

TEST REPORT

Application No.: SZCR2403000767WM
Applicant: Sonim Technologies, Inc.
Address of Applicant: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer: Sonim Technologies, Inc.
Address of Manufacturer: 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Equipment Under Test (EUT):
EUT Name: smartphone
Model No.: X800
Type No.: S6002
Trade Mark: Sonim
FCC ID: WYPS6002
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2024-03-07
Date of Test: 2024-03-28 to 2024-07-23
Date of Issue: 2024-08-09

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



Keny Xu
EMC Laboratory Manager



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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-08-09		Original

Authorized for issue by:				
		Calvin Weng		
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		Eric Fu		
		Eric Fu/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		ANSI C63.10 (2013) SECTION 12.2	ANSI C63.10 (2013) SECTION 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Power spectral density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
In-Band Emissions		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Contention-based Protocol		KDB 987594 D02	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

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4 General Information

4.1 Details of E.U.T.

EUT Description:	smartphone
Model No.:	X800
Trade Mark:	Sonim
Power Supply:	DC3.87V by Li-ion battery(5000mAh) Recharged by AC/DC power adapter Adapter M/N:1-CHUSQ302-097 Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD Adapter output: 5V/3A,9V/2A,12V/1.5A Battery M/N:BAT-05000-21S Battery Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd..
IEEE 802.11 WLAN Mode Supported:	☒ 802.11ax (20 MHz channel bandwidth) ☒ 802.11ax (40 MHz channel bandwidth) ☒ 802.11ax (80 MHz channel bandwidth) ☒ 802.11ax (160 MHz channel bandwidth)
Operation Frequency:	IEEE 802.11 ax(HE20/40/80/160): 5925 MHz ~ 6425 MHz IEEE 802.11 ax(HE20/40/80/160): 6425 MHz ~ 6525 MHz IEEE 802.11 ax(HE20/40/80/160): 6525 MHz ~ 6875 MHz IEEE 802.11 ax(HE20/40/80/160): 6875 MHz ~ 7125 MHz
Type of Modulation:	OFDMA
FCC Classification:	6GHz Low Power Indoor Client (6XD)
Antenna Type:	PIFA Antenna
Antenna Ports:	☒ Ant 9, ☒ Ant 10
Antenna Gain:	ANT9:UNII-5:-2.37dBi; UNII-6:-0.84dBi; UNII-7:-0.64dBi; UNII-8:-3.8dBi; ANT10:UNII-5:0.14dBi; UNII-6:-1.21dBi; UNII-7:-1.63dBi; UNII-8:0.44 dBi; Note: The antenna gain are derived from the gain information report provided by the manufacturer.
Cable Loss (for RF conducted test):	1.5dB

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
In-Band Emissions	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Maximum Power spectral density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Contention-based Protocol	$\pm 3\%$
Frequency Stability	$\pm 7.25 \times 10^{-8}$



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4.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13



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Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

In-Band Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Maximum Power spectral density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06

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				2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated Emissions (Below 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	HTC-1	1	SZ-WRG-M-022	2024-02-16	2025-02-15

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum	Rohde & Schwarz	FSV	SZ-WRG-M-	2024-01-30	2025-01-29



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Analyzer			048		
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity/ Temperature Indicator	HTC-1	1	SZ-WRG-M-022	2024-02-16	2025-02-15

Contention-based Protocol

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022/5/14	2025/5/13
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2024/3/27	2025/3/26
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2024/3/14	2025/3/13
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2024/3/14	2025/3/13
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2023/9/19	2024/9/18
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2024/3/19	2025/3/18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024/3/27	2025/3/26
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2024/3/27	2025/3/26
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2024/3/27	2025/3/26
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05



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Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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

15.203 requirement:

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

EUT Antenna:

The antenna is PIFA Antenna and no consideration of replacement.

The best case gain of the antenna is

ANT9:UNII-5:-2.37dBi; UNII-6:-0.84dBi; UNII-7:-0.64dBi; UNII-8:-3.8dBi;

ANT10:UNII-5:0.14dBi; UNII-6:-1.21dBi; UNII-7:-1.63dBi; UNII-8:0.44 dBi;

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 $Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.
- For power measurements on IEEE 802.11 devices:
 $Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have the same gain:

Operation Frequency	ANT Gain9 (dBi)	ANT Gain10 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)
5925 MHz to 6425 MHz	-2.37	0.14	0.14	3.15
6425 MHz to 6525 MHz	-0.84	-1.21	1.21	4.22
6525 MHz to 6875 MHz	-0.64	-1.63	-0.64	2.37
6875 MHz to 7125 MHz	-3.8	0.44	0.44	3.45

5925 MHz to 6425 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

6425 MHz to 6525 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

6525 MHz to 6875 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

6875 MHz to 7125 MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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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

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: 23.4 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



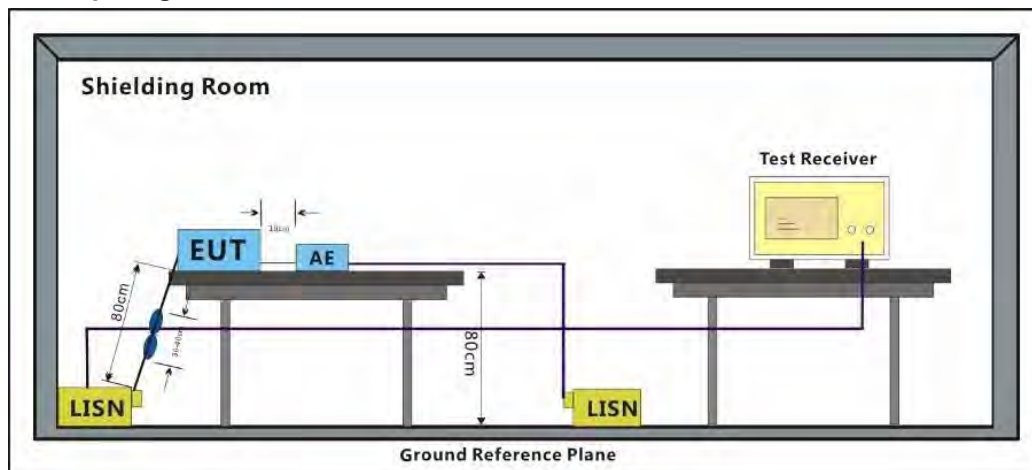
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 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



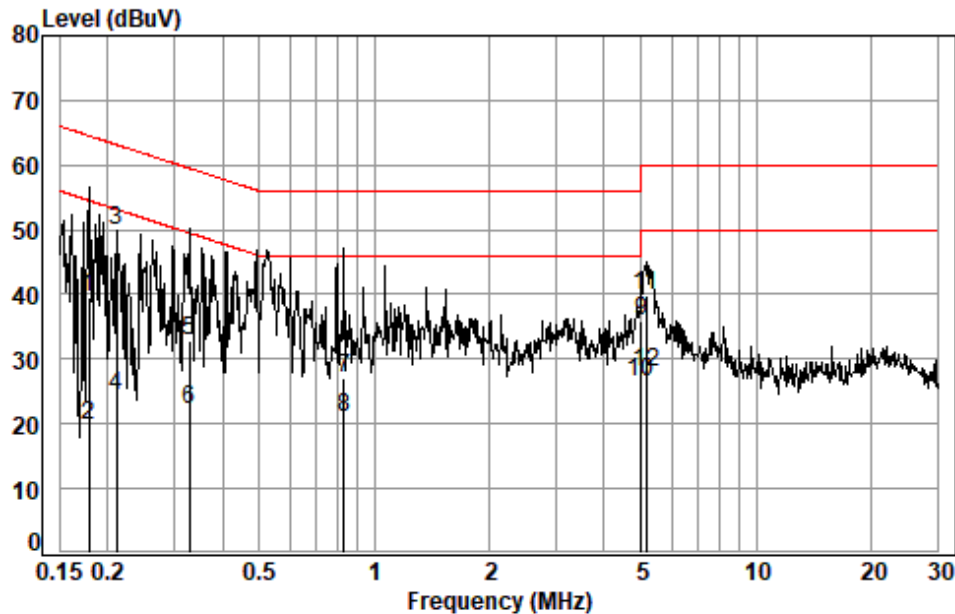
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Test Mode: 21; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00767WM

Test mode: 21

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1787	0.02	9.91	29.75	39.68	64.55	-24.87	QP
2	0.1787	0.02	9.91	9.84	19.77	54.55	-34.78	Average
3 *	0.2117	0.02	9.94	39.78	49.74	63.14	-13.40	QP
4	0.2117	0.02	9.94	14.41	24.37	53.14	-28.77	Average
5	0.3286	0.03	10.02	22.93	32.98	59.49	-26.51	QP
6	0.3286	0.03	10.02	12.22	22.27	49.49	-27.22	Average
7	0.8349	0.05	10.03	16.96	27.04	56.00	-28.96	QP
8	0.8349	0.05	10.03	10.85	20.93	46.00	-25.07	Average
9	5.0046	0.09	10.04	25.68	35.81	60.00	-24.19	QP
10	5.0046	0.09	10.04	16.19	26.32	50.00	-23.68	Average
11	5.1663	0.09	10.04	29.85	39.98	60.00	-20.02	QP
12 *	5.1663	0.09	10.04	17.81	27.94	50.00	-22.06	Average



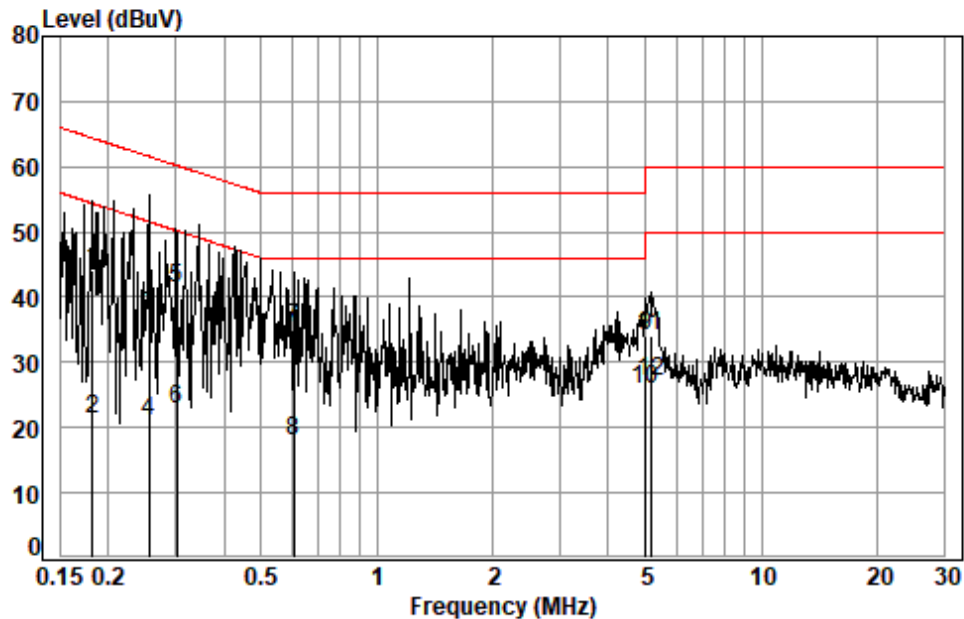
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Test Mode: 21; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00767WM

Test mode: 21

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1825	0.02	9.91	34.24	44.17	64.37	-20.20	QP
2	0.1825	0.02	9.91	11.32	21.25	54.37	-33.12	Average
3	0.2548	0.03	9.91	27.03	36.97	61.60	-24.63	QP
4	0.2548	0.03	9.91	11.03	20.97	51.60	-30.63	Average
5 *	0.3019	0.03	9.91	31.42	41.36	60.19	-18.83	QP
6	0.3019	0.03	9.91	12.96	22.90	50.19	-27.29	Average
7	0.6075	0.04	9.98	25.36	35.38	56.00	-20.62	QP
8	0.6075	0.04	9.98	7.80	17.82	46.00	-28.18	Average
9	5.0046	0.09	10.01	23.90	34.00	60.00	-26.00	QP
10	5.0046	0.09	10.01	15.78	25.88	50.00	-24.12	Average
11	5.1390	0.09	10.02	24.08	34.19	60.00	-25.81	QP
12 *	5.1390	0.09	10.02	16.94	27.05	50.00	-22.95	Average



7.2 Duty Cycle

Test Requirement ANSI C63.10 (2013) SECTION 12.2

Test Method: ANSI C63.10 (2013) SECTION 12.2

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



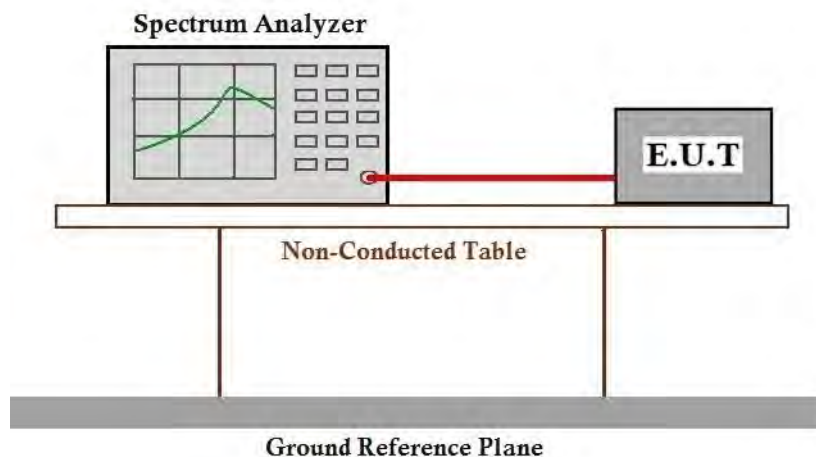
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7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

Limit:

The maximum transmitter channel bandwidth for U-NII devices in the 5.925–7.125 GHz band is 320MHz.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



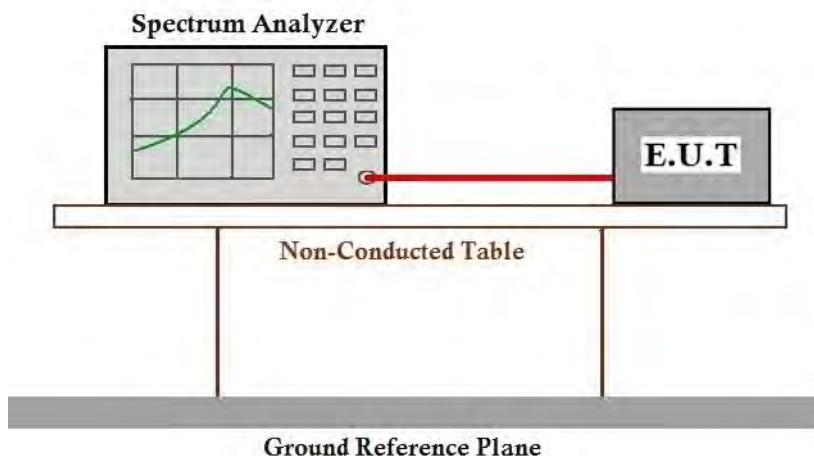
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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.4 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



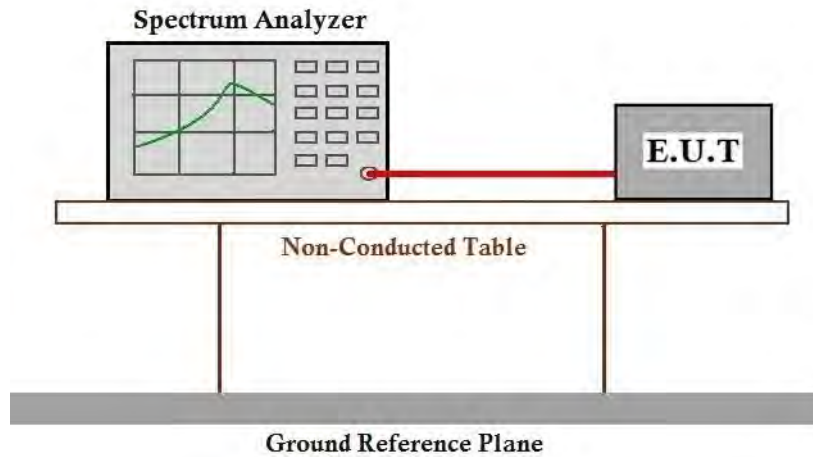
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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

Device Type	EIRP Limit	EIRP PSD Limit
Client Device	≤24 dBm	≤-1dBm/MHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

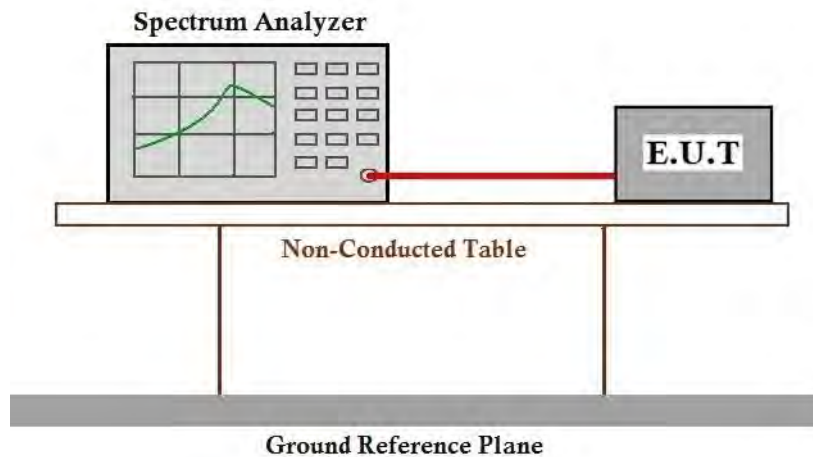
Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, 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 Power spectral density

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Device Type	EIRP Limit	EIRP PSD Limit
Client Device	≤24 dBm	≤-1dBm/MHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

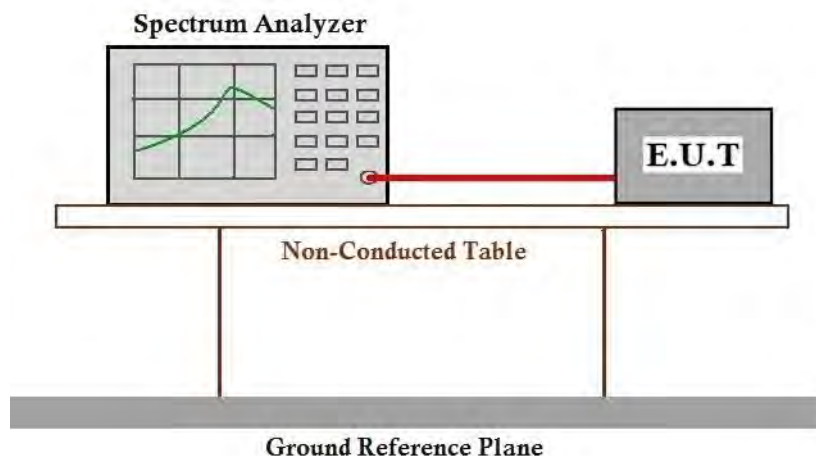
Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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7.7 In-Band Emissions

Test Requirement 47 CFR Part 15, Subpart E 15.407 (b)(7)

Test Method: KDB 987594 D02

Limit:

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



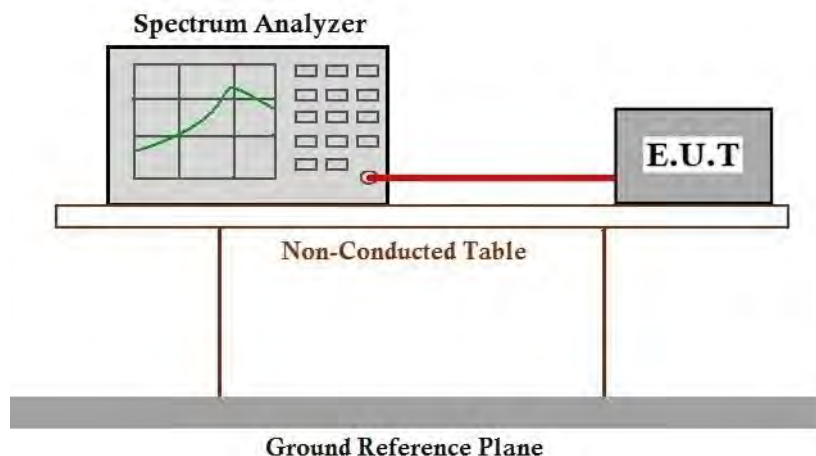
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 49.5 % RH

Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

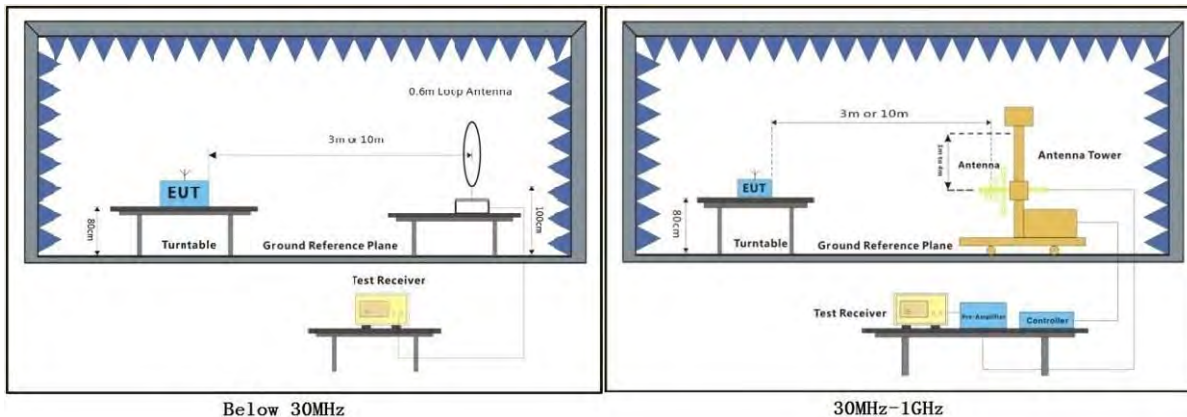
Pre-scan / Final test	Mode Code	Description
Pre-scan	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Pre-scan	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 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.
- 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.
- 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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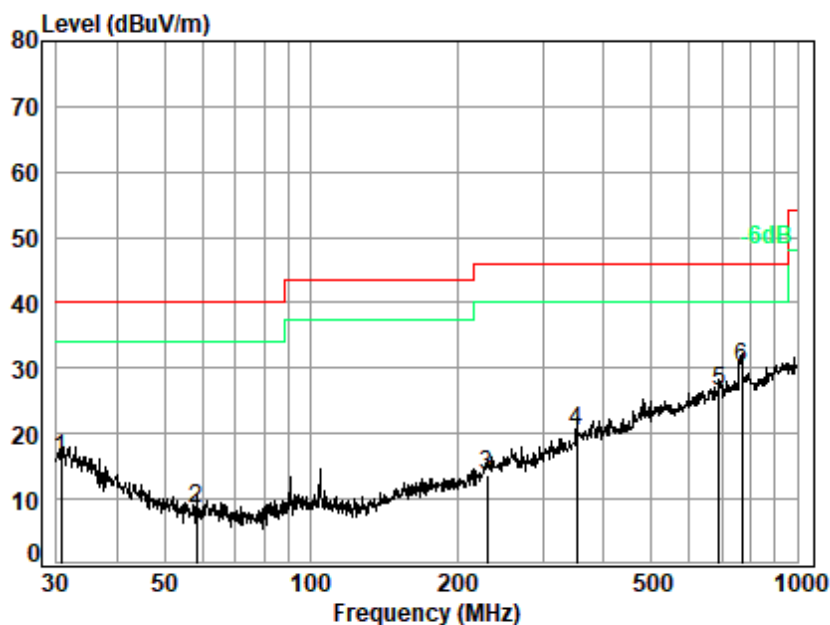
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Test Mode: 19; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00767WM
Test Mode: 19

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.64	20.90	0.65	27.79	22.30	16.06	40.00	-23.94 QP
2	58.20	11.67	0.90	27.71	23.81	8.67	40.00	-31.33 QP
3	230.10	16.46	1.86	27.04	22.46	13.74	46.00	-32.26 QP
4	351.71	19.97	2.37	26.96	25.01	20.39	46.00	-25.61 QP
5	691.99	25.74	3.49	27.74	24.89	26.38	46.00	-19.62 QP
6 q	768.75	26.68	3.73	27.56	27.37	30.22	46.00	-15.78 QP



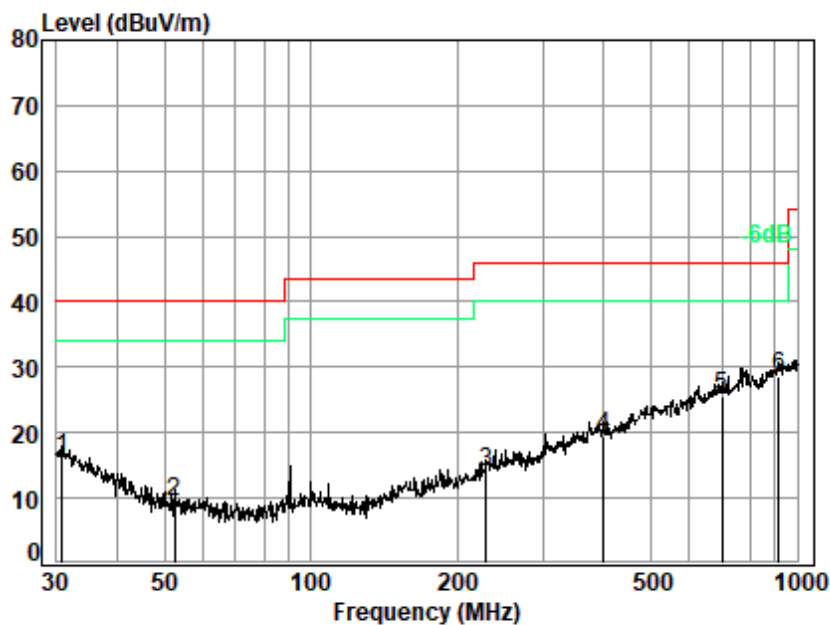
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Test Mode: 19; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00767WM
Test Mode: 19

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.75	20.86	0.65	27.79	22.27	15.99	40.00 -24.01 QP
2	52.39	12.39	0.85	27.73	23.80	9.31	40.00 -30.69 QP
3	229.29	16.35	1.86	27.05	22.70	13.86	46.00 -32.14 QP
4	399.03	20.63	2.55	27.15	23.47	19.50	46.00 -26.50 QP
5	699.30	25.93	3.51	27.73	23.89	25.60	46.00 -20.40 QP
6 q	916.07	28.06	4.13	26.65	23.11	28.65	46.00 -17.35 QP



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SZEMC-TRF-01 Rev. A/1

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7.9 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
1. Any emission outside the 5925-7125 MHz frequency band shall not exceed -27 dBm/MHz e.i.r.p. spectral density 2. For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.		

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 18.8 °C

Humidity: 31.0 % RH

Atmospheric Pressure: 1000 mbar



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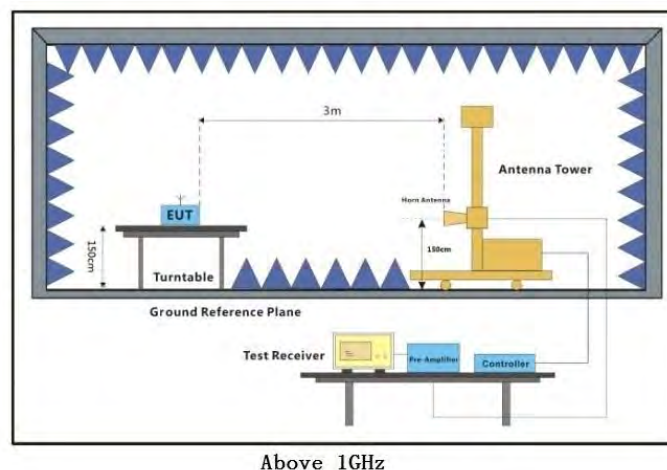
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, 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 above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

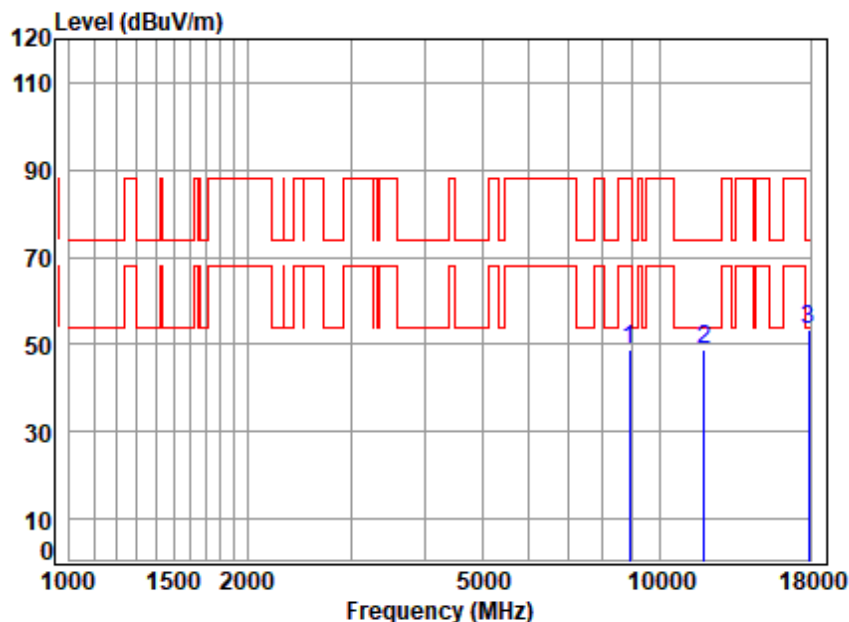
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from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



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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5955 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8903.855	12.59	38.59	55.09	52.71	48.80	88.20	-39.40	peak
2 11910.000	14.62	39.71	53.77	48.28	48.84	74.00	-25.16	peak
3 pp17865.000	19.21	42.89	54.47	45.61	53.24	74.00	-20.76	peak



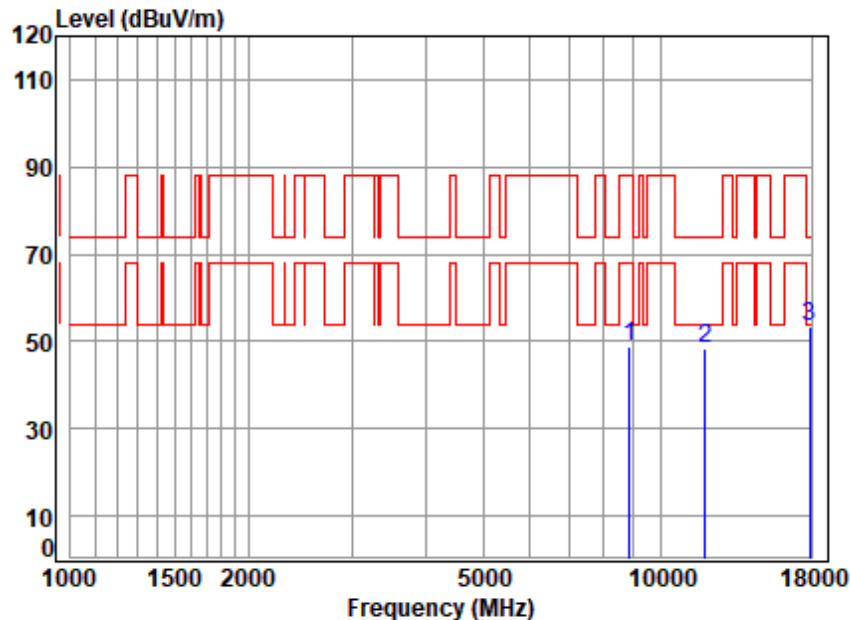
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5955 TX RSE

: WIFI 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8853.455	12.53	38.51	55.13	52.91	48.82	88.20	-39.38	peak
2	11910.000	14.62	39.71	53.77	47.92	48.48	74.00	-25.52	peak
3	pp17865.000	19.21	42.89	54.47	45.70	53.33	74.00	-20.67	peak

Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

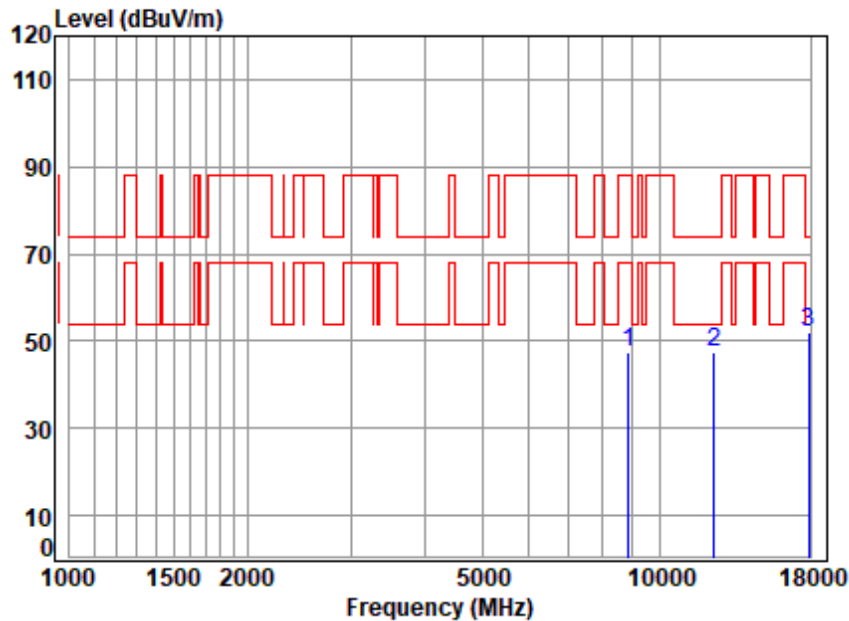


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Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6175 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8841.090	12.51	38.50	55.14	51.59	47.46	88.20	-40.74	peak
2 12350.000	14.81	39.85	54.04	46.66	47.28	74.00	-26.72	peak
3 pp17872.120	19.22	42.93	54.47	44.55	52.23	74.00	-21.77	peak



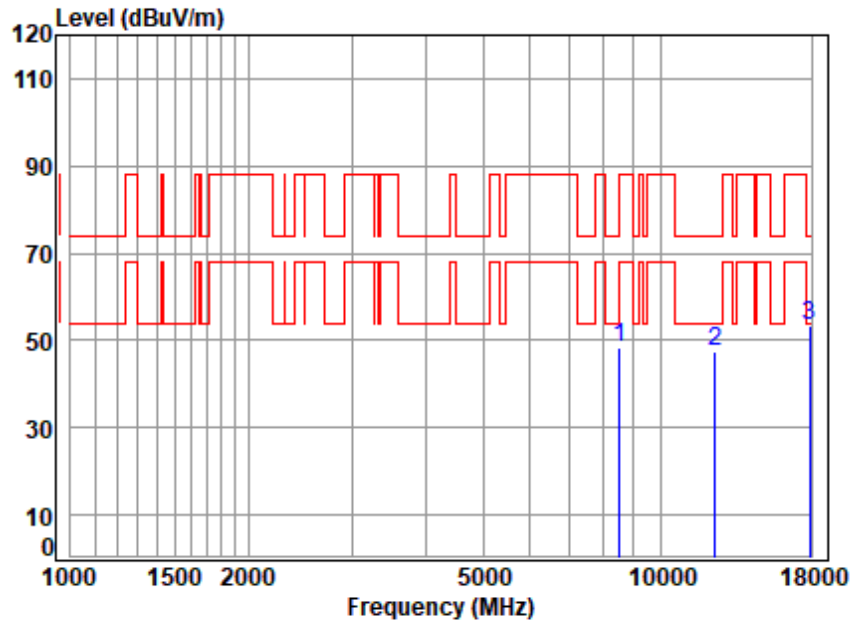
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6175 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8505.428	12.73	38.30	55.45	52.90	48.48	88.20	-39.72 peak
2 12350.000	14.81	39.85	54.04	46.97	47.59	74.00	-26.41 peak
3 pp17872.120	19.22	42.93	54.47	45.86	53.54	74.00	-20.46 peak



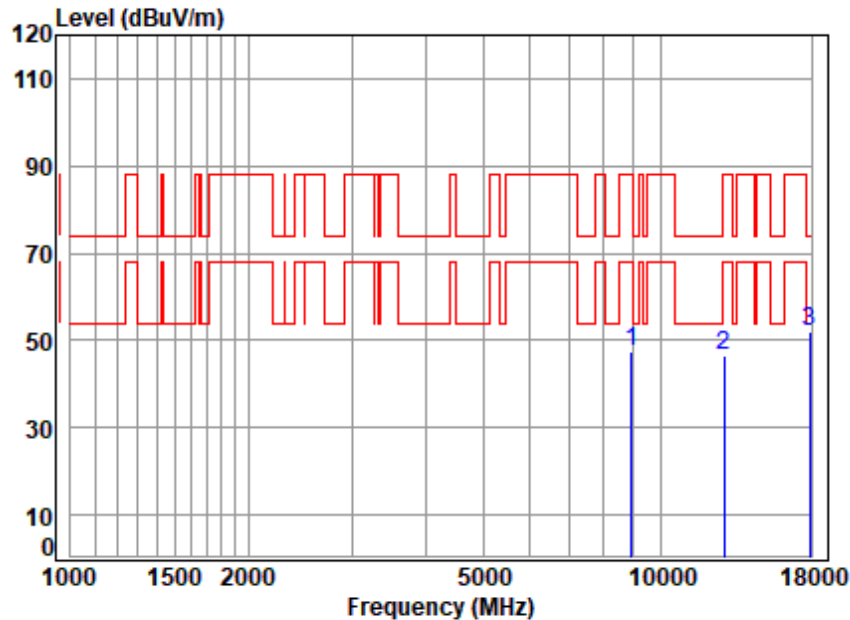
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6415 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8913.427	12.57	38.57	55.08	51.42	47.48	88.20	-40.72	peak
2 12830.000	15.28	40.33	54.38	45.28	46.51	88.20	-41.69	peak
3 pp17872.120	19.22	42.93	54.47	44.15	51.83	74.00	-22.17	peak



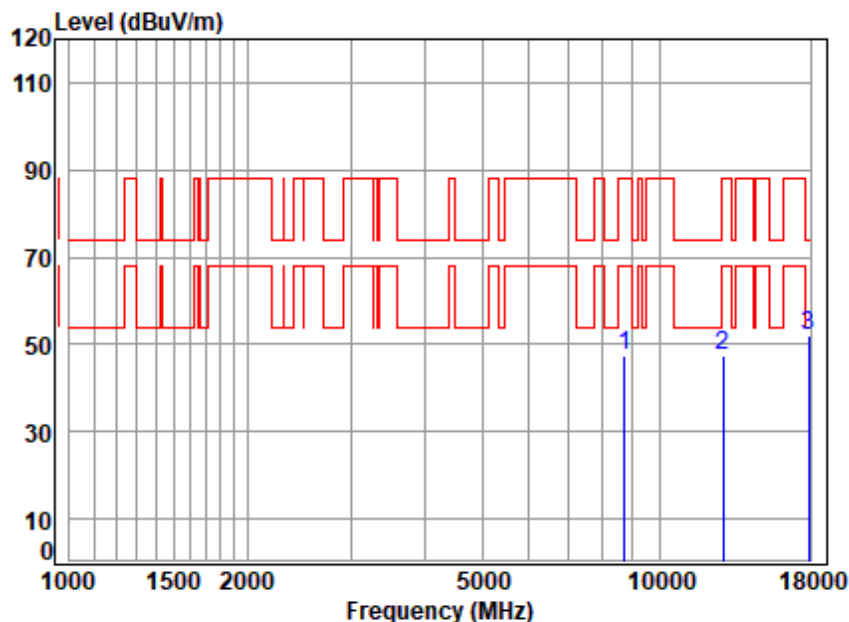
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6415 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8724.793	12.45	38.55	55.25	51.86	47.61	88.20	-40.59 peak
2 12830.000	15.28	40.33	54.38	46.26	47.49	88.20	-40.71 peak
3 pp17872.120	19.22	42.93	54.47	44.48	52.16	74.00	-21.84 peak



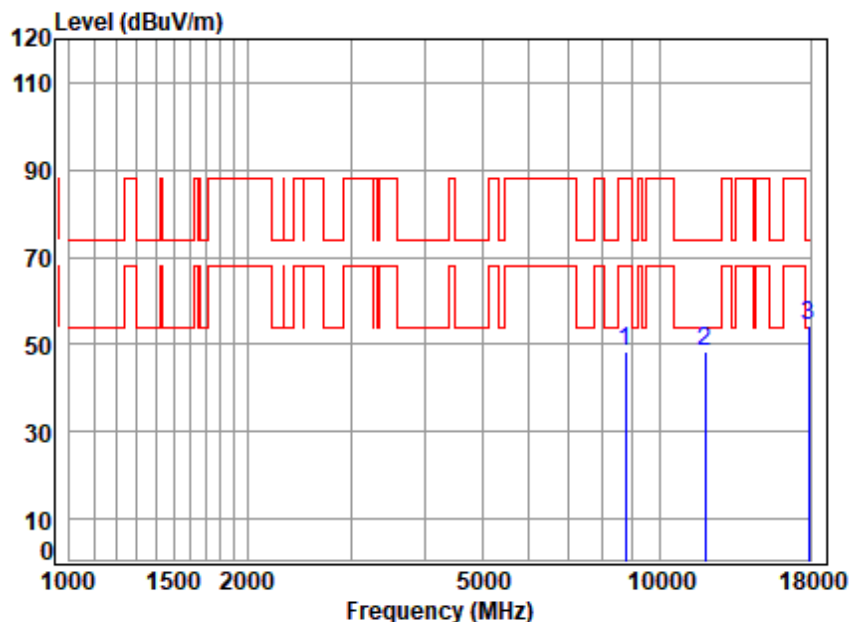
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5965 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8760.611	12.45	38.50	55.22	52.46	48.19	88.20	-40.01	peak
2 11930.000	14.57	39.73	53.78	47.75	48.27	74.00	-25.73	peak
3 pp17895.000	19.25	43.07	54.48	46.27	54.11	74.00	-19.89	peak



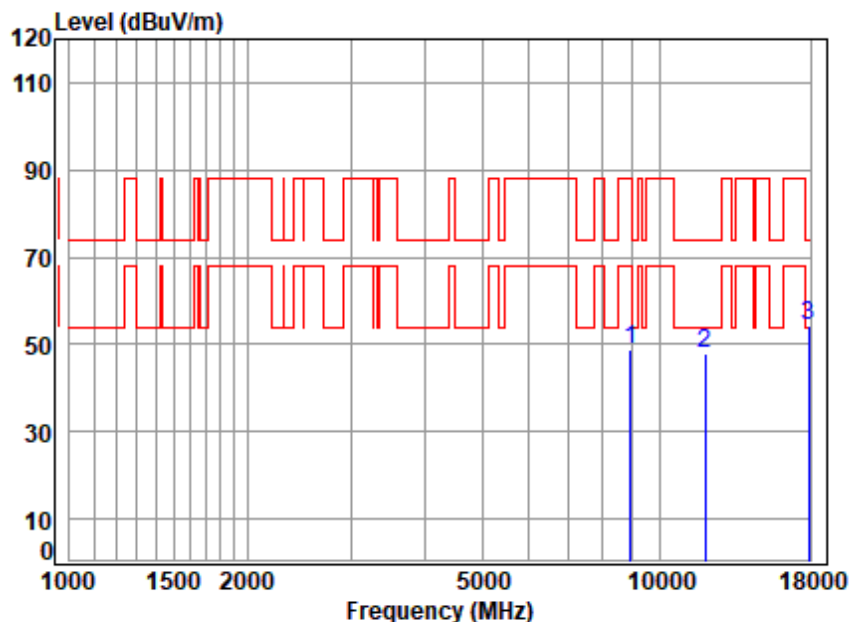
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5695 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8918.308	12.56	38.56	55.07	52.78	48.83	88.20	-39.37 peak
2 11930.000	14.57	39.73	53.78	47.50	48.02	74.00	-25.98 peak
3 pp17895.000	19.25	43.07	54.48	46.63	54.47	74.00	-19.53 peak



