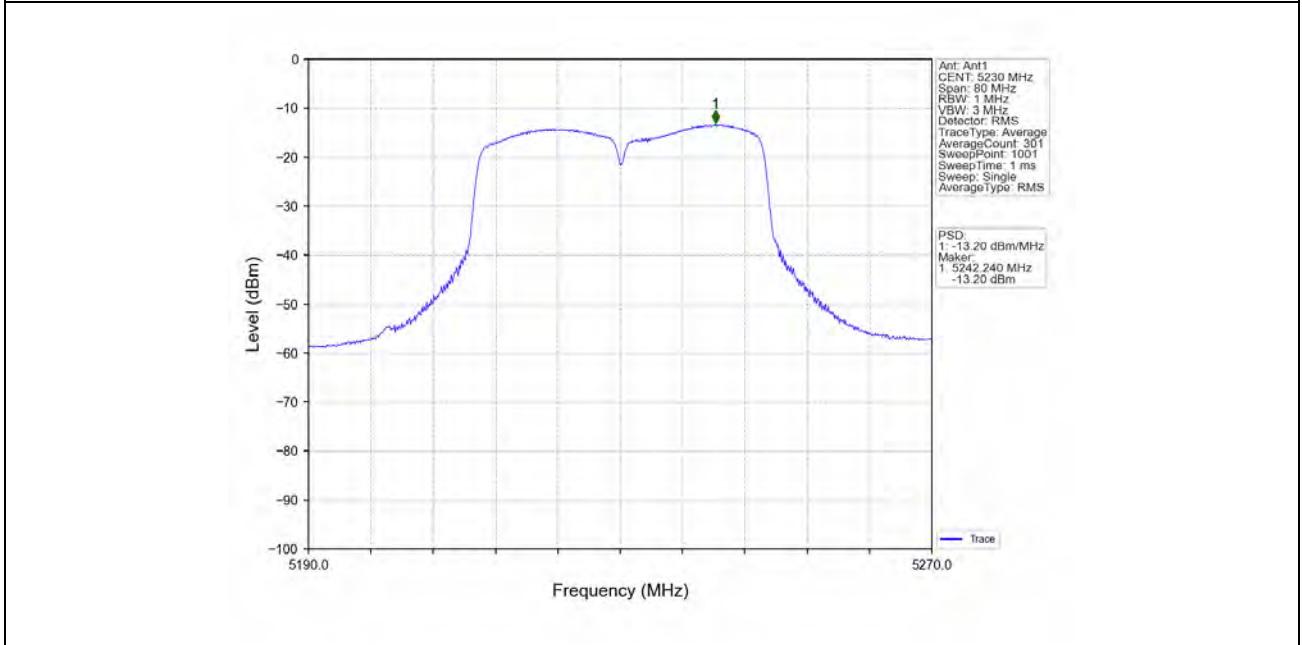


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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

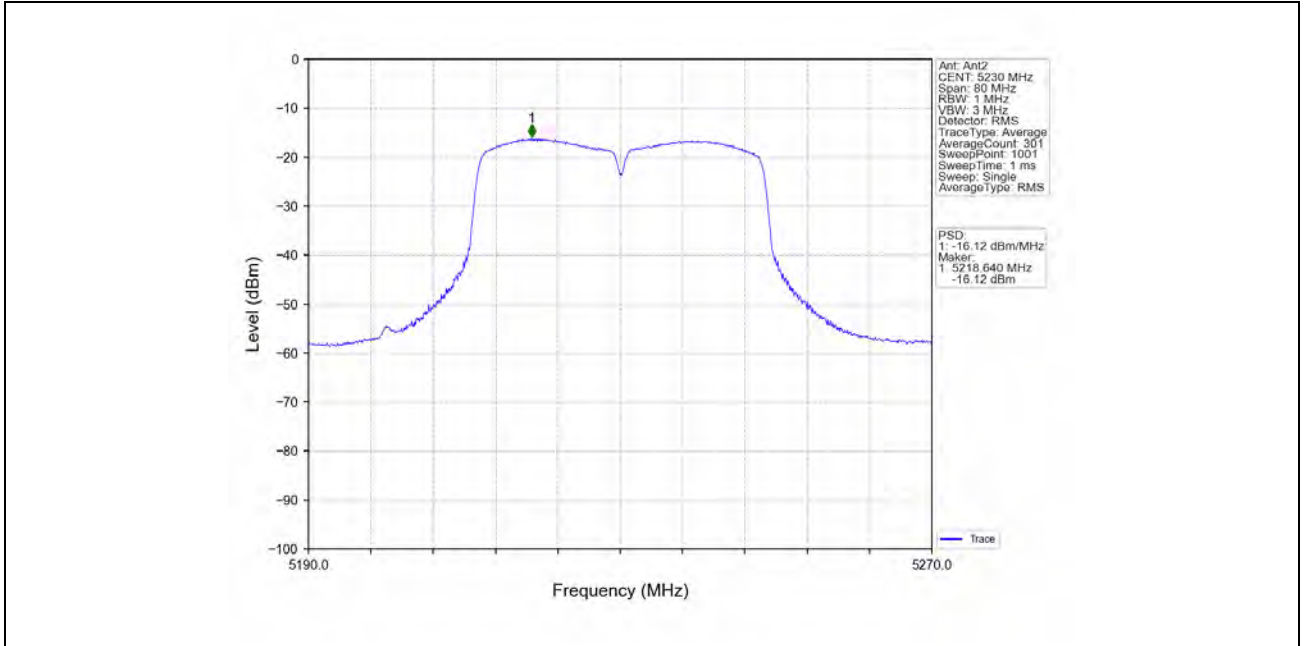


802.11n(HT40)_HCH_5230MHz_Ant2_NTNV

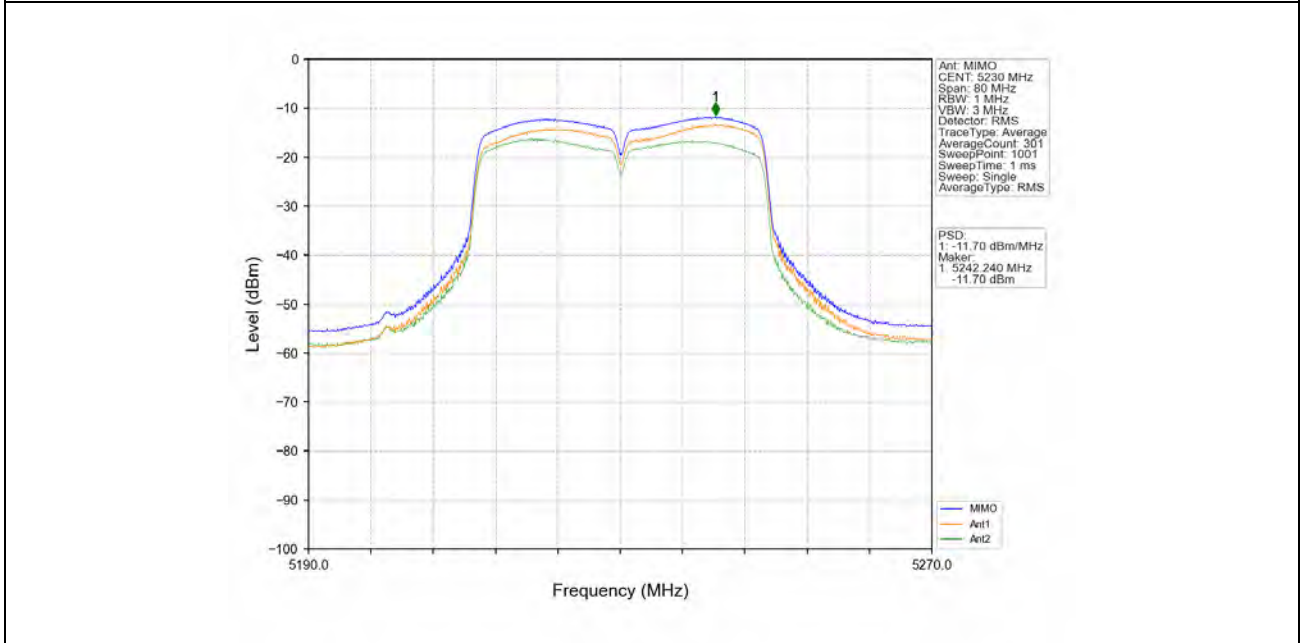


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802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