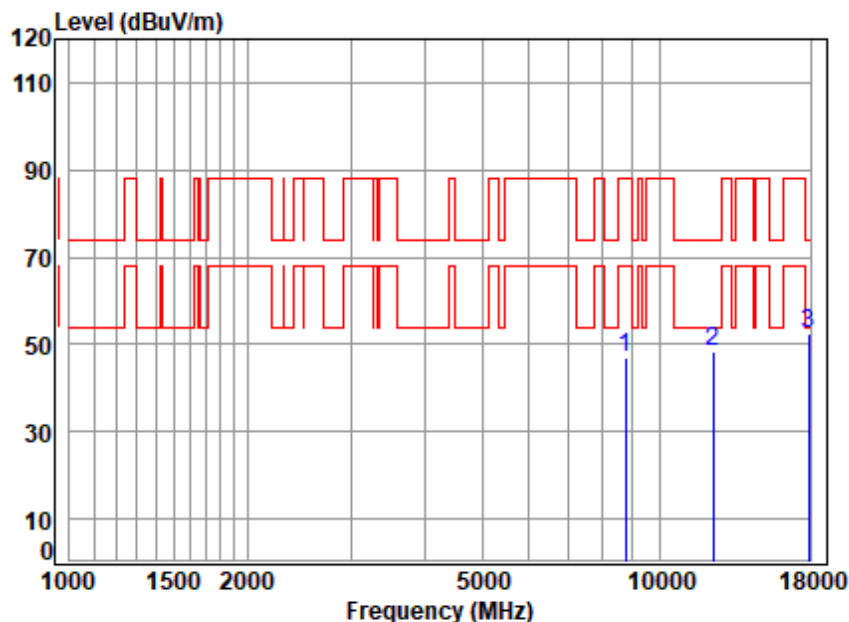
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6165 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8746.415	12.45	38.51	55.23	51.28	47.01	88.20	-41.19 peak
2 12330.000	14.81	39.83	54.03	47.71	48.32	74.00	-25.68 peak
3 pp17869.110	19.22	42.91	54.47	44.68	52.34	74.00	-21.66 peak



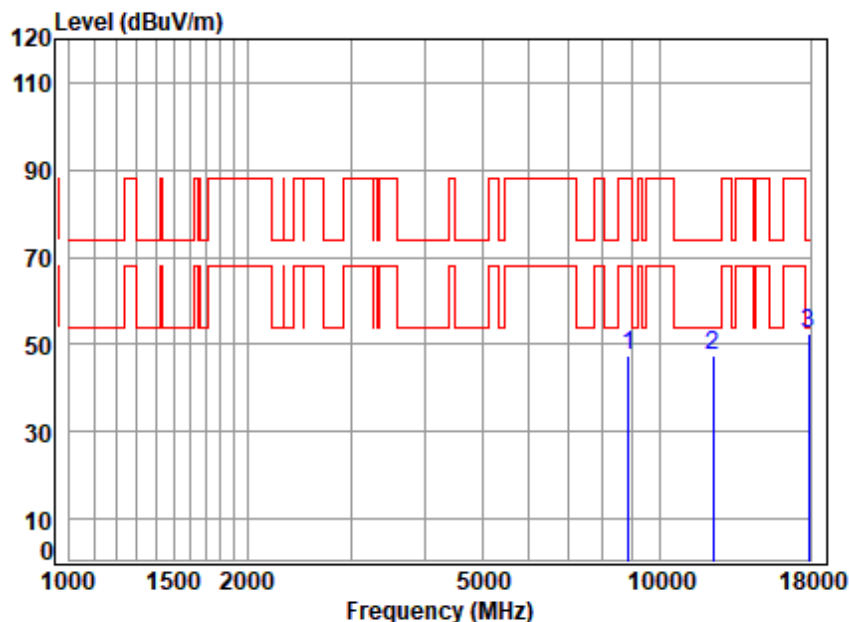
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6165 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8867.826	12.55	38.54	55.12	51.54	47.51	88.20 -40.69 peak
2	12330.000	14.81	39.83	54.03	46.99	47.60	74.00 -26.40 peak
3	pp17869.110	19.22	42.91	54.47	44.84	52.50	74.00 -21.50 peak



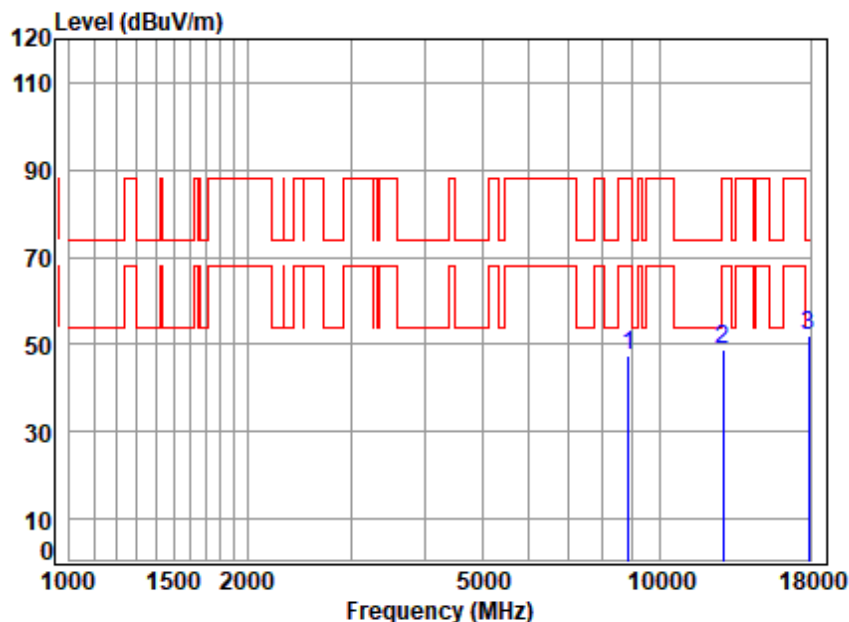
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6405 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8860.638	12.54	38.52	55.13	51.34	47.27	88.20	-40.93 peak
2 12810.000	15.26	40.31	54.37	47.72	48.92	88.20	-39.28 peak
3 pp17869.110	19.22	42.91	54.47	44.28	51.94	74.00	-22.06 peak



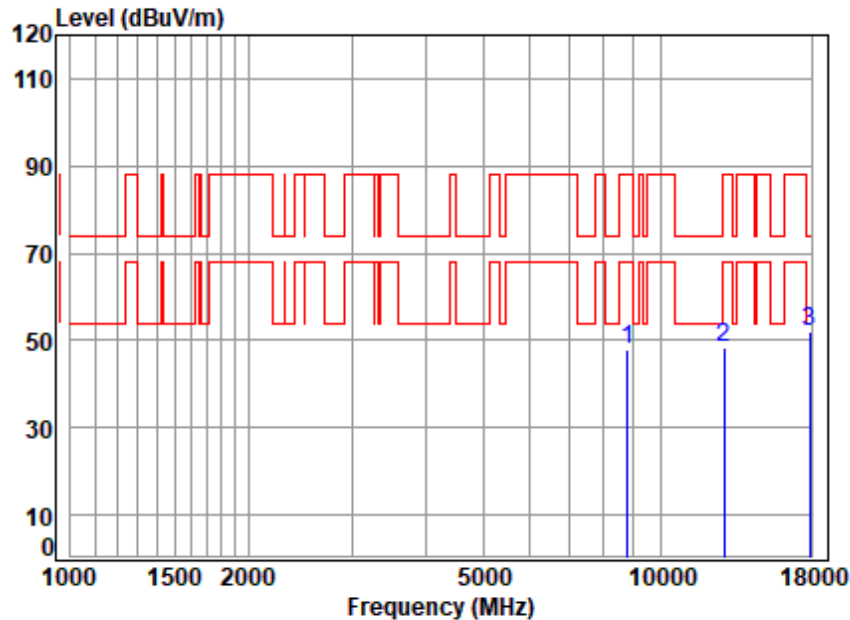
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6405 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8803.341	12.46	38.50	55.18	52.01	47.79	88.20	-40.41 peak
2 12810.000	15.26	40.31	54.37	47.31	48.51	88.20	-39.69 peak
3 pp17869.110	19.22	42.91	54.47	44.56	52.22	74.00	-21.78 peak



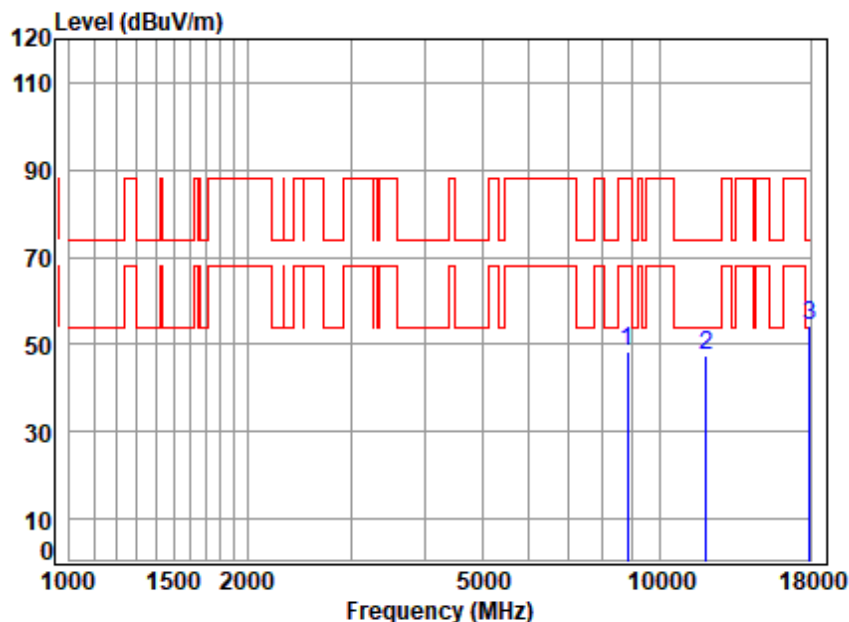
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5985 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8839.108	12.51	38.50	55.14	52.68	48.55	88.20	-39.65	peak
2 11970.000	14.49	39.77	53.79	47.18	47.65	74.00	-26.35	peak
3 pp17955.000	18.91	43.49	54.49	46.50	54.41	74.00	-19.59	peak



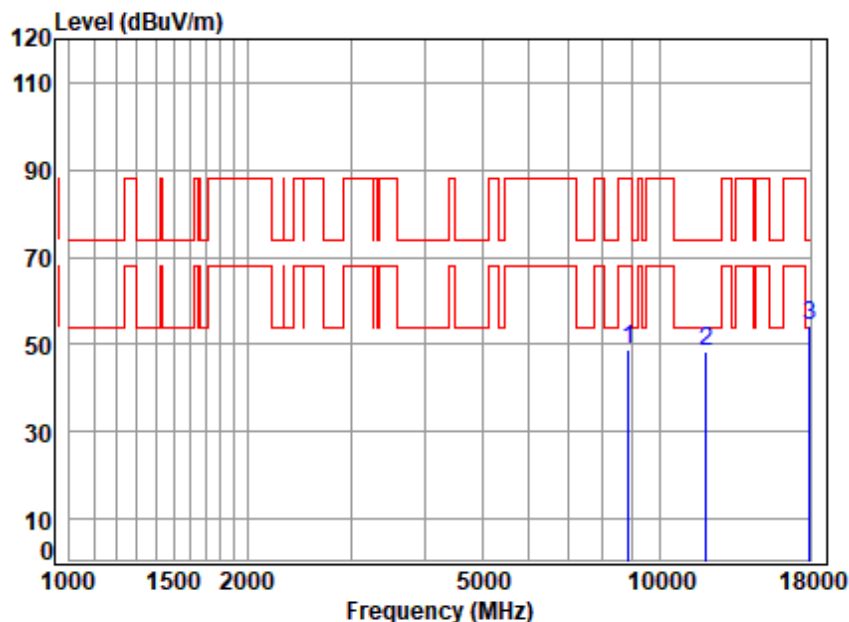
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5985 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8853.455	12.53	38.51	55.13	52.86	48.77	88.20	-39.43	peak
2 11970.000	14.49	39.77	53.79	47.94	48.41	74.00	-25.59	peak
3 pp17955.000	18.91	43.49	54.49	46.43	54.34	74.00	-19.66	peak



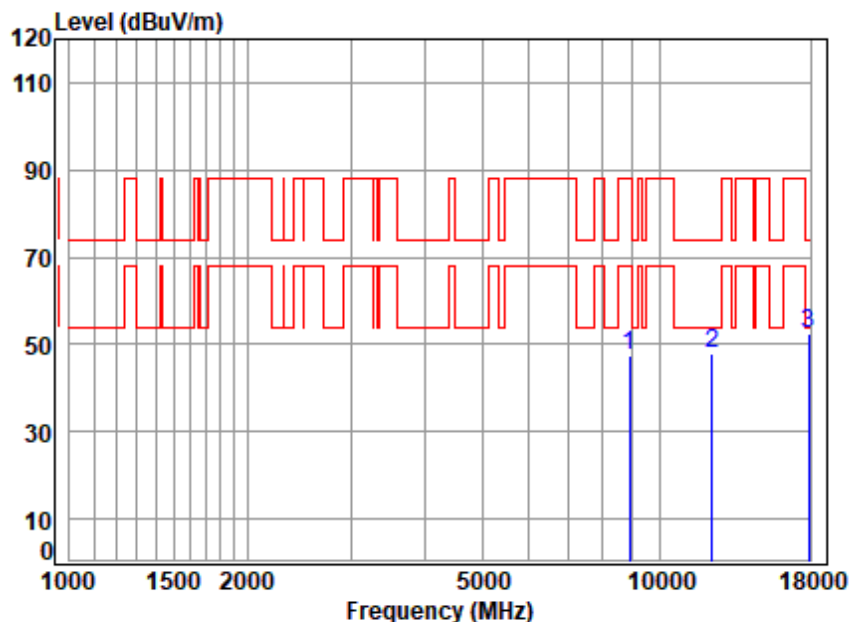
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6145 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8903.855	12.59	38.59	55.09	51.29	47.38	88.20	-40.82 peak
2 12290.000	14.78	39.81	54.00	47.31	47.90	74.00	-26.10 peak
3 pp17869.110	19.22	42.91	54.47	44.75	52.41	74.00	-21.59 peak



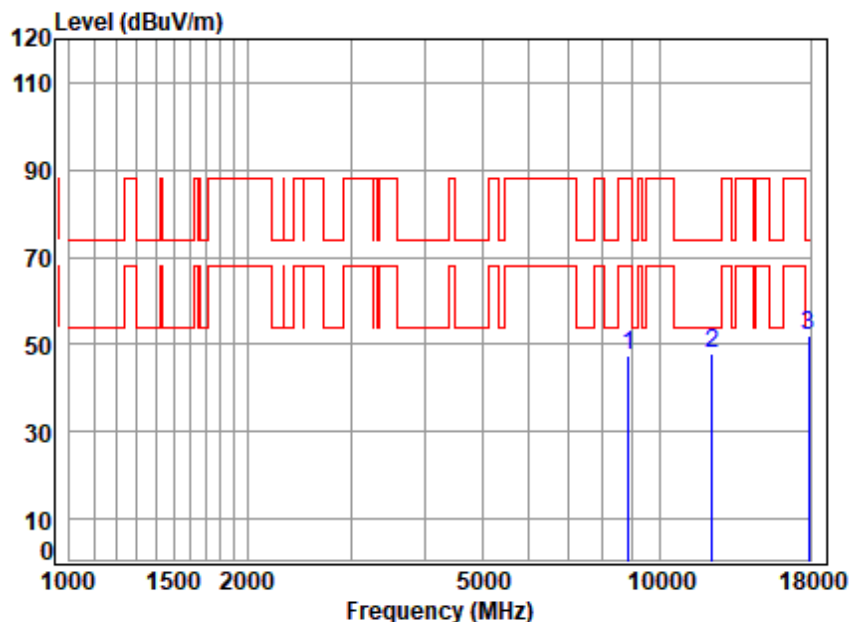
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6145 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8867.826	12.55	38.54	55.12	51.43	47.40	88.20	-40.80 peak
2	12290.000	14.78	39.81	54.00	47.25	47.84	74.00	-26.16 peak
3	pp17869.110	19.22	42.91	54.47	44.27	51.93	74.00	-22.07 peak



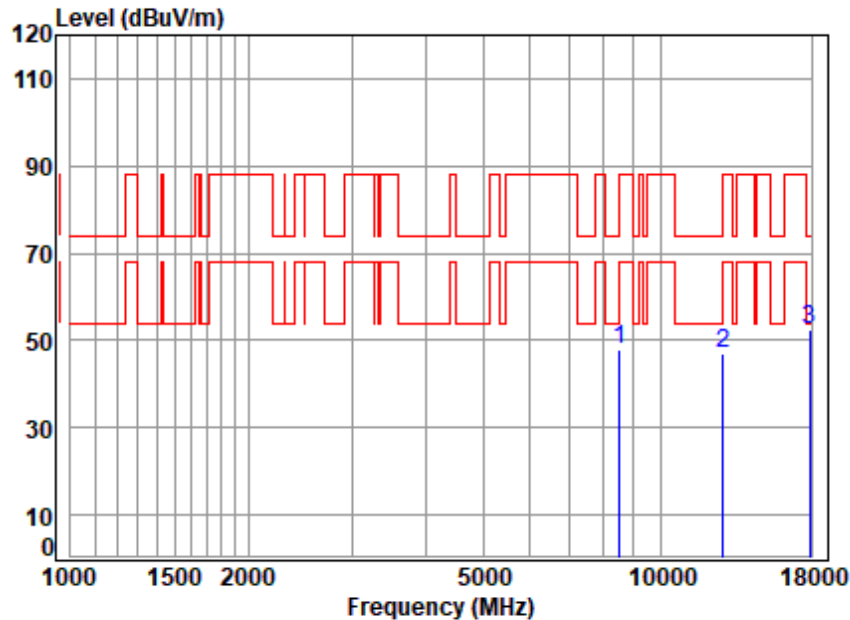
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6385 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8508.556	12.71	38.30	55.44	52.36	47.93	88.20	-40.27 peak
2 12770.000	15.18	40.27	54.34	45.92	47.03	88.20	-41.17 peak
3 pp17869.110	19.22	42.91	54.47	44.76	52.42	74.00	-21.58 peak



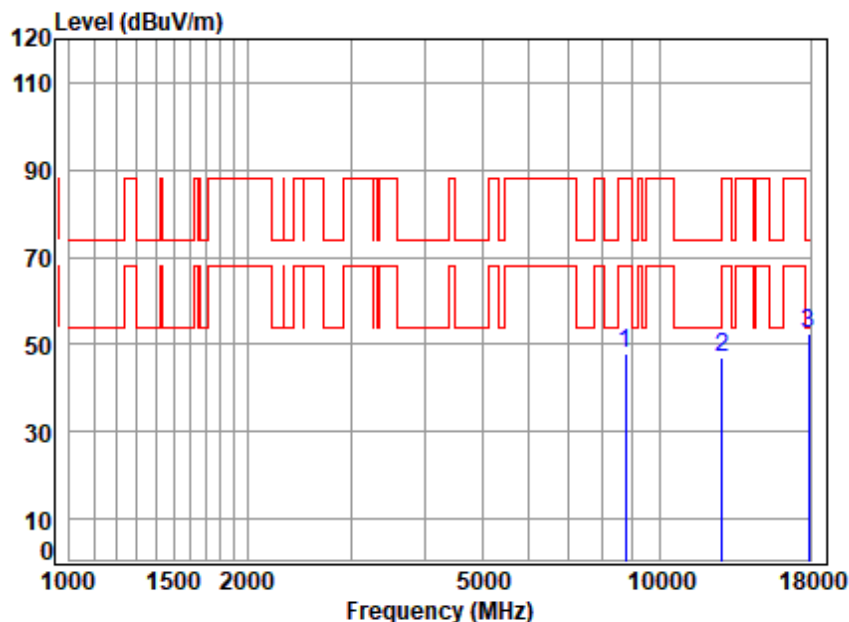
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6385 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8760.611	12.45	38.50	55.22	52.09	47.82	88.20	-40.38	peak
2 12770.000	15.18	40.27	54.34	46.04	47.15	88.20	-41.05	peak
3 pp17869.110	19.22	42.91	54.47	44.60	52.26	74.00	-21.74	peak



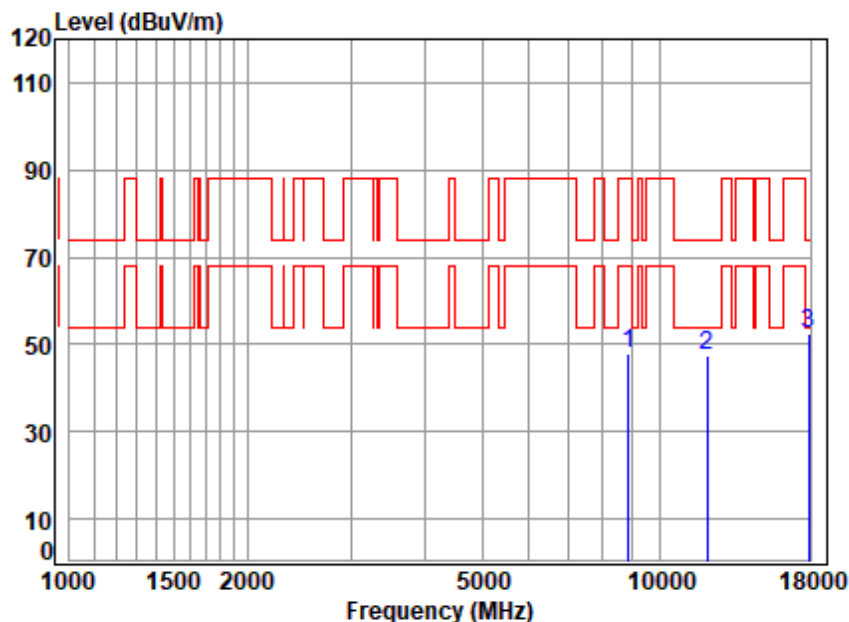
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6025 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8853.455	12.53	38.51	55.13	52.17	48.08	88.20	-40.12 peak
2 12050.000	14.49	39.75	53.83	47.21	47.62	74.00	-26.38 peak
3 pp17869.110	19.22	42.91	54.47	45.04	52.70	74.00	-21.30 peak



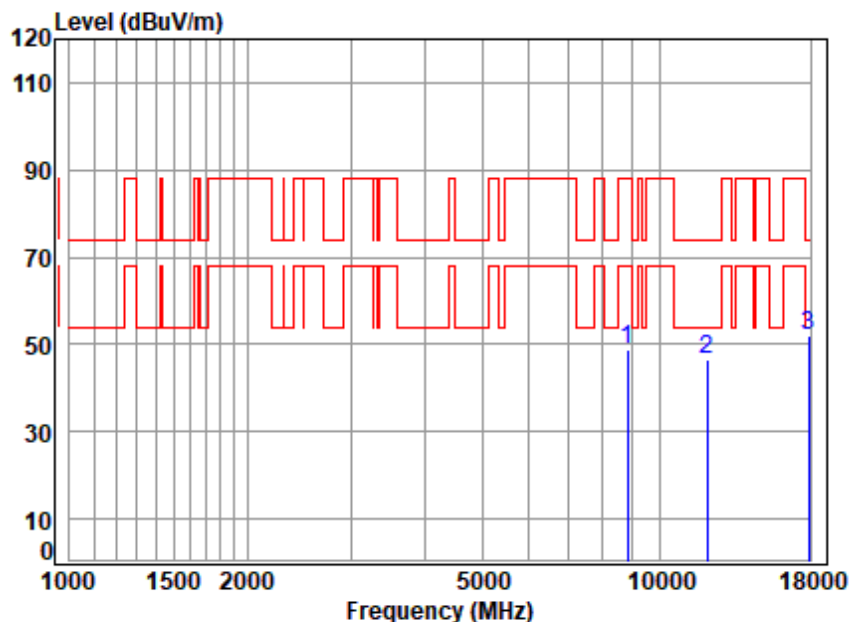
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6025 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8831.943	12.50	38.50	55.15	53.00	48.85	88.20	-39.35 peak
2	12050.000	14.49	39.75	53.83	46.00	46.41	74.00	-27.59 peak
3	pp17869.110	19.22	42.91	54.47	44.42	52.08	74.00	-21.92 peak



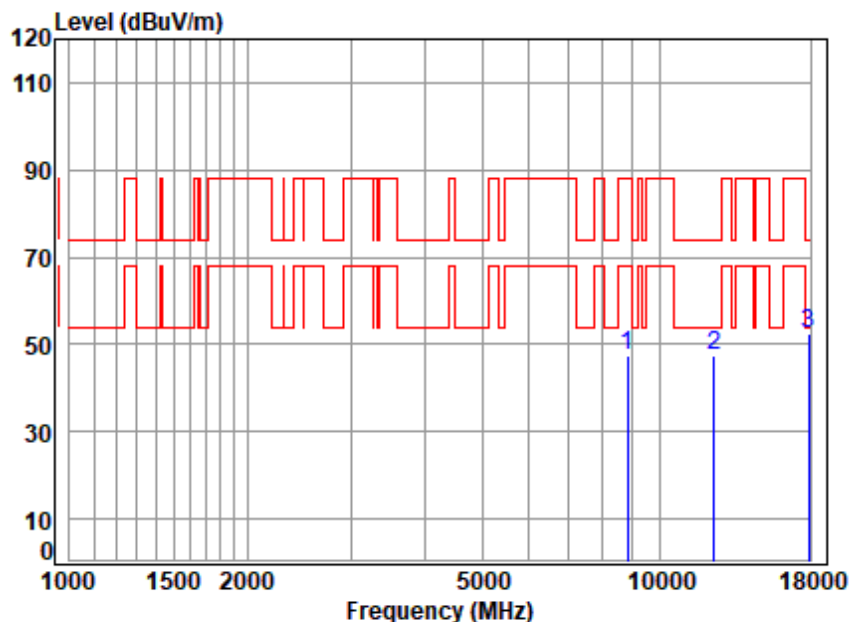
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6185 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8831.943	12.50	38.50	55.15	51.74	47.59	88.20 -40.61 peak
2	12370.000	14.80	39.87	54.06	46.65	47.26	74.00 -26.74 peak
3	pp17869.110	19.22	42.91	54.47	44.93	52.59	74.00 -21.41 peak



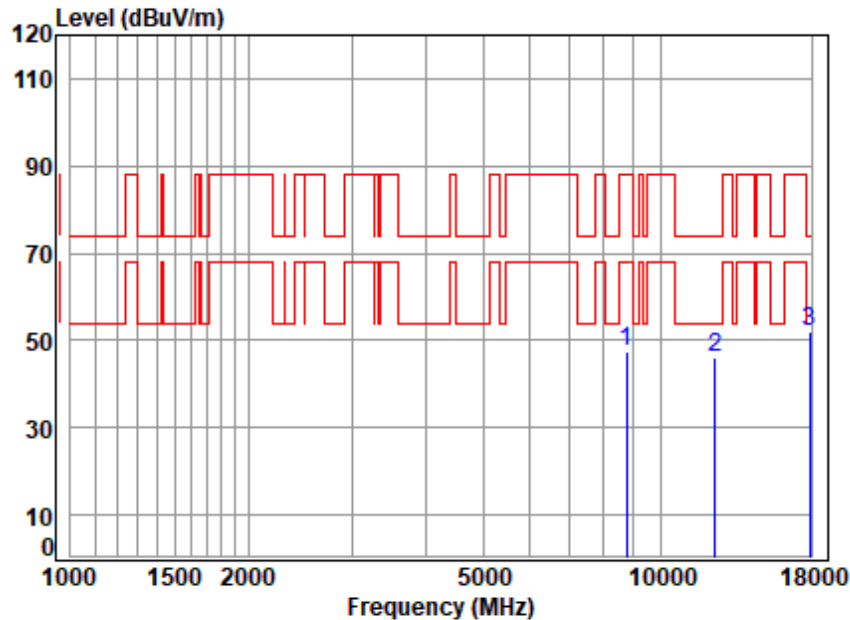
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6185 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8760.611	12.45	38.50	55.22	51.75	47.48	88.20	-40.72 peak
2	12370.000	14.80	39.87	54.06	45.47	46.08	74.00	-27.92 peak
3	pp17869.110	19.22	42.91	54.47	44.21	51.87	74.00	-22.13 peak



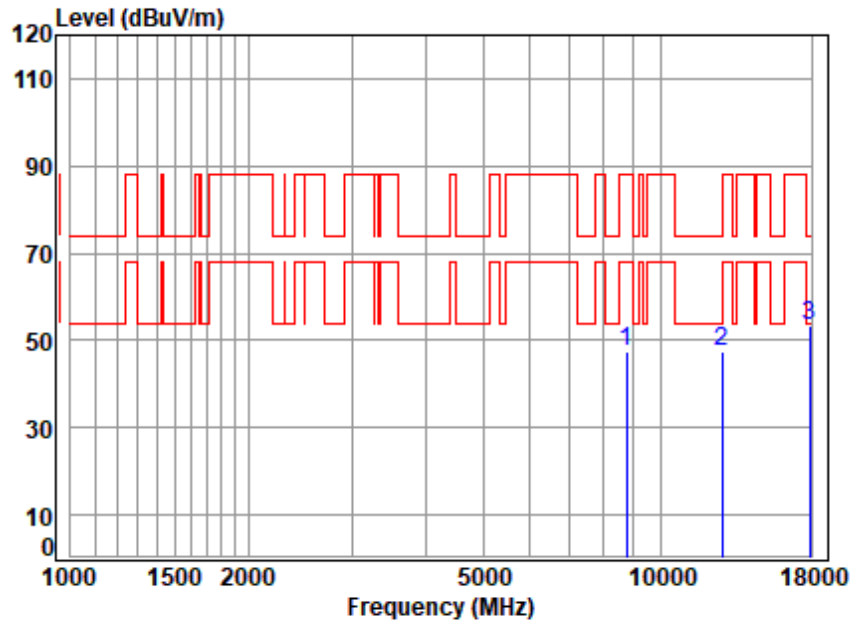
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6345 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8739.325	12.45	38.52	55.23	51.79	47.53	88.20	-40.67 peak
2 12690.000	15.02	40.19	54.28	46.35	47.28	74.00	-26.72 peak
3 pp17869.110	19.22	42.91	54.47	45.77	53.43	74.00	-20.57 peak



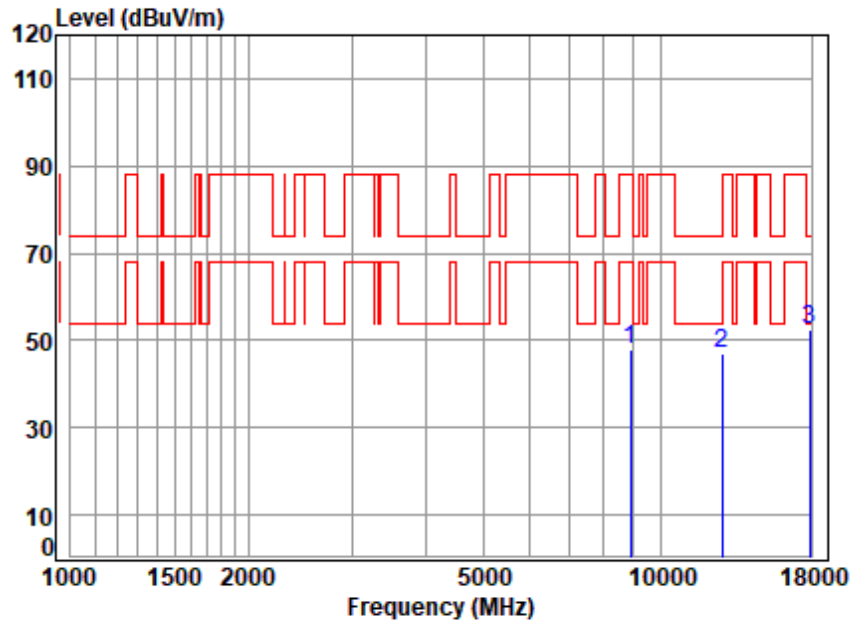
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6345 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8889.426	12.58	38.58	55.10	51.92	47.98	88.20	-40.22 peak
2	12690.000	15.02	40.19	54.28	45.96	46.89	74.00	-27.11 peak
3	pp17869.110	19.22	42.91	54.47	44.75	52.41	74.00	-21.59 peak



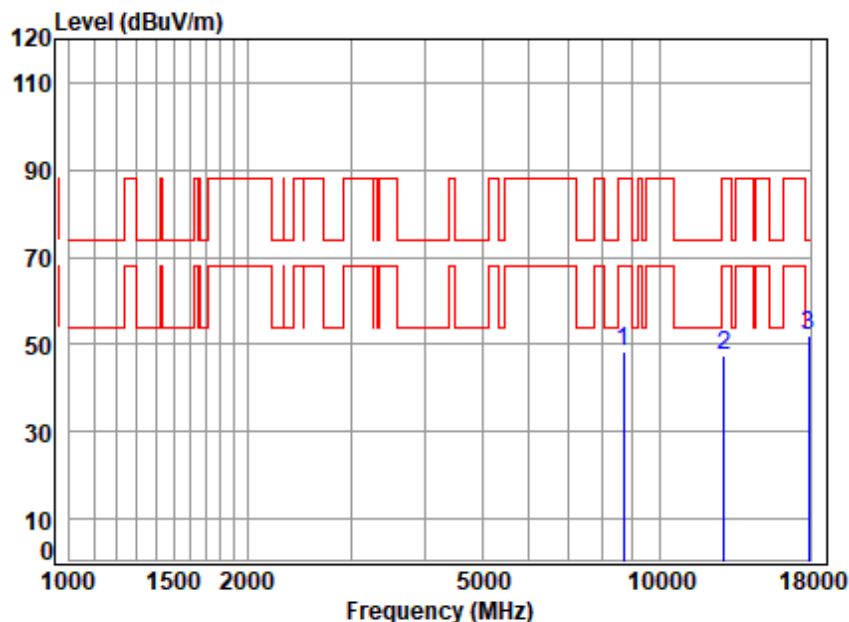
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6435 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8698.174	12.45	38.59	55.27	52.42	48.19	88.20	-40.01 peak
2 12870.000	15.31	40.37	54.41	46.28	47.55	88.20	-40.65 peak
3 pp17872.120	19.22	42.93	54.47	44.41	52.09	74.00	-21.91 peak



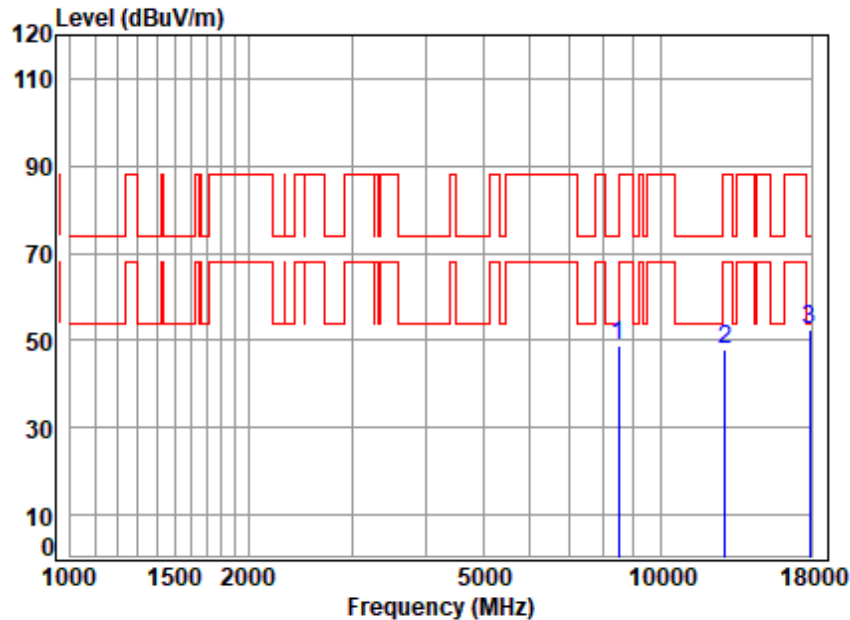
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6435 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8479.478	12.57	38.34	55.47	53.46	48.90	74.00	-25.10 peak
2 12870.000	15.31	40.37	54.41	46.63	47.90	88.20	-40.30 peak
3 pp17872.120	19.22	42.93	54.47	44.78	52.46	74.00	-21.54 peak



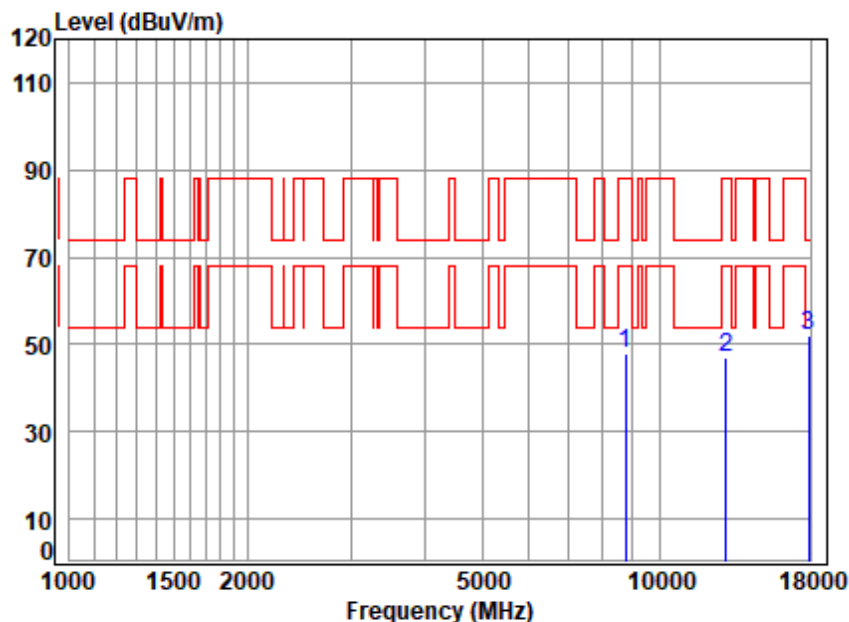
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6475 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8751.494	12.45	38.50	55.22	52.21	47.94	88.20	-40.26 peak
2	12950.000	15.35	40.35	54.47	45.93	47.16	88.20	-41.04 peak
3	pp17872.120	19.22	42.93	54.47	44.12	51.80	74.00	-22.20 peak



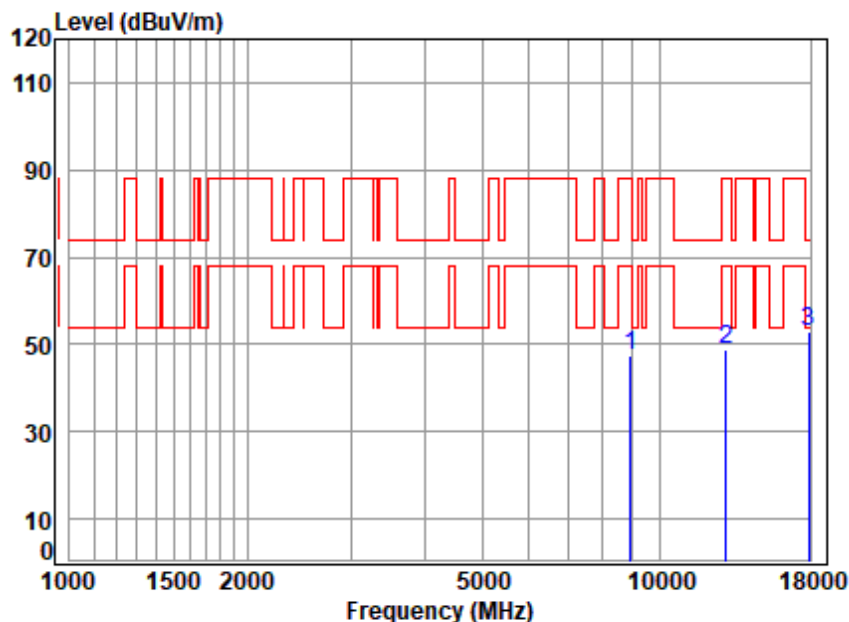
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6475 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8922.510	12.55	38.55	55.07	51.42	47.45	88.20	-40.75 peak
2 12950.000	15.35	40.35	54.47	47.47	48.70	88.20	-39.50 peak
3 pp17872.120	19.22	42.93	54.47	45.22	52.90	74.00	-21.10 peak



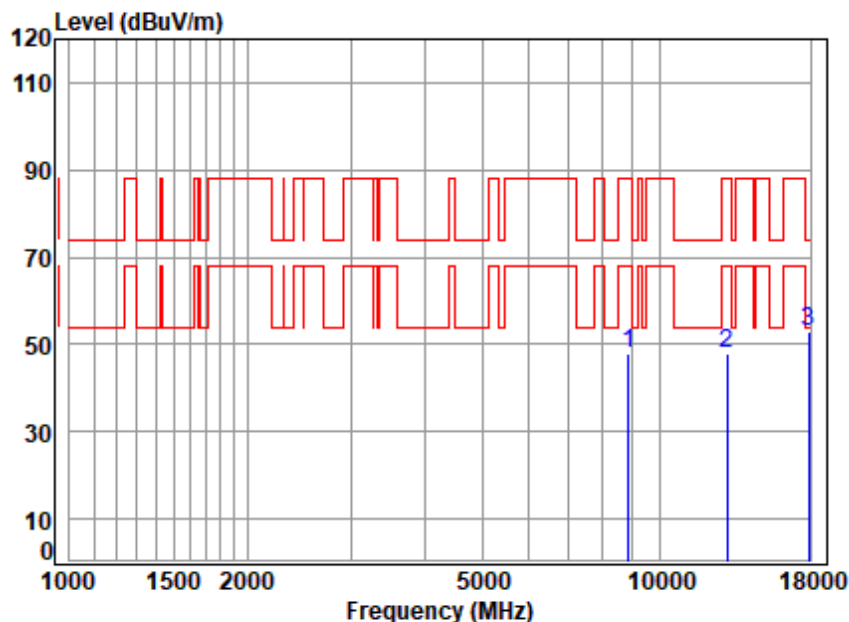
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6515 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8859.119	12.54	38.52	55.13	52.16	48.09	88.20	-40.11 peak
2	13030.000	15.39	40.30	54.50	46.84	48.03	88.20	-40.17 peak
3	pp17872.120	19.22	42.93	54.47	45.34	53.02	74.00	-20.98 peak



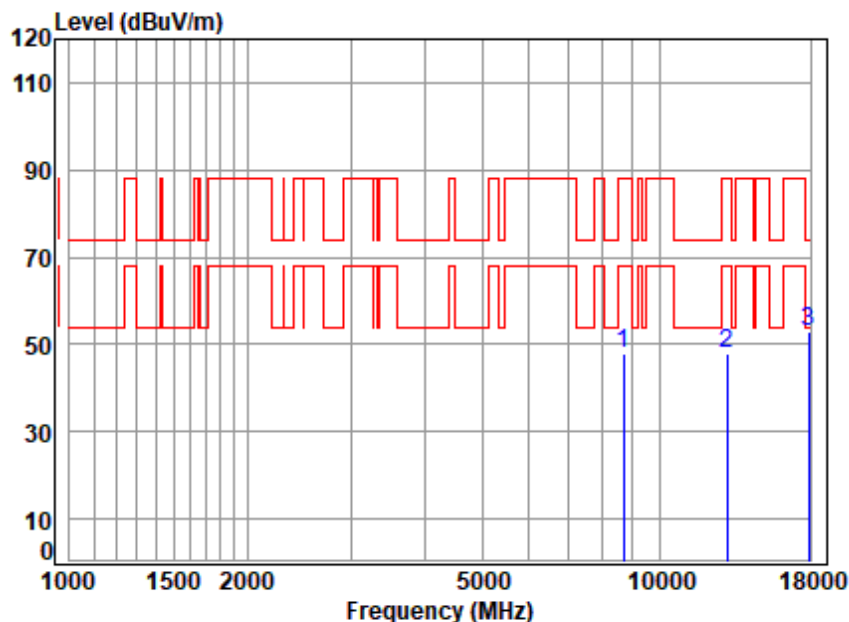
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6515 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8689.318	12.44	38.56	55.28	52.08	47.80	88.20	-40.40 peak
2 13030.000	15.39	40.30	54.50	46.95	48.14	88.20	-40.06 peak
3 pp17872.120	19.22	42.93	54.47	45.27	52.95	74.00	-21.05 peak



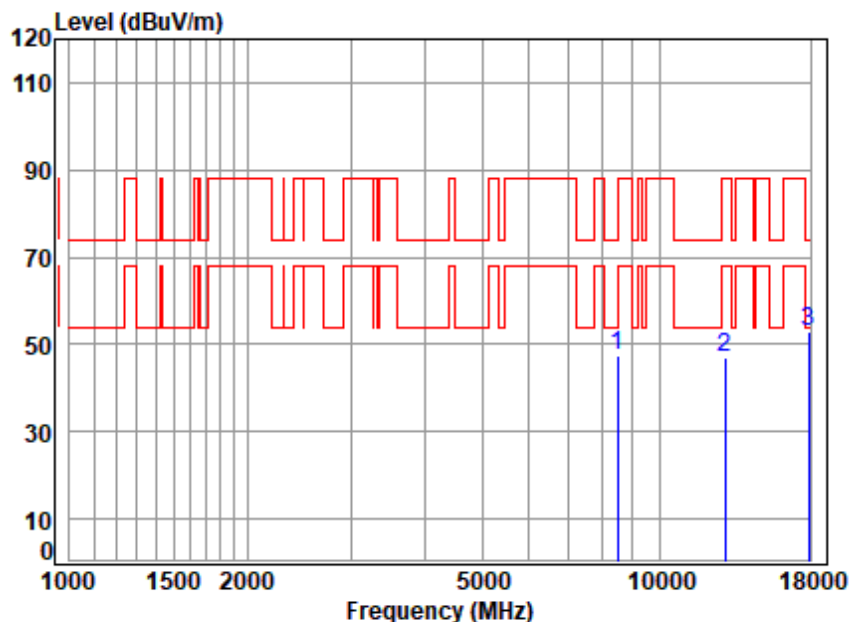
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6445 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8487.882	12.64	38.32	55.46	51.76	47.26	74.00	-26.74 peak
2 12890.000	15.33	40.39	54.42	45.59	46.89	88.20	-41.31 peak
3 pp17869.110	19.22	42.91	54.47	45.40	53.06	74.00	-20.94 peak



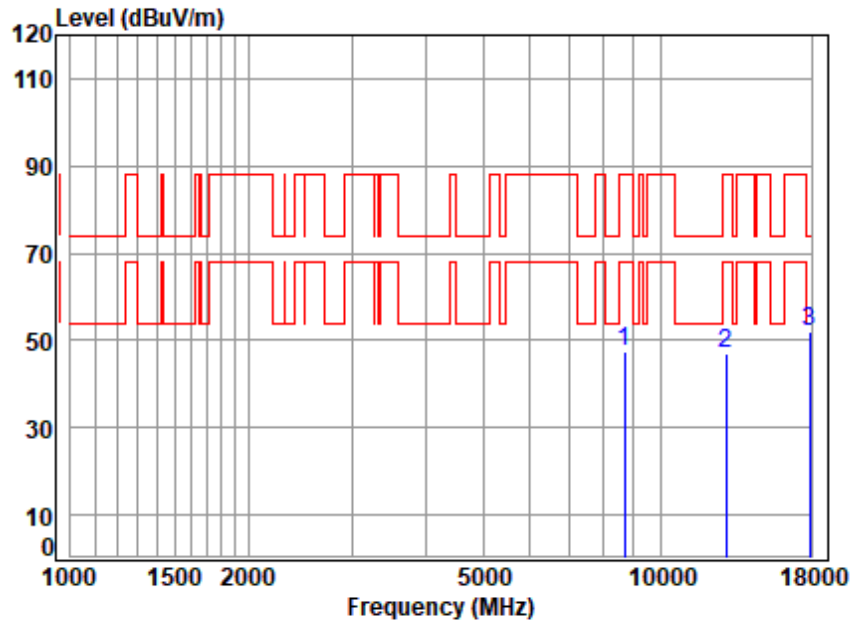
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6445 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8682.813	12.43	38.53	55.29	51.69	47.36	88.20	-40.84 peak
2 12890.000	15.33	40.39	54.42	45.66	46.96	88.20	-41.24 peak
3 pp17869.110	19.22	42.91	54.47	44.57	52.23	74.00	-21.77 peak



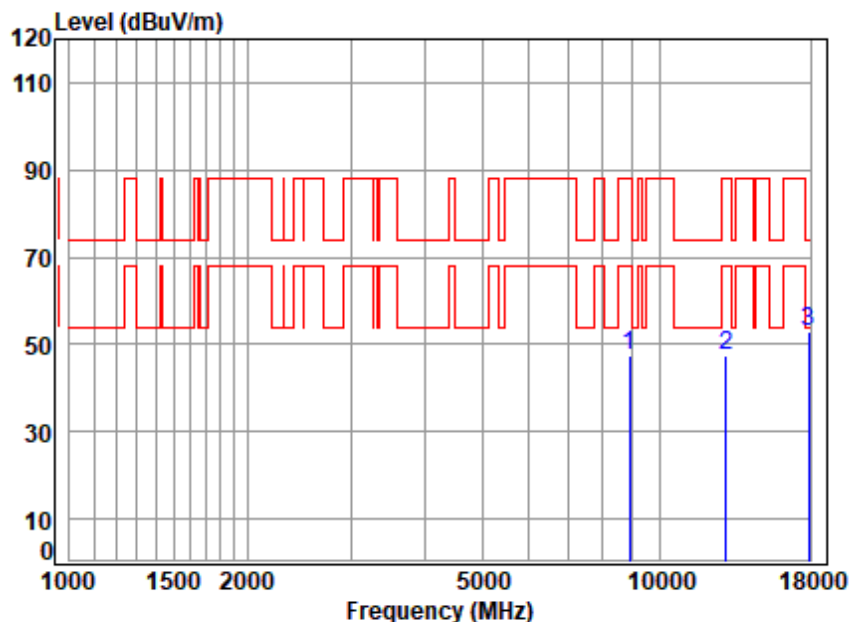
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6485 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8903.855	12.59	38.59	55.09	51.52	47.61	88.20	-40.59 peak
2 12970.000	15.35	40.33	54.48	46.34	47.54	88.20	-40.66 peak
3 pp17869.110	19.22	42.91	54.47	45.11	52.77	74.00	-21.23 peak



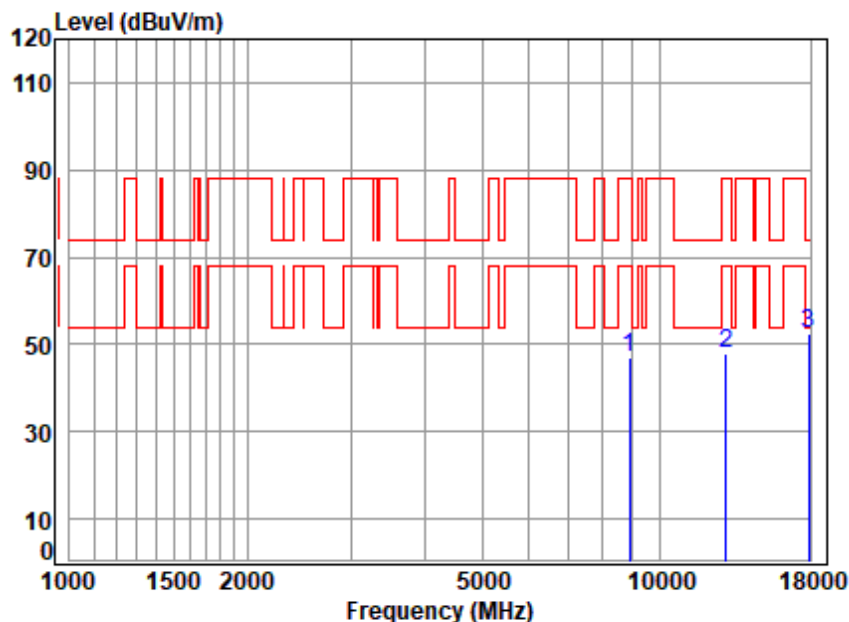
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6485 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8875.021	12.56	38.55	55.11	51.11	47.11	88.20	-41.09 peak
2 12970.000	15.35	40.33	54.48	46.64	47.84	88.20	-40.36 peak
3 pp17869.110	19.22	42.91	54.47	44.81	52.47	74.00	-21.53 peak



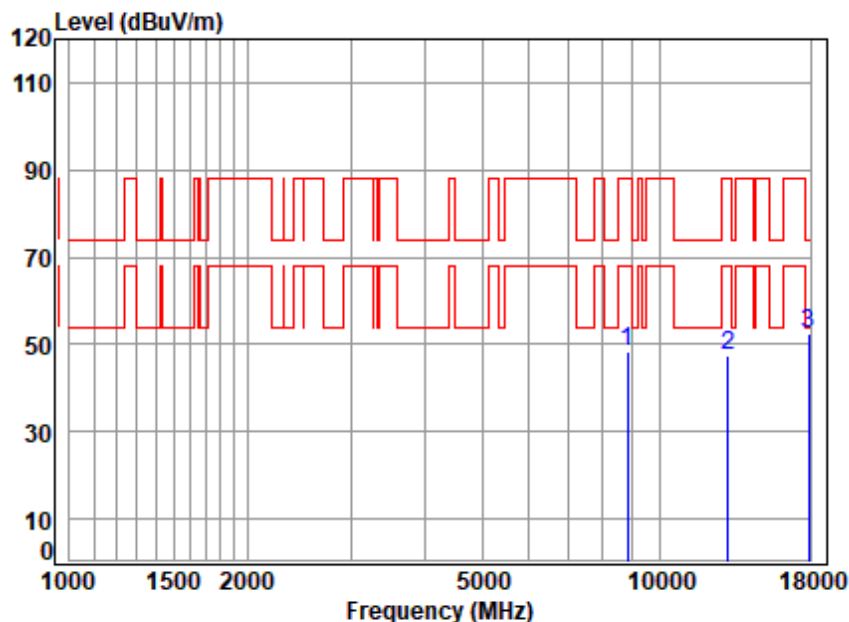
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6525 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8824.784	12.49	38.50	55.16	52.37	48.20	88.20	-40.00 peak
2 13050.000	15.40	40.30	54.49	46.36	47.57	88.20	-40.63 peak
3 pp17869.110	19.22	42.91	54.47	44.72	52.38	74.00	-21.62 peak



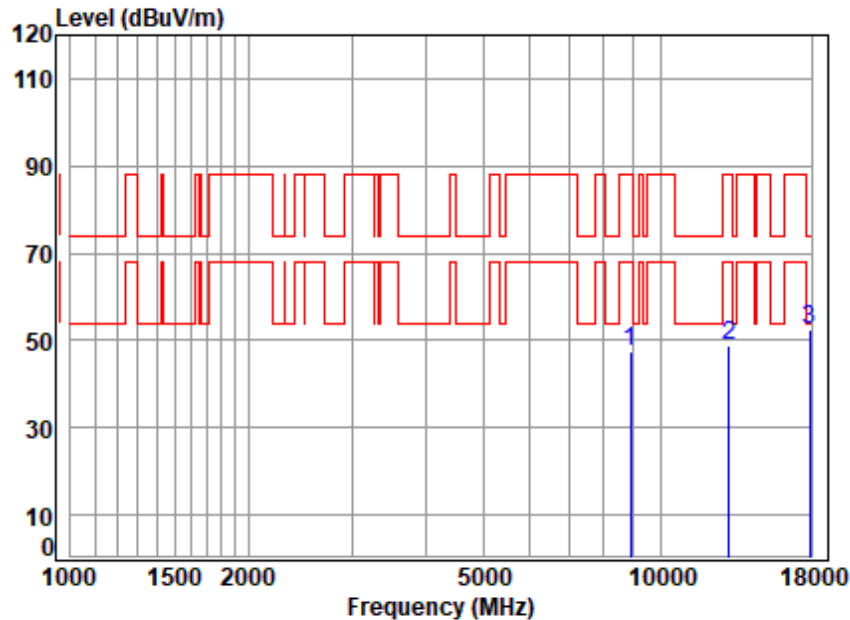
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6525 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8875.021	12.56	38.55	55.11	51.42	47.42	88.20	-40.78 peak
2 13050.000	15.40	40.30	54.49	47.51	48.72	88.20	-39.48 peak
3 pp17869.110	19.22	42.91	54.47	44.64	52.30	74.00	-21.70 peak



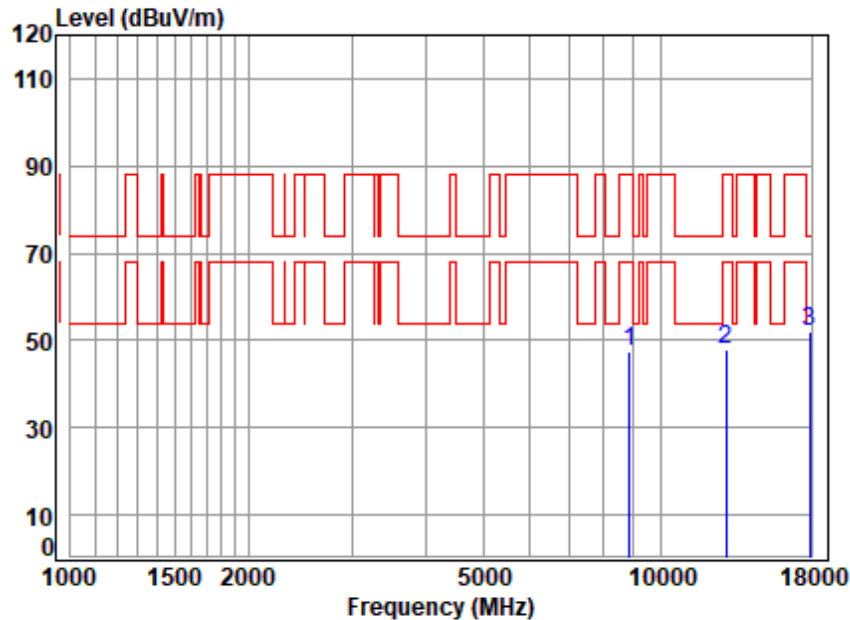
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6465 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8860.638	12.54	38.52	55.13	51.64	47.57	88.20	-40.63	peak
2 12930.000	15.35	40.37	54.45	46.81	48.08	88.20	-40.12	peak
3 pp17869.110	19.22	42.91	54.47	44.49	52.15	74.00	-21.85	peak



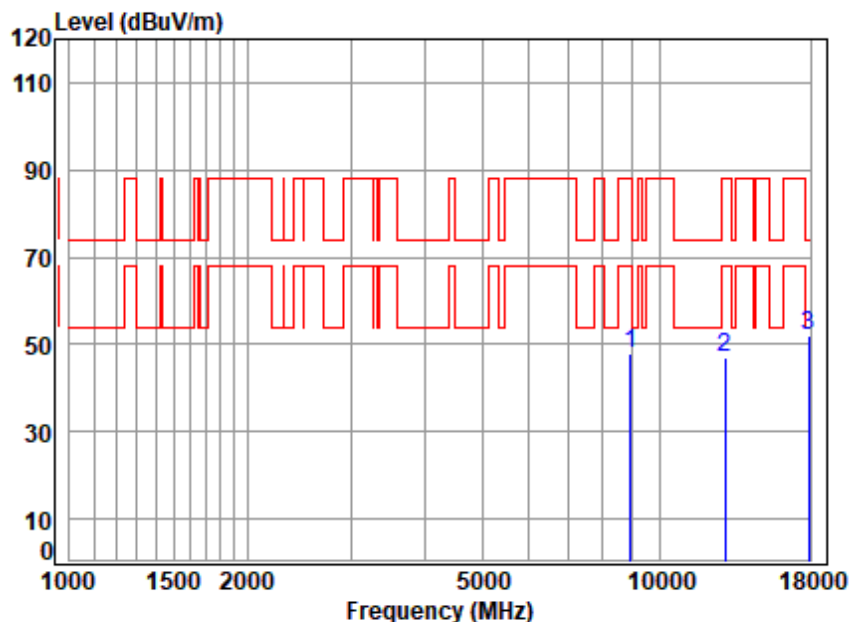
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6465 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8911.078	12.57	38.58	55.08	51.63	47.70	88.20	-40.50 peak
2 12930.000	15.35	40.37	54.45	45.93	47.20	88.20	-41.00 peak
3 pp17869.110	19.22	42.91	54.47	44.43	52.09	74.00	-21.91 peak



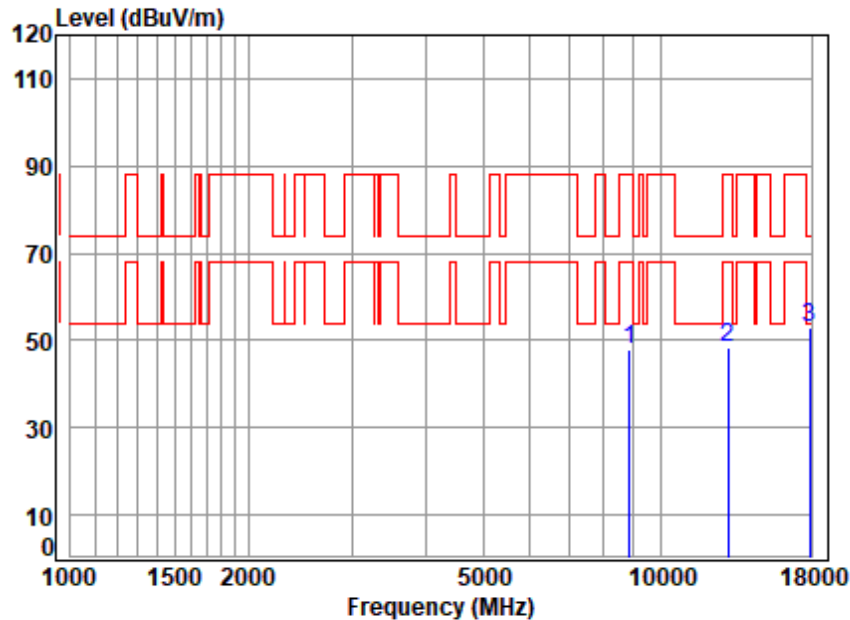
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Test Mode: 19; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6505 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8846.278	12.52	38.50	55.14	52.07	47.95	88.20 -40.25 peak
2	13010.000	15.37	40.30	54.50	47.22	48.39	88.20 -39.81 peak
3	pp17869.110	19.22	42.91	54.47	45.24	52.90	74.00 -21.10 peak



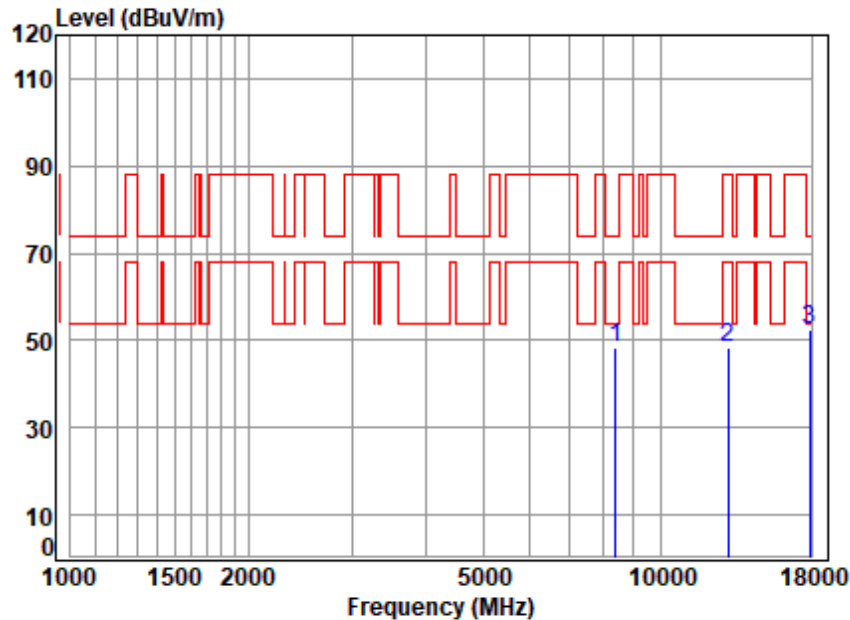
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Test Mode: 19; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6505 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8371.672	11.92	38.66	55.57	53.48	48.49	74.00	-25.51	peak
2 13010.000	15.37	40.30	54.50	47.07	48.24	88.20	-39.96	peak
3 pp17869.110	19.22	42.91	54.47	44.91	52.57	74.00	-21.43	peak



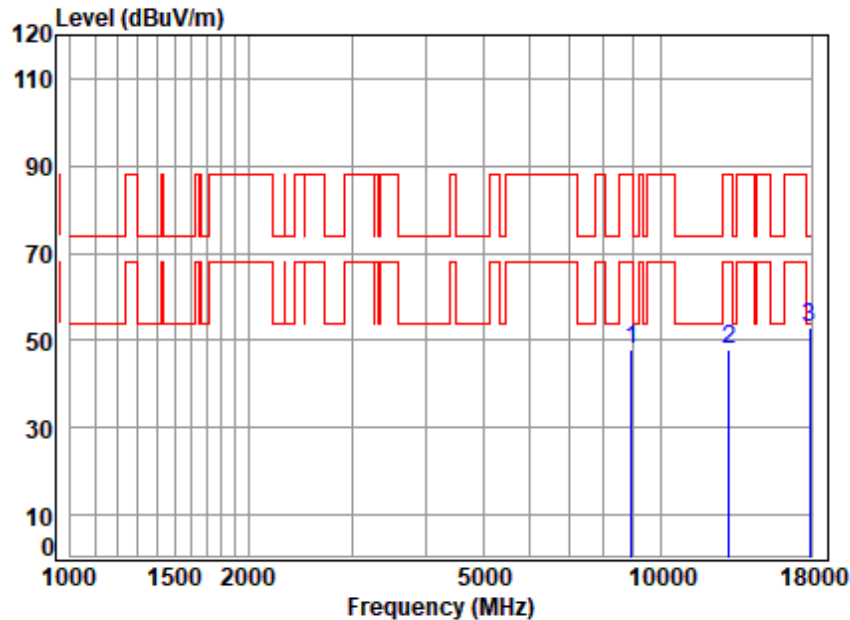
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6535 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8925.543	12.54	38.55	55.07	51.90	47.92	88.20	-40.28	peak
2 13070.000	15.42	40.30	54.49	46.62	47.85	88.20	-40.35	peak
3 pp17869.110	19.22	42.91	54.47	45.42	53.08	74.00	-20.92	peak



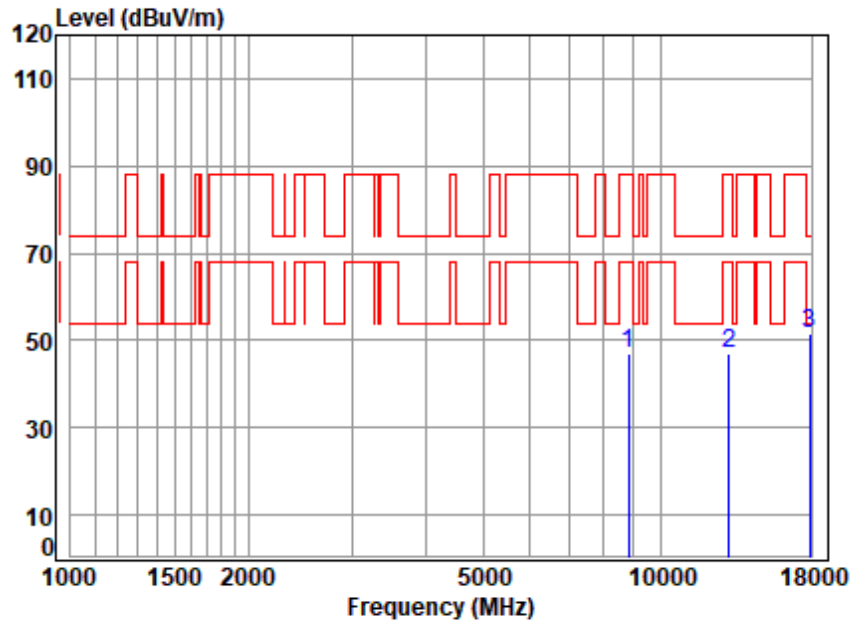
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6535 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8824.784	12.49	38.50	55.16	51.11	46.94	88.20	-41.26 peak
2 13070.000	15.42	40.30	54.49	45.90	47.13	88.20	-41.07 peak
3 pp17869.110	19.22	42.91	54.47	43.81	51.47	74.00	-22.53 peak



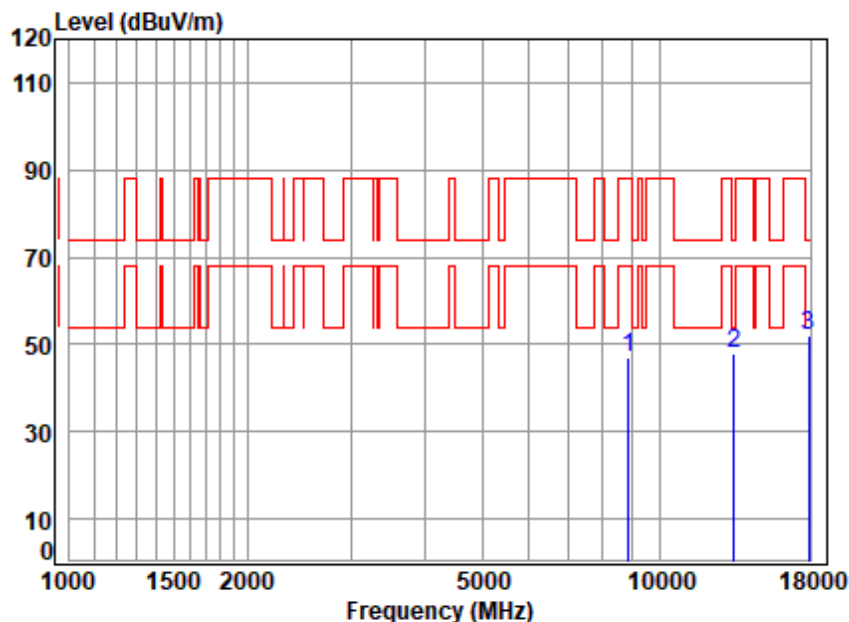
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6695 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8853.455	12.53	38.51	55.13	51.14	47.05	88.20	-41.15	peak
2 13390.000	15.69	40.30	54.46	46.36	47.89	74.00	-26.11	peak
3 pp17869.110	19.22	42.91	54.47	44.24	51.90	74.00	-22.10	peak



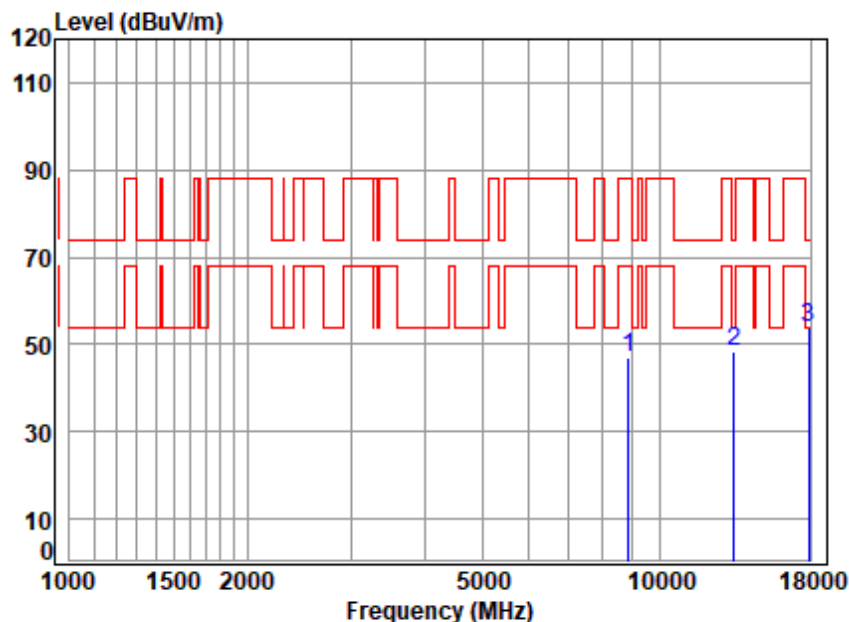
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6695 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8853.455	12.53	38.51	55.13	51.09	47.00	88.20	-41.20	peak
2 13390.000	15.69	40.30	54.46	46.93	48.46	74.00	-25.54	peak
3 pp17869.110	19.22	42.91	54.47	46.18	53.84	74.00	-20.16	peak



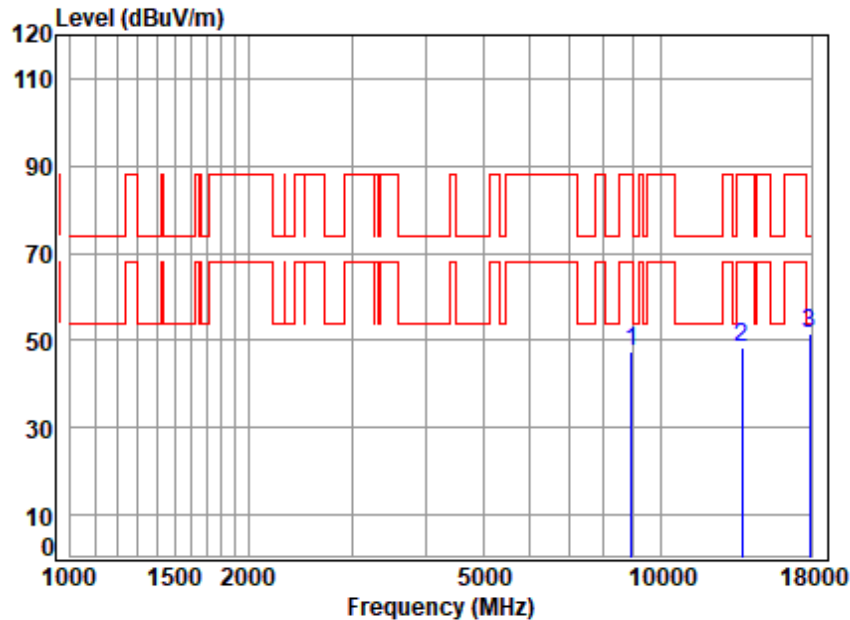
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6855 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8911.078	12.57	38.58	55.08	51.28	47.35	88.20 -40.85 peak
2	13710.000	16.11	39.99	54.43	46.53	48.20	88.20 -40.00 peak
3	pp17869.110	19.22	42.91	54.47	44.06	51.72	74.00 -22.28 peak



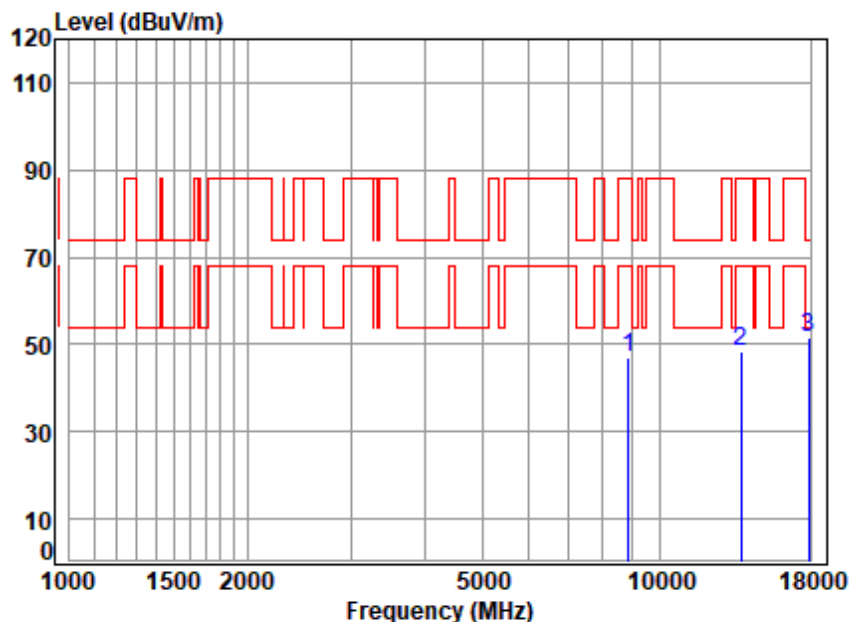
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6855 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8860.638	12.54	38.52	55.13	51.24	47.17	88.20	-41.03 peak
2 13710.000	16.11	39.99	54.43	46.84	48.51	88.20	-39.69 peak
3 pp17869.110	19.22	42.91	54.47	43.93	51.59	74.00	-22.41 peak



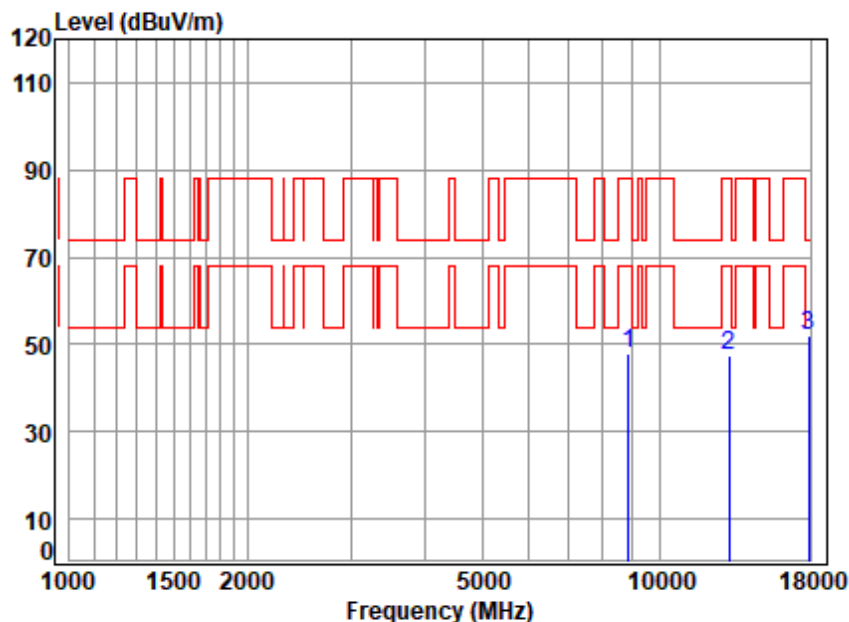
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6565 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8853.455	12.53	38.51	55.13	51.88	47.79	88.20 -40.41 peak
2	13130.000	15.56	40.27	54.49	45.96	47.30	88.20 -40.90 peak
3	pp17869.110	19.22	42.91	54.47	44.45	52.11	74.00 -21.89 peak



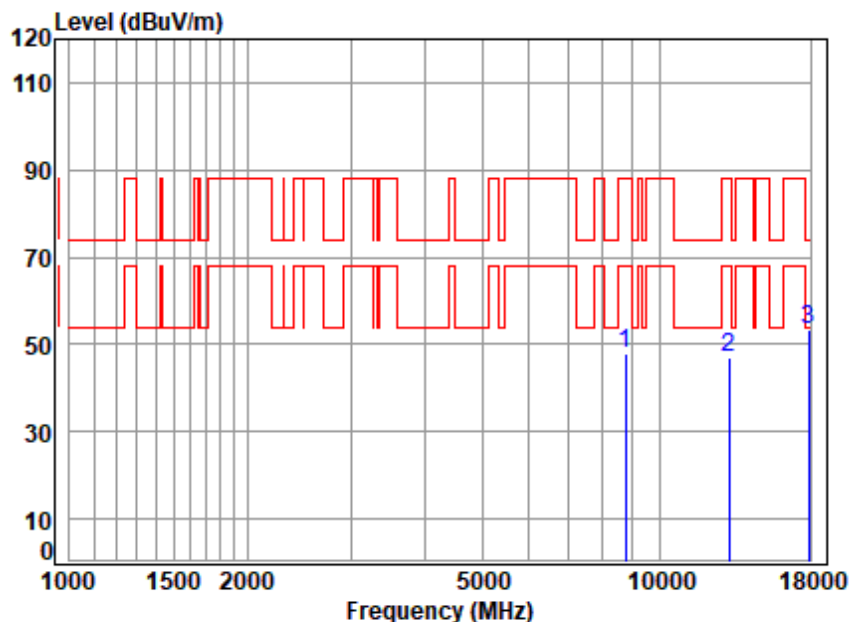
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6565 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8739.325	12.45	38.52	55.23	52.18	47.92	88.20 -40.28 peak
2	13130.000	15.56	40.27	54.49	45.67	47.01	88.20 -41.19 peak
3	pp17869.110	19.22	42.91	54.47	45.70	53.36	74.00 -20.64 peak



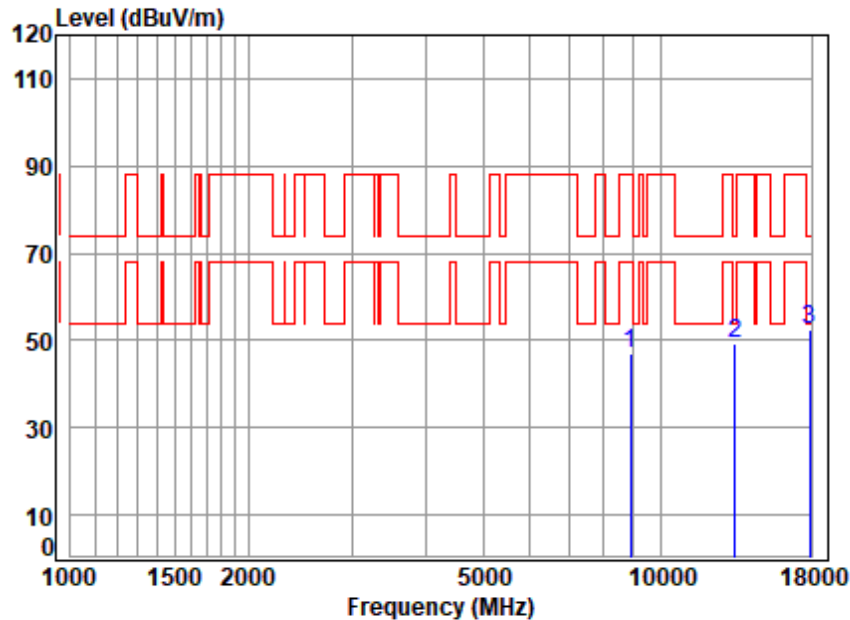
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6685 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8903.855	12.59	38.59	55.09	51.09	47.18	88.20 -41.02 peak
2	13370.000	15.77	40.30	54.46	47.44	49.05	74.00 -24.95 peak
3	pp17869.110	19.22	42.91	54.47	44.68	52.34	74.00 -21.66 peak



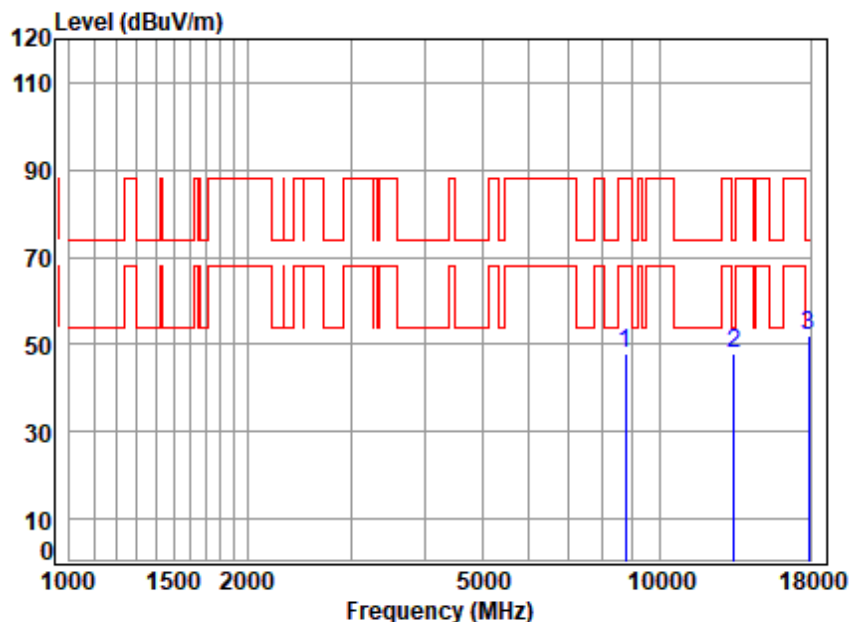
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6685 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8760.611	12.45	38.50	55.22	52.05	47.78	88.20	-40.42 peak
2	13370.000	15.77	40.30	54.46	46.25	47.86	74.00	-26.14 peak
3	pp17869.110	19.22	42.91	54.47	44.32	51.98	74.00	-22.02 peak



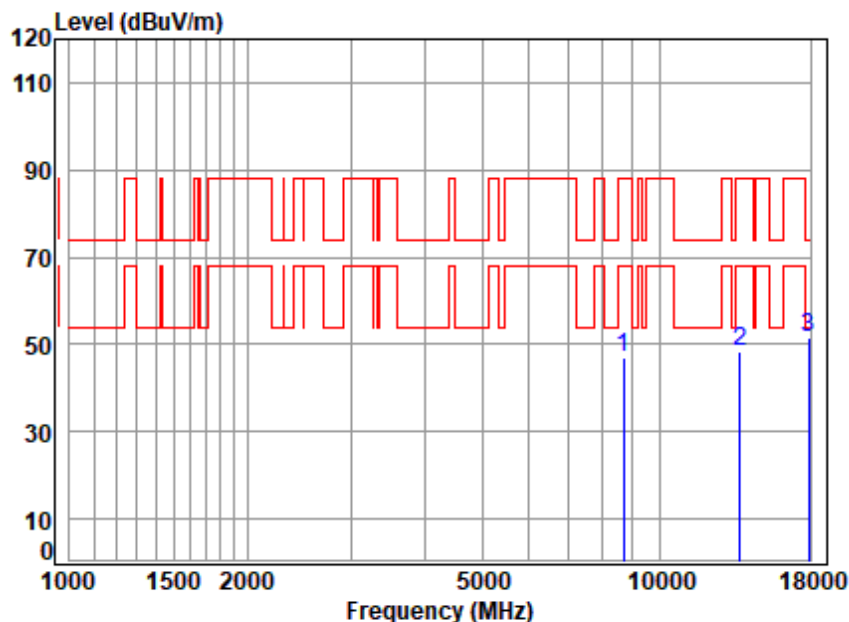
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6845 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8696.906	12.45	38.59	55.27	51.15	46.92	88.20	-41.28 peak
2	13690.000	16.18	40.00	54.43	46.56	48.31	88.20	-39.89 peak
3	pp17869.110	19.22	42.91	54.47	43.79	51.45	74.00	-22.55 peak



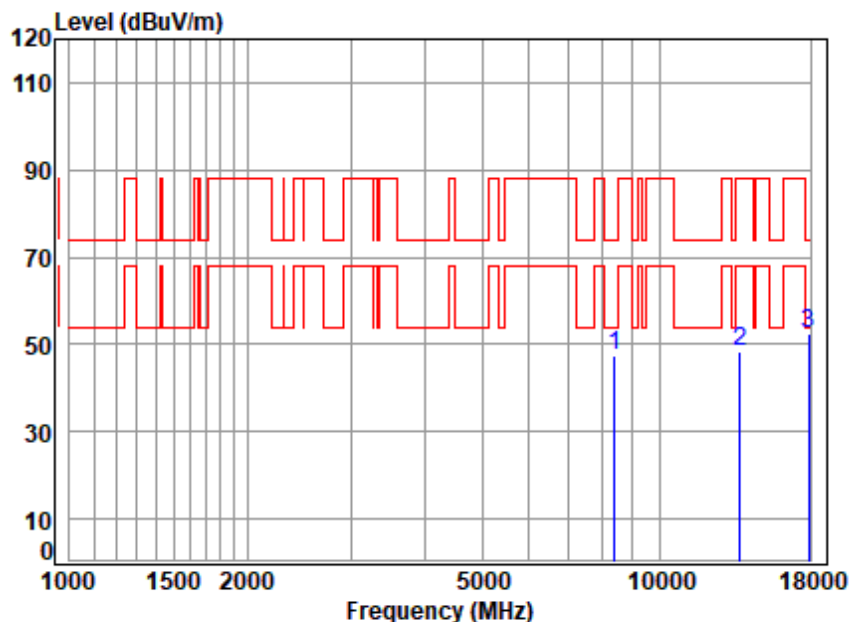
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6845 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8385.261	11.90	38.63	55.55	52.45	47.43	74.00	-26.57	peak
2 13690.000	16.18	40.00	54.43	46.56	48.31	88.20	-39.89	peak
3 pp17869.110	19.22	42.91	54.47	44.75	52.41	74.00	-21.59	peak