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4.2 PSD-Band3

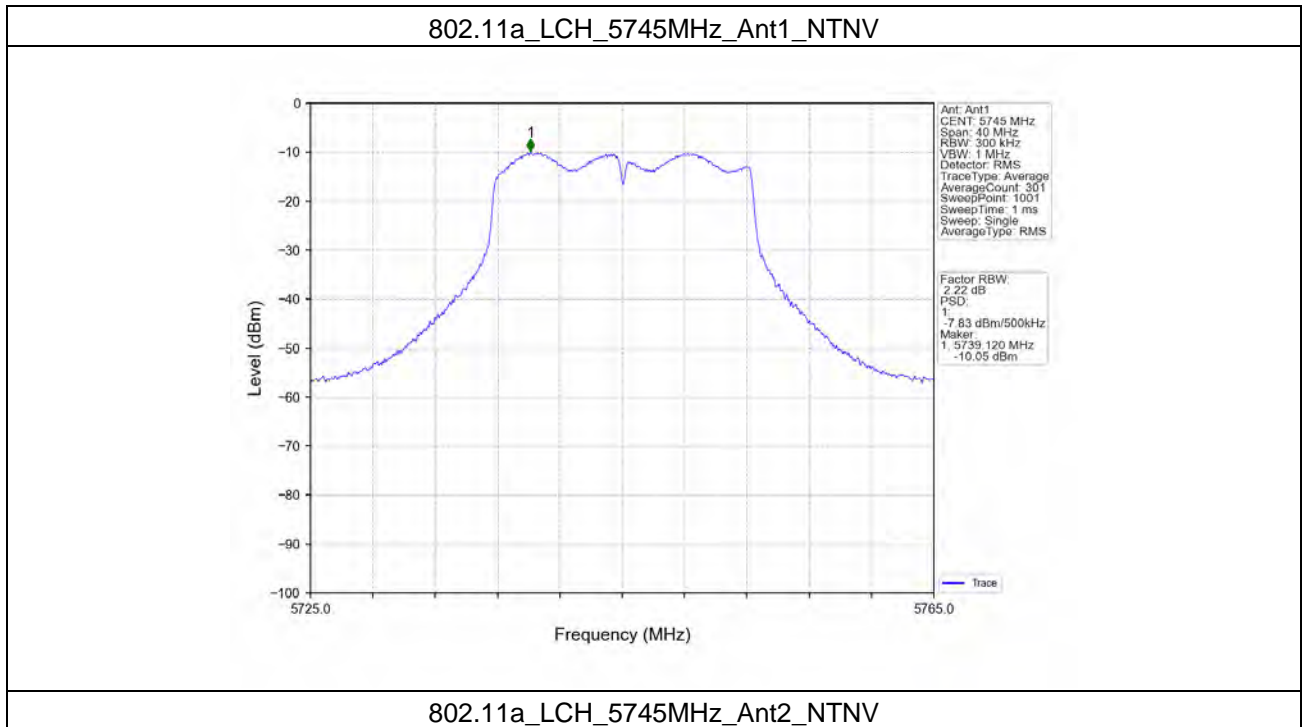
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5745	-7.83	-7.87	/	<=21	Pass
		5785	-6.42	-6.85	/	<=21	Pass
		5825	-6.95	-6.64	/	<=21	Pass
802.11n (HT20)	MIMO	5745	-9.64	-9.26	-7.37	<=17.99	Pass
		5785	-8.11	-8.17	-5.98	<=17.99	Pass
		5825	-8.70	-8.08	-5.95	<=17.99	Pass
802.11n (HT40)	MIMO	5755	-11.17	-11.43	-9.05	<=17.99	Pass
		5795	-10.73	-10.99	-8.39	<=17.99	Pass

Note1: Antenna Gain: Ant1: 15.00dBi; Ant2: 15.00dBi;

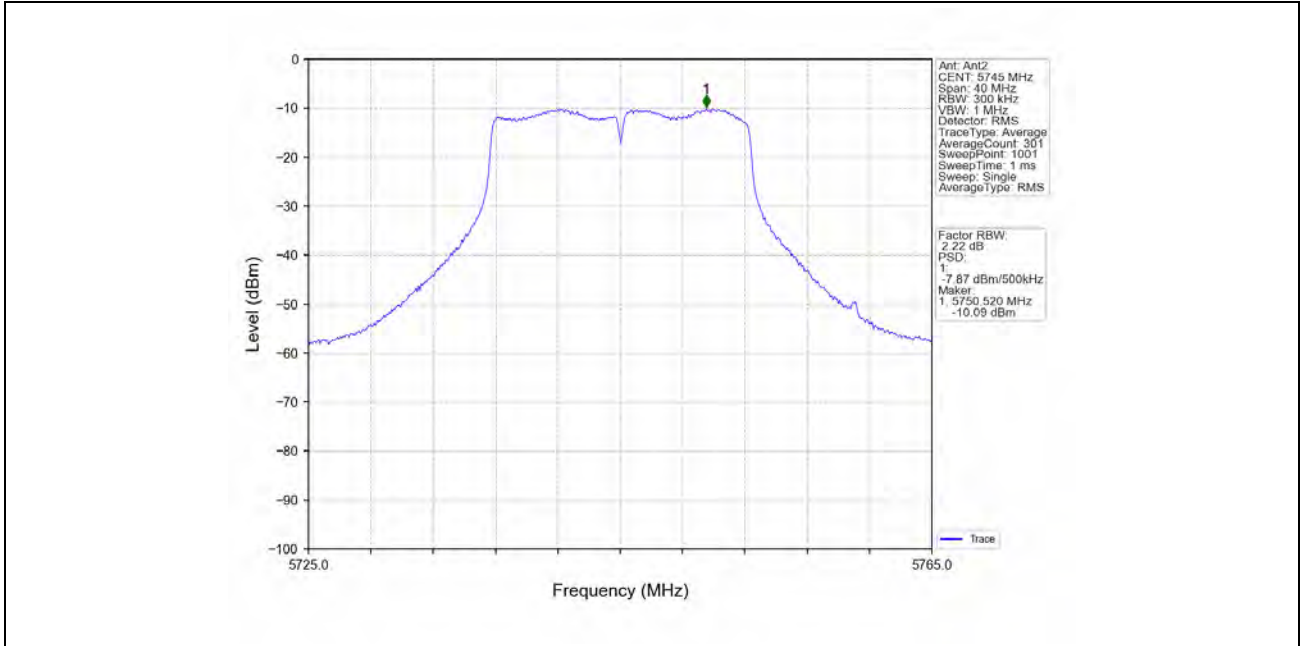
Note2: Directional Gain:18.01dBi

4.2.2 Test Graph

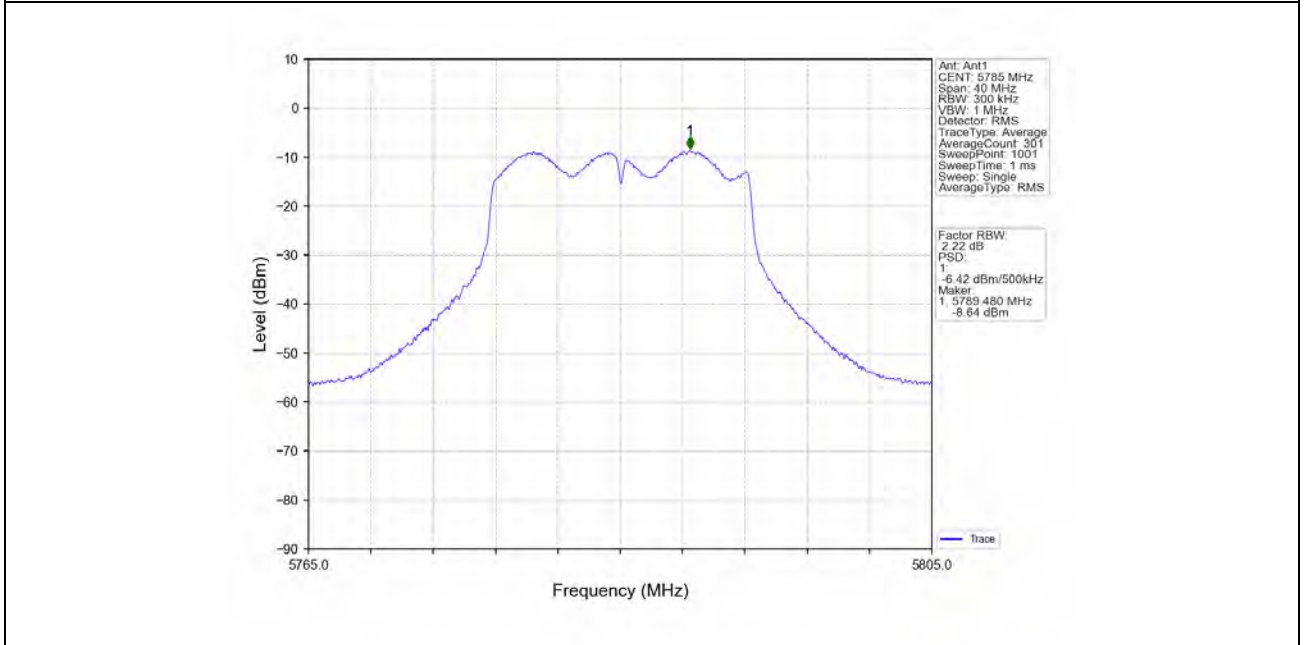


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802.11a_MCH_5785MHz_Ant1_NTNV