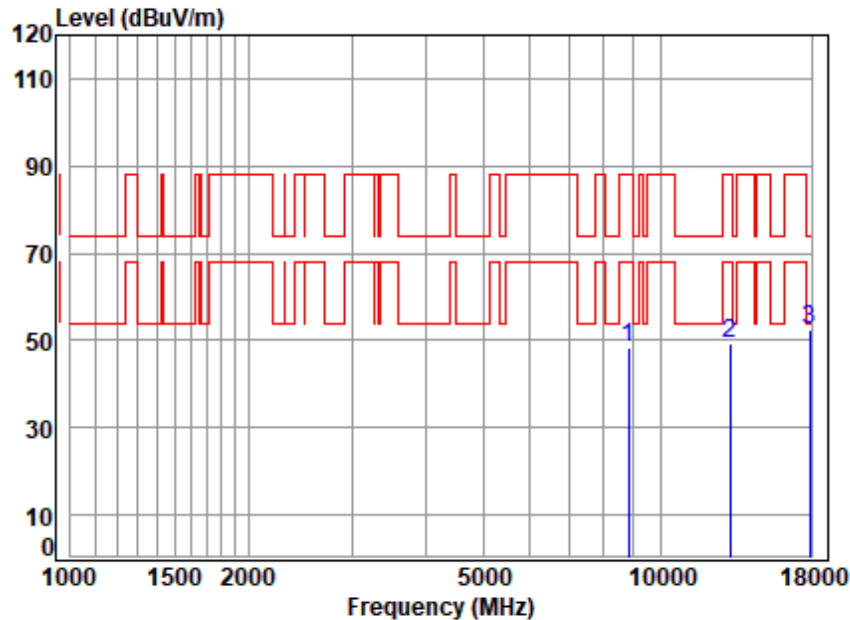
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6545 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8831.943	12.50	38.50	55.15	52.70	48.55	88.20	-39.65 peak
2 13090.000	15.44	40.30	54.49	47.90	49.15	88.20	-39.05 peak
3 pp17869.110	19.22	42.91	54.47	44.90	52.56	74.00	-21.44 peak



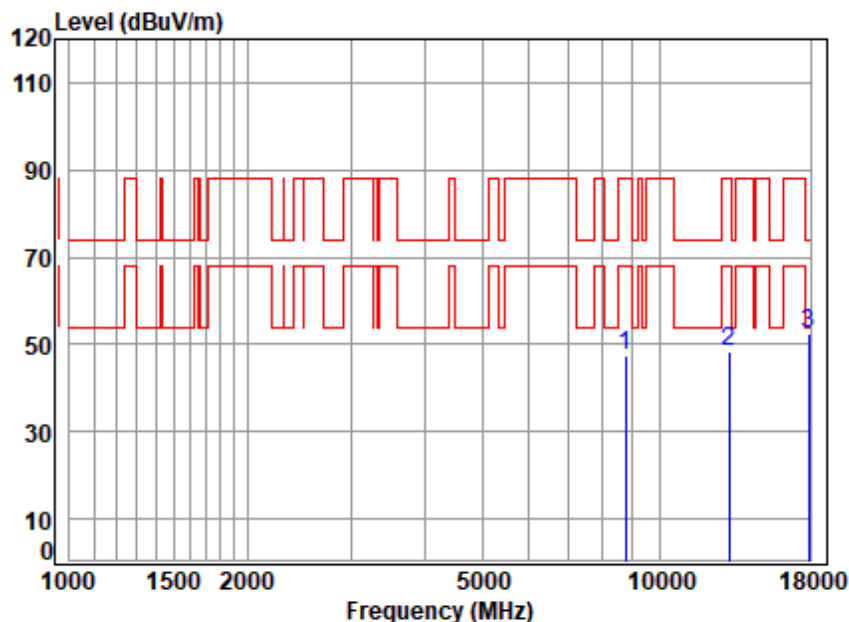
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6545 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8767.719	12.45	38.50	55.21	51.49	47.23	88.20 -40.97 peak
2	13090.000	15.44	40.30	54.49	46.98	48.23	88.20 -39.97 peak
3	pp17869.110	19.22	42.91	54.47	44.62	52.28	74.00 -21.72 peak



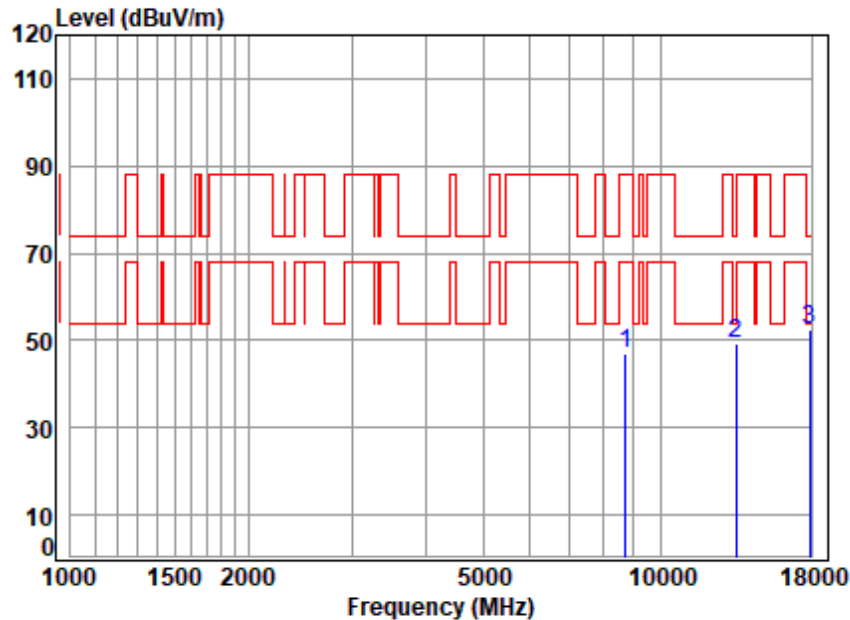
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6705 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8711.022	12.45	38.58	55.26	51.28	47.05	88.20	-41.15 peak
2 13410.000	15.65	40.28	54.46	47.86	49.33	88.20	-38.87 peak
3 pp17869.110	19.22	42.91	54.47	44.85	52.51	74.00	-21.49 peak



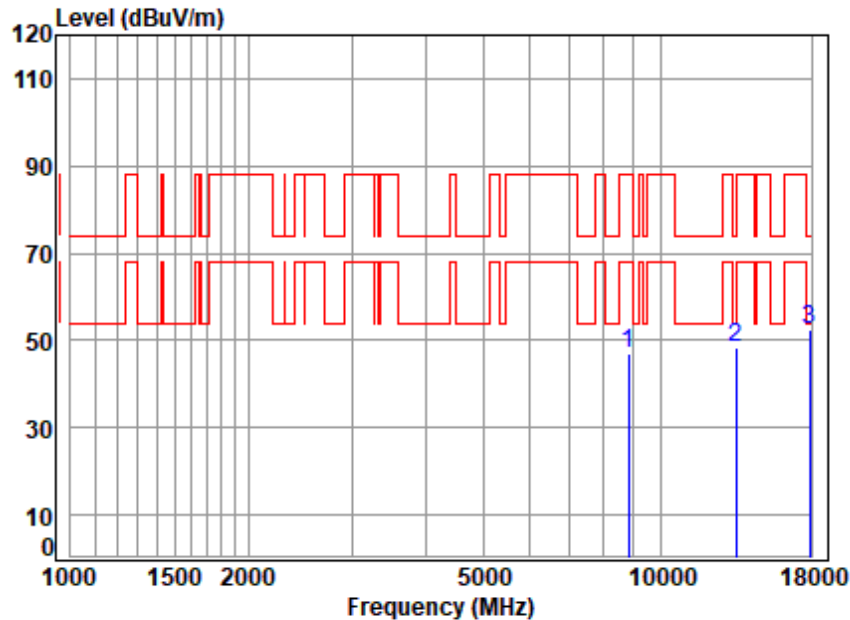
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6705 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8839.108	12.51	38.50	55.14	51.34	47.21	88.20 -40.99 peak
2	13410.000	15.65	40.28	54.46	46.84	48.31	88.20 -39.89 peak
3	pp17869.110	19.22	42.91	54.47	44.62	52.28	74.00 -21.72 peak



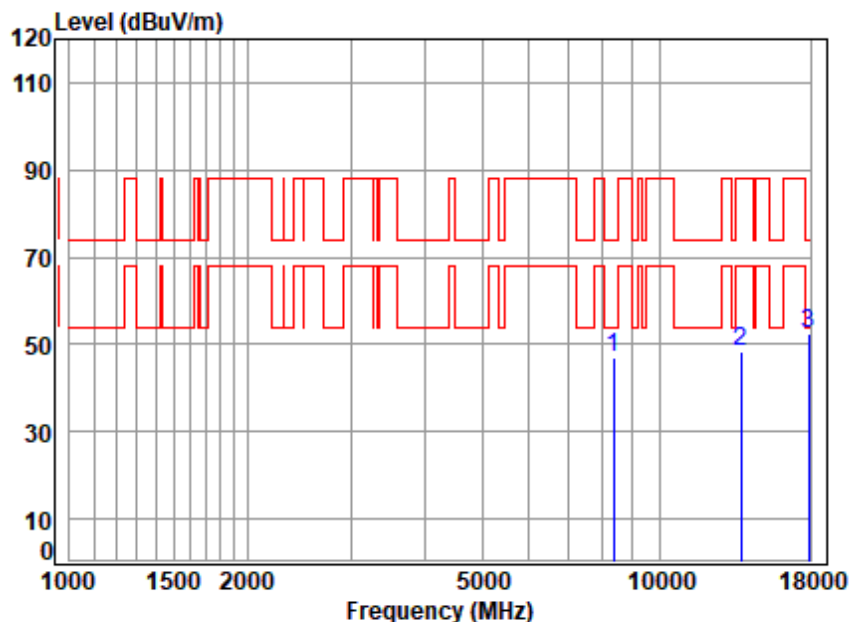
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6865 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8358.105	11.94	38.68	55.58	52.17	47.21	74.00 -26.79 peak
2	13730.000	16.00	39.97	54.43	46.79	48.33	88.20 -39.87 peak
3	pp17869.110	19.22	42.91	54.47	44.98	52.64	74.00 -21.36 peak



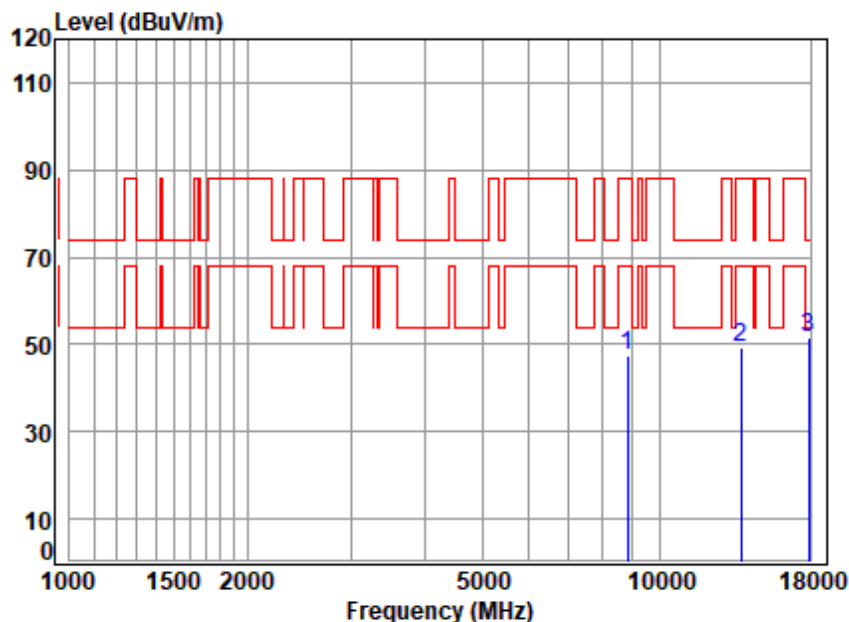
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6865 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8831.943	12.50	38.50	55.15	51.82	47.67	88.20 -40.53 peak
2	13730.000	16.00	39.97	54.43	47.94	49.48	88.20 -38.72 peak
3	pp17869.110	19.22	42.91	54.47	44.10	51.76	74.00 -22.24 peak



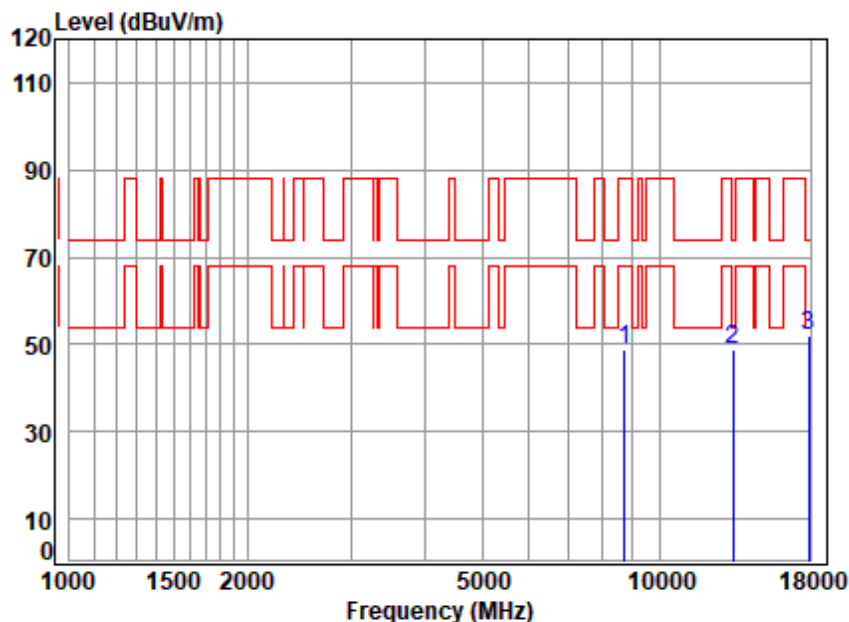
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6665 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8703.962	12.45	38.59	55.27	53.00	48.77	88.20	-39.43	peak
2 13330.000	15.92	40.30	54.47	47.15	48.90	74.00	-25.10	peak
3 pp17869.110	19.22	42.91	54.47	44.50	52.16	74.00	-21.84	peak



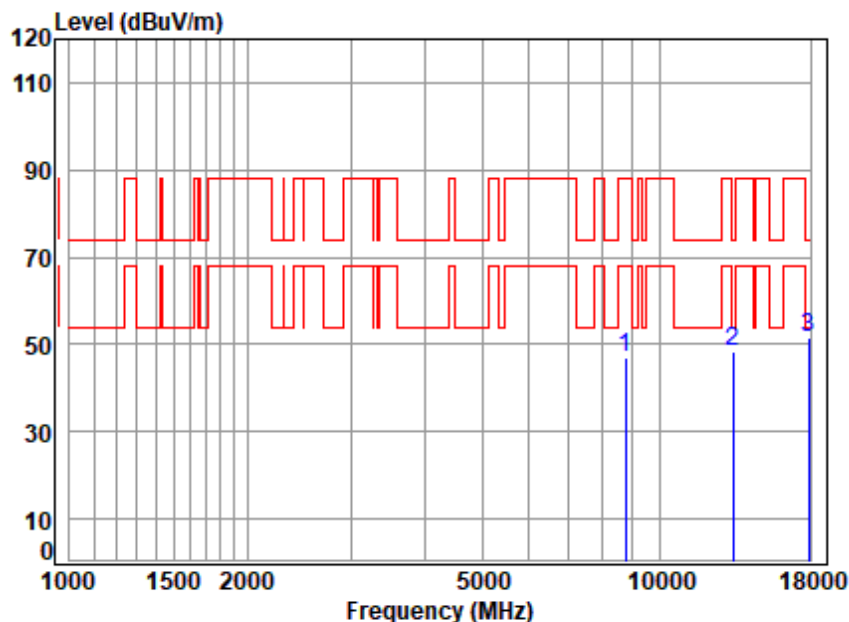
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6665 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8760.611	12.45	38.50	55.22	51.37	47.10	88.20	-41.10 peak
2	13330.000	15.92	40.30	54.47	46.71	48.46	74.00	-25.54 peak
3	pp17869.110	19.22	42.91	54.47	43.95	51.61	74.00	-22.39 peak



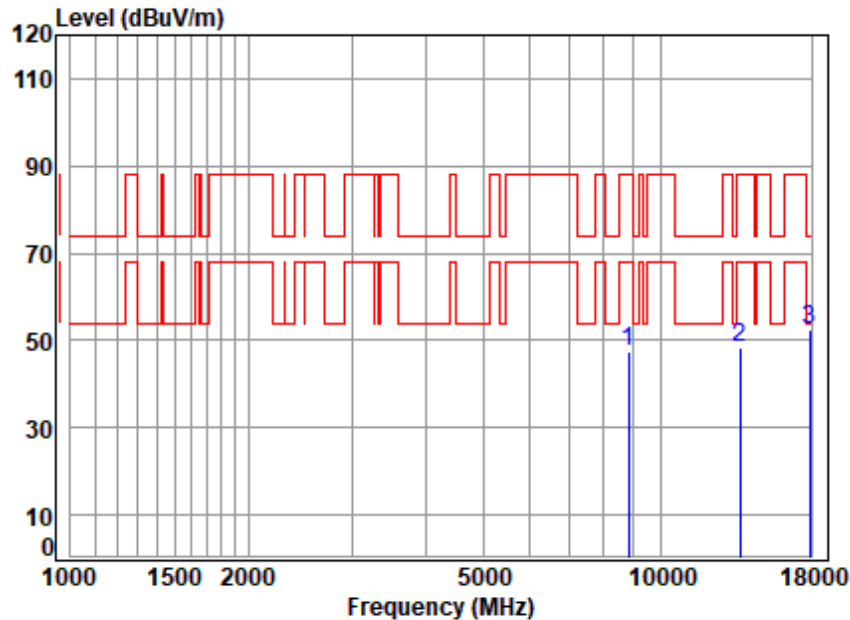
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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6825 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8831.943	12.50	38.50	55.15	51.68	47.53	88.20	-40.67 peak
2 13650.000	16.24	40.00	54.44	46.70	48.50	88.20	-39.70 peak
3 pp17869.110	19.22	42.91	54.47	45.00	52.66	74.00	-21.34 peak



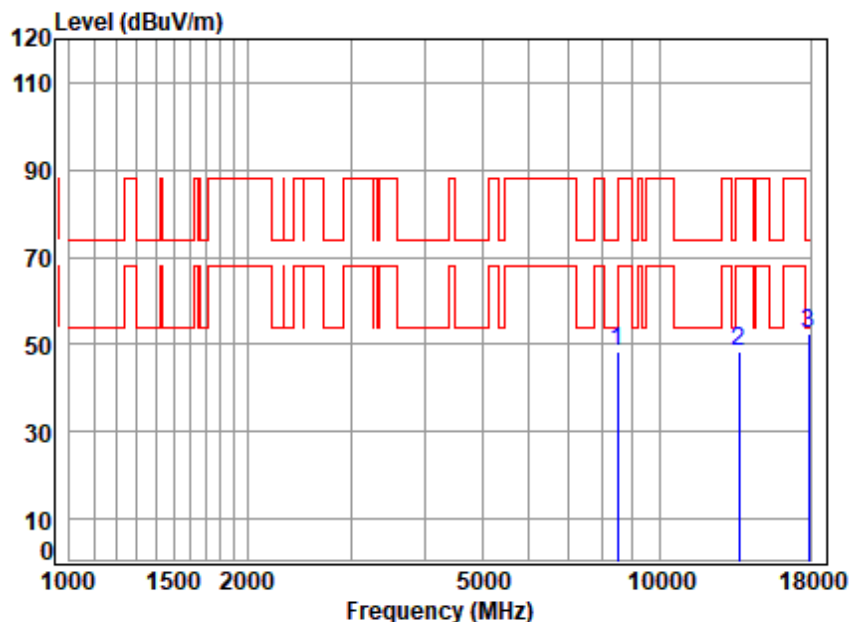
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6825 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8501.659	12.74	38.30	55.45	52.85	48.44	88.20	-39.76	peak
2 13650.000	16.24	40.00	54.44	46.62	48.42	88.20	-39.78	peak
3 pp17869.110	19.22	42.91	54.47	45.00	52.66	74.00	-21.34	peak



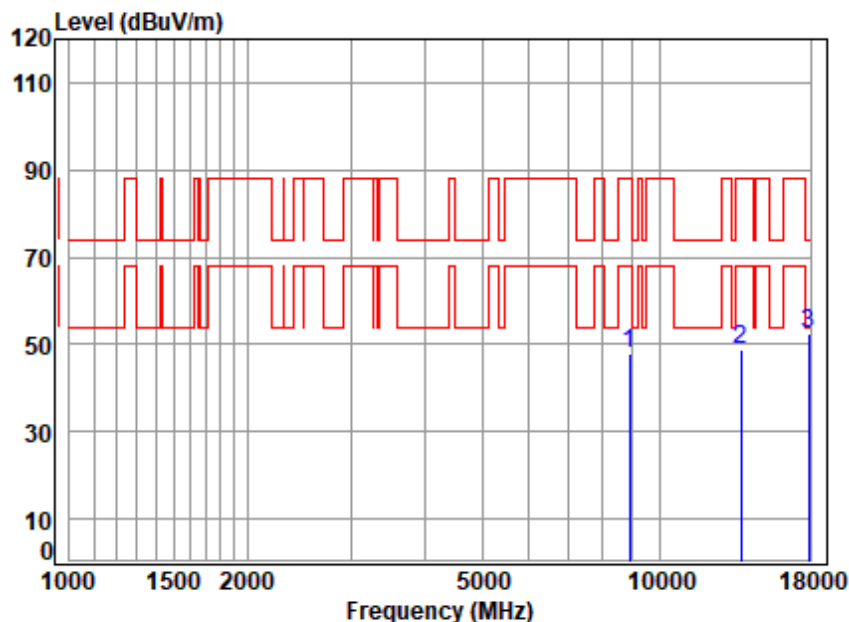
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6875 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8875.021	12.56	38.55	55.11	52.10	48.10	88.20	-40.10 peak
2 13750.000	15.89	39.95	54.43	47.43	48.84	88.20	-39.36 peak
3 pp17869.110	19.22	42.91	54.47	44.76	52.42	74.00	-21.58 peak



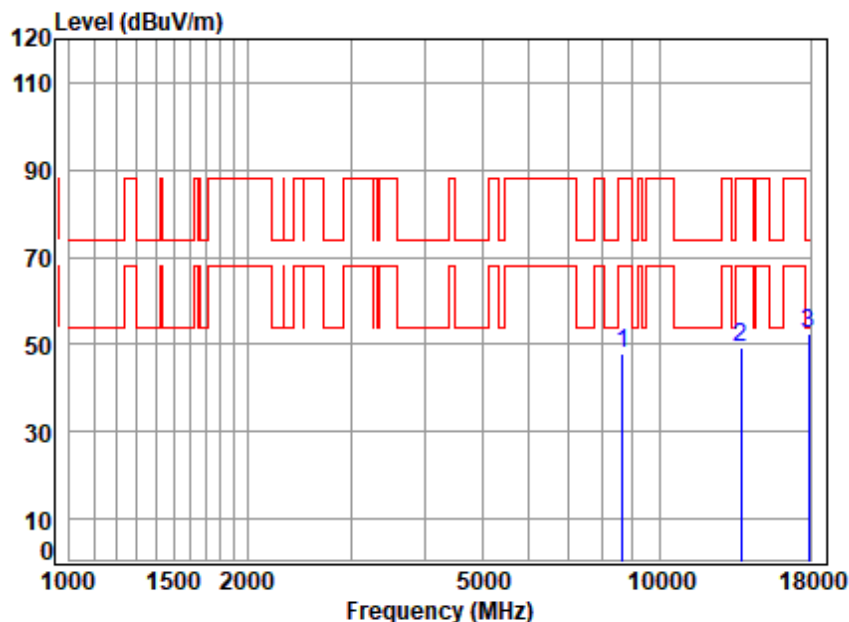
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6875 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8654.693	12.40	38.42	55.31	52.51	48.02	88.20	-40.18 peak
2 13750.000	15.89	39.95	54.43	47.82	49.23	88.20	-38.97 peak
3 pp17869.110	19.22	42.91	54.47	44.79	52.45	74.00	-21.55 peak



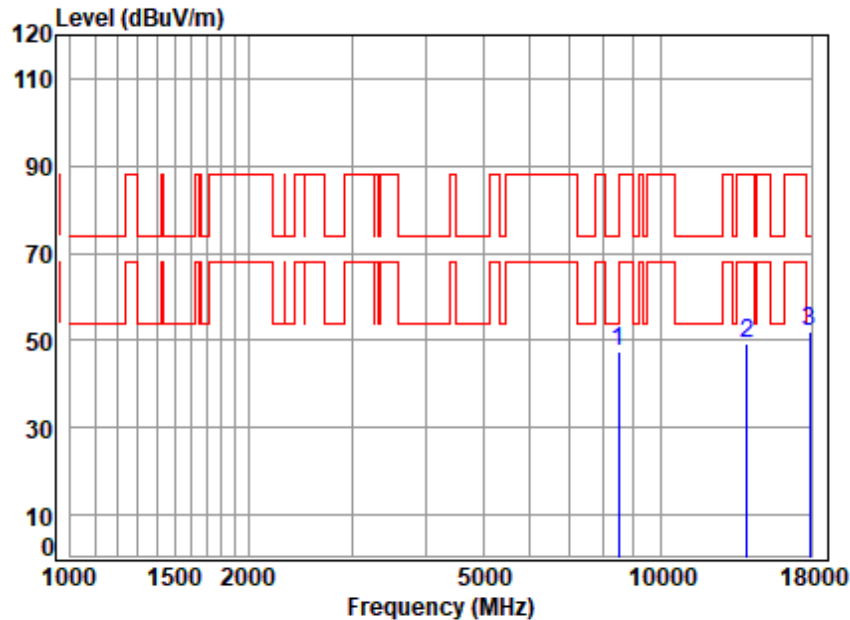
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6995 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8494.768	12.70	38.31	55.45	51.77	47.33	74.00	-26.67 peak
2 13990.000	16.42	39.90	54.40	47.22	49.14	88.20	-39.06 peak
3 pp17869.110	19.22	42.91	54.47	44.20	51.86	74.00	-22.14 peak



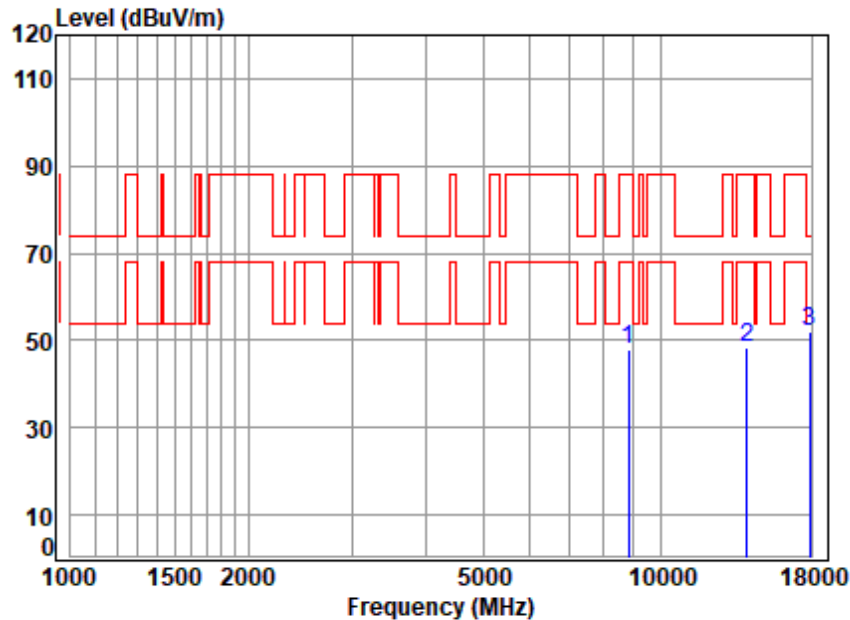
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6995 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8839.108	12.51	38.50	55.14	52.22	48.09	88.20 -40.11 peak
2	13990.000	16.42	39.90	54.40	46.63	48.55	88.20 -39.65 peak
3	pp17869.110	19.22	42.91	54.47	44.33	51.99	74.00 -22.01 peak



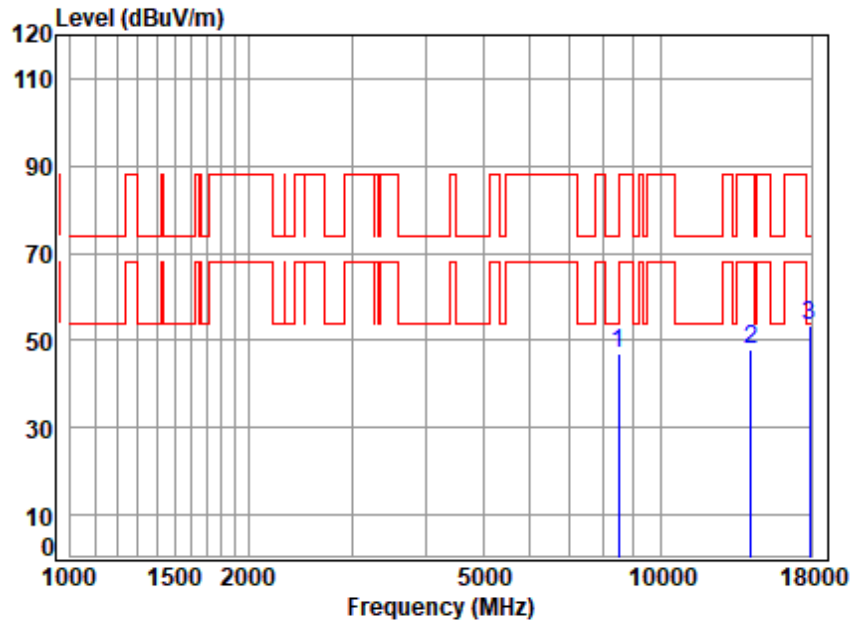
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7115 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 8494.768	12.70	38.31	55.45	51.32	46.88	74.00	-27.12	peak
2 14230.000	16.31	39.80	54.38	46.18	47.91	88.20	-40.29	peak
3 pp17869.110	19.22	42.91	54.47	45.55	53.21	74.00	-20.79	peak



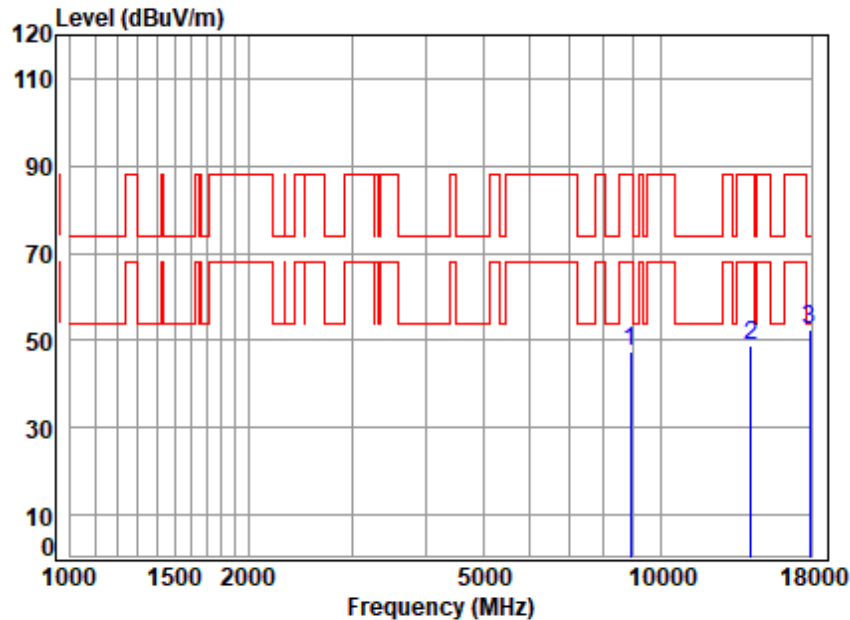
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7115 TX RSE

: WIFI 6E 11AX20

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8882.220	12.57	38.56	55.11	51.39	47.41	88.20	-40.79 peak
2 14230.000	16.31	39.80	54.38	47.27	49.00	88.20	-39.20 peak
3 pp17869.110	19.22	42.91	54.47	44.84	52.50	74.00	-21.50 peak



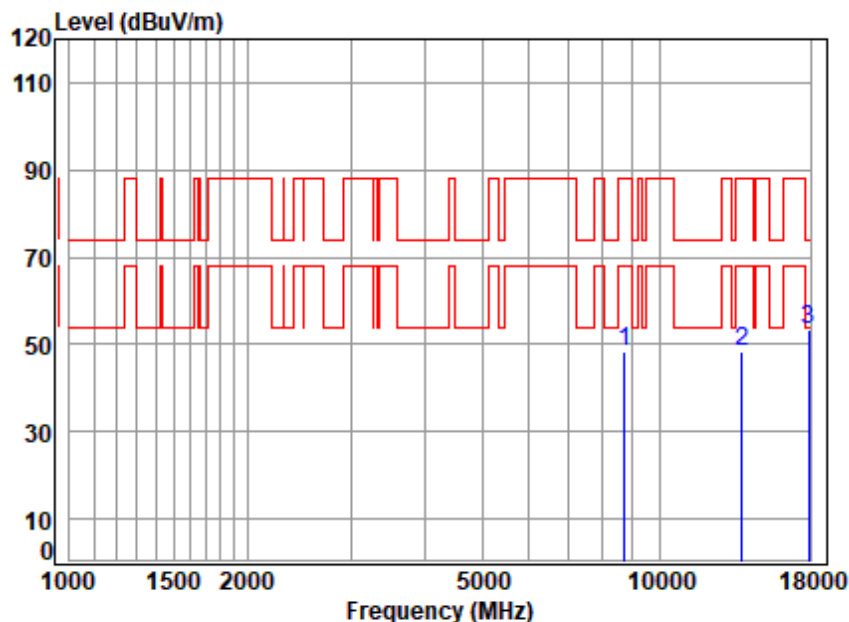
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6885 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8718.090	12.45	38.56	55.25	52.55	48.31	88.20	-39.89 peak
2 13770.000	15.78	39.93	54.42	46.93	48.22	88.20	-39.98 peak
3 pp17869.110	19.22	42.91	54.47	45.71	53.37	74.00	-20.63 peak



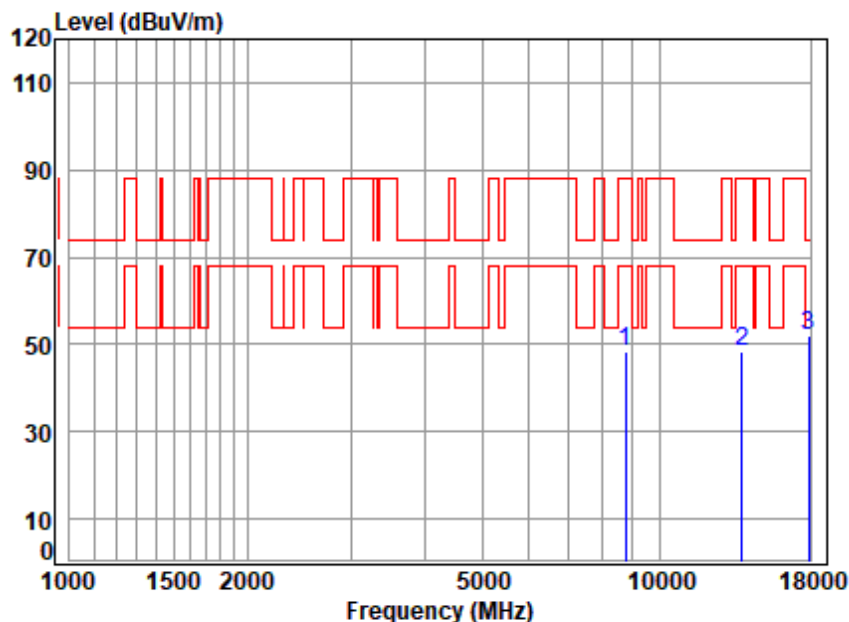
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6885 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8760.611	12.45	38.50	55.22	52.54	48.27	88.20	-39.93 peak
2	13770.000	15.78	39.93	54.42	47.11	48.40	88.20	-39.80 peak
3	pp17869.110	19.22	42.91	54.47	44.40	52.06	74.00	-21.94 peak



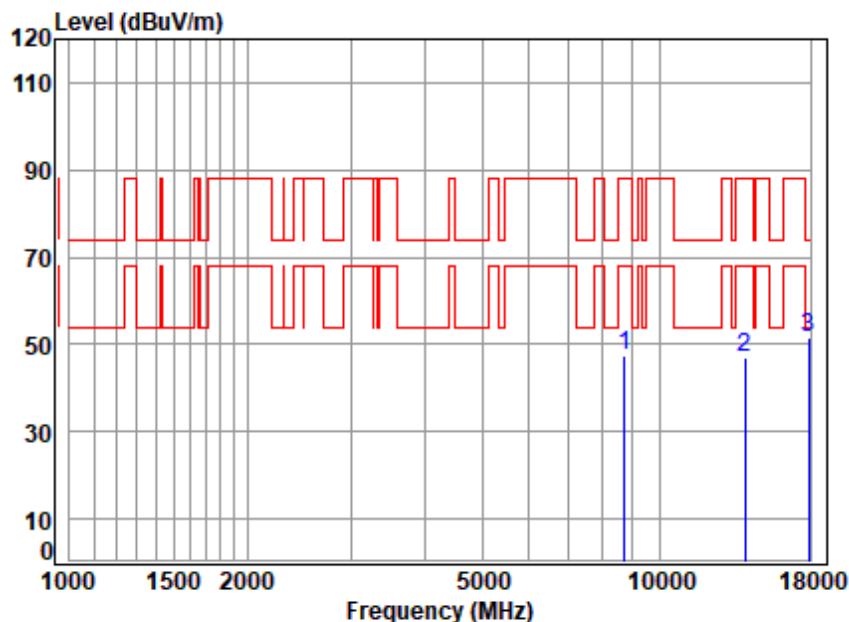
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6965 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8725.162	12.45	38.55	55.25	51.88	47.63	88.20 -40.57 peak
2	13930.000	15.99	39.90	54.41	45.60	47.08	88.20 -41.12 peak
3	pp17869.110	19.22	42.91	54.47	43.88	51.54	74.00 -22.46 peak



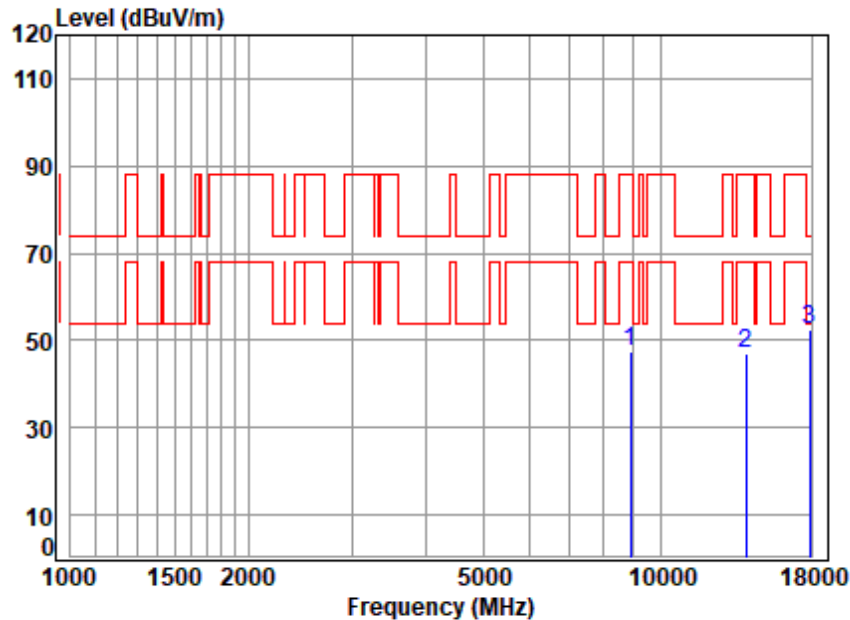
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6965 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8882.220	12.57	38.56	55.11	51.38	47.40	88.20 -40.80 peak
2	13930.000	15.99	39.90	54.41	45.65	47.13	88.20 -41.07 peak
3	pp17869.110	19.22	42.91	54.47	44.72	52.38	74.00 -21.62 peak



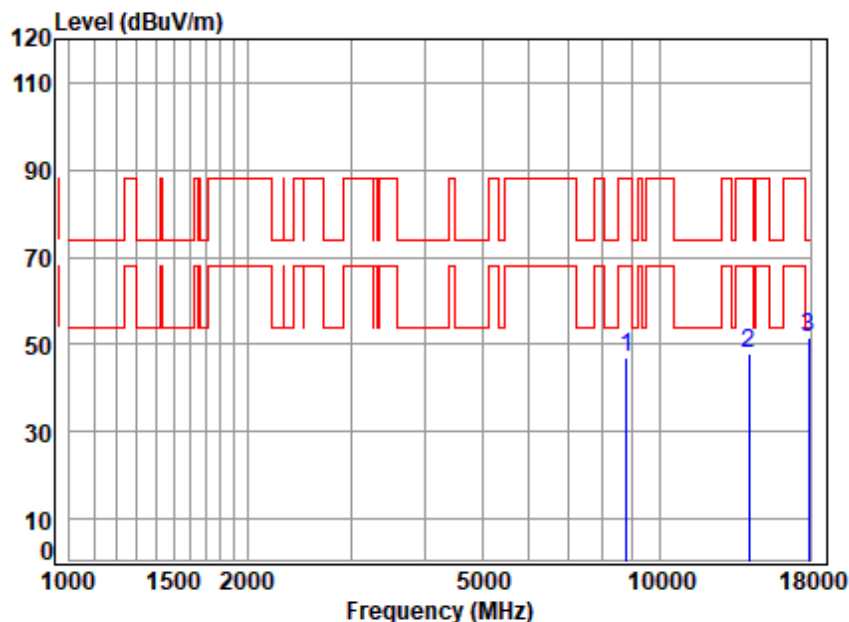
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7085 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8774.832	12.45	38.50	55.20	51.21	46.96	88.20	-41.24 peak
2 14170.000	16.23	39.83	54.38	46.20	47.88	88.20	-40.32 peak
3 pp17869.110	19.22	42.91	54.47	44.10	51.76	74.00	-22.24 peak



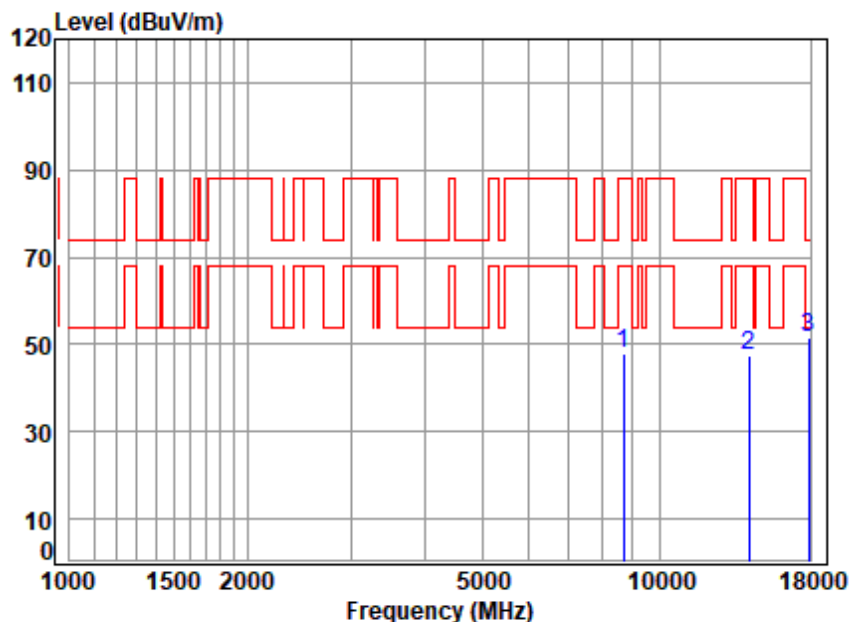
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7085 TX RSE

: WIFI 6E 11AX40

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	8689.856	12.44	38.56	55.28	52.41	48.13	88.20 -40.07 peak
2	14170.000	16.23	39.83	54.38	45.71	47.39	88.20 -40.81 peak
3	pp17869.110	19.22	42.91	54.47	44.02	51.68	74.00 -22.32 peak



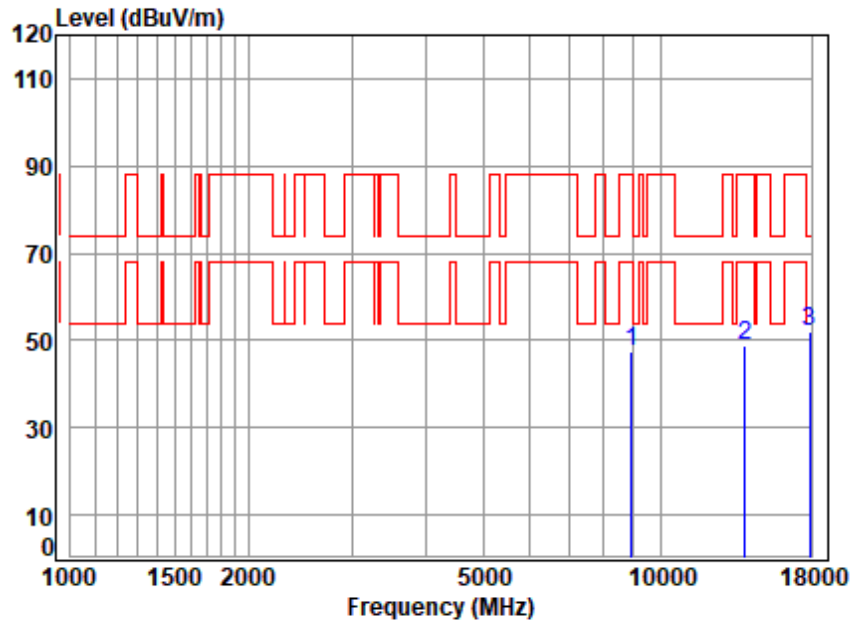
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6945 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8918.308	12.56	38.56	55.07	51.35	47.40	88.20	-40.80 peak
2 13890.000	15.76	39.90	54.41	47.74	48.99	88.20	-39.21 peak
3 pp17869.110	19.22	42.91	54.47	44.24	51.90	74.00	-22.10 peak



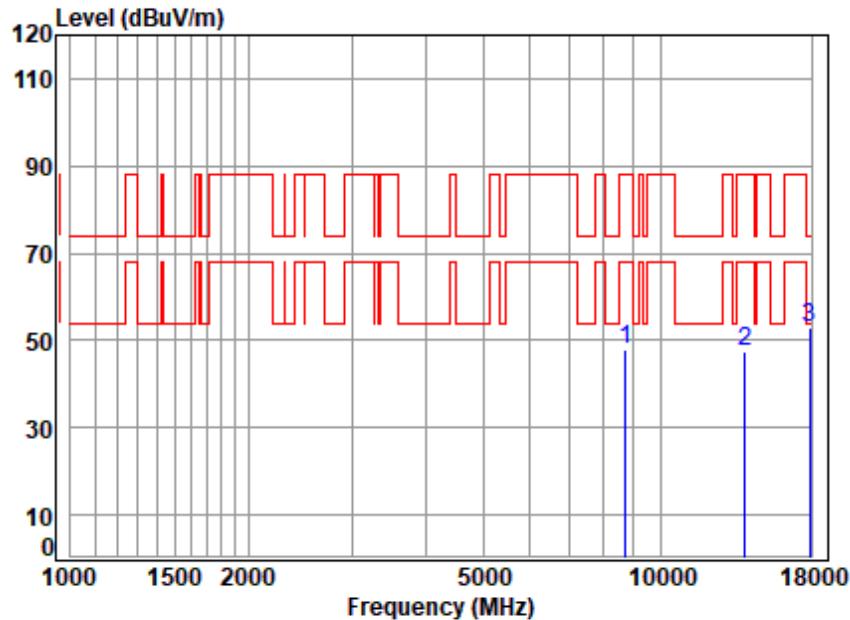
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6945 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8725.162	12.45	38.55	55.25	52.04	47.79	88.20	-40.41 peak
2	13890.000	15.76	39.90	54.41	46.32	47.57	88.20	-40.63 peak
3	pp17869.110	19.22	42.91	54.47	45.23	52.89	74.00	-21.11 peak



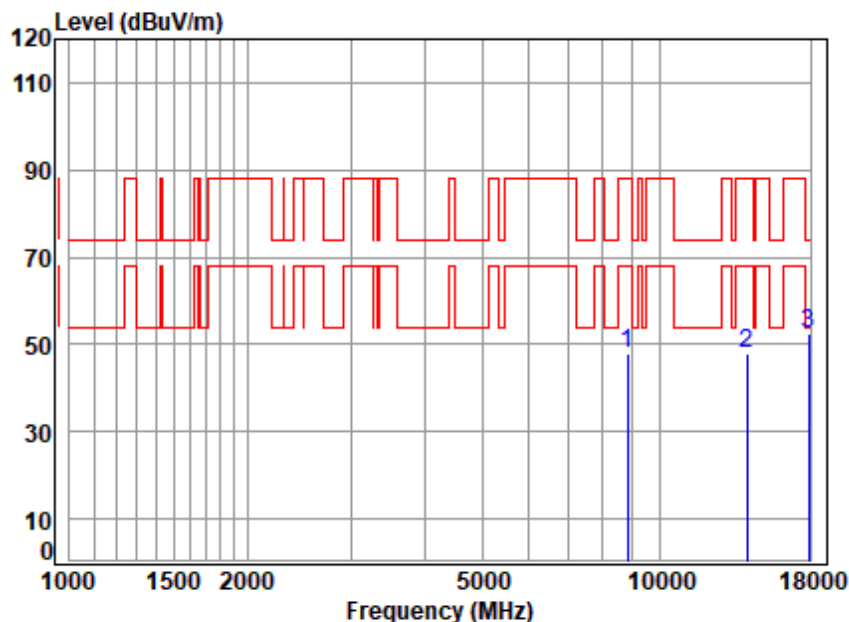
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7025 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	8839.108	12.51	38.50	55.14	51.86	47.73	88.20	-40.47 peak
2	14050.000	16.36	39.90	54.40	46.14	48.00	88.20	-40.20 peak
3	pp17869.110	19.22	42.91	54.47	44.85	52.51	74.00	-21.49 peak



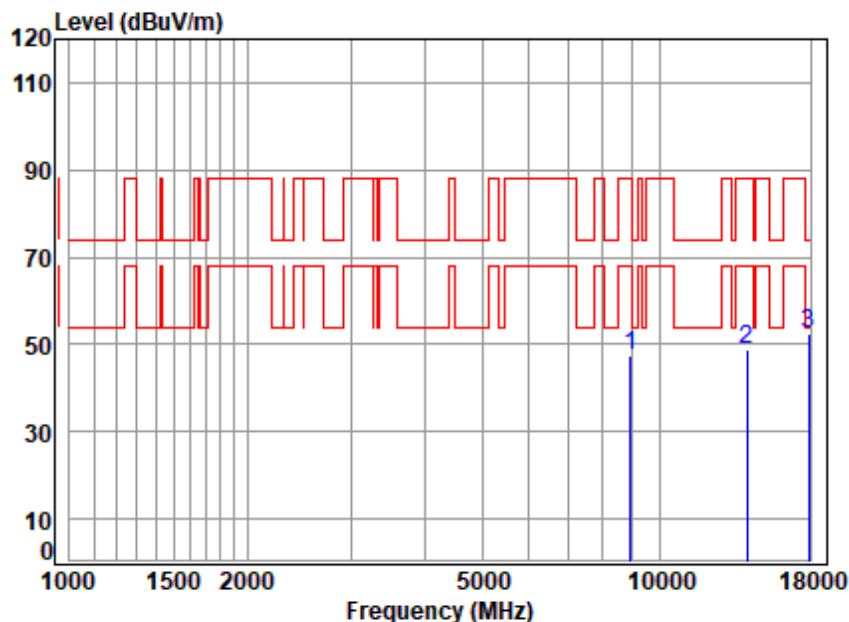
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7025 TX RSE

: WIFI 6E 11AX80

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8932.783	12.52	38.53	55.06	51.33	47.32	88.20	-40.88 peak
2 14050.000	16.36	39.90	54.40	46.87	48.73	88.20	-39.47 peak
3 pp17869.110	19.22	42.91	54.47	44.90	52.56	74.00	-21.44 peak



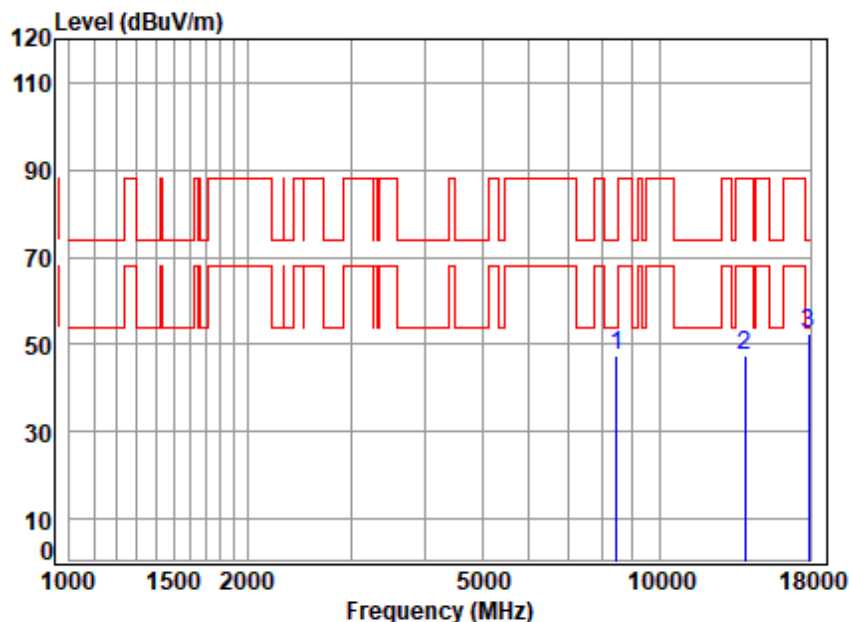
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6985 TX RSE

: WIFI 6E 11AX160

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 8460.394	12.41	38.38	55.49	52.36	47.66	74.00	-26.34 peak
2 13970.000	16.28	39.90	54.40	45.66	47.44	88.20	-40.76 peak
3 pp17869.110	19.22	42.91	54.47	44.94	52.60	74.00	-21.40 peak



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7.10 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Any emission outside the 5925-7125 MHz frequency band shall not exceed -27 dBm/MHz e.i.r.p. spectral density

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.



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7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 18.8 °C

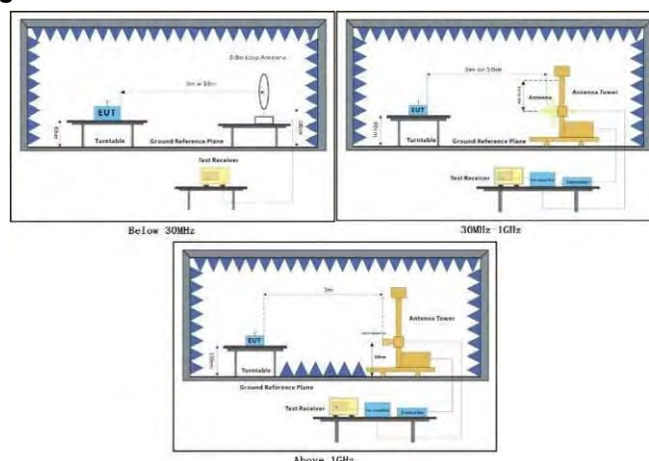
Humidity: 31.0 % RH

Atmospheric Pressure: 1000 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

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

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



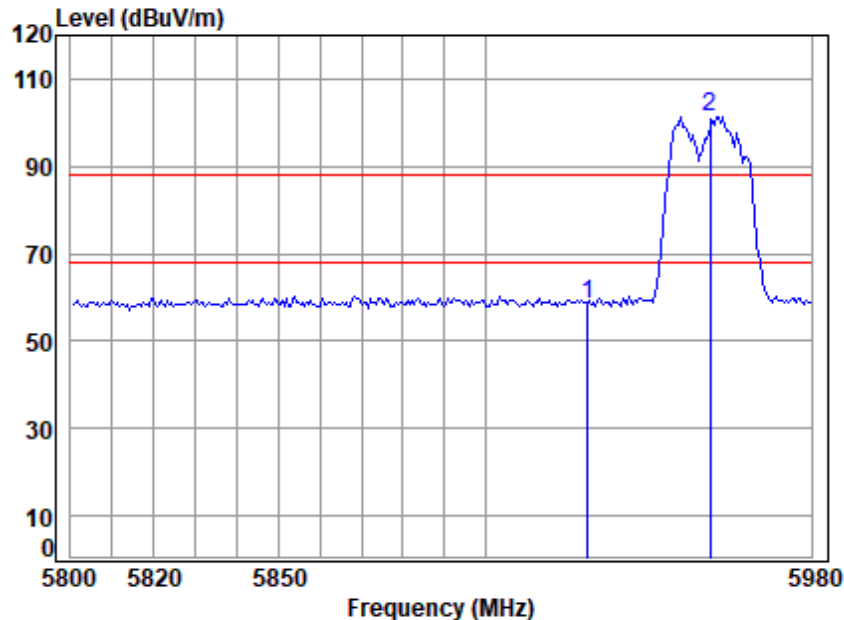
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.49	58.38	88.20	-29.82	peak
2 pp	5955.000	10.85	33.62	30.52	87.38	101.33	88.20	13.13	peak



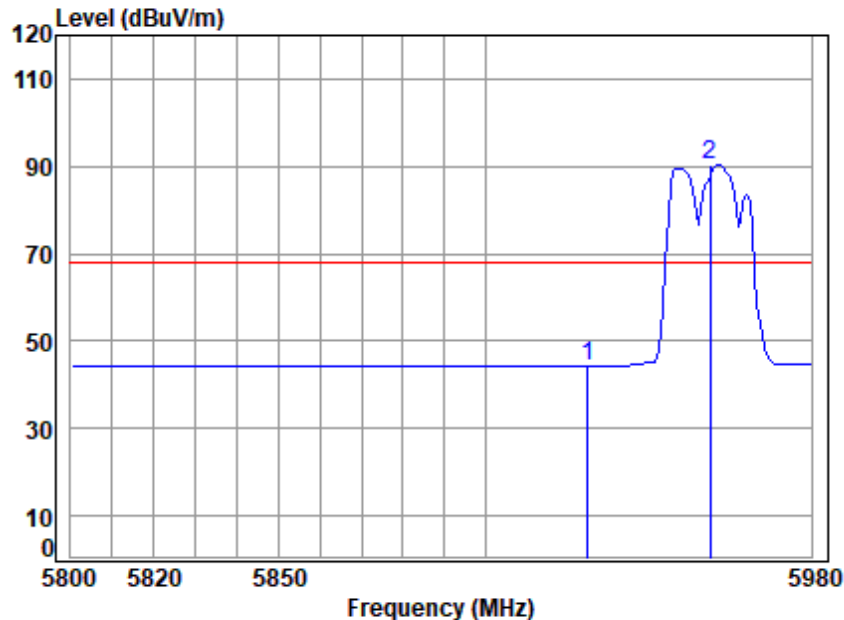
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.38	44.27	68.20	-23.93	Average
2 pp	5955.000	10.85	33.62	30.52	76.39	90.34	68.20	22.14	Average



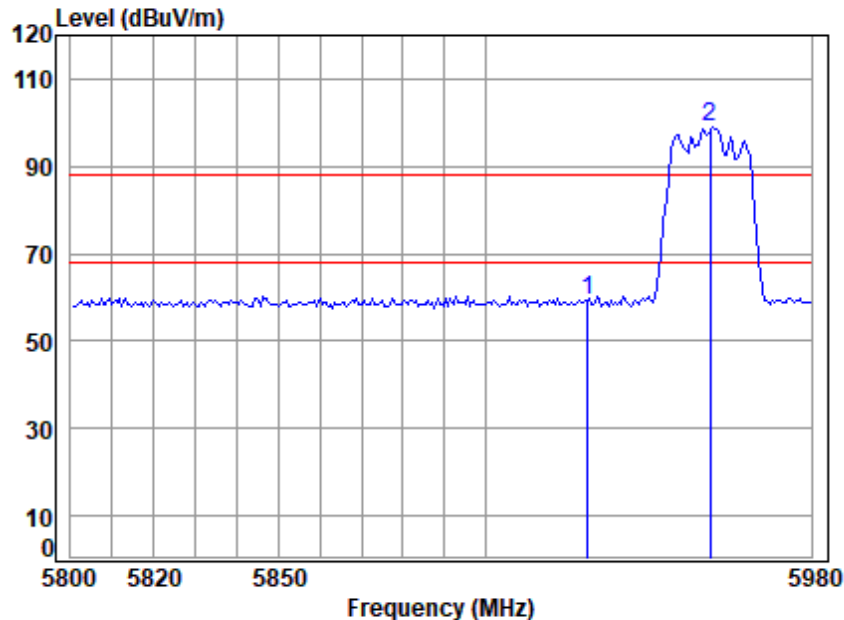
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	45.21	59.10	88.20	-29.10	peak
2 pp	5955.000	10.85	33.62	30.52	85.09	99.04	88.20	10.84	peak



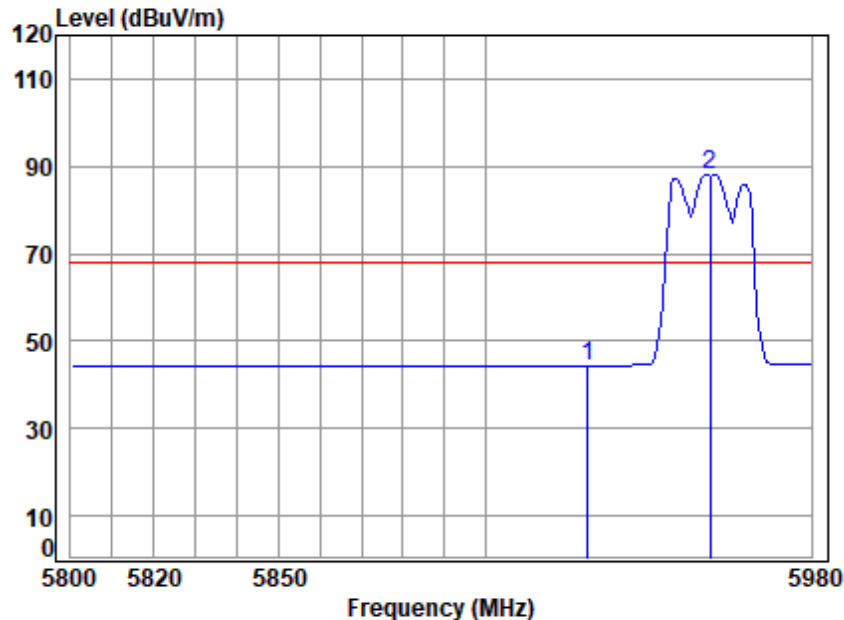
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.42	44.31	68.20	-23.89	Average
2 pp	5955.000	10.85	33.62	30.52	74.28	88.23	68.20	20.03	Average



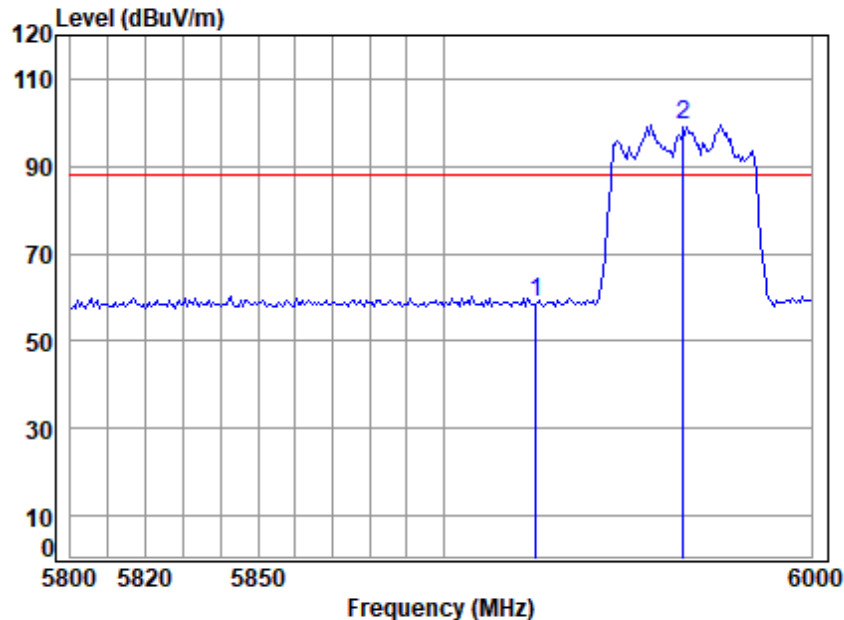
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5965 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.85	58.74	88.20	-29.46	peak
2 pp	5965.000	10.84	33.66	30.51	85.27	99.26	88.20	11.06	peak



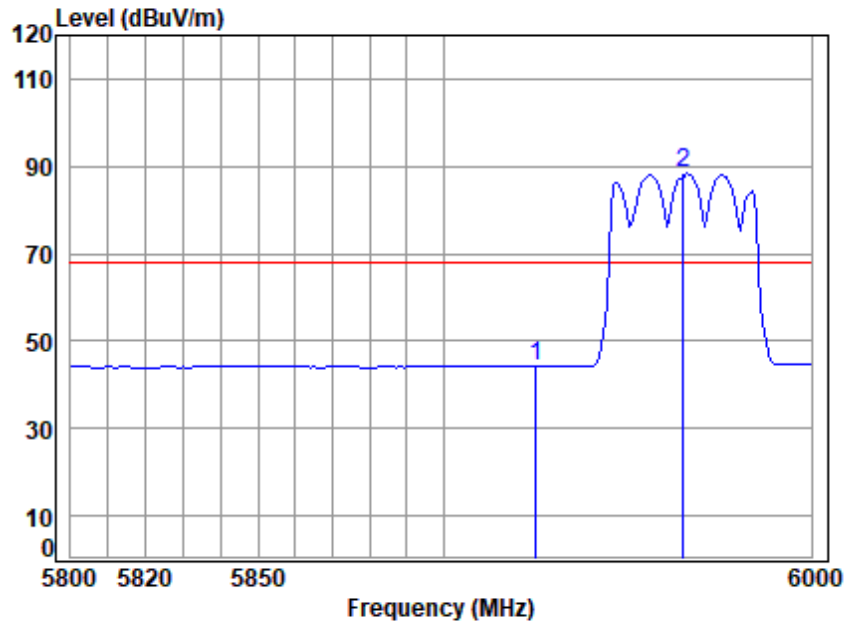
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5965 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.35	44.24	68.20	-23.96	Average
2 pp	5965.000	10.84	33.66	30.51	74.33	88.32	68.20	20.12	Average



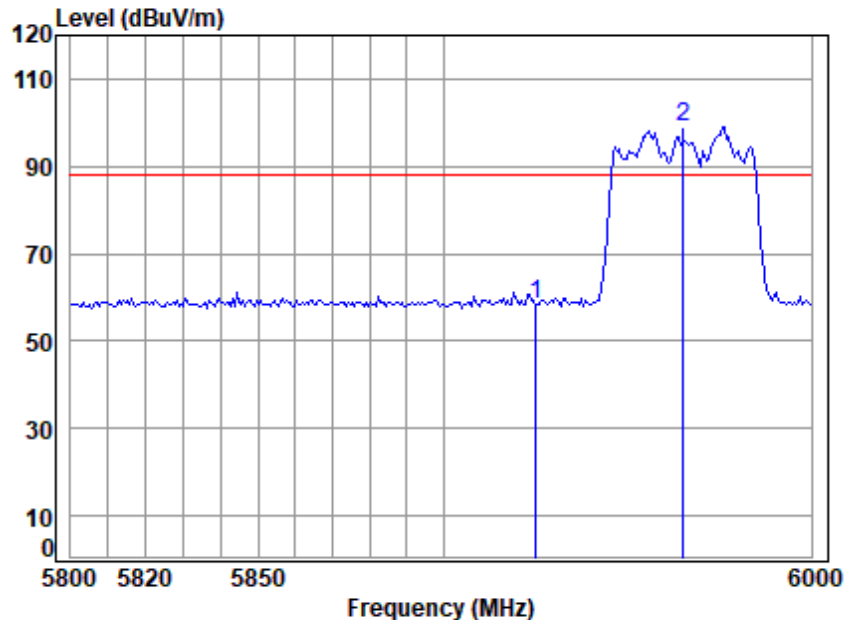
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5965 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.68	58.57	88.20	-29.63	peak
2 pp	5965.000	10.84	33.66	30.51	85.10	99.09	88.20	10.89	peak



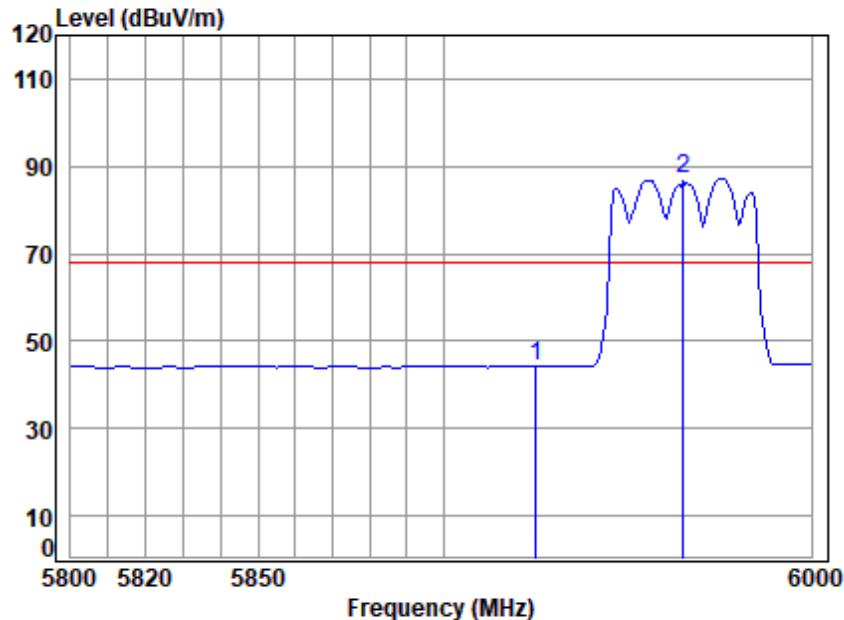
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5965 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.36	44.25	68.20	-23.95	Average
2 pp	5965.000	10.84	33.66	30.51	73.18	87.17	68.20	18.97	Average



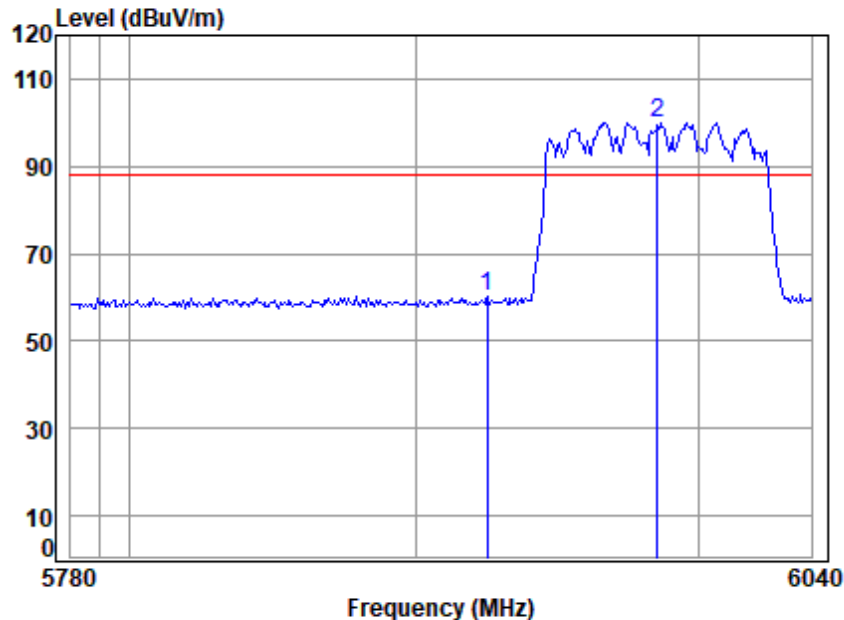
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5985 Band edge

: WIFI 6E MIMO 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	46.23	60.12	88.20	-28.08	peak
2 pp	5985.000	10.82	33.74	30.51	86.09	100.14	88.20	11.94	peak



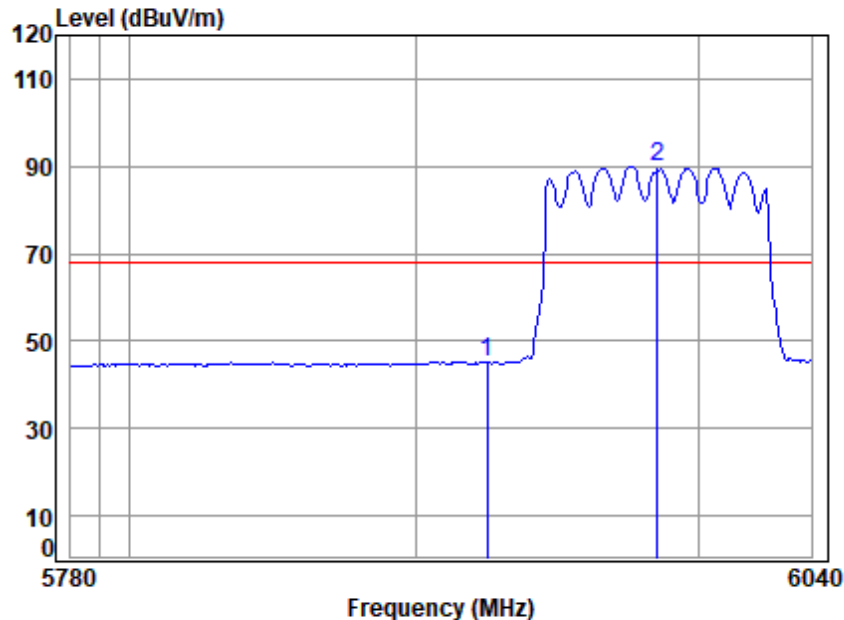
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5985 Band edge

: WIFI 6E MIMO 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	31.19	45.08	68.20	-23.12	Average
2 pp	5985.000	10.82	33.74	30.51	75.82	89.87	68.20	21.67	Average



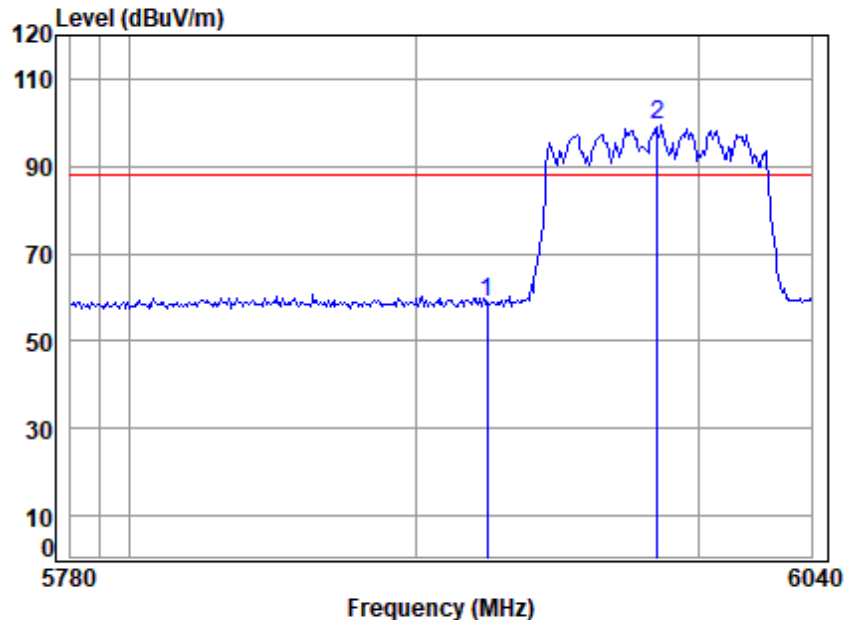
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5985 Band edge

: WIFI 6E MIMO 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.86	58.75	88.20	-29.45	peak
2 pp	5985.000	10.82	33.74	30.51	85.42	99.47	88.20	11.27	peak



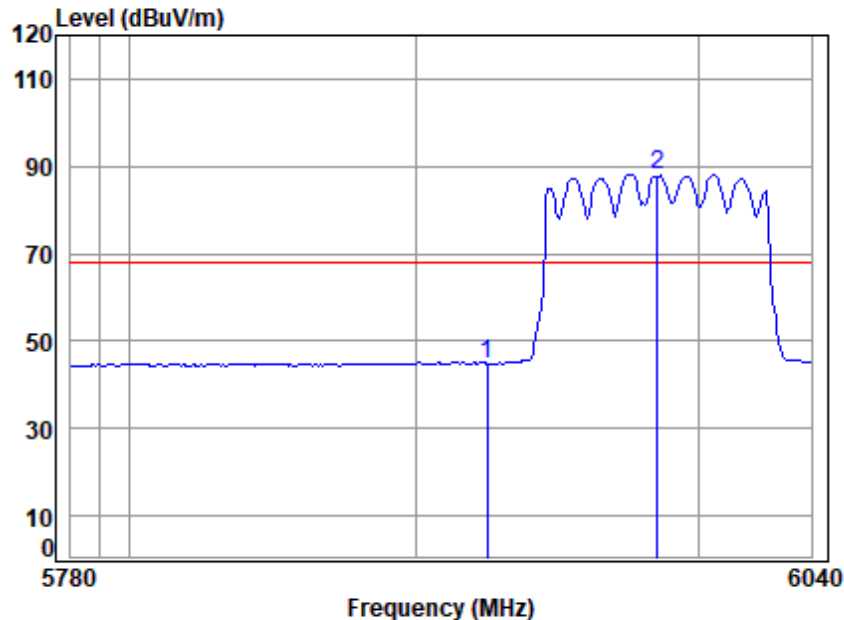
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5985 Band edge

: WIFI 6E MIMO 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.97	44.86	68.20	-23.34	Average
2 pp	5985.000	10.82	33.74	30.51	74.23	88.28	68.20	20.08	Average



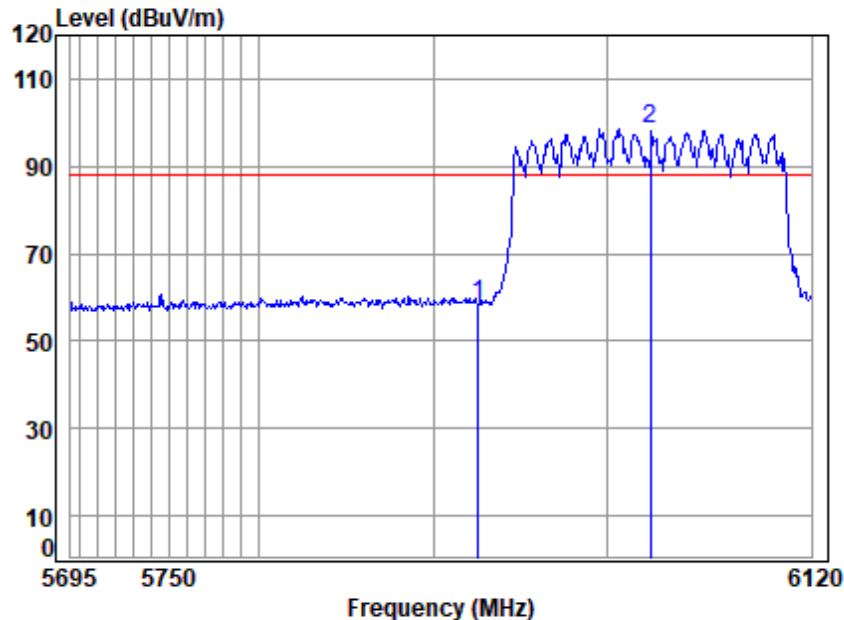
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6025 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	44.44	58.33	88.20	-29.87	peak
2 pp	6025.000	10.82	33.85	30.52	84.55	98.70	88.20	10.50	peak



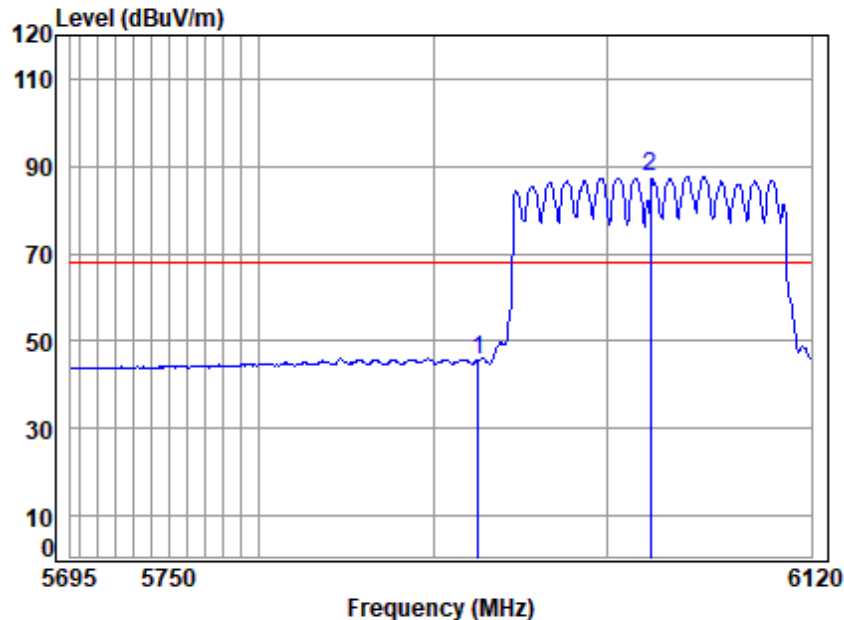
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Test Mode: 18; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6025 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	31.74	45.63	68.20	-22.57	Average
2 pp	6025.000	10.82	33.85	30.52	73.35	87.50	68.20	19.30	Average



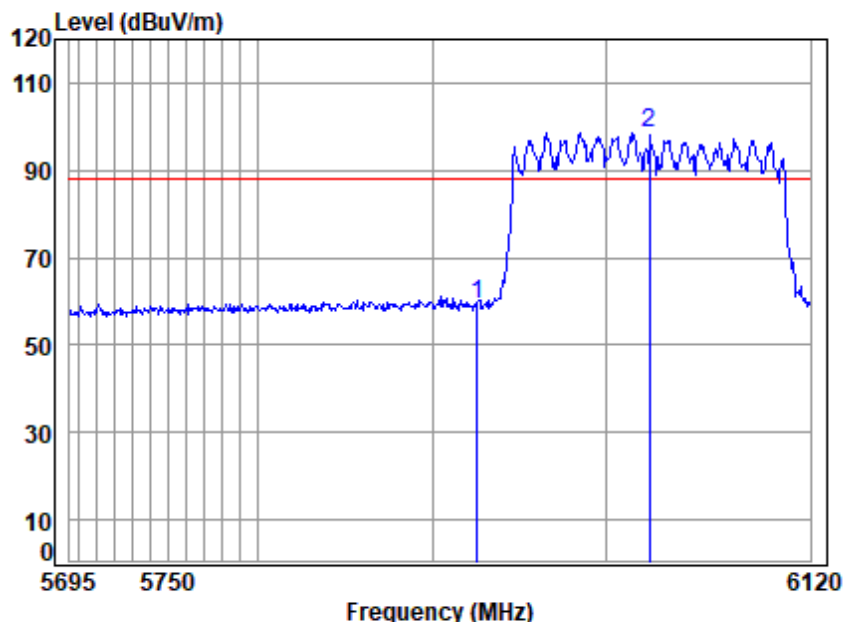
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6025 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	45.21	59.10	88.20	-29.10	peak
2 pp	6025.000	10.82	33.85	30.52	84.32	98.47	88.20	10.27	peak



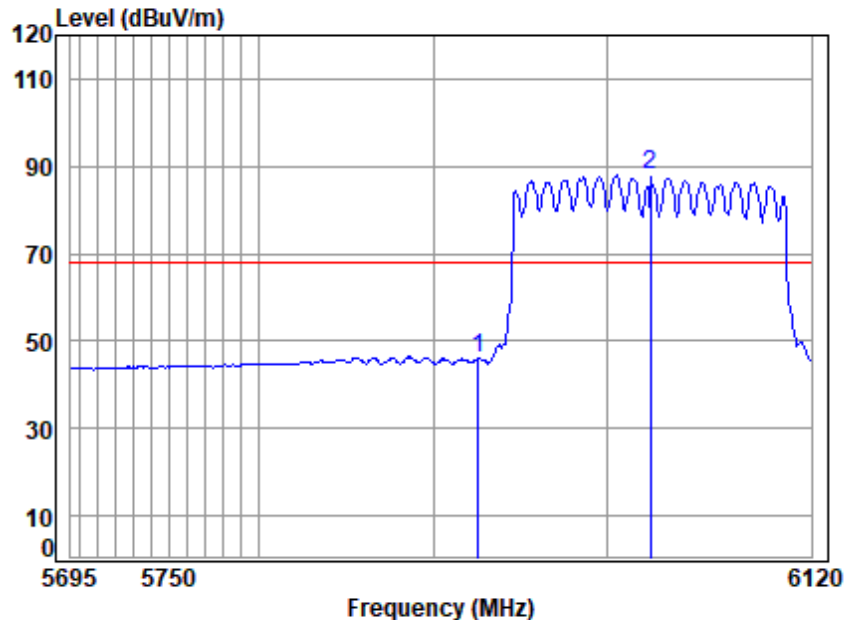
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Test Mode: 18; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6025 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	32.03	45.92	68.20	-22.28	Average
2 pp	6025.000	10.82	33.85	30.52	73.76	87.91	68.20	19.71	Average



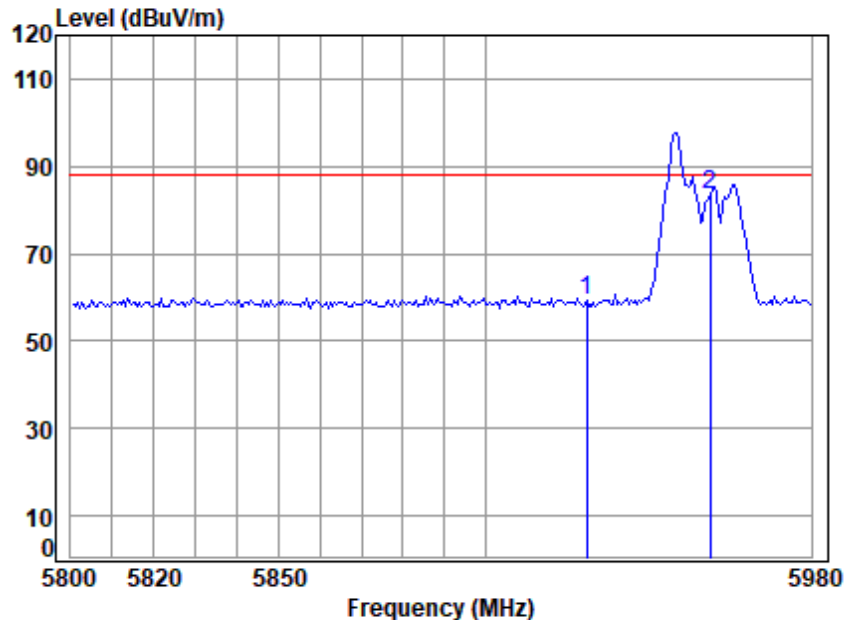
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Test Mode: 18; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5924.768	10.87	33.55	30.53	45.25	59.14	88.20	-29.06	Peak
2 pp	5955.028	10.85	33.62	30.52	69.60	83.55	88.20	-4.65	Peak