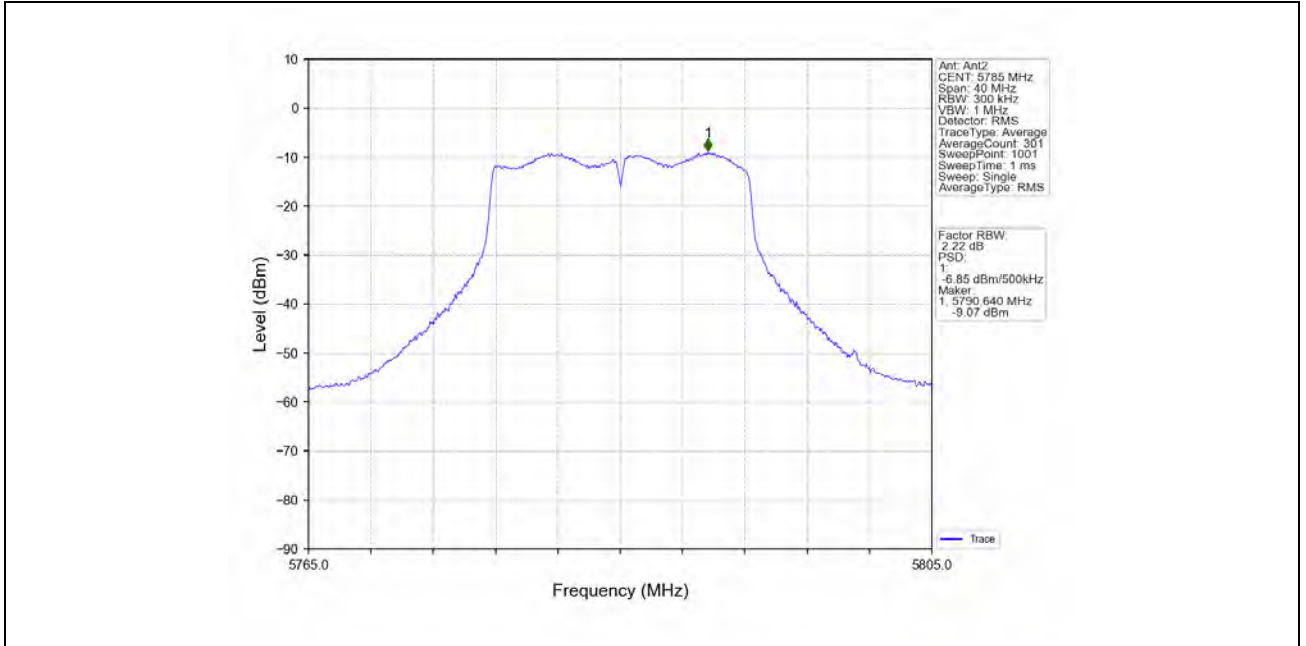


802.11a_MCH_5785MHz_Ant2_NTNV

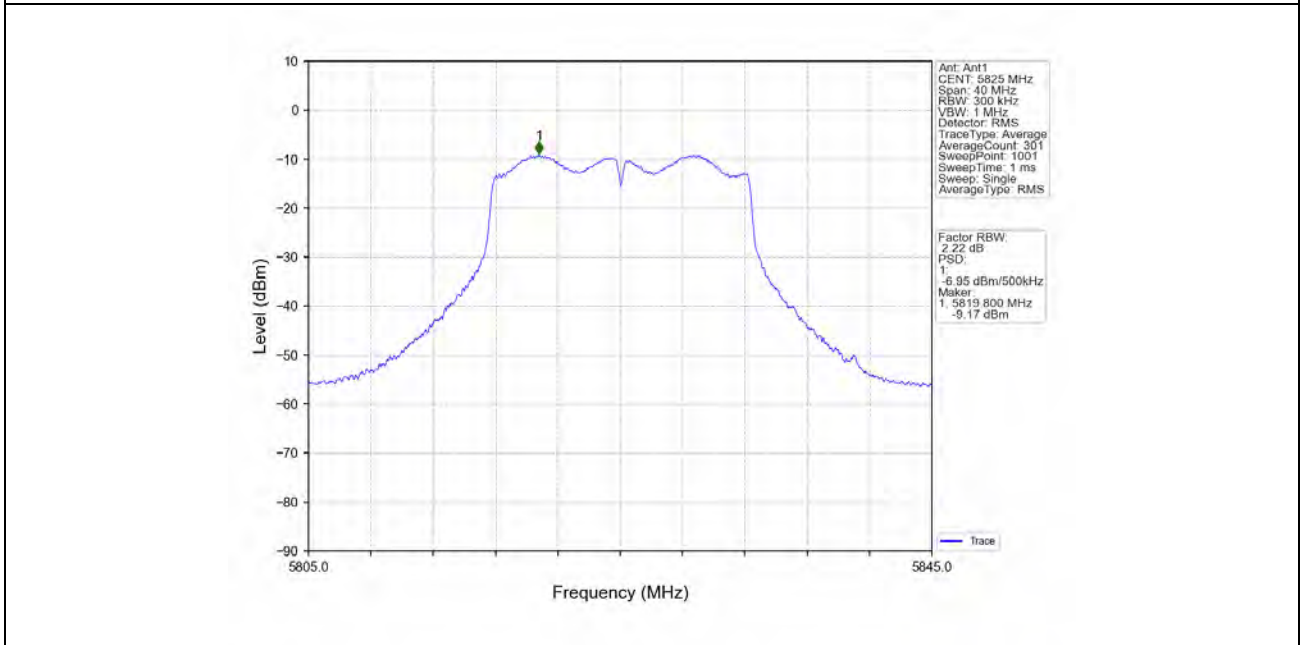


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802.11a_HCH_5825MHz_Ant1_NTNV

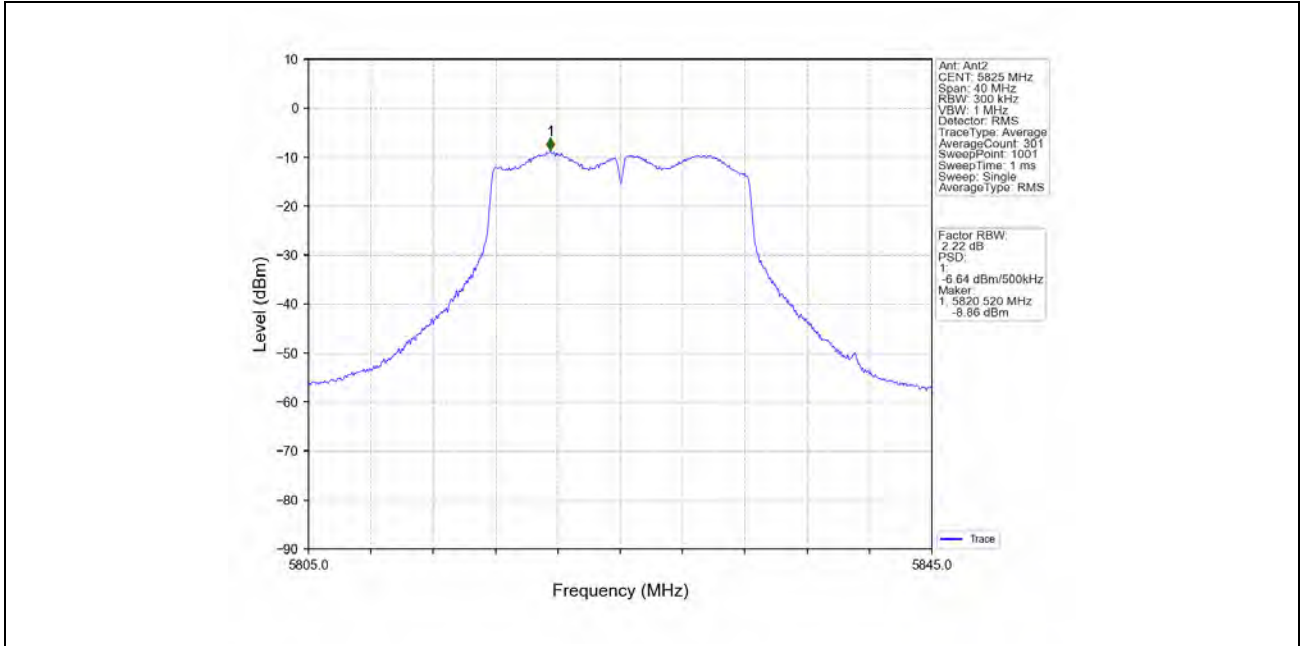


802.11a_HCH_5825MHz_Ant2_NTNV

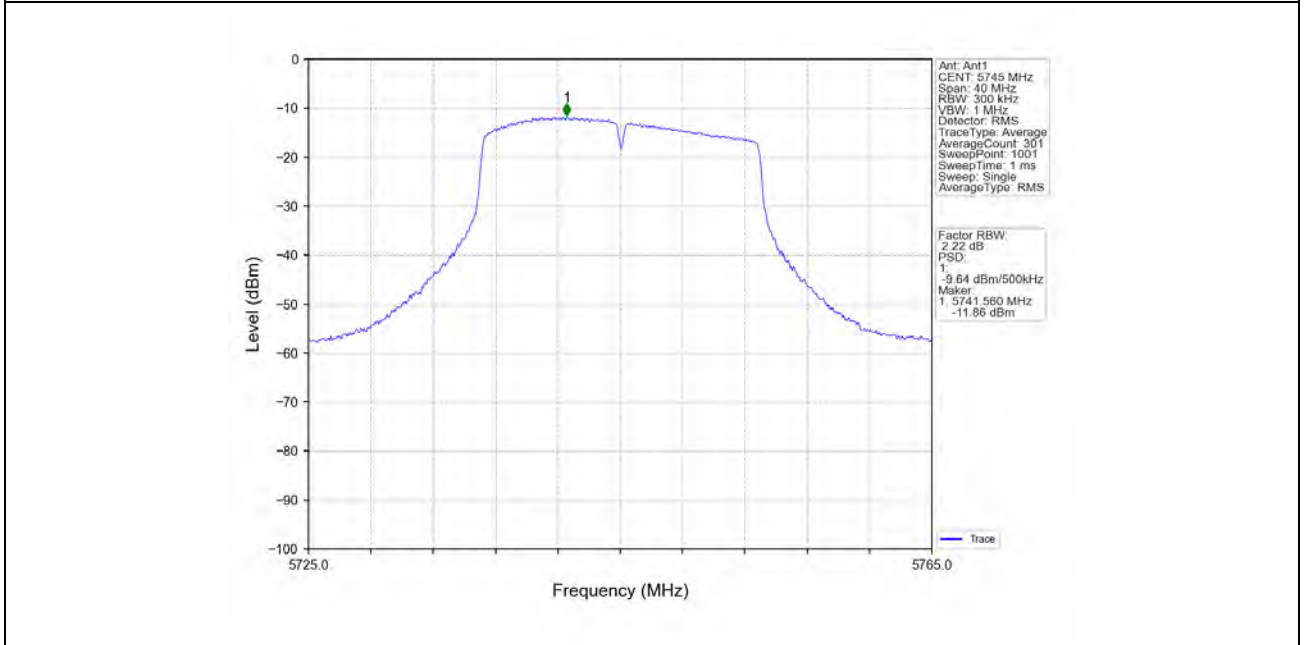


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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