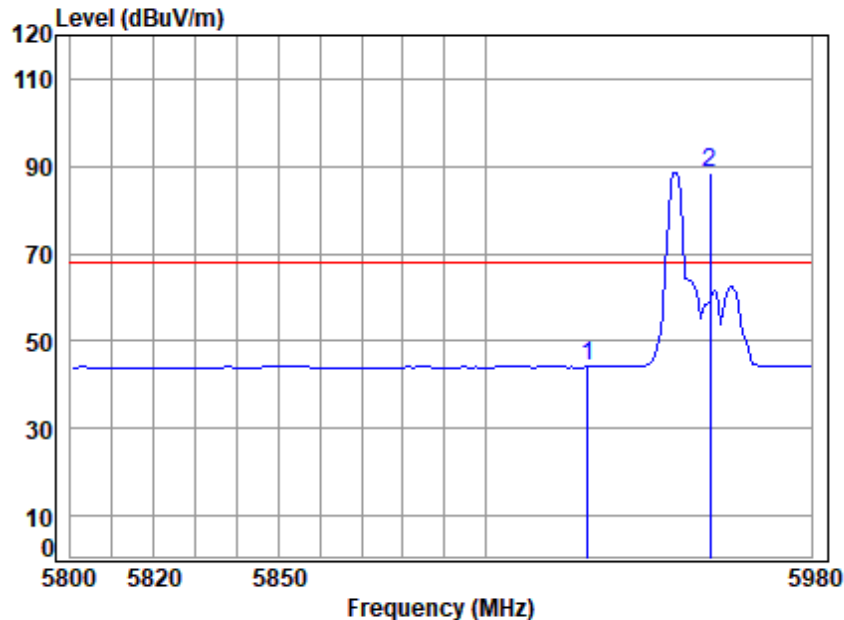
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Test Mode: 18; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.14	44.03	68.20	-24.17	Average
2 pp	5955.000	10.85	33.62	30.52	74.67	88.62	68.20	20.42	Average



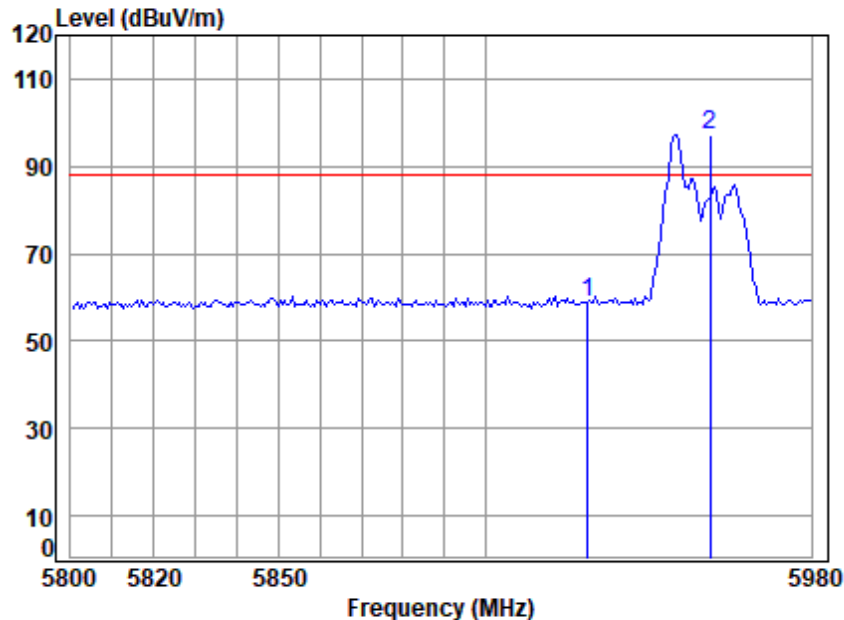
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Test Mode: 18; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	45.08	58.97	88.20	-29.23	peak
2 pp	5955.000	10.85	33.62	30.52	83.42	97.37	88.20	9.17	peak



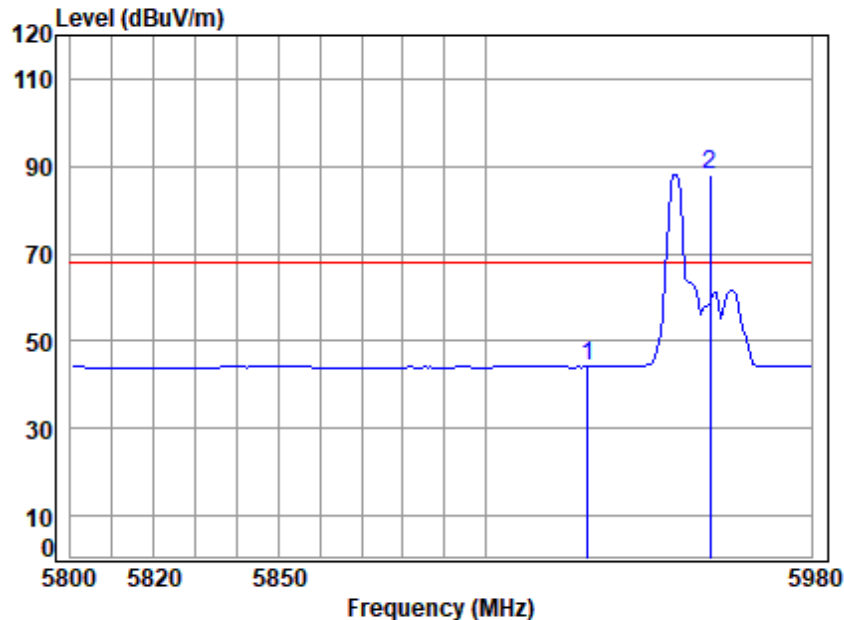
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Test Mode: 18; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 5955 Band edge

: WIFI 6E MIMO 11AX20_RU26_0

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5925.000	10.87	33.55	30.53	30.17	44.06	68.20	-24.14	Average
2 pp	5955.000	10.85	33.62	30.52	74.30	88.25	68.20	20.05	Average



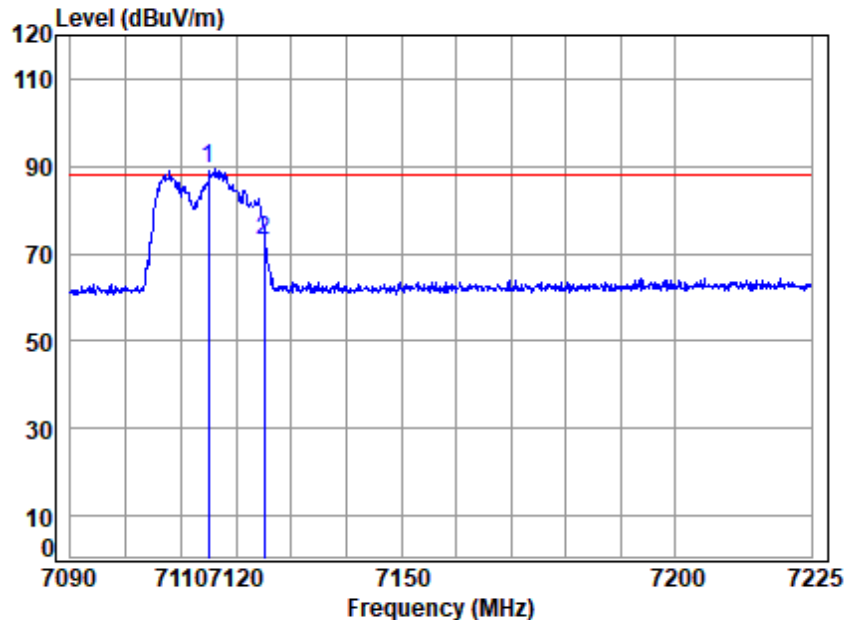
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7115.000	11.81	36.43	31.26	72.47	89.45	88.20	1.25	peak
2 7125.020	11.82	36.45	31.26	56.20	73.21	88.20	-14.99	peak



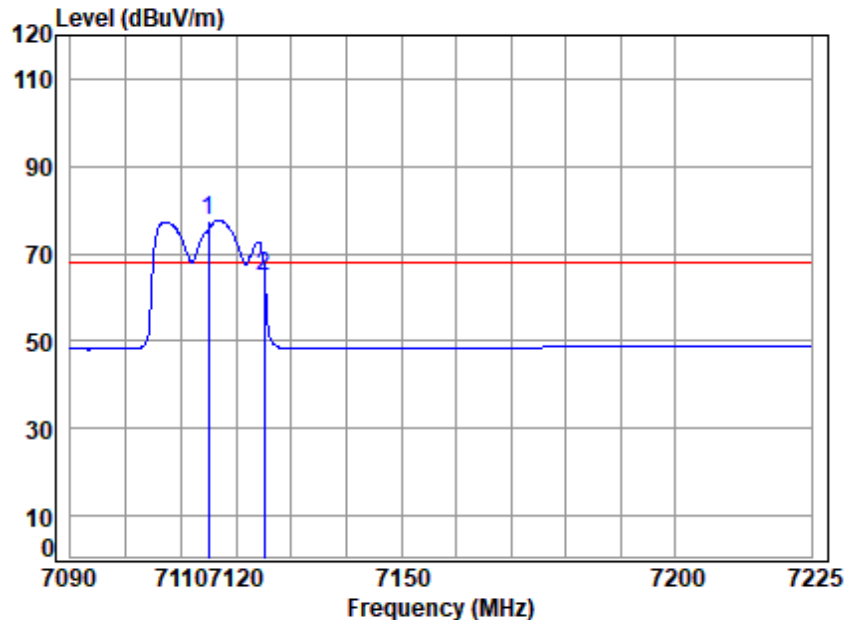
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7115.000	11.81	36.43	31.26	60.63	77.61	68.20	9.41	Average
2	7125.020	11.82	36.45	31.26	47.90	64.91	68.20	-3.29	Average



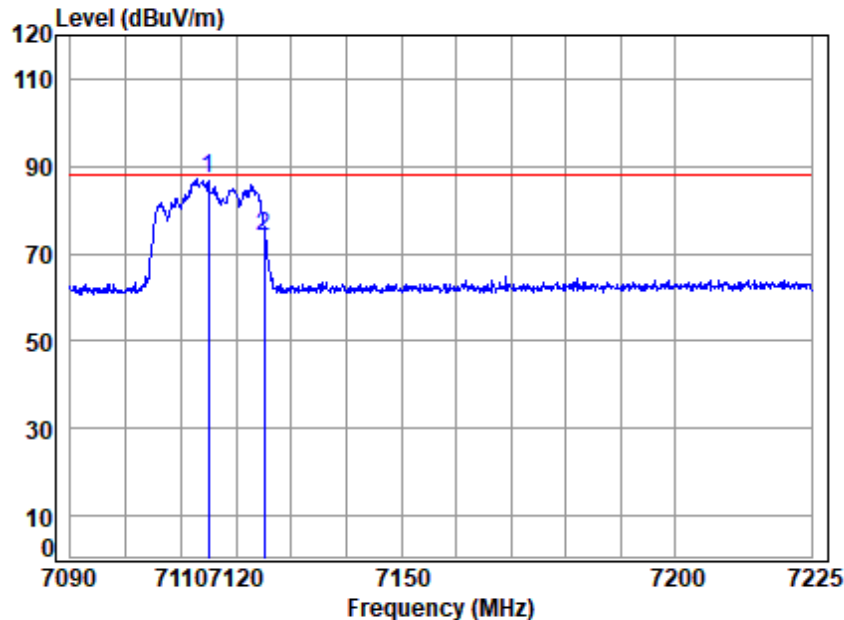
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 7115.000	11.81	36.43	31.26	70.30	87.28	88.20	-0.92 peak
2	7125.020	11.82	36.45	31.26	56.94	73.95	88.20	-14.25 peak



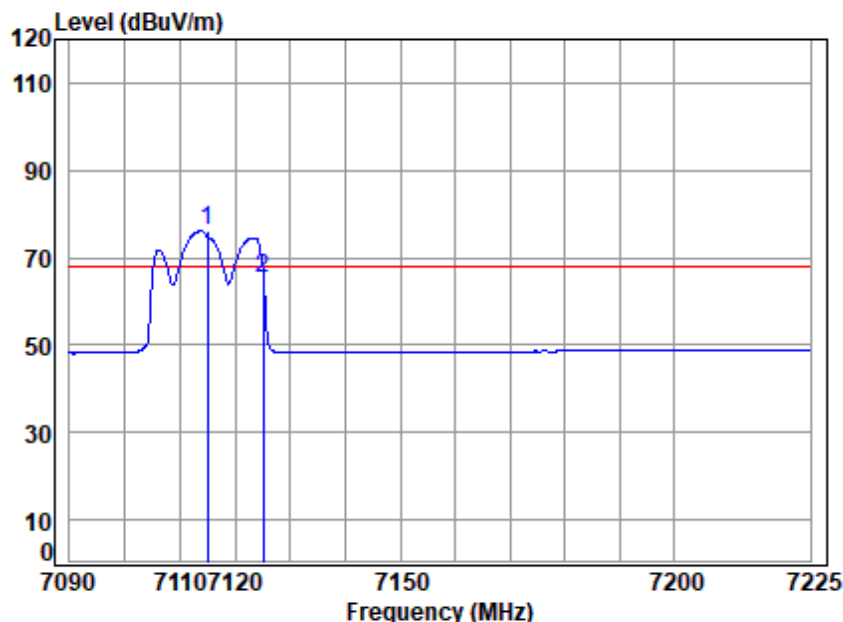
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7115.000	11.81	36.43	31.26	59.08	76.06	68.20	7.86	Average
2	7125.020	11.82	36.45	31.26	48.11	65.12	68.20	-3.08	Average



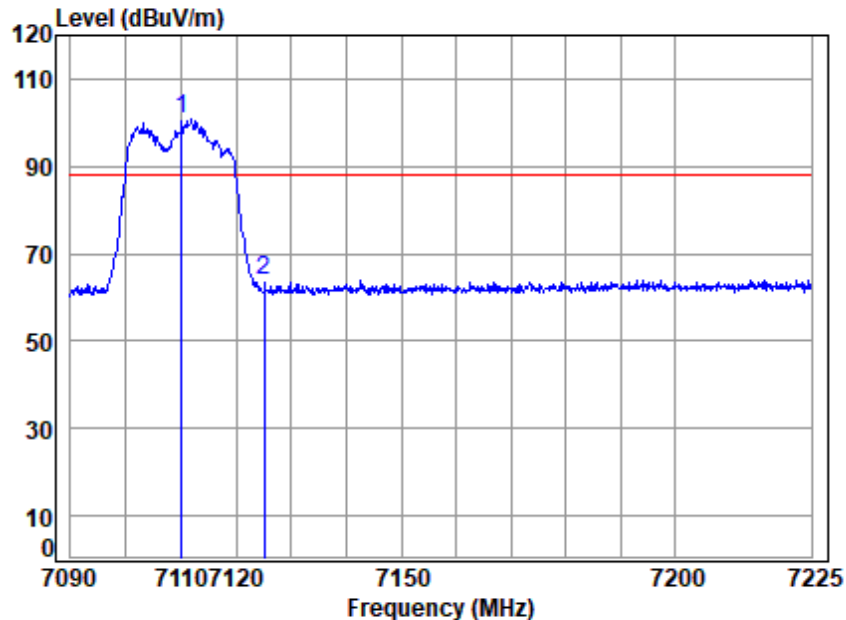
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp 7110.000	11.81	36.42	31.26	84.00	100.97	88.20	12.77 peak
2	7125.020	11.82	36.45	31.26	47.00	64.01	88.20	-24.19 peak



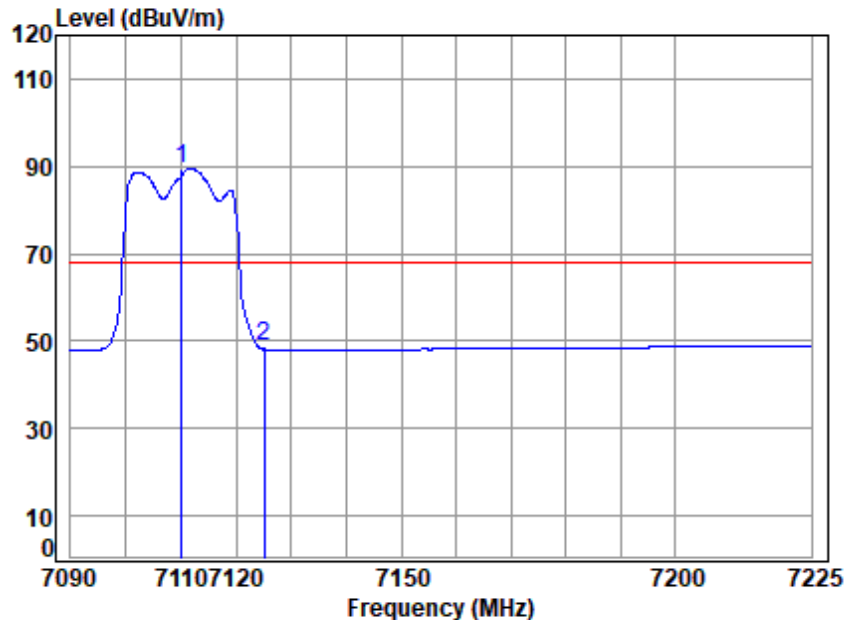
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	7110.000	11.81	36.42	31.26	72.39	89.36	68.20	21.16 Average
2	7125.020	11.82	36.45	31.26	31.80	48.81	68.20	-19.39 Average



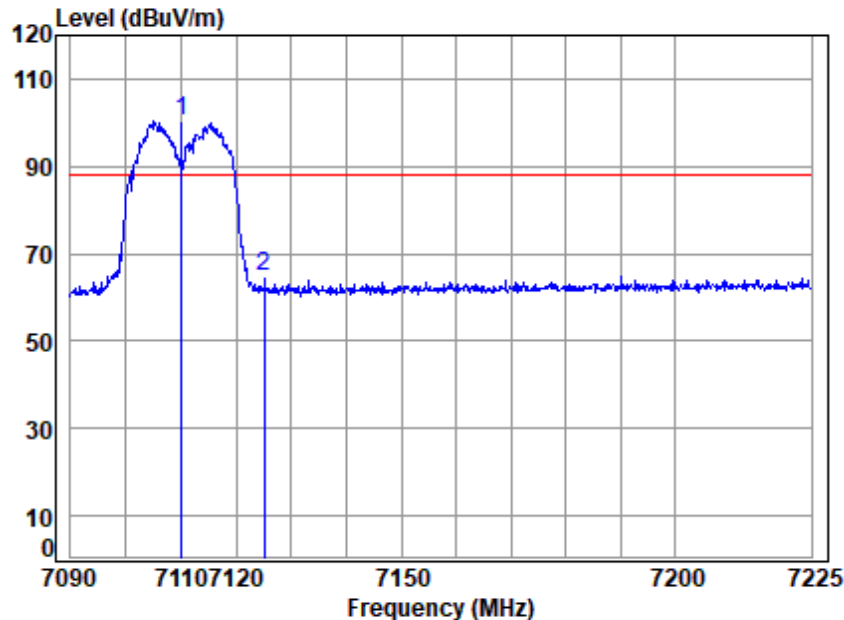
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7110.000	11.81	36.42	31.26	83.21	100.18	88.20	11.98	peak
2	7125.020	11.82	36.45	31.26	47.69	64.70	88.20	-23.50	peak



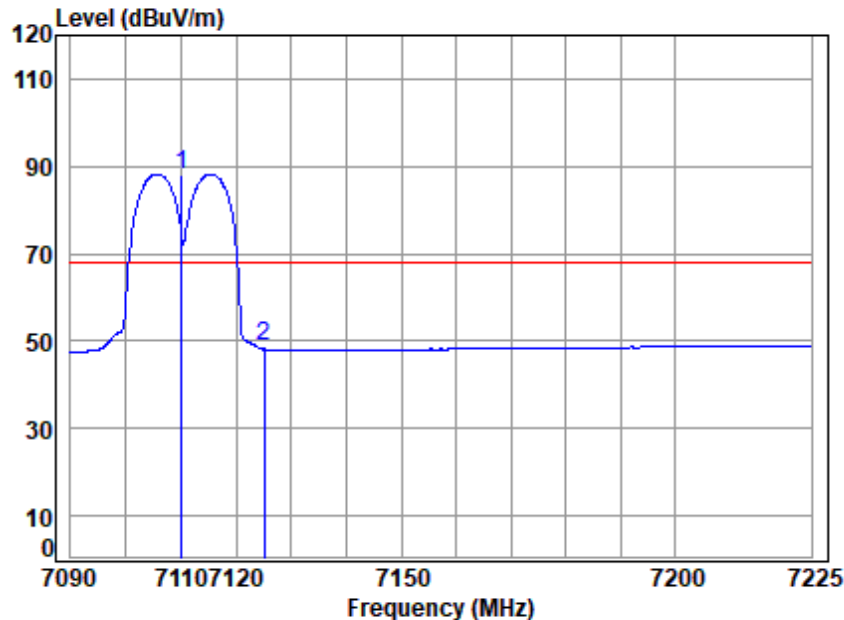
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7110.000	11.81	36.42	31.26	71.28	88.25	68.20	20.05	Average
2 7125.020	11.82	36.45	31.26	31.82	48.83	68.20	-19.37	Average



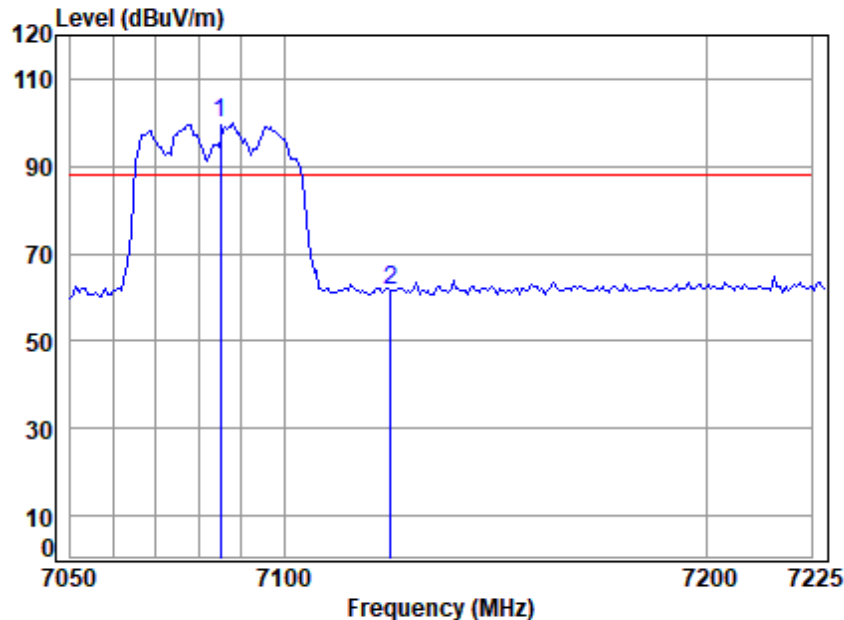
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7085 Band edge

: WIFI 6E MIMO 11AX40

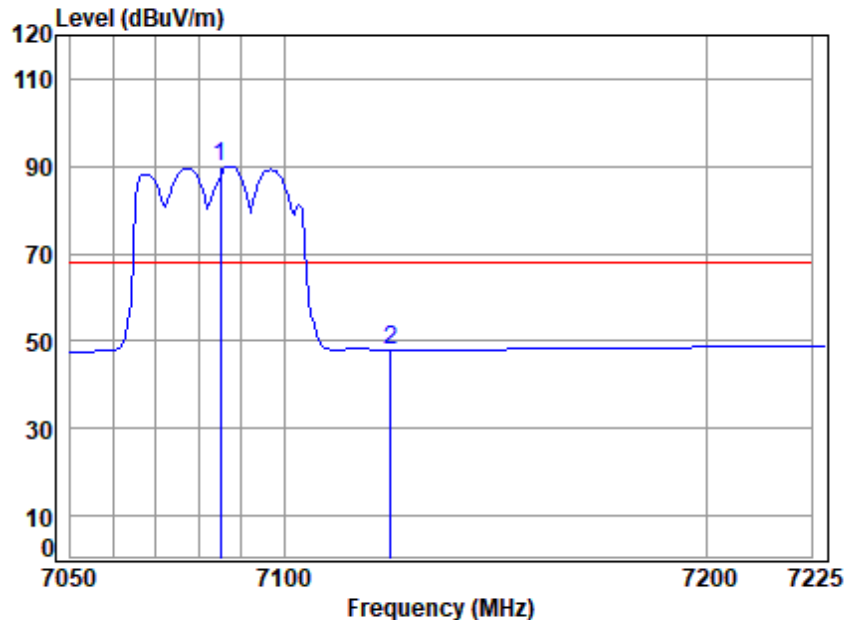
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7085.000	11.77	36.37	31.24	83.08	99.98	88.20	11.78	peak
2	7125.000	11.82	36.45	31.26	44.70	61.71	88.20	-26.49	peak



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Test Mode: 21; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7085 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7085.000	11.77	36.37	31.24	73.13	90.03	68.20	21.83	Average
2	7125.000	11.82	36.45	31.26	31.03	48.04	68.20	-20.16	Average



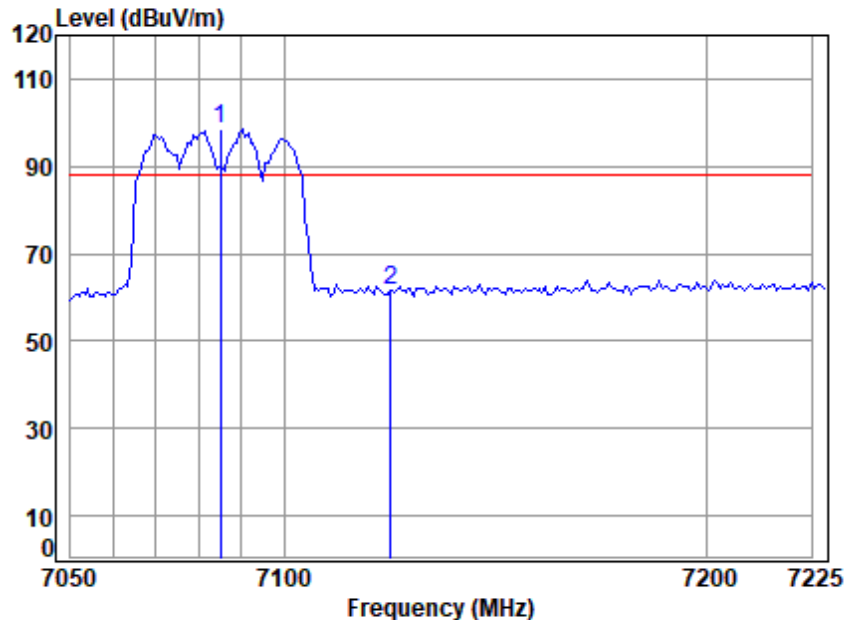
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7085 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7085.000	11.77	36.37	31.24	81.59	98.49	88.20	10.29	peak
2	7125.000	11.82	36.45	31.26	44.52	61.53	88.20	-26.67	peak



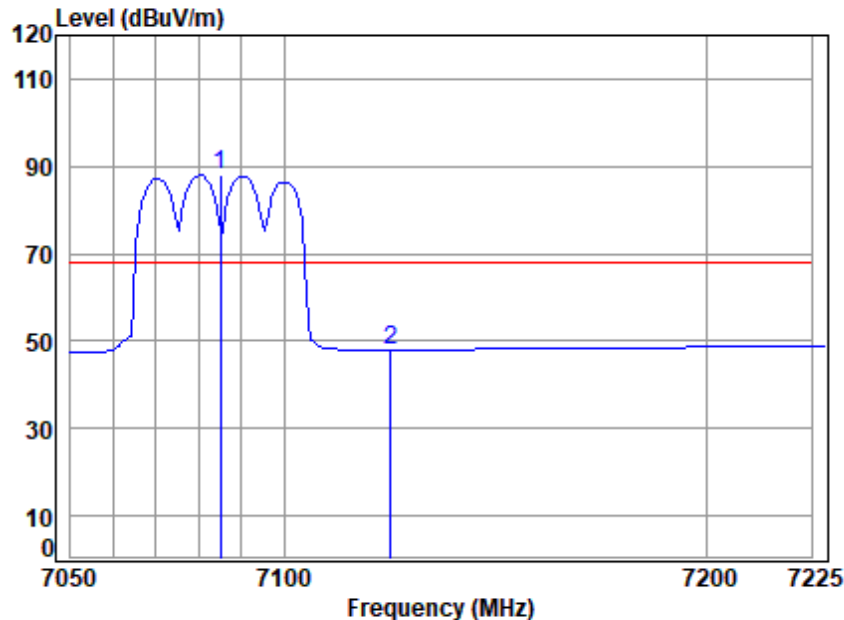
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7085 Band edge

: WIFI 6E MIMO 11AX40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7085.000	11.77	36.37	31.24	71.02	87.92	68.20	19.72	Average
2	7125.000	11.82	36.45	31.26	30.99	48.00	68.20	-20.20	Average



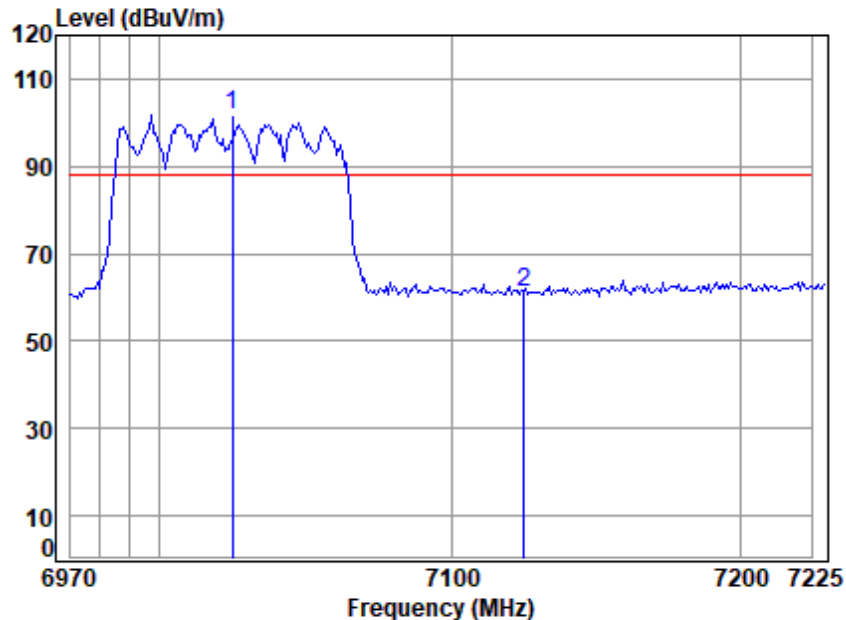
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7025 Band edge

: WIFI 6E MIMO 11AX80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7025.000	11.64	36.25	31.21	85.05	101.73	88.20	13.53	peak
2 7125.000	11.82	36.45	31.26	44.28	61.29	88.20	-26.91	peak



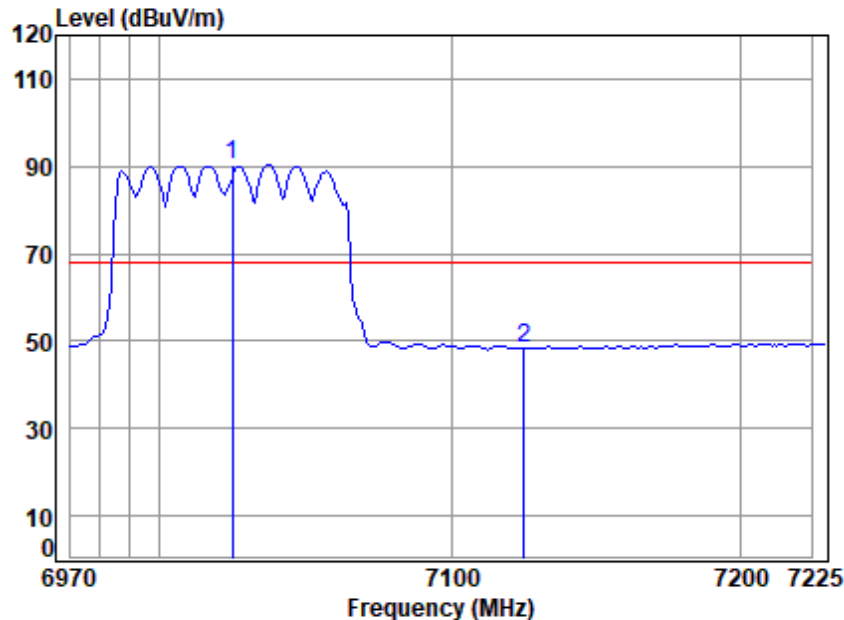
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7025 Band edge

: WIFI 6E MIMO 11AX80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7025.000	11.64	36.25	31.21	73.61	90.29	68.20	22.09	Average
2	7125.000	11.82	36.45	31.26	31.27	48.28	68.20	-19.92	Average



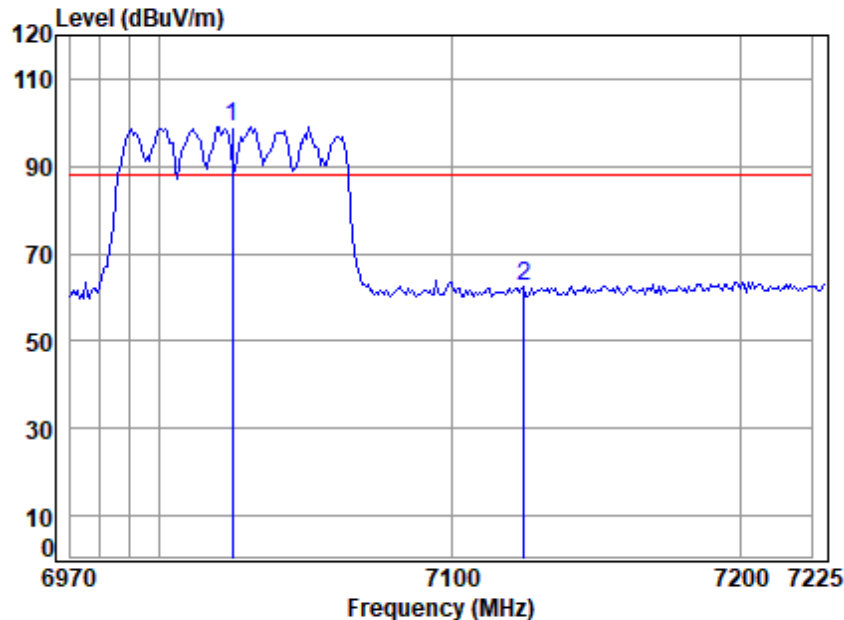
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7025 Band edge

: WIFI 6E MIMO 11AX80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7025.000	11.64	36.25	31.21	82.55	99.23	88.20	11.03	peak
2 7125.000	11.82	36.45	31.26	45.30	62.31	88.20	-25.89	peak



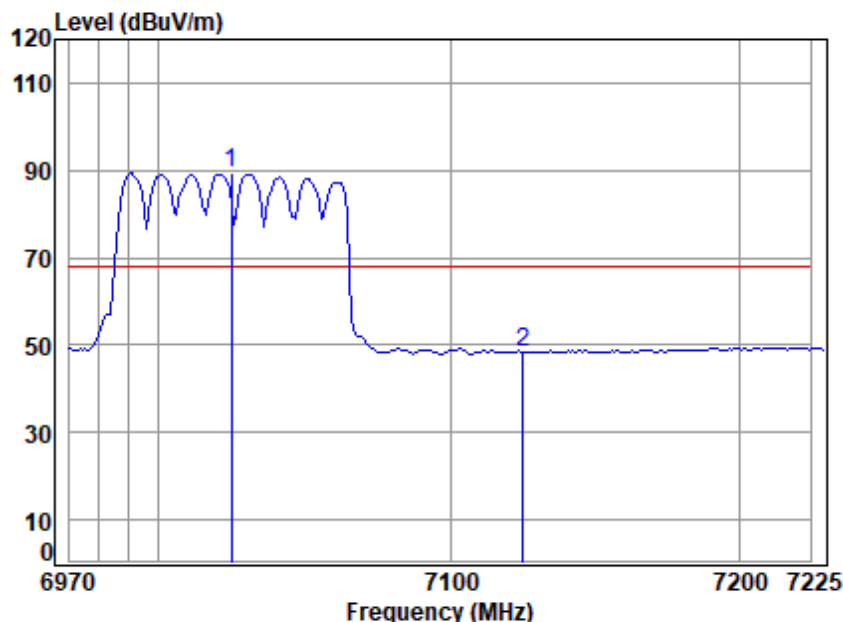
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7025 Band edge

: WIFI 6E MIMO 11AX80

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7025.000	11.64	36.25	31.21	72.65	89.33	68.20	21.13	Average
2 7125.000	11.82	36.45	31.26	31.30	48.31	68.20	-19.89	Average



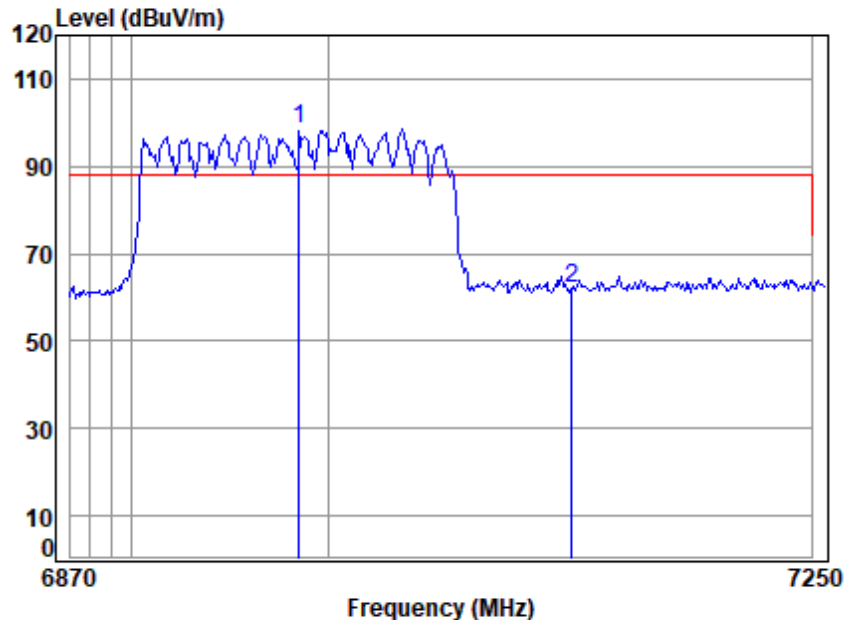
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6985 Band edge

: WIFI 6E MIMO 11AX160

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 6985.000	11.57	36.17	31.19	82.09	98.64	88.20	10.44	peak
2 7125.000	11.82	36.45	31.26	44.89	61.90	88.20	-26.30	peak



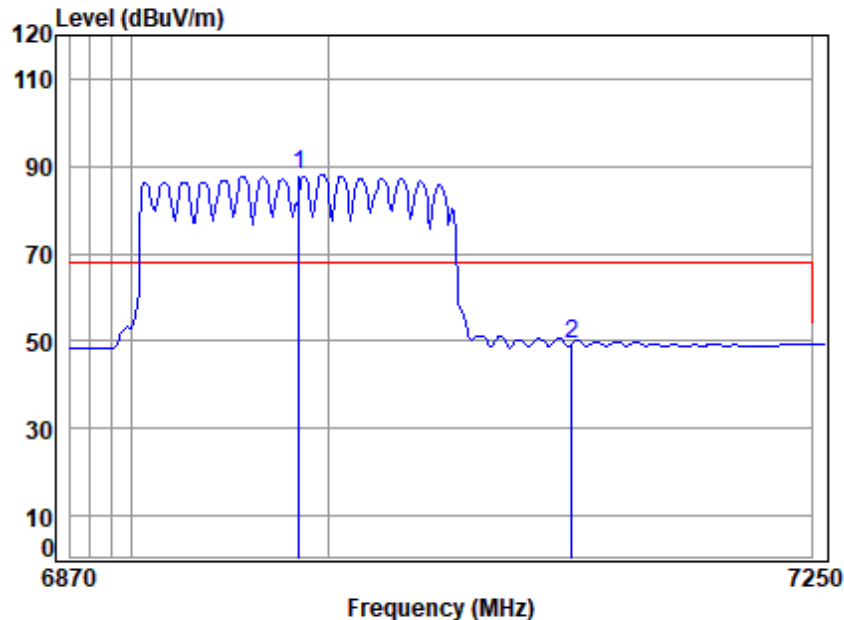
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 6985 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	6985.000	11.57	36.17	31.19	71.50	88.05	68.20	19.85	Average
2	7125.000	11.82	36.45	31.26	32.27	49.28	68.20	-18.92	Average



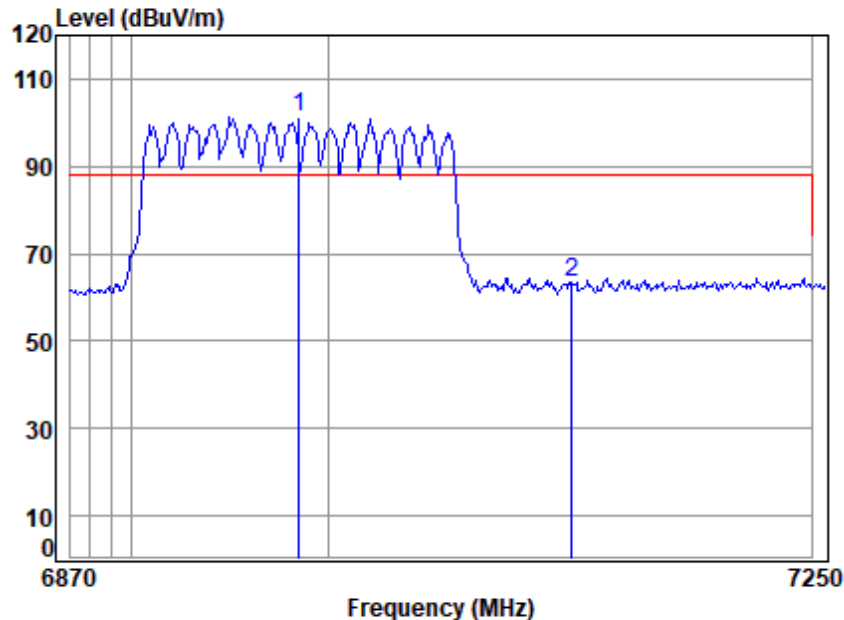
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6985 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 6985.000	11.57	36.17	31.19	84.57	101.12	88.20	12.92	peak
2	7125.000	11.82	36.45	31.26	46.63	63.64	88.20	-24.56	peak



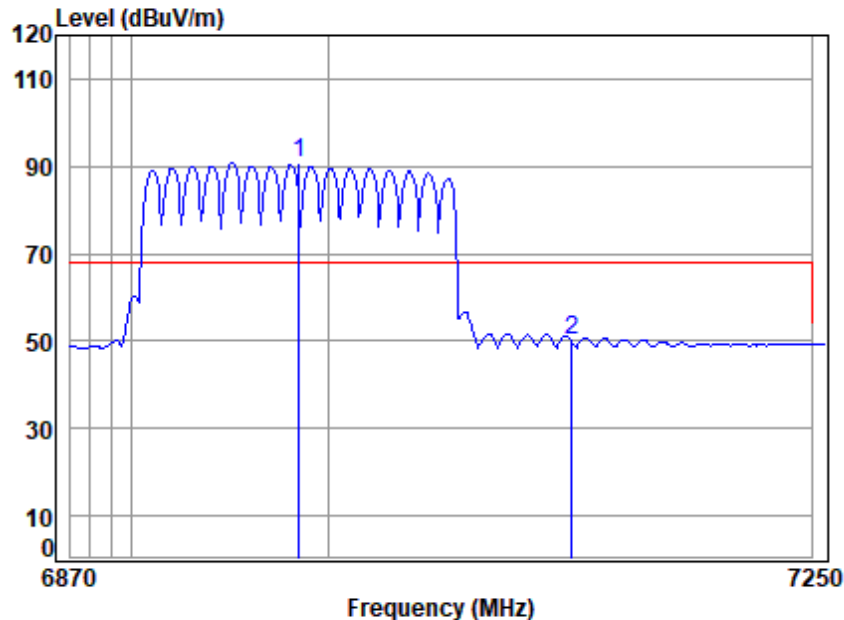
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 6985 Band edge

: WIFI 6E MIMO 11AX160

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	6985.000	11.57	36.17	31.19	74.12	90.67	68.20	22.47 Average
2	7125.000	11.82	36.45	31.26	33.09	50.10	68.20	-18.10 Average



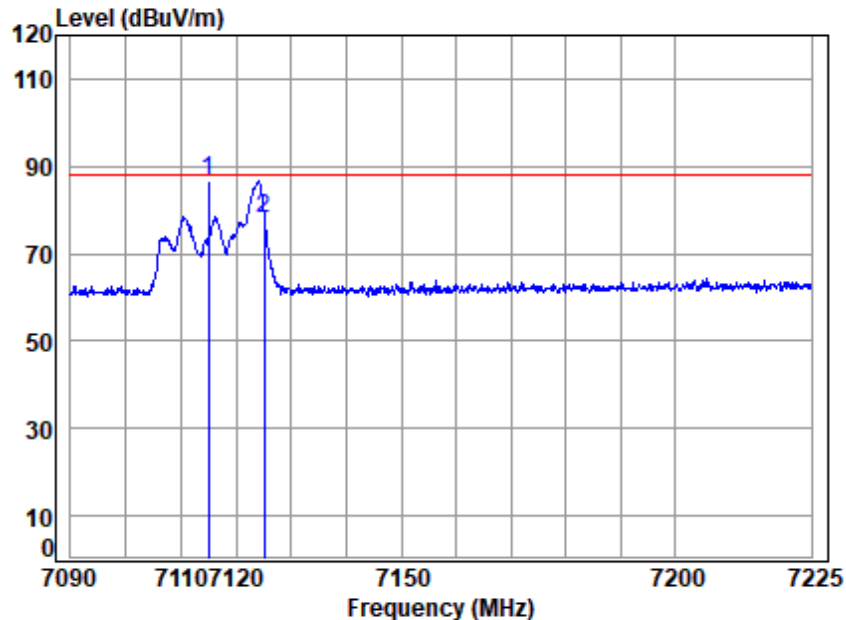
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Test Mode: 21; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7115.000	11.81	36.43	31.26	69.52	86.50	88.20	-1.70	peak
2	7125.020	11.82	36.45	31.26	60.86	77.87	88.20	-10.33	peak



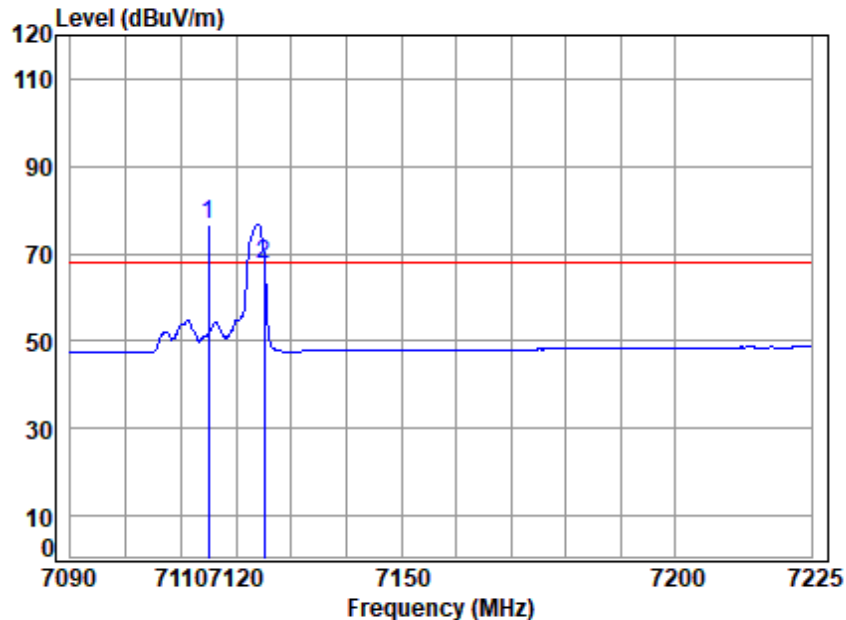
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Test Mode: 21; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7115.000	11.81	36.43	31.26	59.69	76.67	68.20	8.47	Average
2	7125.020	11.82	36.45	31.26	50.39	67.40	68.20	-0.80	Average



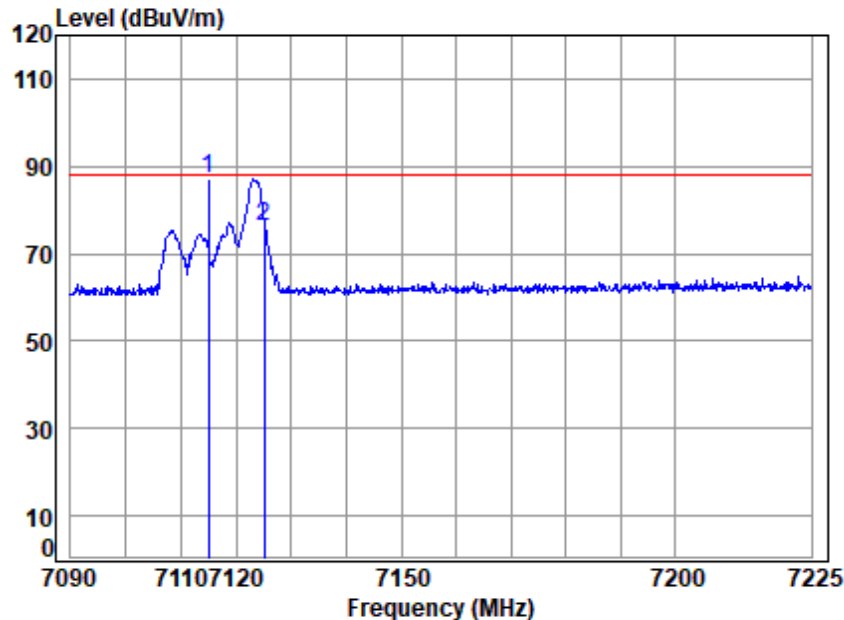
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Test Mode: 21; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7115.000	11.81	36.43	31.26	69.97	86.95	88.20	-1.25	peak
2	7125.020	11.82	36.45	31.26	59.06	76.07	88.20	-12.13	peak



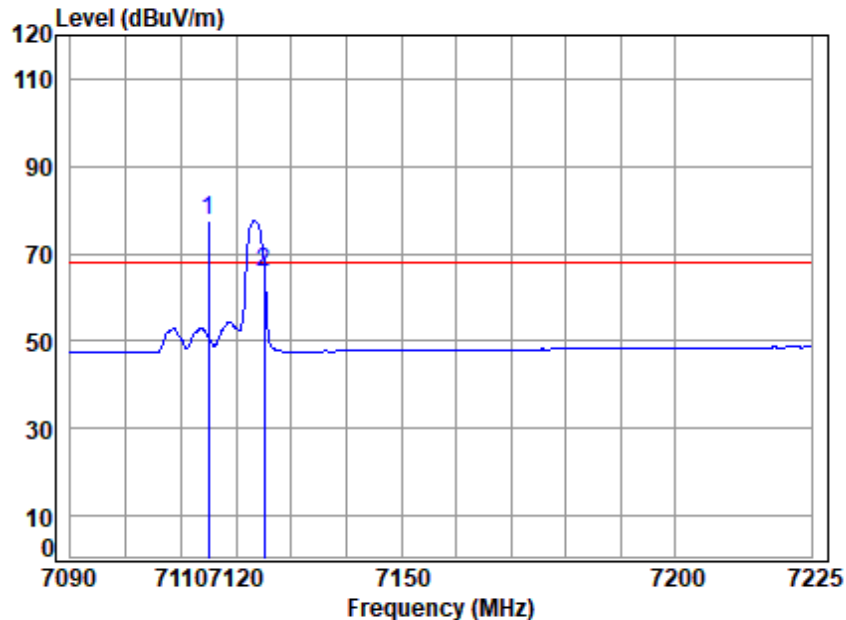
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Test Mode: 21; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7115 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7115.000	11.81	36.43	31.26	60.55	77.53	68.20	9.33	Average
2	7125.020	11.82	36.45	31.26	48.65	65.66	68.20	-2.54	Average



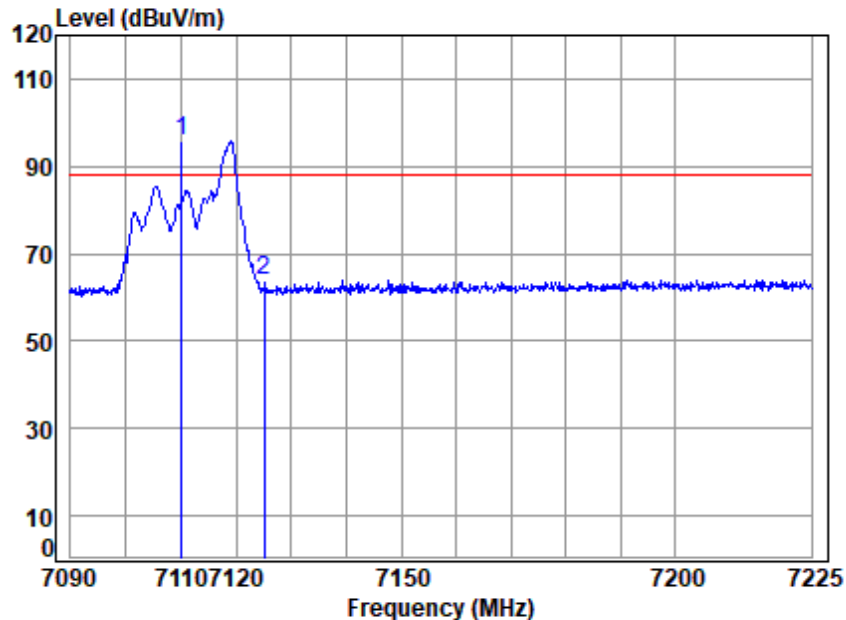
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Test Mode: 21; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7110.000	11.81	36.42	31.26	78.66	95.63	88.20	7.43	peak
2	7125.020	11.82	36.45	31.26	47.09	64.10	88.20	-24.10	peak



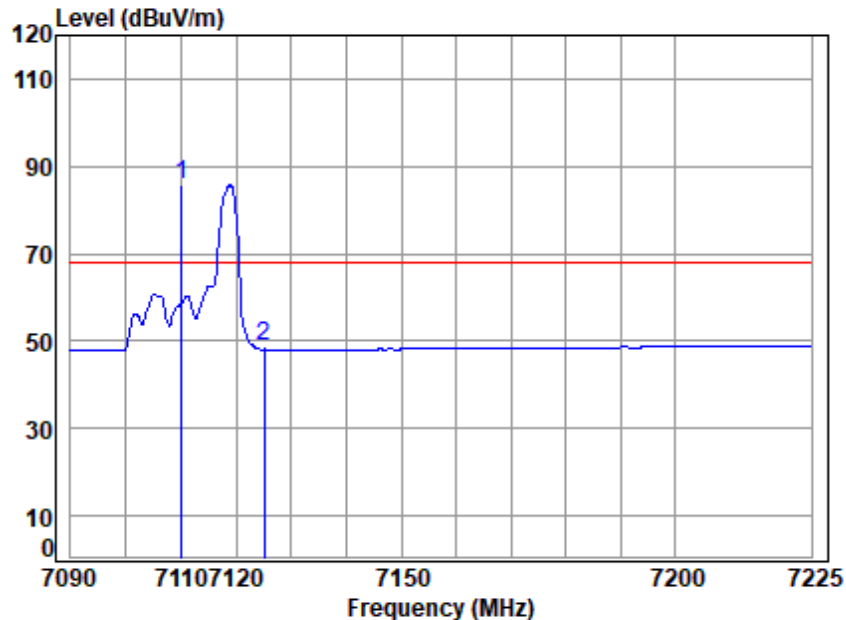
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Test Mode: 21; Polarity: Horizontal; Hob Position Right; Up



Condition: 3m HORIZONTAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

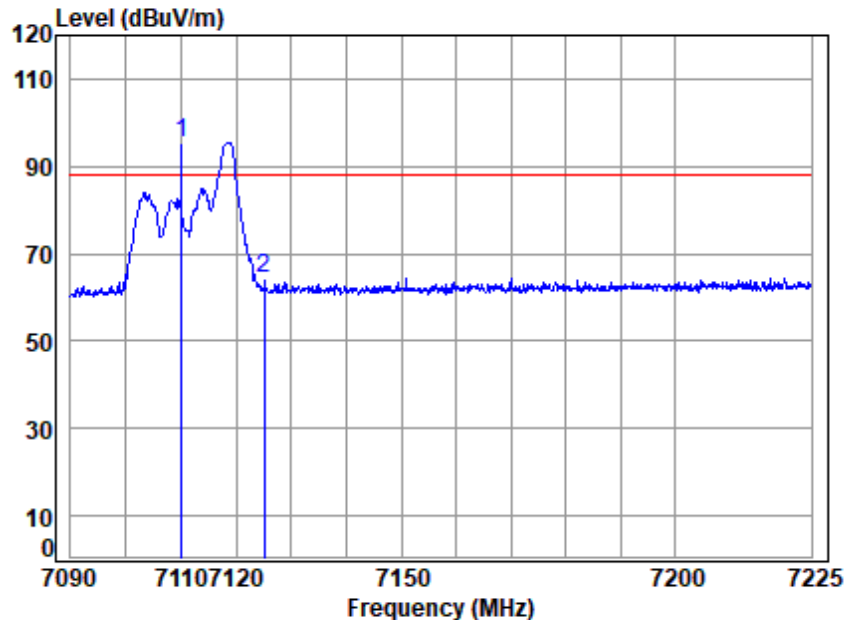
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	7110.000	11.81	36.42	31.26	68.63	85.60	68.20	17.40	Average
2	7125.020	11.82	36.45	31.26	31.87	48.88	68.20	-19.32	Average



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Test Mode: 21; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7110.000	11.81	36.42	31.26	78.47	95.44	88.20	7.24	peak
2	7125.020	11.82	36.45	31.26	47.48	64.49	88.20	-23.71	peak



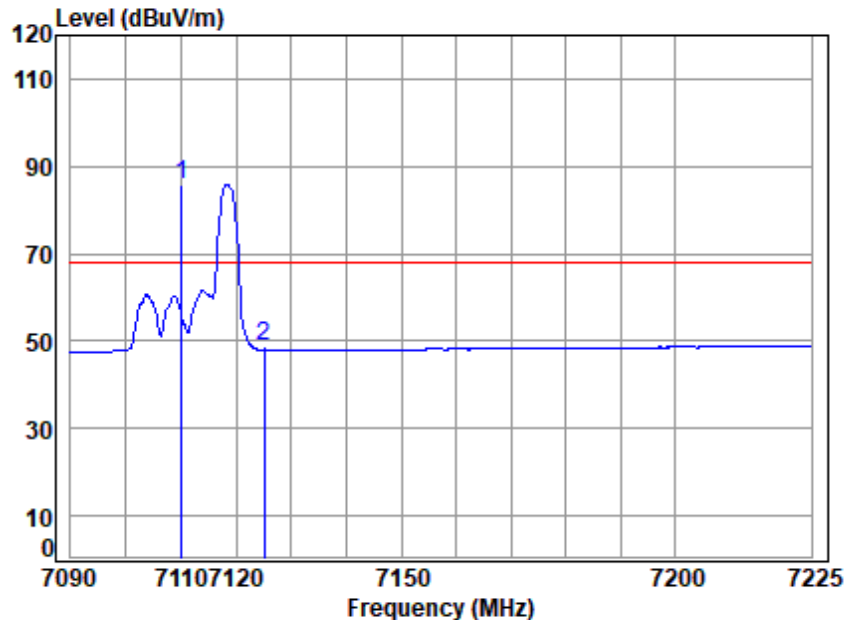
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Test Mode: 21; Polarity: Vertical; Hob Position Right; Up



Condition: 3m VERTICAL

Job No : 00767WM

Mode : 7110 Band edge

: WIFI 6E MIMO 11AX20_RU26_8

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp 7110.000	11.81	36.42	31.26	68.71	85.68	68.20	17.48	Average
2	7125.020	11.82	36.45	31.26	31.76	48.77	68.20	-19.43	Average



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7.11 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)

Test Method: KDB 987594 D02

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.



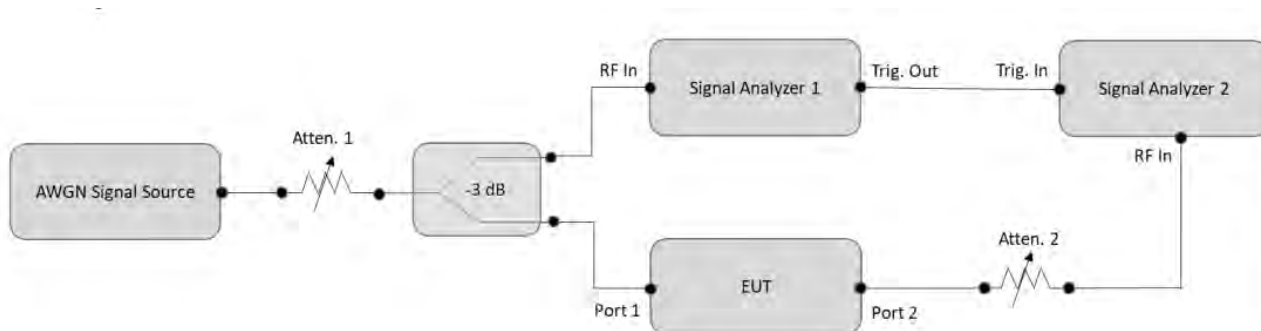
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Please Refer to Appendix for Details



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7.12 Frequency Stability

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

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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C

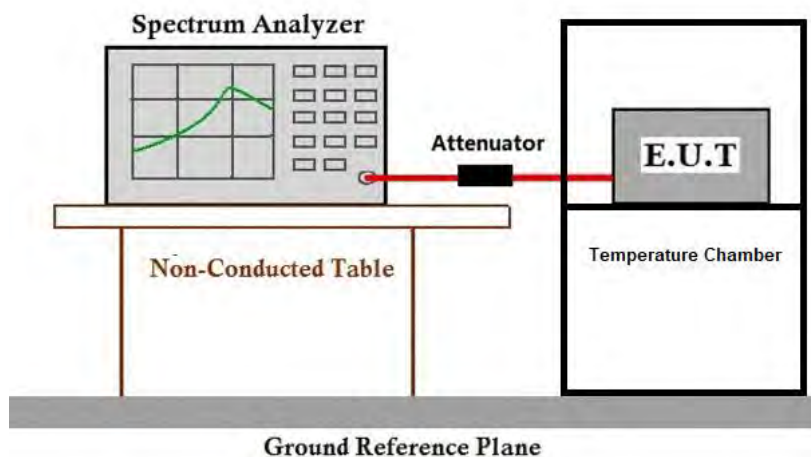
Humidity: 54.9 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	19	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	20	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.
Final test	21	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types and being charged. 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 802.11ax 20/40/80/160, Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



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7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix A.2 WLAN Setup Photos.



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9 Appendix

Remark: for all the test data appendix, due to the test software design, ant1 means antenna chain9, ant2 means antenna chain10.

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	5.444	5.462	99.67	0.01	0.04
			6175	RU242	Left	5.445	5.462	99.69	0.01	0.03
			6415	RU242	Left	5.444	5.462	99.67	0.01	0.04
	802.11ax (HEW40)	MIMO	5965	RU484	Left	5.446	5.462	99.71	0.01	0.04
			6165	RU484	Left	5.444	5.460	99.71	0.01	0.04
			6405	RU484	Left	5.445	5.461	99.71	0.01	0.03
	802.11ax (HEW80)	MIMO	5985	RU996	Left	5.444	5.460	99.71	0.01	0.04
			6145	RU996	Left	5.444	5.460	99.71	0.01	0.04
			6385	RU996	Left	5.444	5.460	99.71	0.01	0.04
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	5.446	5.462	99.71	0.01	0.04
			6185	2xRU996	Left	5.445	5.462	99.69	0.01	0.03
			6345	2xRU996	Left	5.445	5.462	99.69	0.01	0.03



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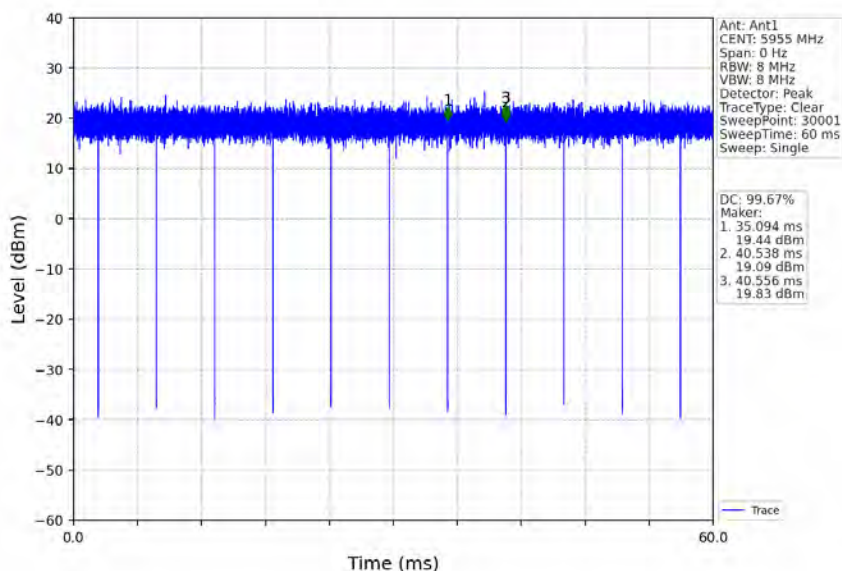
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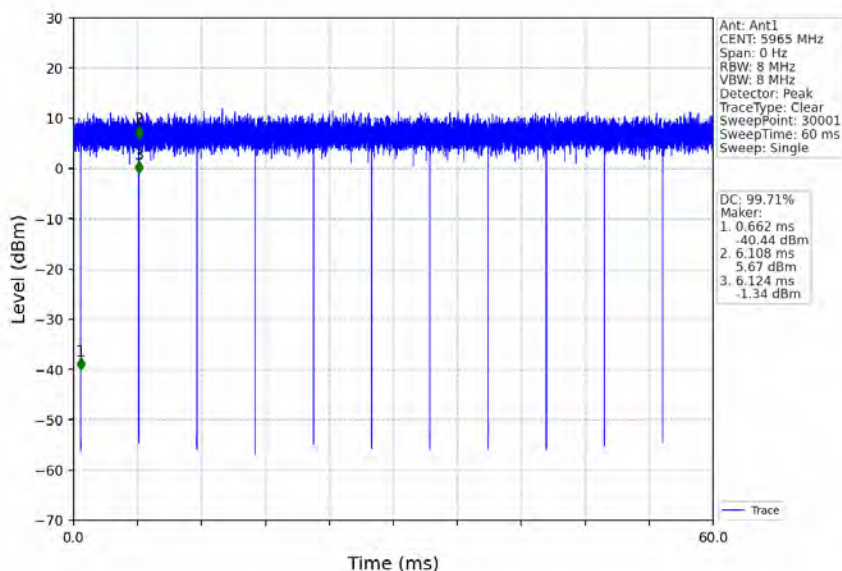
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1.1.2 Test Graph

802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



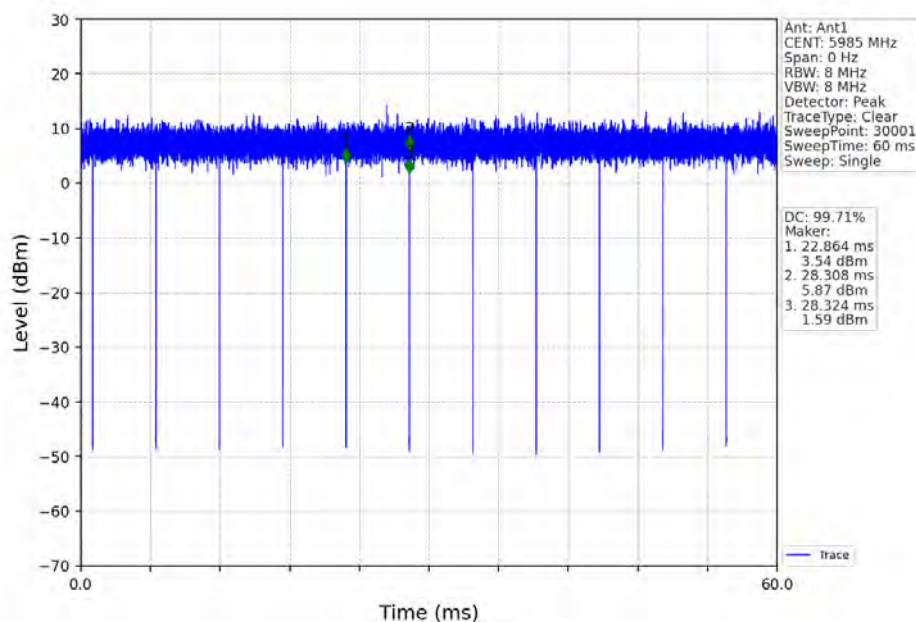
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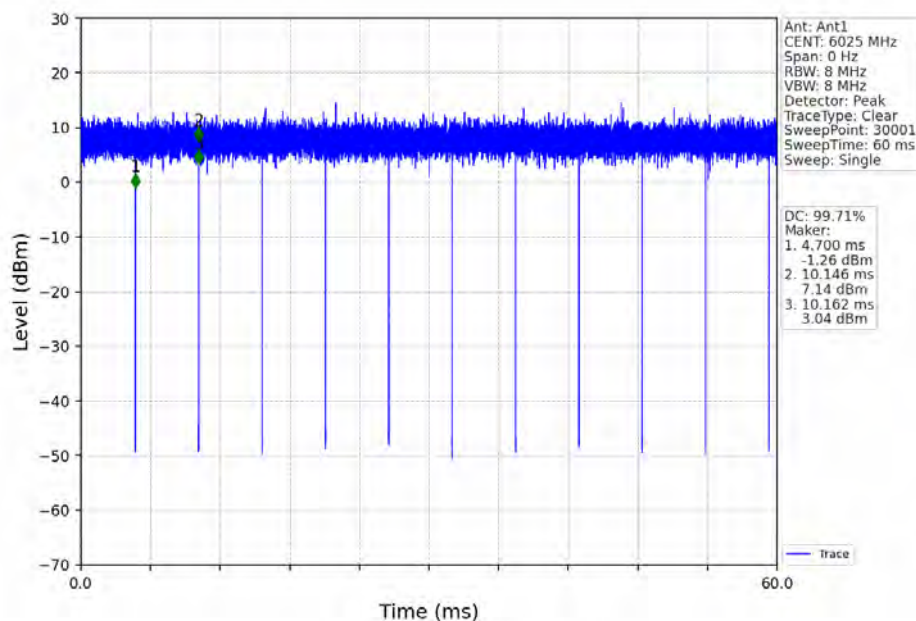
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802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



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1.2 Ant1

1.2.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	5.446	5.462	99.71	0.01	0.04
			6475	RU242	Left	5.445	5.462	99.69	0.01	0.03
			6515	RU242	Left	5.446	5.462	99.71	0.01	0.00
	802.11ax (HEW40)	MIMO	6445	RU484	Left	5.446	5.462	99.71	0.01	0.04
			6485	RU484	Left	5.446	5.462	99.71	0.01	0.04
	802.11ax (HEW80)	MIMO	6465	RU996	Left	5.444	5.460	99.71	0.01	0.04



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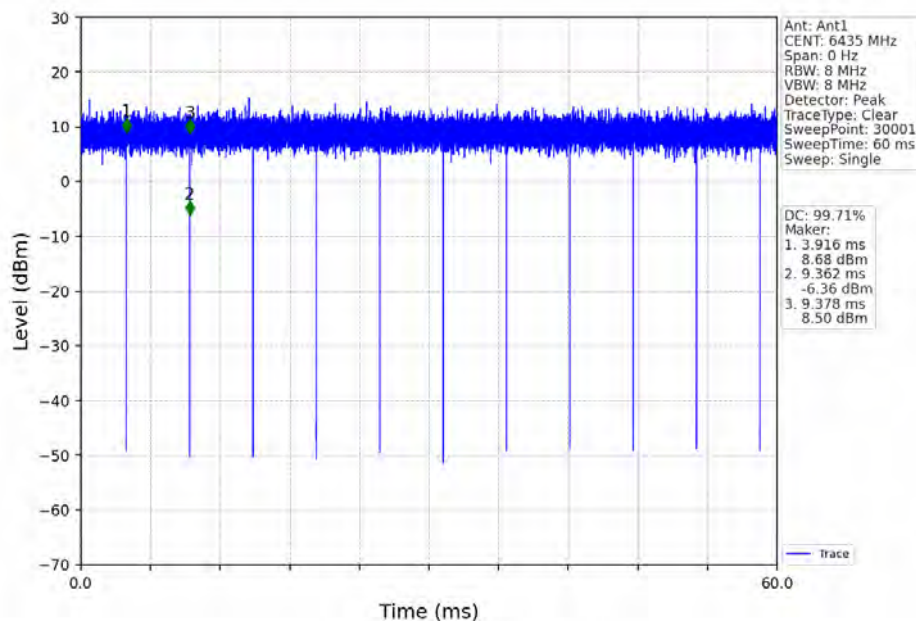
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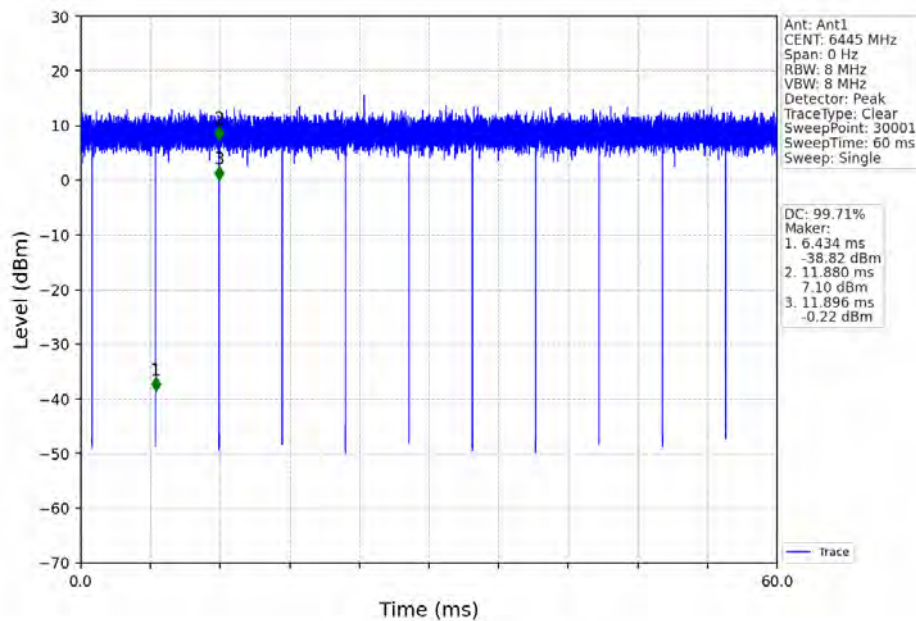
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1.2.2 Test Graph

802.11ax(HEW20)_LCH_6435MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



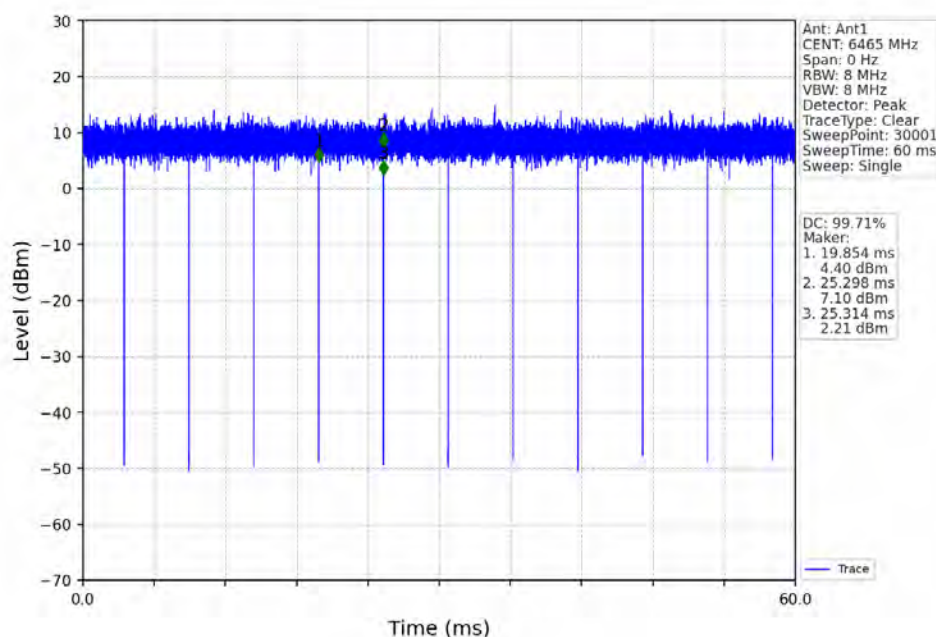
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802.11ax(HEW80)_LCH_6465MHz_RU996_Left_Ant1_NTNV



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1.3 Ant1

1.3.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	5.445	5.462	99.69	0.01	0.03
			6695	RU242	Left	5.445	5.462	99.69	0.01	0.03
			6855	RU242	Left	5.444	5.462	99.67	0.01	0.04
	802.11ax (HEW40)	MIMO	6565	RU484	Left	5.444	5.460	99.71	0.01	0.00
			6685	RU484	Left	5.444	5.460	99.71	0.01	0.04
			6845	RU484	Left	5.444	5.460	99.71	0.01	0.00
	802.11ax (HEW80)	MIMO	6625	RU996	Left	5.444	5.460	99.71	0.01	0.04
			6705	RU996	Left	5.444	5.460	99.71	0.01	0.04
			6785	RU996	Left	5.445	5.462	99.69	0.01	0.03
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	5.445	5.462	99.69	0.01	0.03



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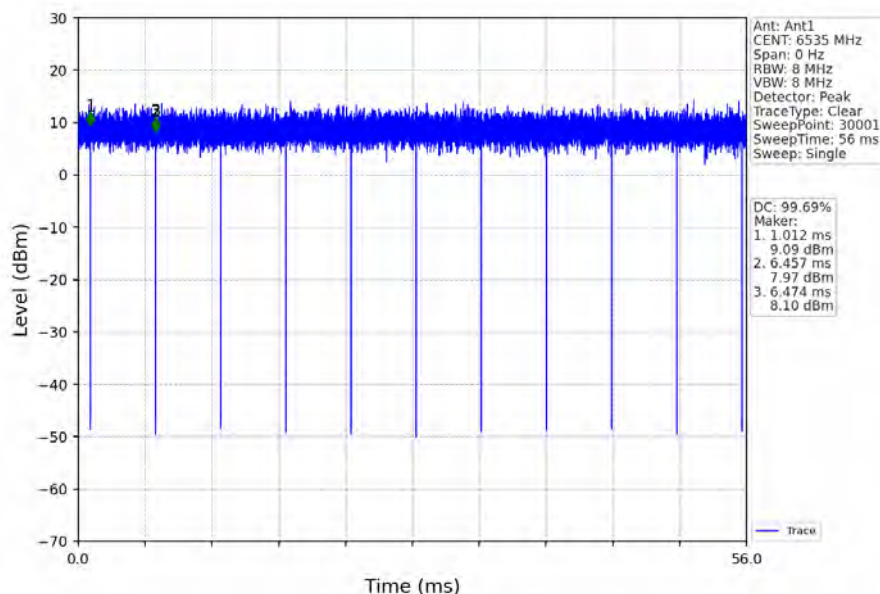
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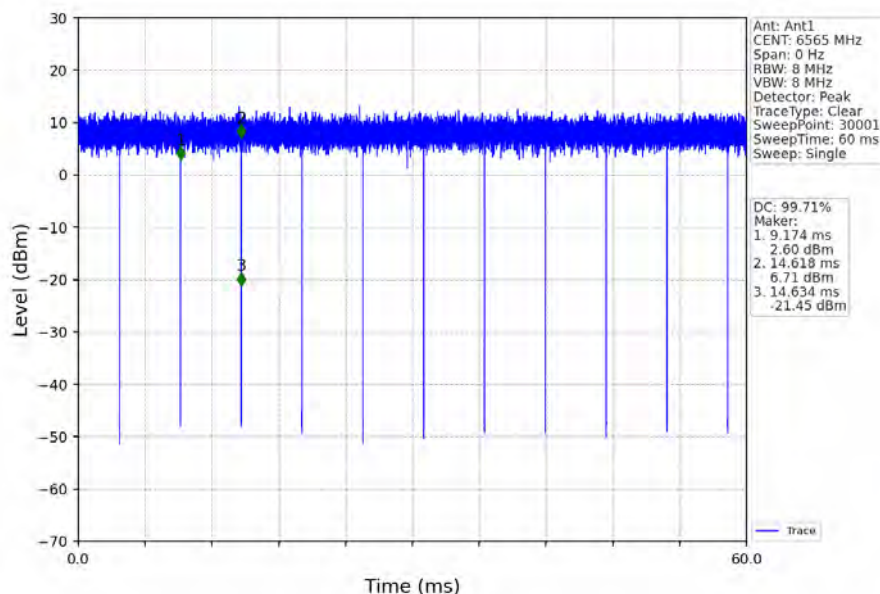
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1.3.2 Test Graph

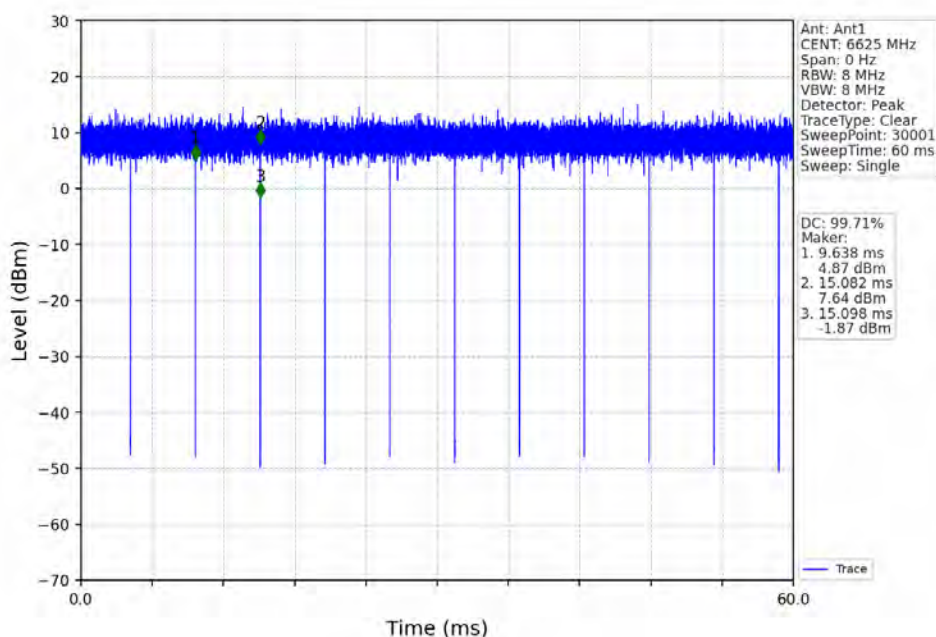
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant1_NTNV



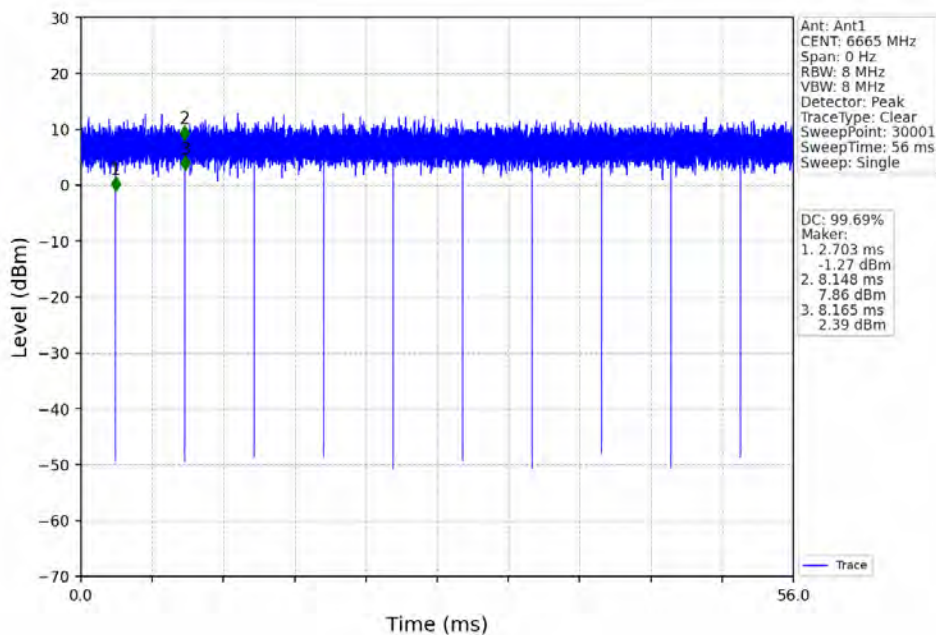
802.11ax(HEW40)_LCH_6565MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_MCH_6665MHz_2xRU996_Left_Ant1_NTNV



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1.4 Ant1

1.4.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	5.445	5.462	99.69	0.01	0.03
			6995	RU242	Left	5.444	5.462	99.67	0.01	0.04
			7115	RU242	Left	5.445	5.462	99.69	0.01	0.00
	802.11ax (HEW40)	MIMO	6925	RU484	Left	5.445	5.462	99.69	0.01	0.03
			7005	RU484	Left	5.446	5.462	99.71	0.01	0.04
			7085	RU484	Left	5.446	5.462	99.71	0.01	0.03
	802.11ax (HEW80)	MIMO	6945	RU996	Left	5.445	5.462	99.69	0.01	0.03
			7025	RU996	Left	5.444	5.460	99.71	0.01	0.04
	802.11ax (HEW160)	MIMO	6985	2xRU996	Left	5.444	5.460	99.71	0.01	0.04