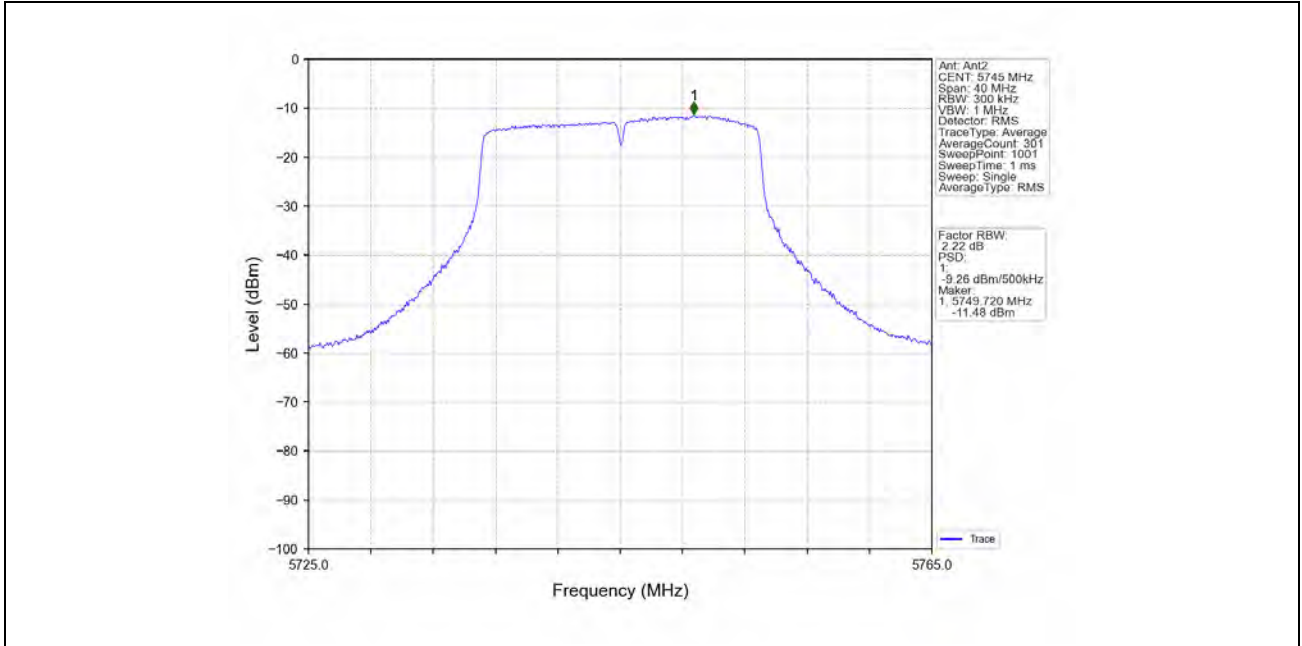


802.11n(HT20)_LCH_5745MHz_Ant2_NTNV

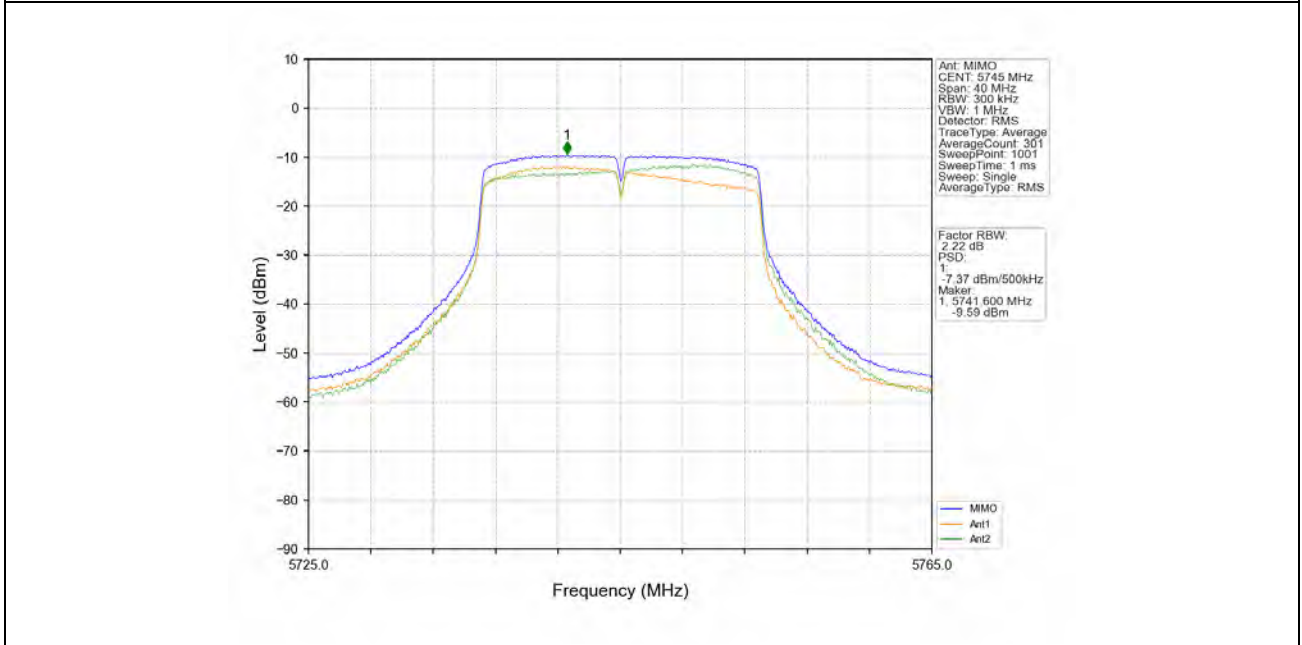


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802.11n(HT20)_LCH_5745MHz_MIMO_NTNV

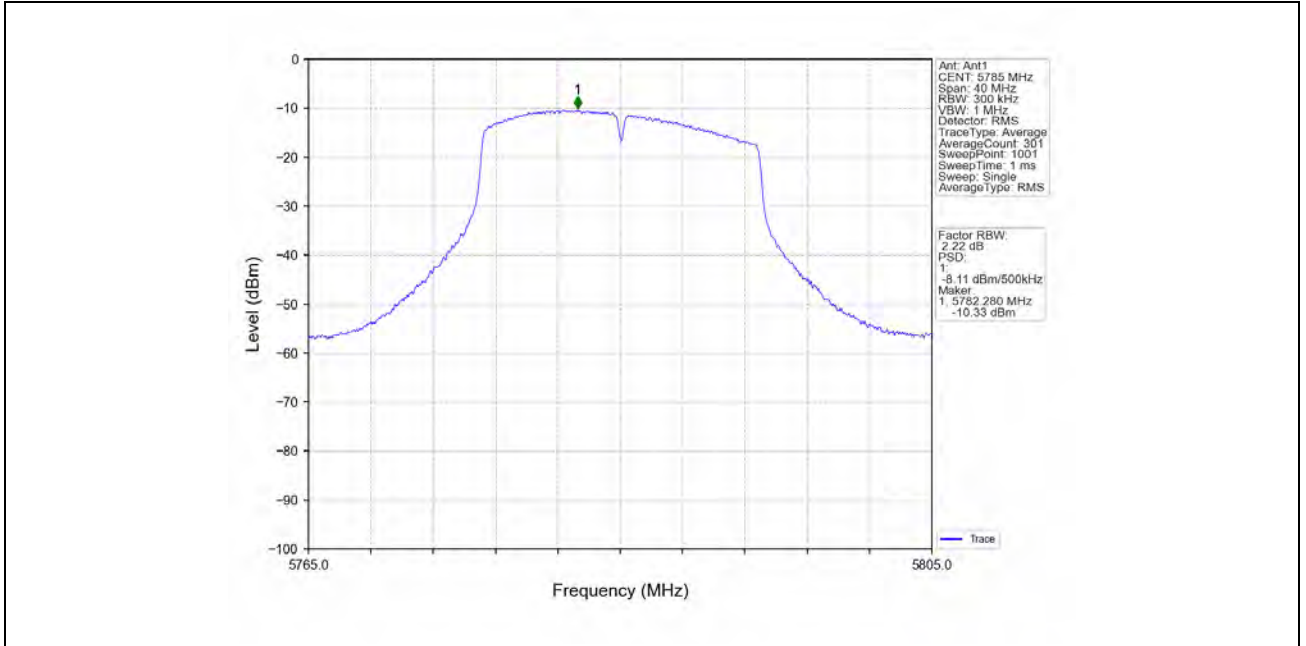


802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

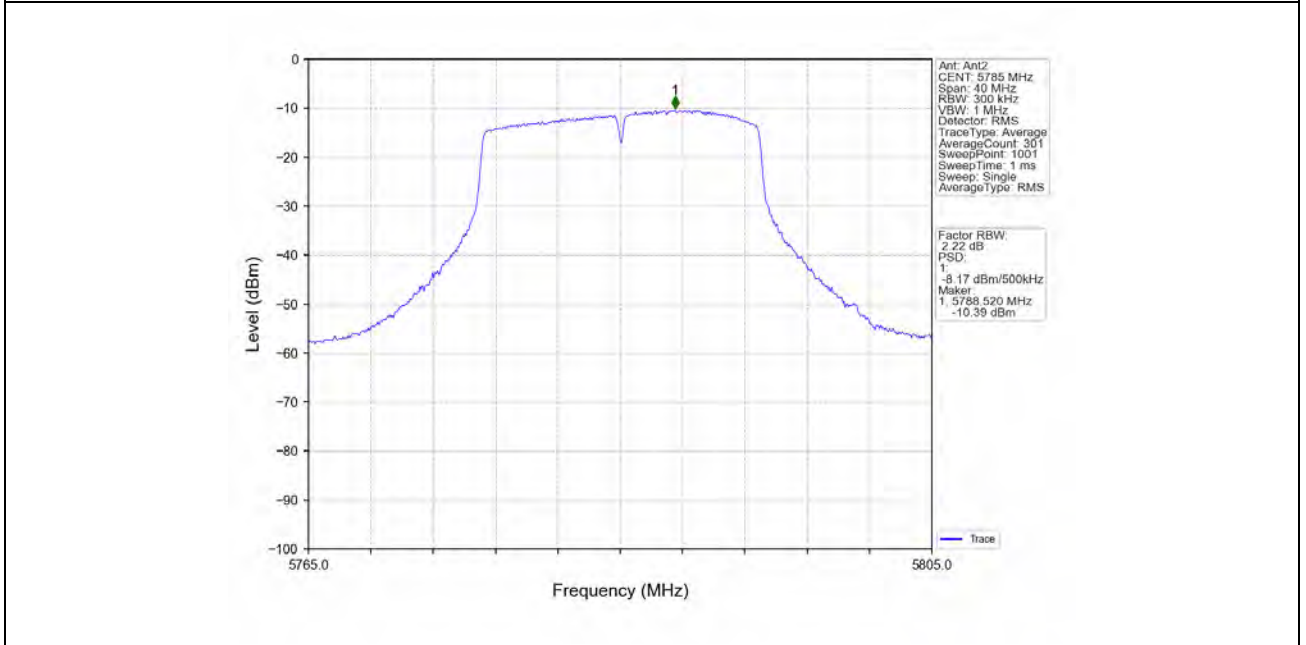


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802.11n(HT20)_MCH_5785MHz_Ant2_NTNV

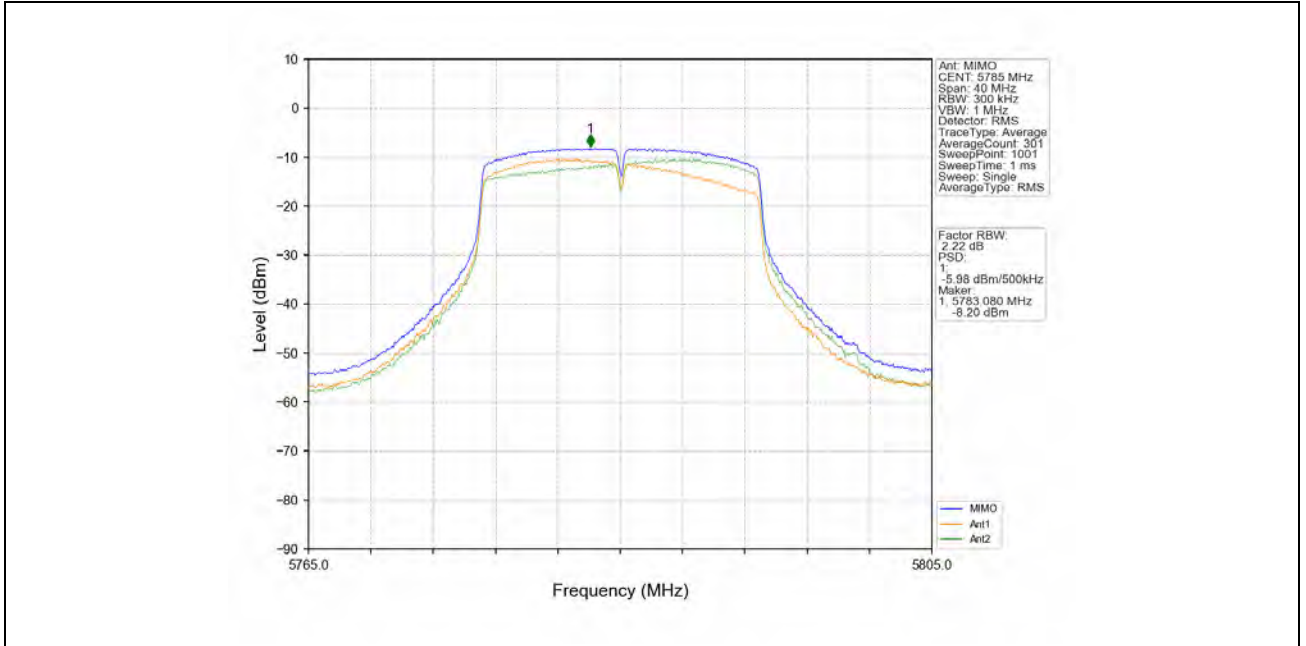


802.11n(HT20)_MCH_5785MHz_MIMO_NTNV

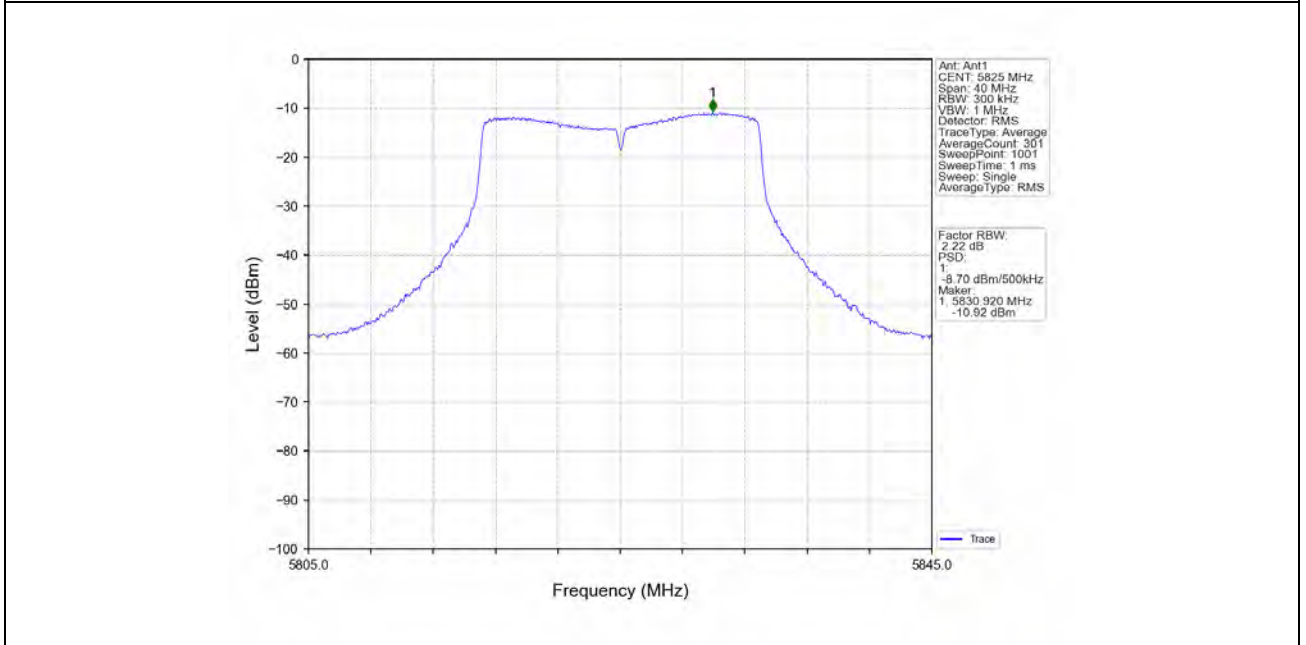


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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

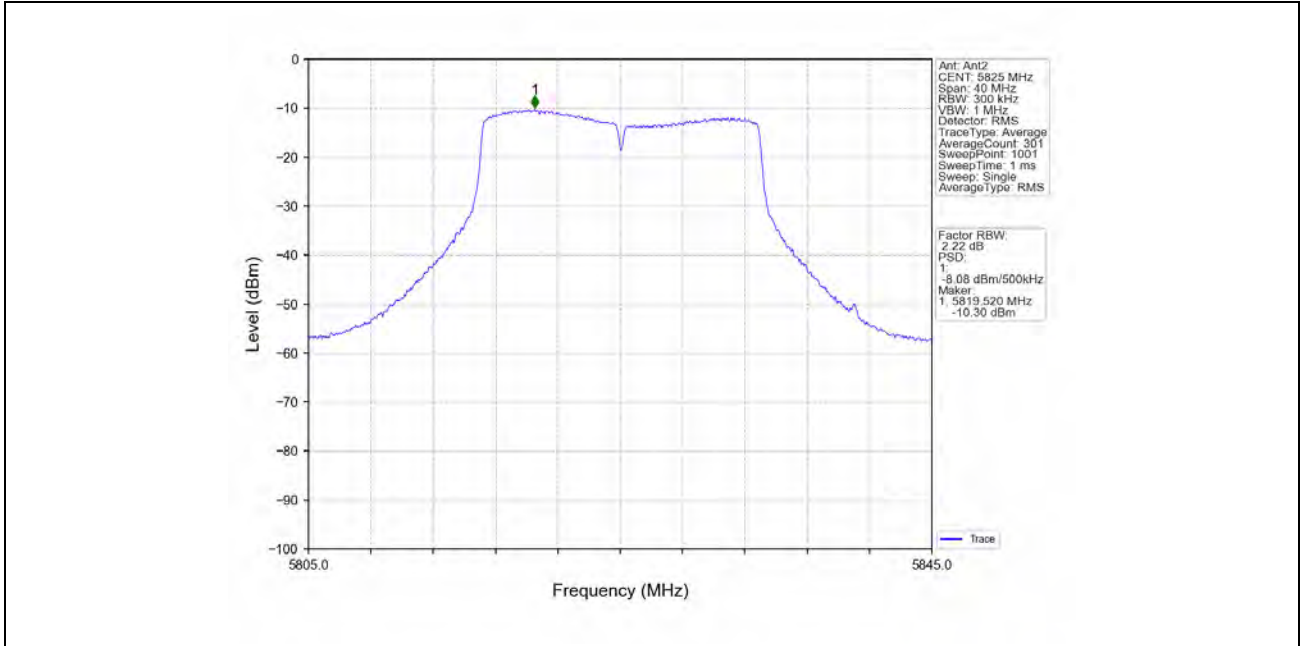


802.11n(HT20)_HCH_5825MHz_Ant2_NTNV

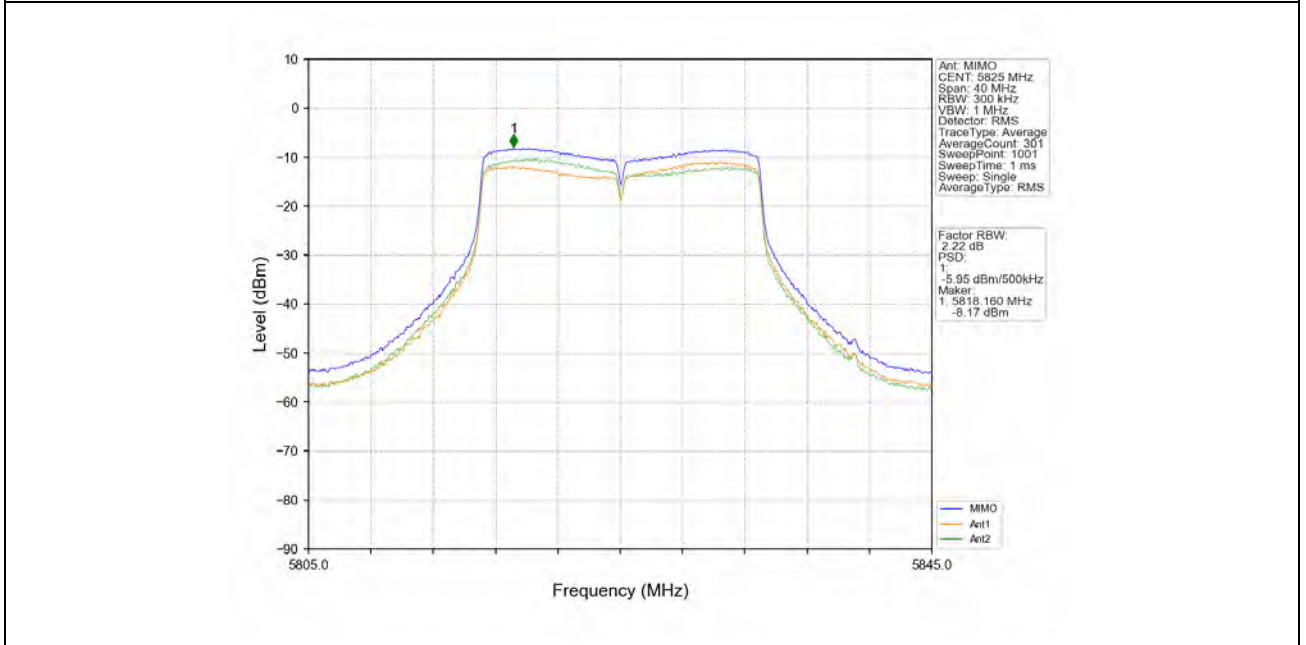


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802.11n(HT20)_HCH_5825MHz_MIMO_NTNV

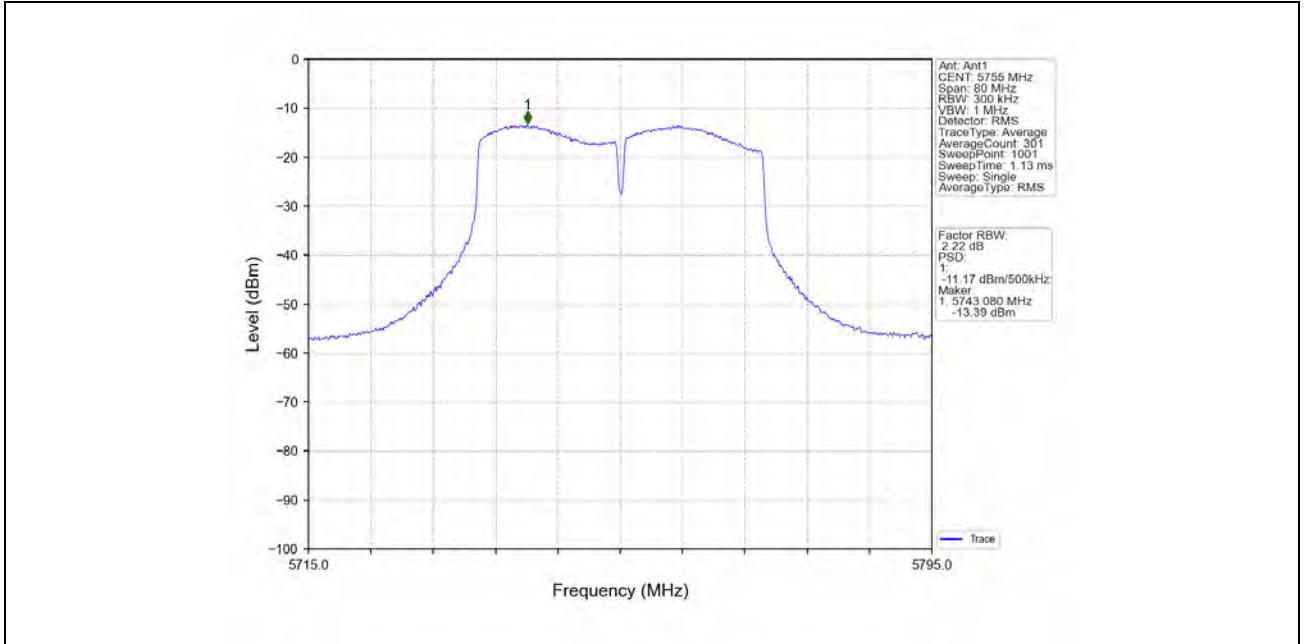


802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

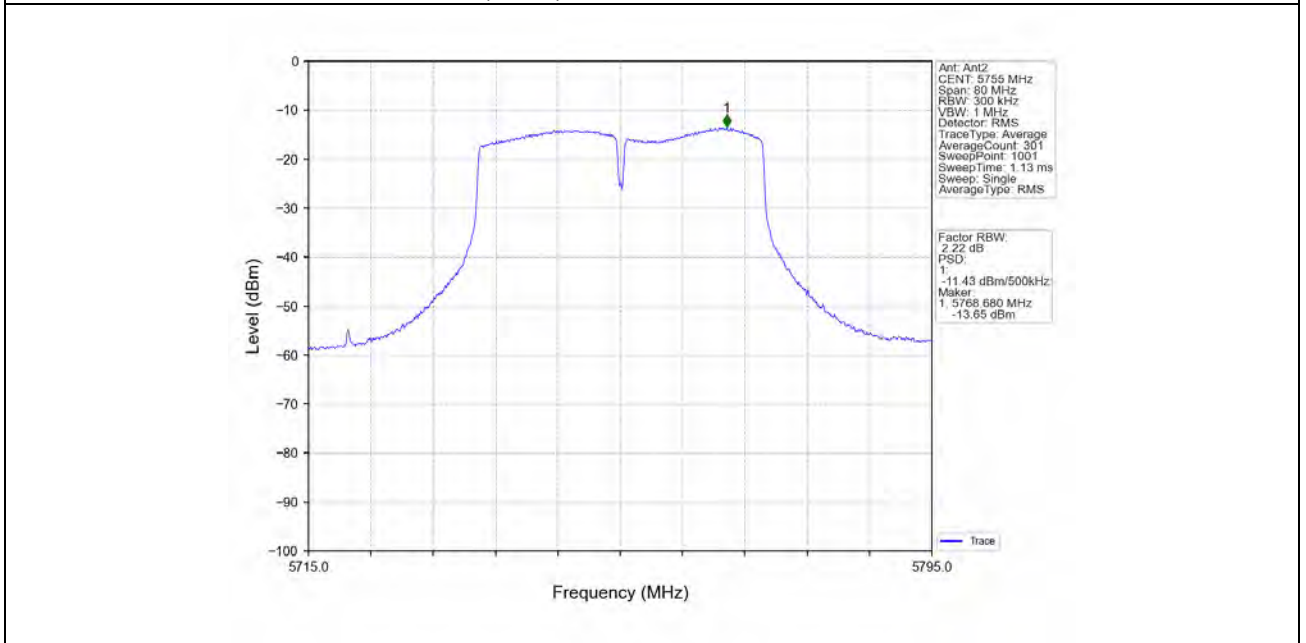


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802.11n(HT40)_LCH_5755MHz_Ant2_NTNV

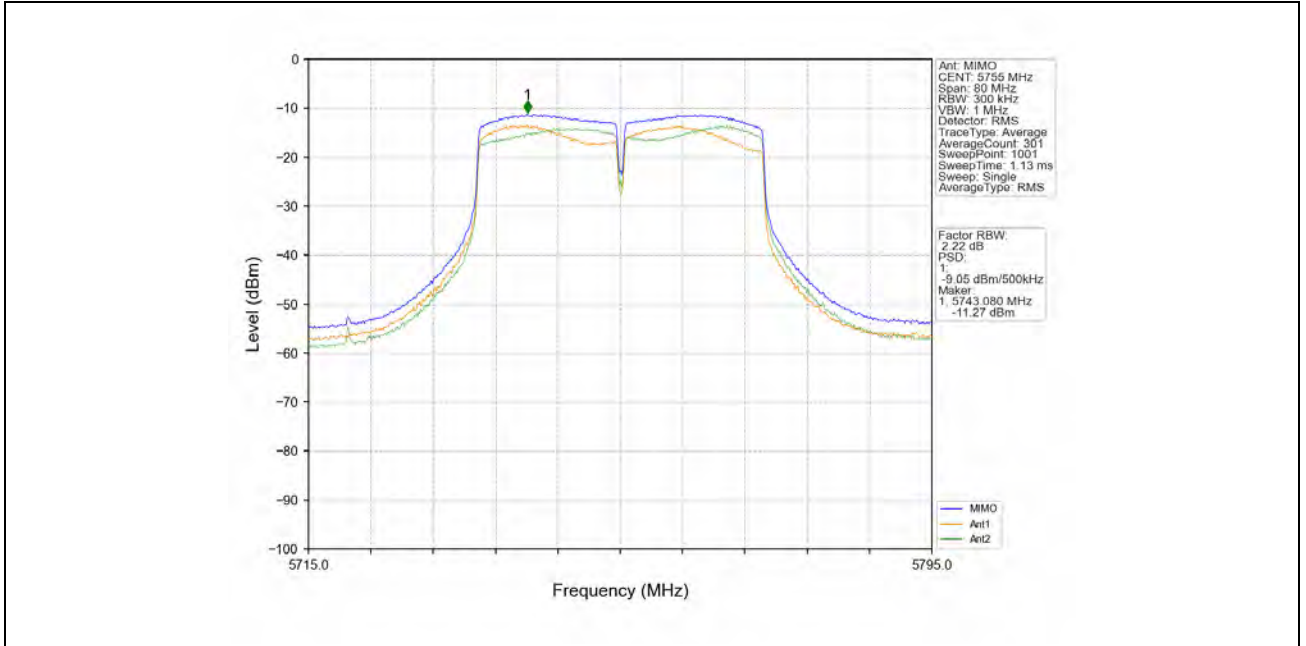


802.11n(HT40)_LCH_5755MHz_MIMO_NTNV

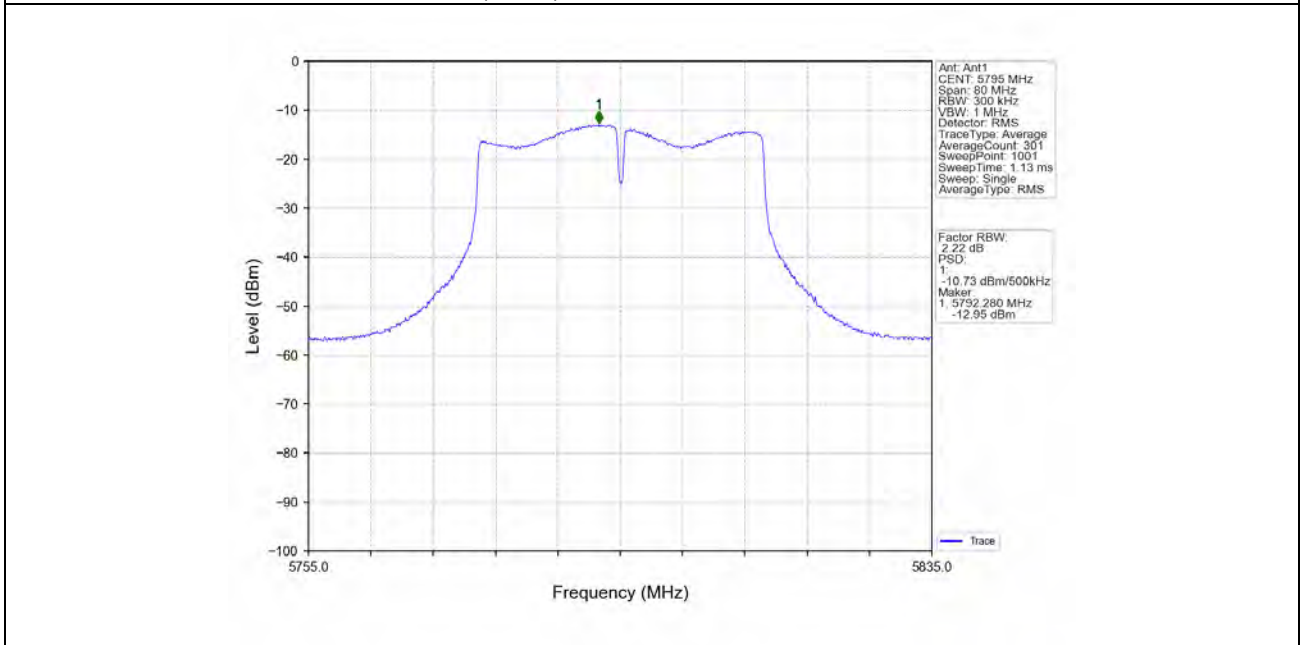


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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

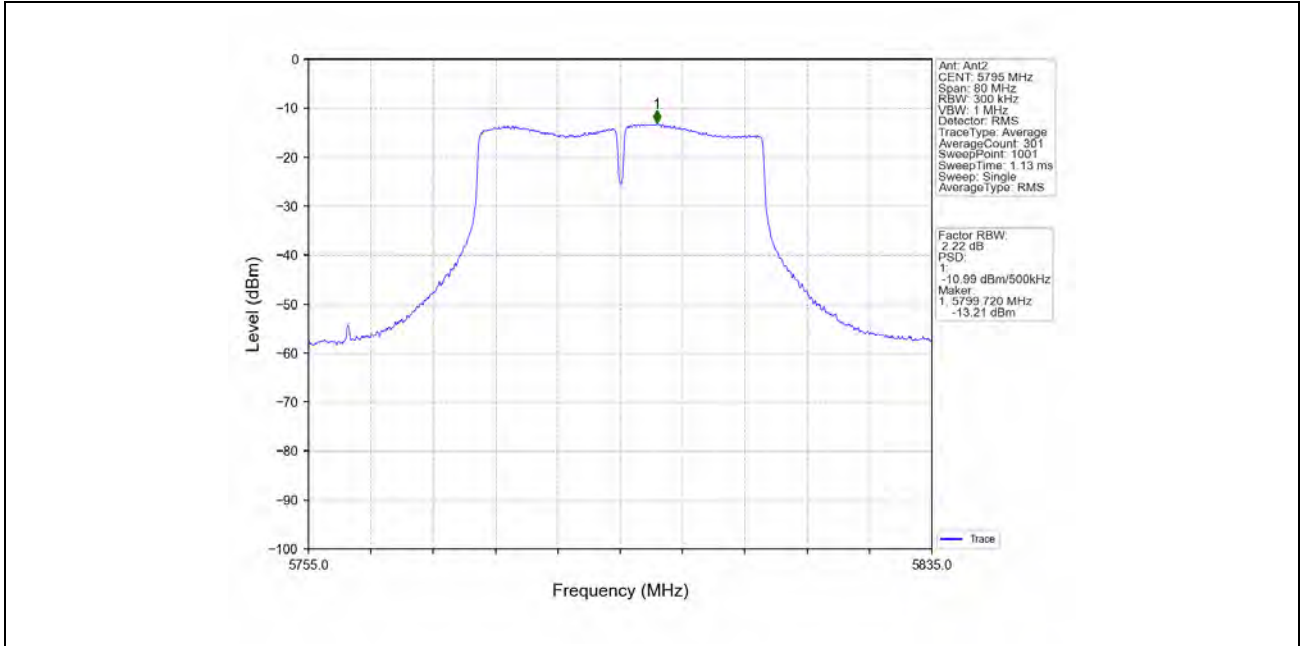


802.11n(HT40)_HCH_5795MHz_Ant2_NTNV

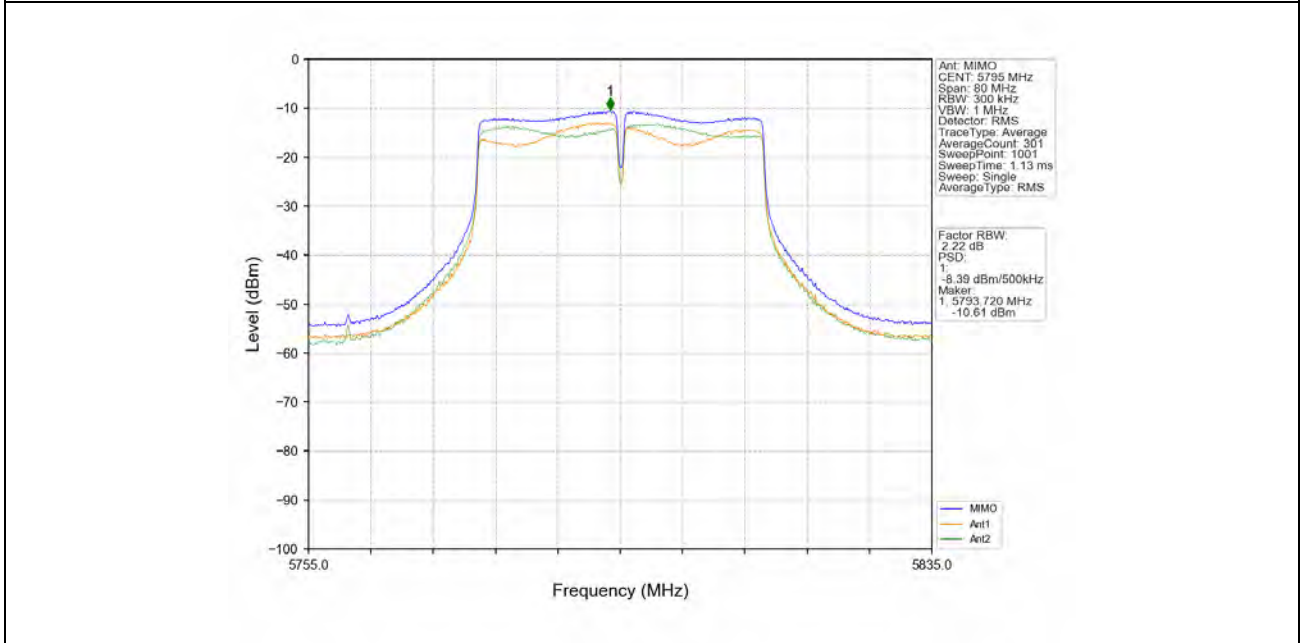


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802.11n(HT40)_HCH_5795MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	LV	5180.002	5150 to 5250	Pass
				NV	5180.004	5150 to 5250	Pass
				HV	5180.006	5150 to 5250	Pass
			-30	NV	5180.008	5150 to 5250	Pass
				NV	5180.010	5150 to 5250	Pass
			-20	NV	5180.012	5150 to 5250	Pass
				NV	5180.014	5150 to 5250	Pass
			10	NV	5180.015	5150 to 5250	Pass
				NV	5180.018	5150 to 5250	Pass
			40	NV	5180.019	5150 to 5250	Pass
		NV		5180.021	5150 to 5250	Pass	
		5200	20	LV	5200.083	5150 to 5250	Pass
				NV	5200.082	5150 to 5250	Pass
				HV	5200.083	5150 to 5250	Pass
			-30	NV	5200.085	5150 to 5250	Pass
				NV	5200.088	5150 to 5250	Pass
			-20	NV	5200.090	5150 to 5250	Pass
				NV	5200.093	5150 to 5250	Pass
			10	NV	5200.095	5150 to 5250	Pass
				NV	5200.096	5150 to 5250	Pass
			40	NV	5200.099	5150 to 5250	Pass
		NV		5200.101	5150 to 5250	Pass	
		5240	20	LV	5240.092	5150 to 5250	Pass
				NV	5240.090	5150 to 5250	Pass
				HV	5240.090	5150 to 5250	Pass
			-30	NV	5240.090	5150 to 5250	Pass
				NV	5240.091	5150 to 5250	Pass
			-20	NV	5240.091	5150 to 5250	Pass
				NV	5240.092	5150 to 5250	Pass
			10	NV	5240.093	5150 to 5250	Pass
				NV	5240.093	5150 to 5250	Pass
			40	NV	5240.094	5150 to 5250	Pass
		NV		5240.095	5150 to 5250	Pass	
		5745	20	LV	5745.045	5725 to 5850	Pass
				NV	5745.041	5725 to 5850	Pass
				HV	5745.042	5725 to 5850	Pass
			-30	NV	5745.048	5725 to 5850	Pass



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MIMO	5785	-20	NV	5745.051	5725 to 5850	Pass		
		-10	NV	5745.055	5725 to 5850	Pass		
		0	NV	5745.059	5725 to 5850	Pass		
		10	NV	5745.062	5725 to 5850	Pass		
		30	NV	5745.066	5725 to 5850	Pass		
		40	NV	5745.069	5725 to 5850	Pass		
		50	NV	5745.073	5725 to 5850	Pass		
		5825	20	LV	5785.124	5725 to 5850	Pass	
				NV	5785.115	5725 to 5850	Pass	
				HV	5785.110	5725 to 5850	Pass	
			-30	NV	5785.108	5725 to 5850	Pass	
			-20	NV	5785.106	5725 to 5850	Pass	
			-10	NV	5785.106	5725 to 5850	Pass	
			0	NV	5785.105	5725 to 5850	Pass	
			10	NV	5785.105	5725 to 5850	Pass	
			30	NV	5785.105	5725 to 5850	Pass	
			40	NV	5785.105	5725 to 5850	Pass	
			50	NV	5785.105	5725 to 5850	Pass	
			5825	20	LV	5825.118	5725 to 5850	Pass
					NV	5825.108	5725 to 5850	Pass
					HV	5825.107	5725 to 5850	Pass
	-30	NV		5825.110	5725 to 5850	Pass		
	-20	NV		5825.112	5725 to 5850	Pass		
	-10	NV		5825.115	5725 to 5850	Pass		
	0	NV		5825.119	5725 to 5850	Pass		
	10	NV		5825.122	5725 to 5850	Pass		
	30	NV		5825.124	5725 to 5850	Pass		
	40	NV		5825.127	5725 to 5850	Pass		
	50	NV	5825.129	5725 to 5850	Pass			
	5190	20	LV	5190.092	5150 to 5250	Pass		
			NV	5190.095	5150 to 5250	Pass		
			HV	5189.579	5150 to 5250	Pass		
		-30	NV	5190.094	5150 to 5250	Pass		
		-20	NV	5189.923	5150 to 5250	Pass		
		-10	NV	5189.644	5150 to 5250	Pass		
		0	NV	5190.445	5150 to 5250	Pass		
		10	NV	5189.712	5150 to 5250	Pass		
		30	NV	5189.979	5150 to 5250	Pass		
		40	NV	5190.369	5150 to 5250	Pass		
	50	NV	5190.105	5150 to 5250	Pass			
	5230	20	LV	5230.259	5150 to 5250	Pass		
			NV	5230.378	5150 to 5250	Pass		
			HV	5229.515	5150 to 5250	Pass		
		-30	NV	5230.456	5150 to 5250	Pass		
		-20	NV	5230.223	5150 to 5250	Pass		
-10		NV	5229.533	5150 to 5250	Pass			
0		NV	5229.939	5150 to 5250	Pass			
10		NV	5229.674	5150 to 5250	Pass			



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	5755	30	NV	5230.322	5150 to 5250	Pass
		40	NV	5230.388	5150 to 5250	Pass
		50	NV	5229.877	5150 to 5250	Pass
		20	LV	5755.330	5725 to 5850	Pass
			NV	5755.358	5725 to 5850	Pass
			HV	5755.433	5725 to 5850	Pass
		-30	NV	5755.168	5725 to 5850	Pass
		-20	NV	5755.437	5725 to 5850	Pass
		-10	NV	5755.061	5725 to 5850	Pass
		0	NV	5755.177	5725 to 5850	Pass
		10	NV	5755.049	5725 to 5850	Pass
		30	NV	5754.948	5725 to 5850	Pass
	40	NV	5755.484	5725 to 5850	Pass	
	50	NV	5755.461	5725 to 5850	Pass	
	5795	20	LV	5795.144	5725 to 5850	Pass
			NV	5795.133	5725 to 5850	Pass
			HV	5795.131	5725 to 5850	Pass
		-30	NV	5795.132	5725 to 5850	Pass
		-20	NV	5795.133	5725 to 5850	Pass
		-10	NV	5795.135	5725 to 5850	Pass
		0	NV	5795.138	5725 to 5850	Pass
		10	NV	5795.140	5725 to 5850	Pass
		30	NV	5795.142	5725 to 5850	Pass
		40	NV	5795.143	5725 to 5850	Pass
50		NV	5795.145	5725 to 5850	Pass	

5.2 Ant2

5.2.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	LV	5180.024	5150 to 5250	Pass
				NV	5180.026	5150 to 5250	Pass
				HV	5180.027	5150 to 5250	Pass
			-30	NV	5180.030	5150 to 5250	Pass
			-20	NV	5180.031	5150 to 5250	Pass
			-10	NV	5180.033	5150 to 5250	Pass
			0	NV	5180.035	5150 to 5250	Pass
			10	NV	5180.036	5150 to 5250	Pass
			30	NV	5180.038	5150 to 5250	Pass
			40	NV	5180.040	5150 to 5250	Pass
		50	NV	5180.041	5150 to 5250	Pass	
		5200	20	LV	5200.105	5150 to 5250	Pass
				NV	5200.106	5150 to 5250	Pass



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			HV	5200.107	5150 to 5250	Pass	
		-30	NV	5200.107	5150 to 5250	Pass	
		-20	NV	5200.108	5150 to 5250	Pass	
		-10	NV	5200.109	5150 to 5250	Pass	
		0	NV	5200.109	5150 to 5250	Pass	
		10	NV	5200.110	5150 to 5250	Pass	
		30	NV	5200.111	5150 to 5250	Pass	
		40	NV	5200.112	5150 to 5250	Pass	
		50	NV	5200.113	5150 to 5250	Pass	
	5240	20	LV	5240.097	5150 to 5250	Pass	
			NV	5240.099	5150 to 5250	Pass	
			HV	5240.101	5150 to 5250	Pass	
			-30	NV	5240.103	5150 to 5250	Pass
			-20	NV	5240.106	5150 to 5250	Pass
			-10	NV	5240.107	5150 to 5250	Pass
			0	NV	5240.109	5150 to 5250	Pass
			10	NV	5240.111	5150 to 5250	Pass
			30	NV	5240.112	5150 to 5250	Pass
			40	NV	5240.114	5150 to 5250	Pass
			50	NV	5240.115	5150 to 5250	Pass
		5745	20	LV	5745.084	5725 to 5850	Pass
				NV	5745.085	5725 to 5850	Pass
	HV			5745.086	5725 to 5850	Pass	
			-30	NV	5745.087	5725 to 5850	Pass
			-20	NV	5745.088	5725 to 5850	Pass
			-10	NV	5745.089	5725 to 5850	Pass
			0	NV	5745.091	5725 to 5850	Pass
			10	NV	5745.092	5725 to 5850	Pass
			30	NV	5745.093	5725 to 5850	Pass
			40	NV	5745.094	5725 to 5850	Pass
		50	NV	5745.095	5725 to 5850	Pass	
	5785	20	LV	5785.105	5725 to 5850	Pass	
			NV	5785.106	5725 to 5850	Pass	
			HV	5785.107	5725 to 5850	Pass	
			-30	NV	5785.108	5725 to 5850	Pass
			-20	NV	5785.109	5725 to 5850	Pass
			-10	NV	5785.110	5725 to 5850	Pass
			0	NV	5785.111	5725 to 5850	Pass
			10	NV	5785.112	5725 to 5850	Pass
			30	NV	5785.112	5725 to 5850	Pass
			40	NV	5785.113	5725 to 5850	Pass
		50	NV	5785.114	5725 to 5850	Pass	
	5825	20	LV	5825.134	5725 to 5850	Pass	
			NV	5825.135	5725 to 5850	Pass	
			HV	5825.136	5725 to 5850	Pass	
			-30	NV	5825.137	5725 to 5850	Pass
			-20	NV	5825.137	5725 to 5850	Pass
			-10	NV	5825.138	5725 to 5850	Pass



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MIMO		0	NV	5825.138	5725 to 5850	Pass	
		10	NV	5825.138	5725 to 5850	Pass	
		30	NV	5825.139	5725 to 5850	Pass	
		40	NV	5825.139	5725 to 5850	Pass	
		50	NV	5825.140	5725 to 5850	Pass	
	5190	20	LV	5190.104	5150 to 5250	Pass	
			NV	5190.034	5150 to 5250	Pass	
			HV	5190.498	5150 to 5250	Pass	
		-30	NV	5190.024	5150 to 5250	Pass	
		-20	NV	5190.074	5150 to 5250	Pass	
		-10	NV	5190.381	5150 to 5250	Pass	
		0	NV	5190.115	5150 to 5250	Pass	
		10	NV	5189.649	5150 to 5250	Pass	
		30	NV	5190.120	5150 to 5250	Pass	
		40	NV	5189.566	5150 to 5250	Pass	
		50	NV	5190.031	5150 to 5250	Pass	
		5230	20	LV	5230.095	5150 to 5250	Pass
				NV	5230.467	5150 to 5250	Pass
				HV	5229.739	5150 to 5250	Pass
	-30		NV	5229.528	5150 to 5250	Pass	
	-20		NV	5230.439	5150 to 5250	Pass	
	-10		NV	5230.399	5150 to 5250	Pass	
	0		NV	5230.364	5150 to 5250	Pass	
	10		NV	5229.921	5150 to 5250	Pass	
	30		NV	5230.487	5150 to 5250	Pass	
	40		NV	5229.680	5150 to 5250	Pass	
	50	NV	5230.216	5150 to 5250	Pass		
	5755	20	LV	5755.368	5725 to 5850	Pass	
			NV	5755.329	5725 to 5850	Pass	
			HV	5754.758	5725 to 5850	Pass	
		-30	NV	5755.351	5725 to 5850	Pass	
		-20	NV	5755.121	5725 to 5850	Pass	
		-10	NV	5755.350	5725 to 5850	Pass	
		0	NV	5755.453	5725 to 5850	Pass	
		10	NV	5754.851	5725 to 5850	Pass	
		30	NV	5755.353	5725 to 5850	Pass	
		40	NV	5755.389	5725 to 5850	Pass	
	50	NV	5755.498	5725 to 5850	Pass		
	5795	20	LV	5795.147	5725 to 5850	Pass	
			NV	5795.148	5725 to 5850	Pass	
			HV	5795.149	5725 to 5850	Pass	
		-30	NV	5795.149	5725 to 5850	Pass	
		-20	NV	5795.149	5725 to 5850	Pass	
		-10	NV	5795.150	5725 to 5850	Pass	
0		NV	5795.150	5725 to 5850	Pass		
10		NV	5795.150	5725 to 5850	Pass		
30		NV	5795.151	5725 to 5850	Pass		
40		NV	5795.151	5725 to 5850	Pass		



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			50	NV	5795.152	5725 to 5850	Pass
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