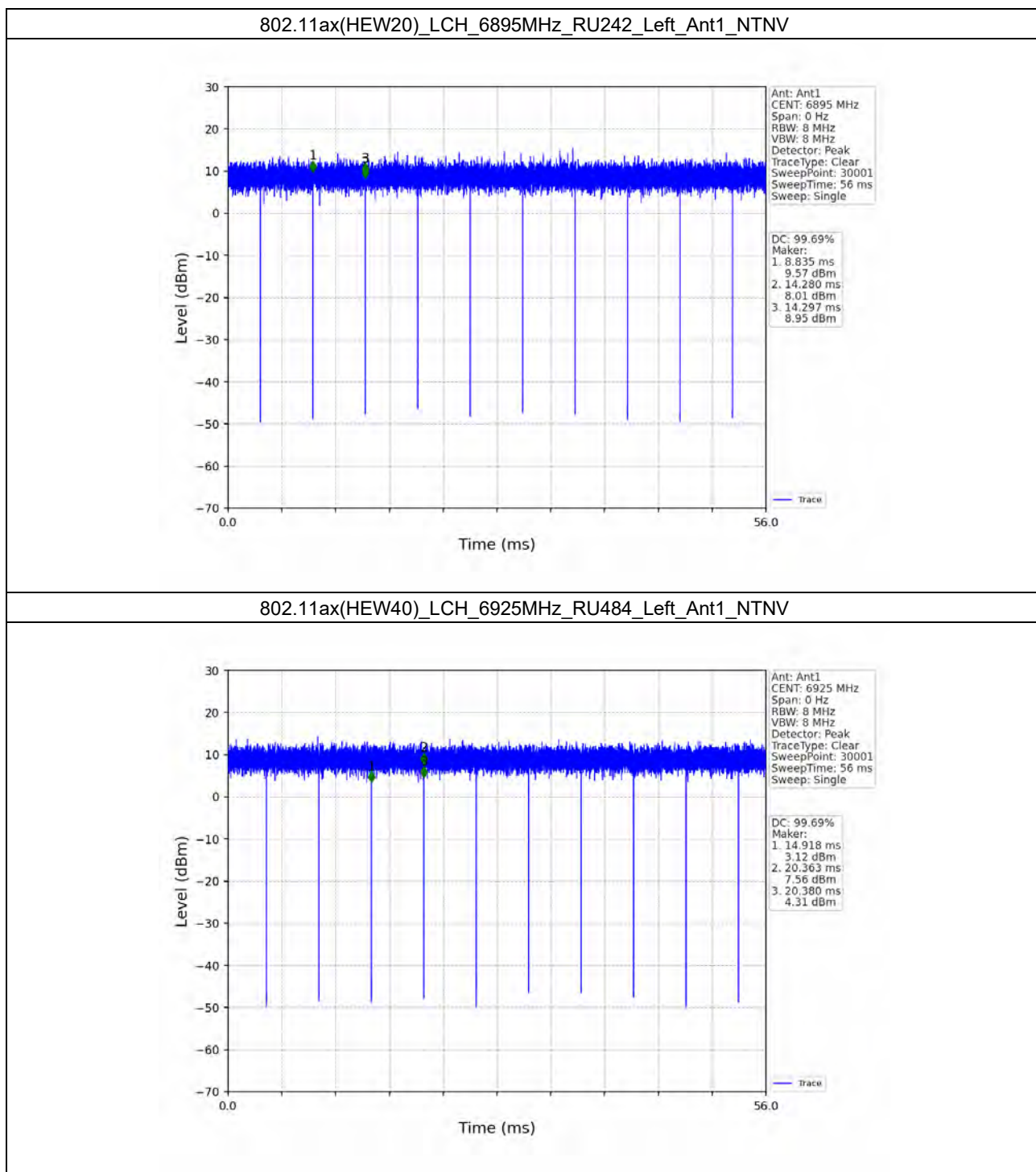
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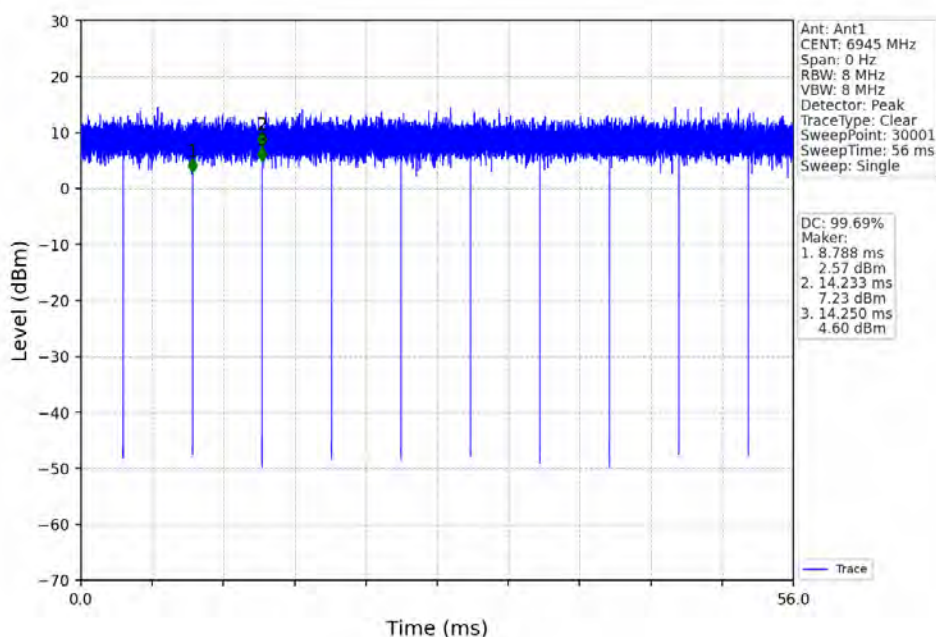
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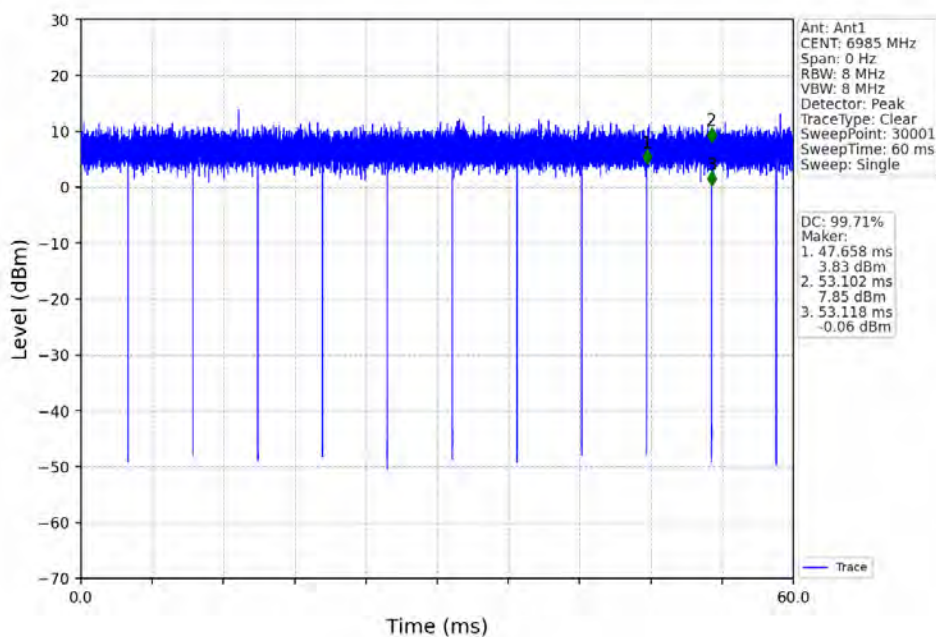
1.4.2 Test Graph



802.11ax(HEW80)_LCH_6945MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_MCH_6985MHz_2xRU996_Left_Ant1_NTNV



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1.5 Ant1

1.5.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	5.444	5.462	99.67	0.01	0.04
	802.11ax (HEW40)	MIMO	6885	RU484	Left	5.444	5.460	99.71	0.01	0.00
	802.11ax (HEW80)	MIMO	6865	RU996	Left	5.444	5.460	99.71	0.01	0.04
	802.11ax (HEW160)	MIMO	6825	2xRU996	Left	5.444	5.460	99.71	0.01	0.04



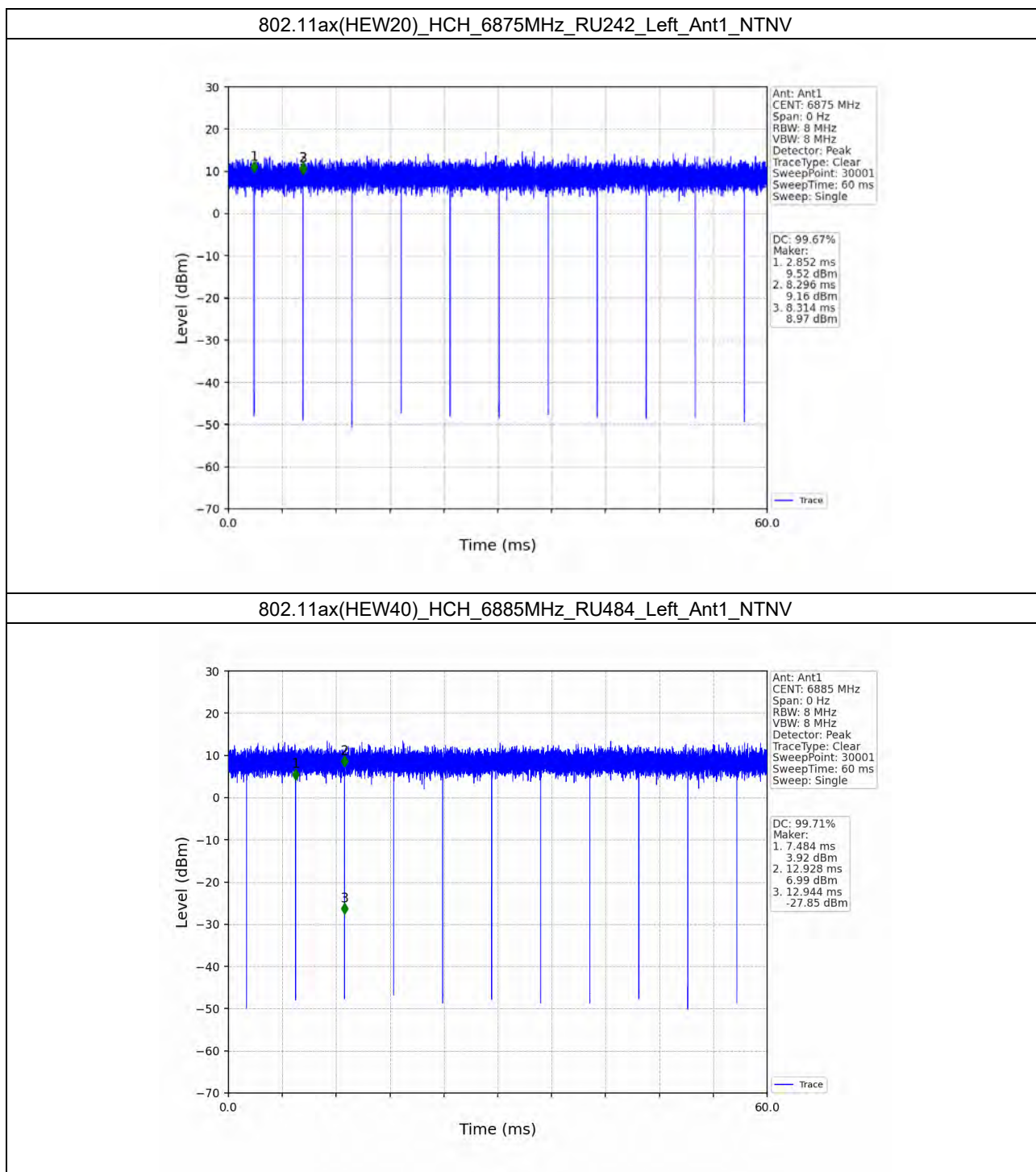
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1.5.2 Test Graph



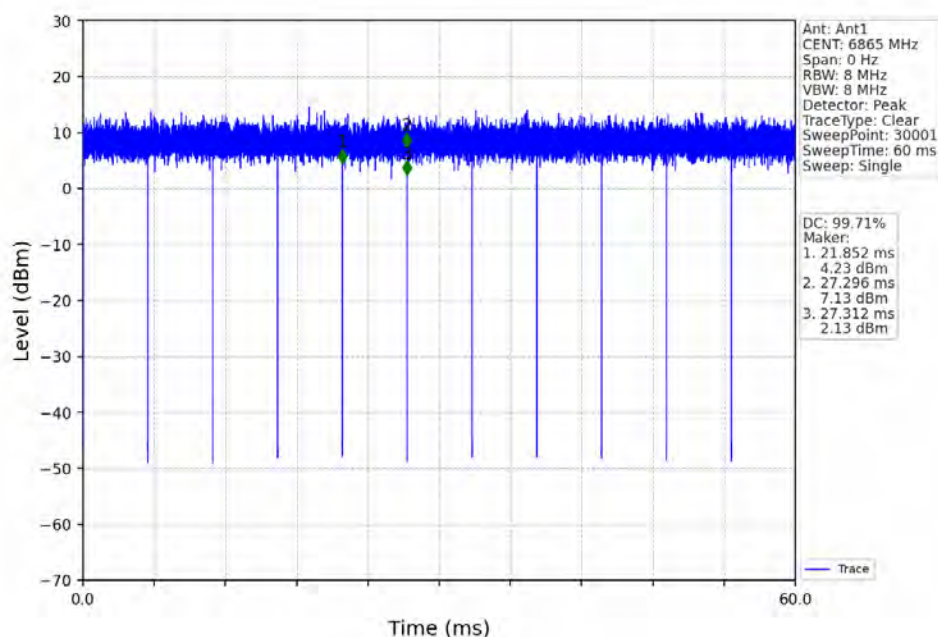
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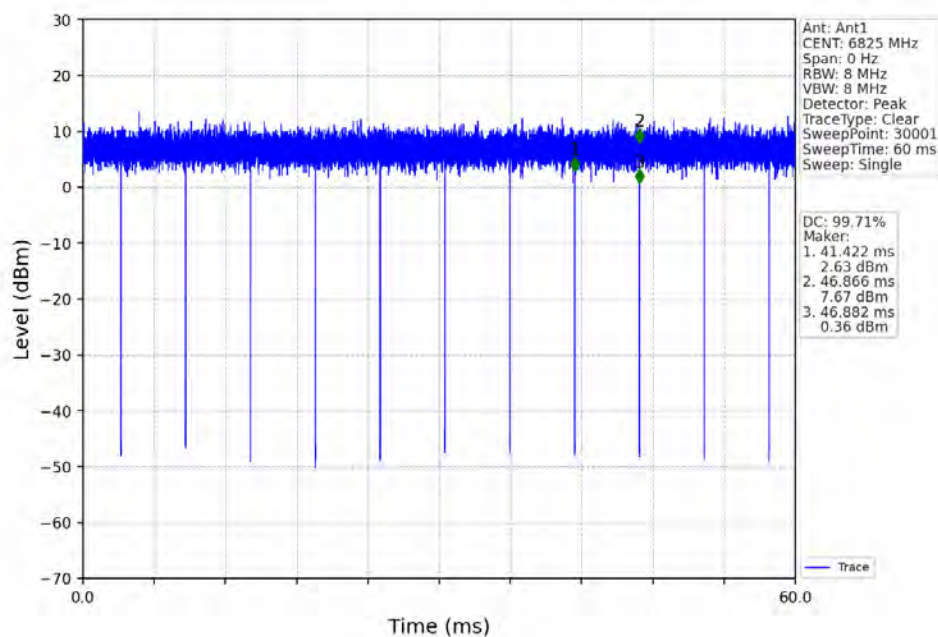
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802.11ax(HEW80)_HCH_6865MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_HCH_6825MHz_2xRU996_Left_Ant1_NTNV



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1.6 Ant1

1.6.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	5.446	5.462	99.71	0.01	0.04
	802.11ax (HEW80)	MIMO	6545	RU996	Left	5.445	5.462	99.69	0.01	0.03
	802.11ax (HEW160)	MIMO	6505	2xRU996	Left	5.444	5.460	99.71	0.01	0.04



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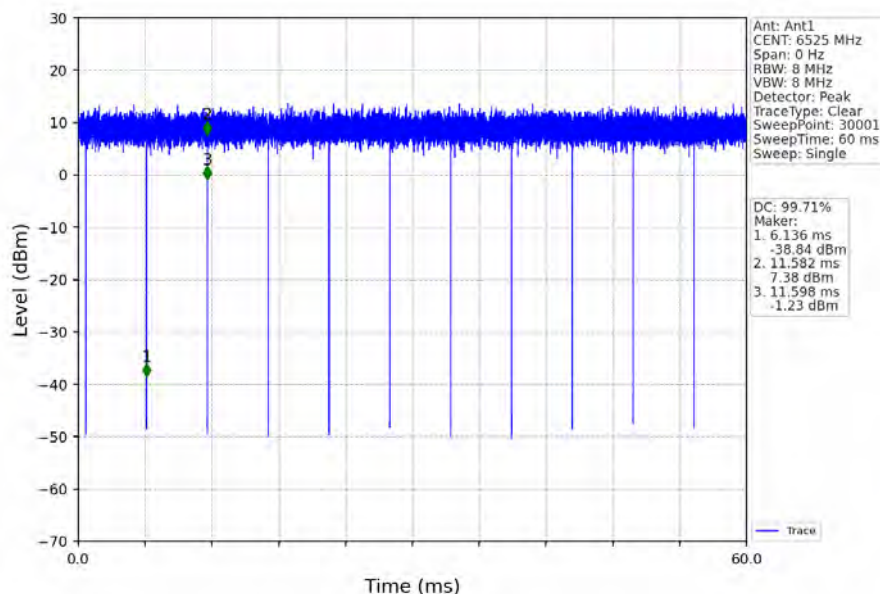
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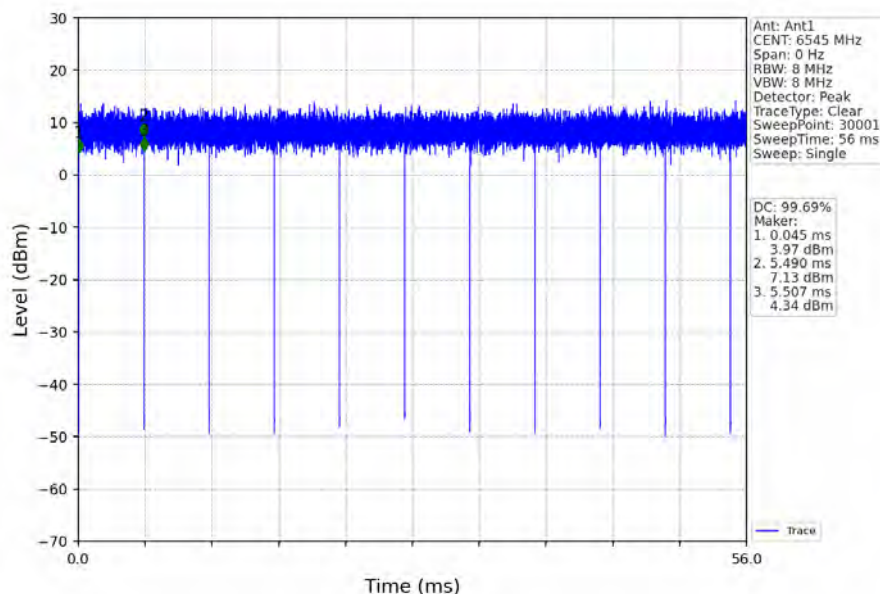
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1.6.2 Test Graph

802.11ax(HEW40)_HCH_6525MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_HCH_6545MHz_RU996_Left_Ant1_NTNV



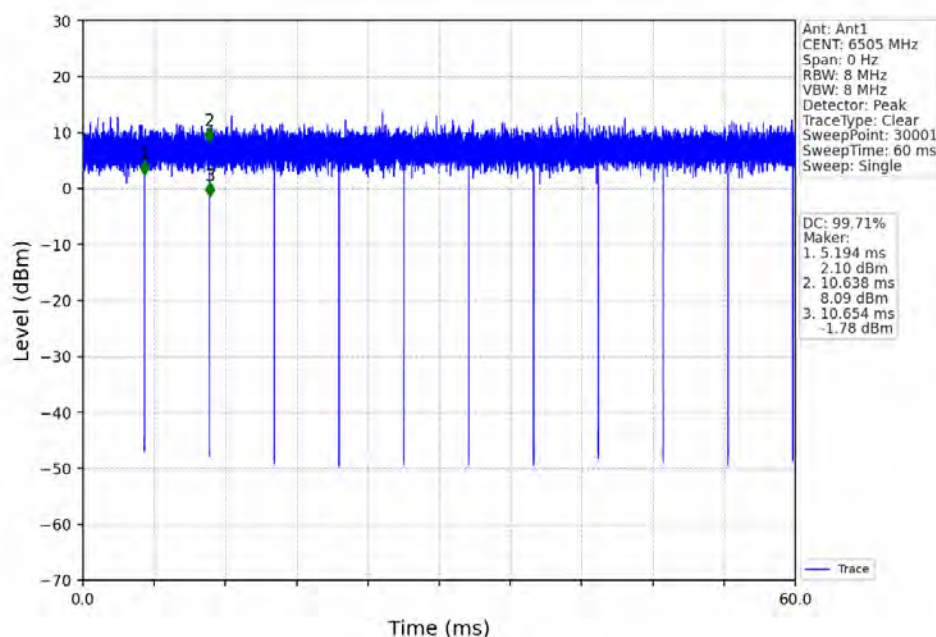
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802.11ax(HEW160)_HCH_6505MHZ_2xRU996_Left_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	19.036	<=320	Pass
			6175	RU242	Left	1	19.3.87	<=320	Pass
			6415	RU242	Left	1	19.109	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	37.937	<=320	Pass
			6165	RU484	Left	1	37.956	<=320	Pass
			6405	RU484	Left	1	37.985	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	77.522	<=320	Pass
			6145	RU996	Left	1	77.660	<=320	Pass
			6385	RU996	Left	1	77.407	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	156.559	<=320	Pass
			6185	2xRU996	Left	1	156.533	<=320	Pass
			6345	2xRU996	Left	1	156.242	<=320	Pass



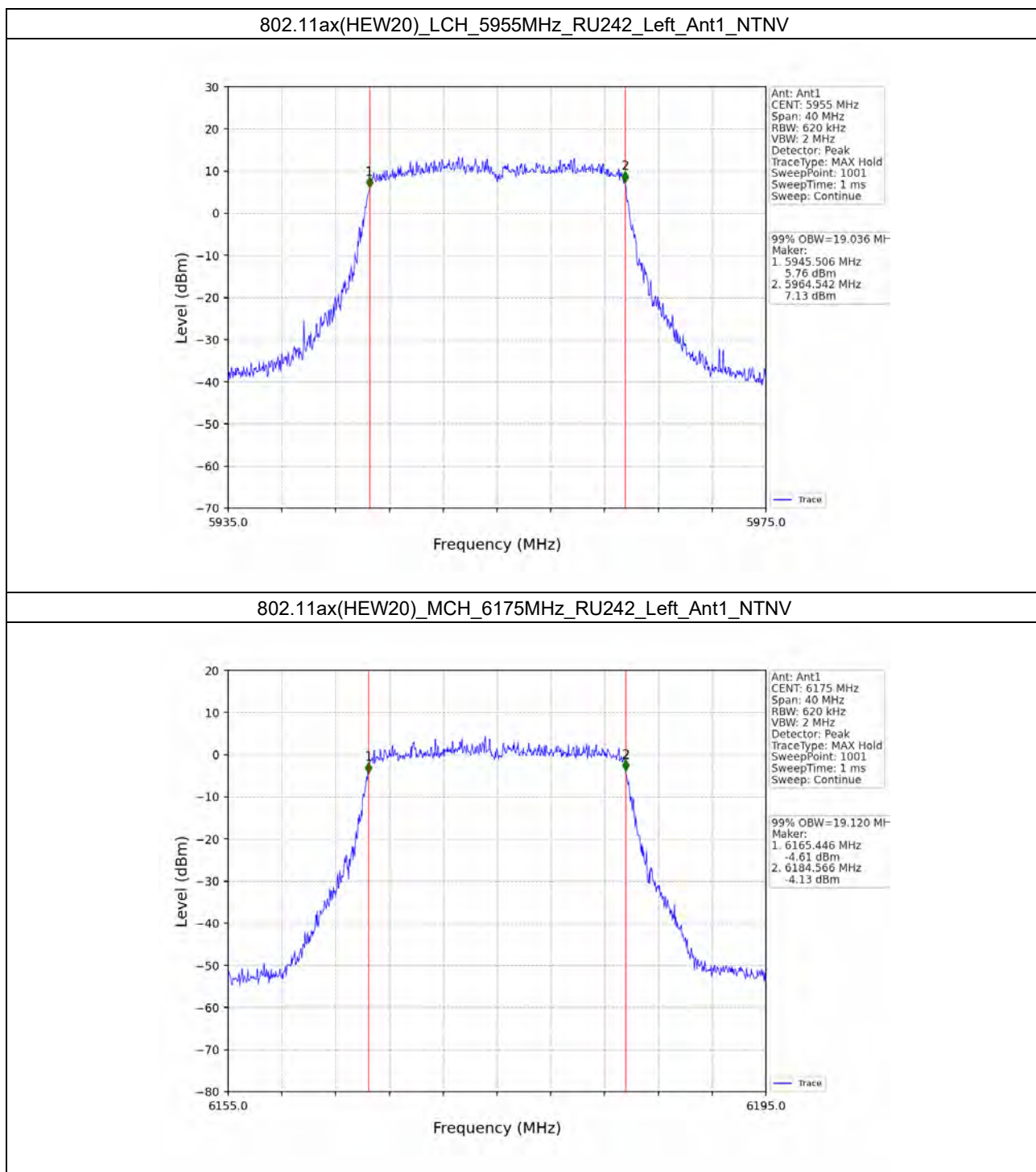
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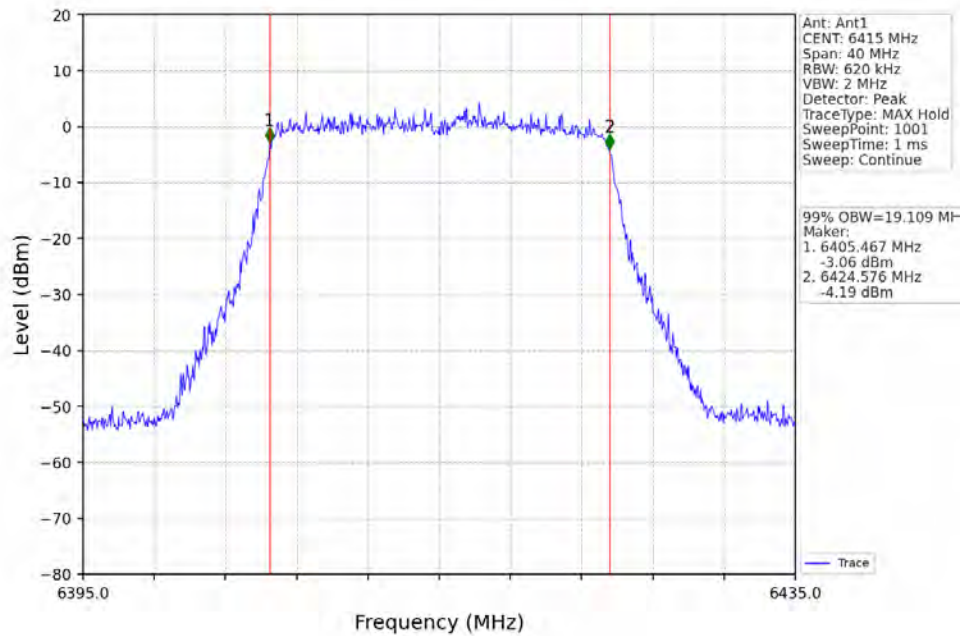
2.1.2 Test Graph



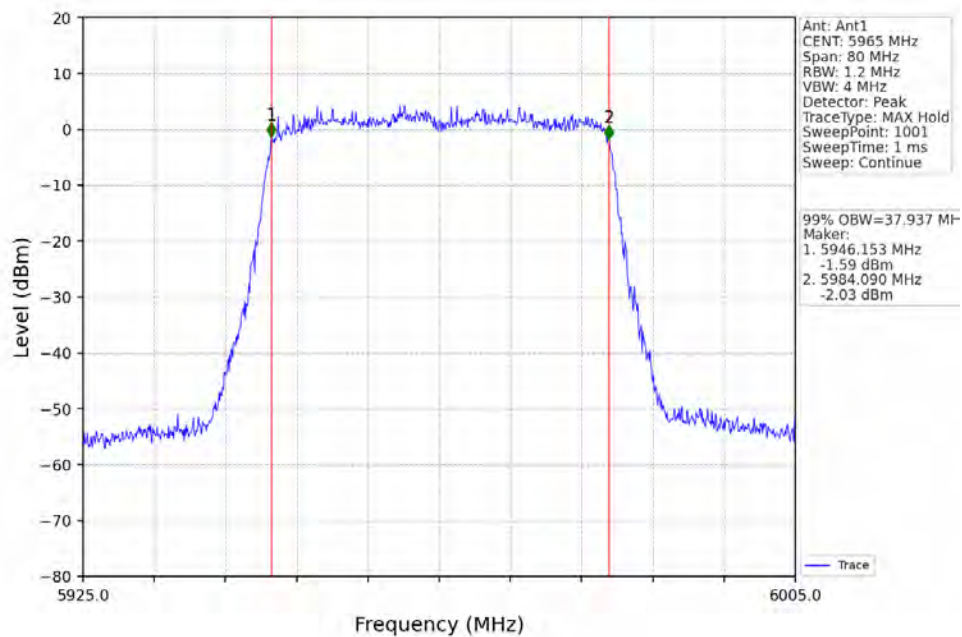
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802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



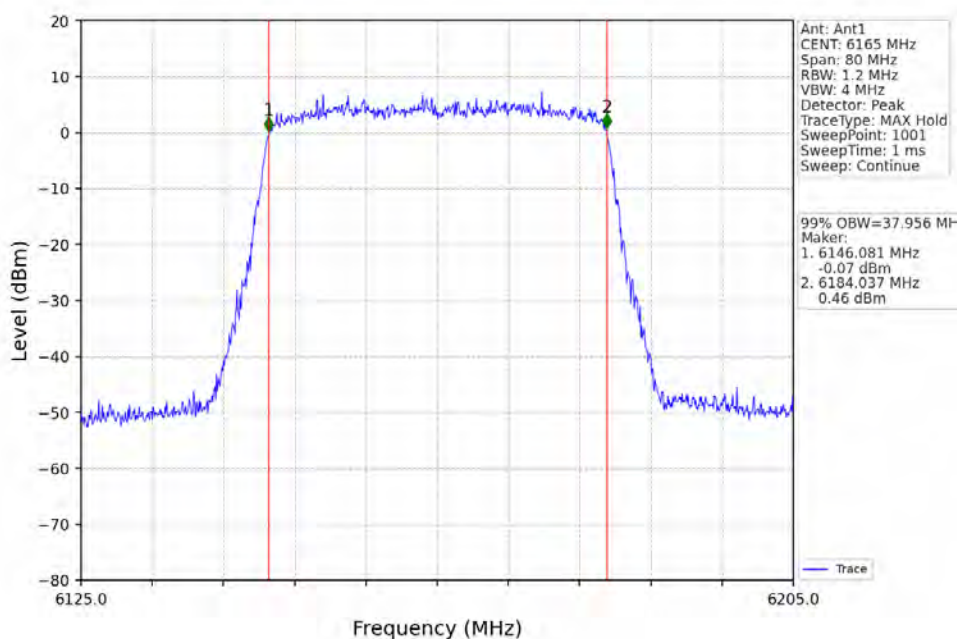
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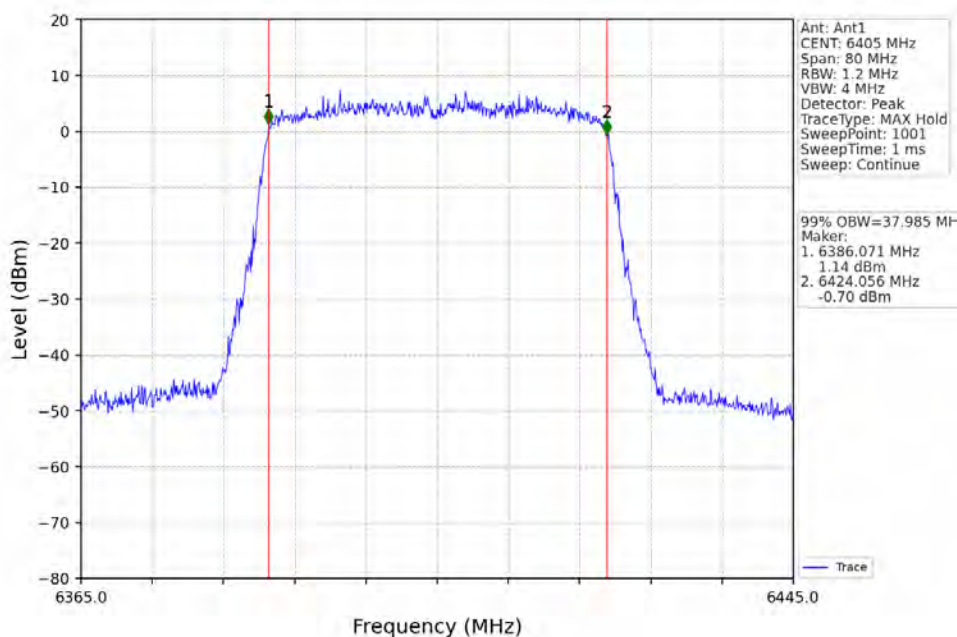
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802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



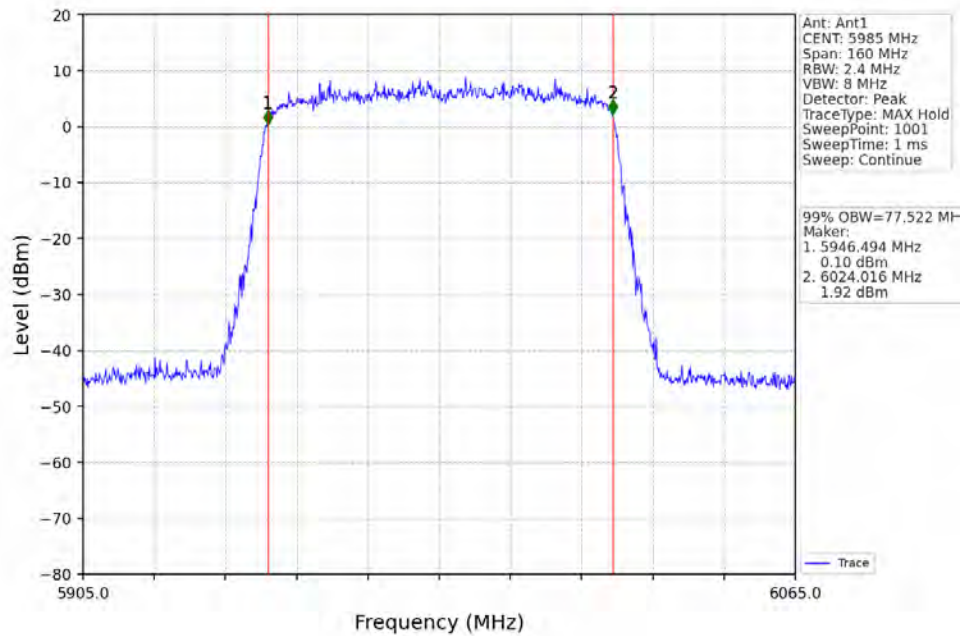
802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



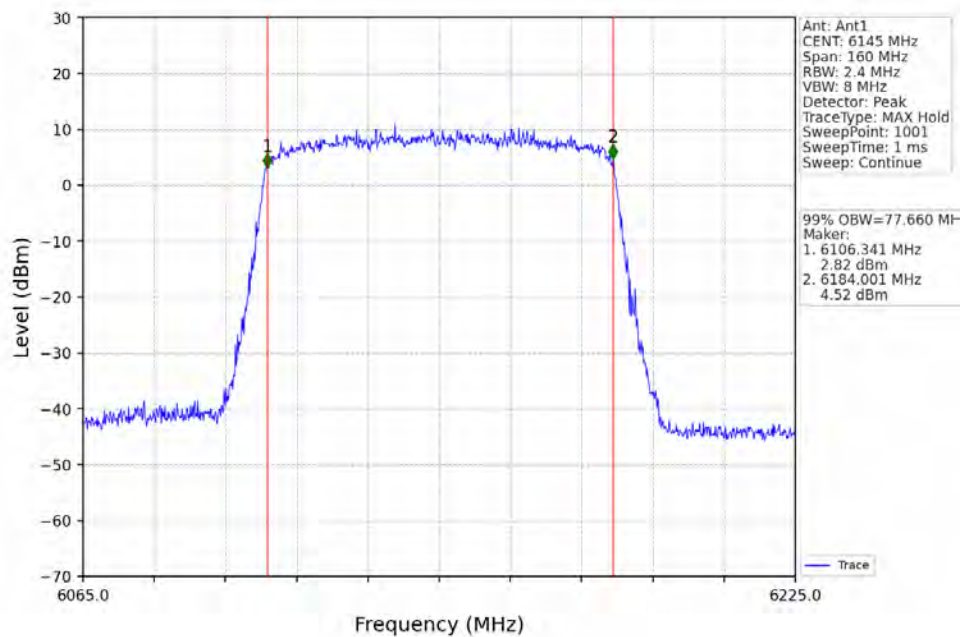
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802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



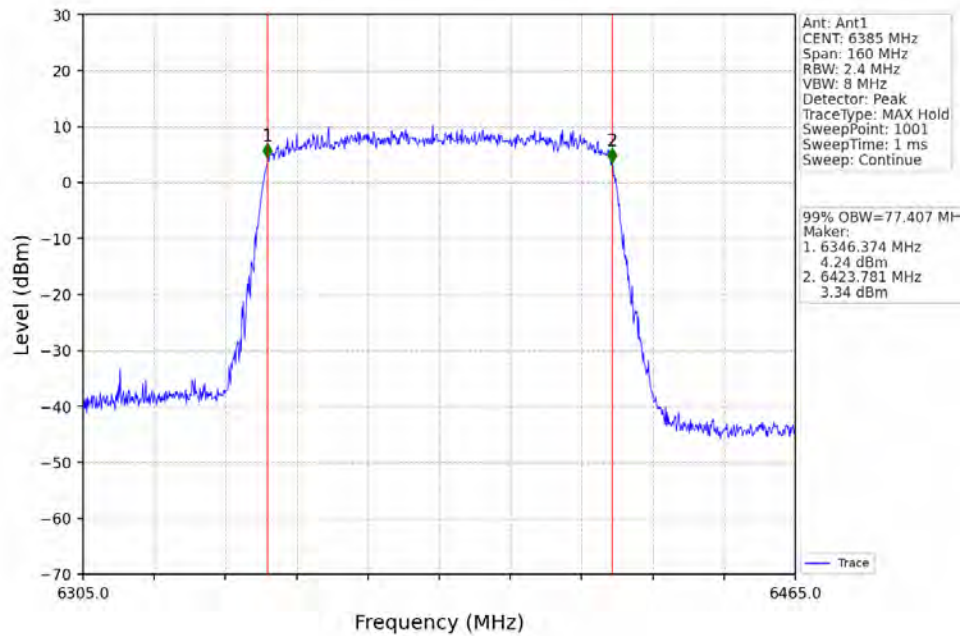
802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant1_NTNV



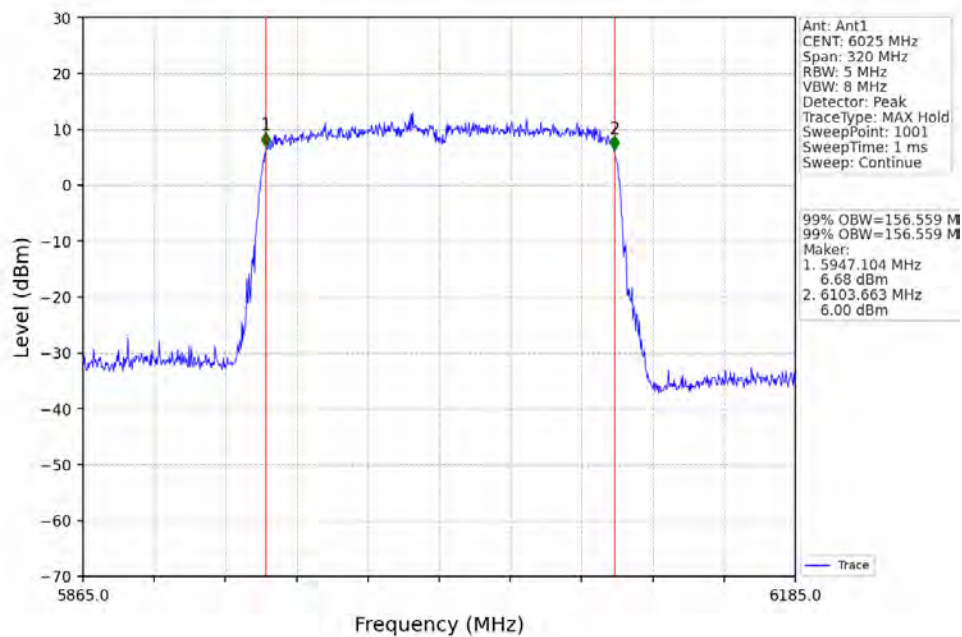
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802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



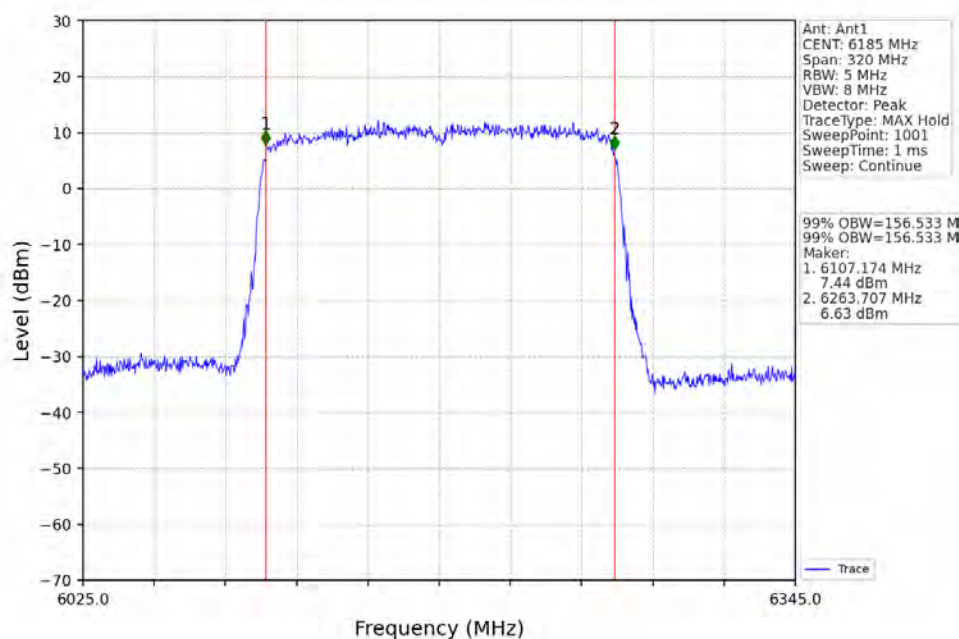
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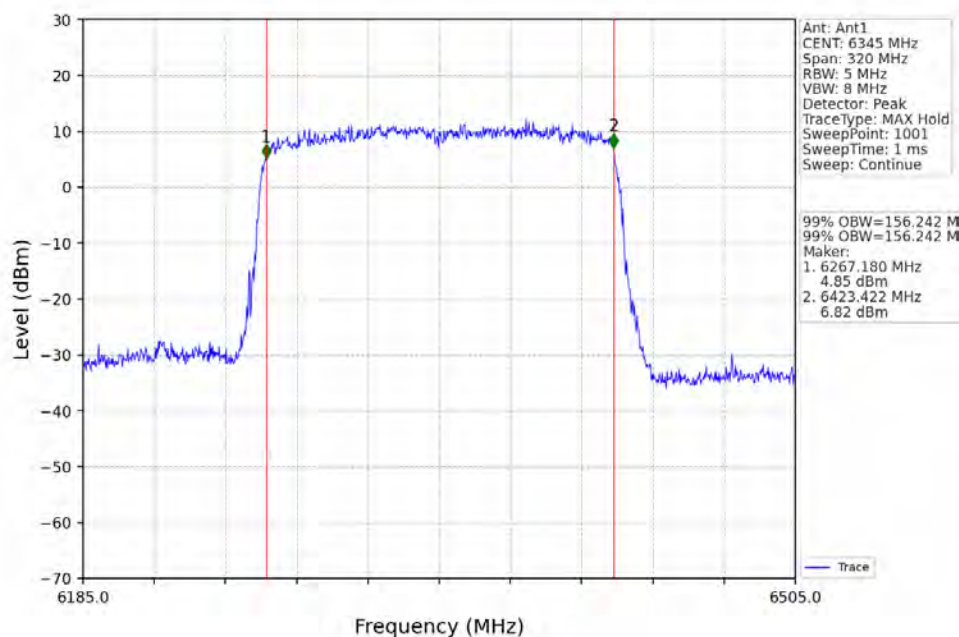
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802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



802.11ax(HEW160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076709

Page: 200 of 515

2.2 26dB BW

2.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	21.017	<=320	Pass
			6175	RU242	Left	1	21.492	<=320	Pass
			6415	RU242	Left	1	20.868	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	40.180	<=320	Pass
			6165	RU484	Left	1	40.820	<=320	Pass
			6405	RU484	Left	1	40.224	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	81.700	<=320	Pass
			6145	RU996	Left	1	81.808	<=320	Pass
			6385	RU996	Left	1	81.649	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	164.811	<=320	Pass
			6185	2xRU996	Left	1	165.077	<=320	Pass
			6345	2xRU996	Left	1	163.972	<=320	Pass



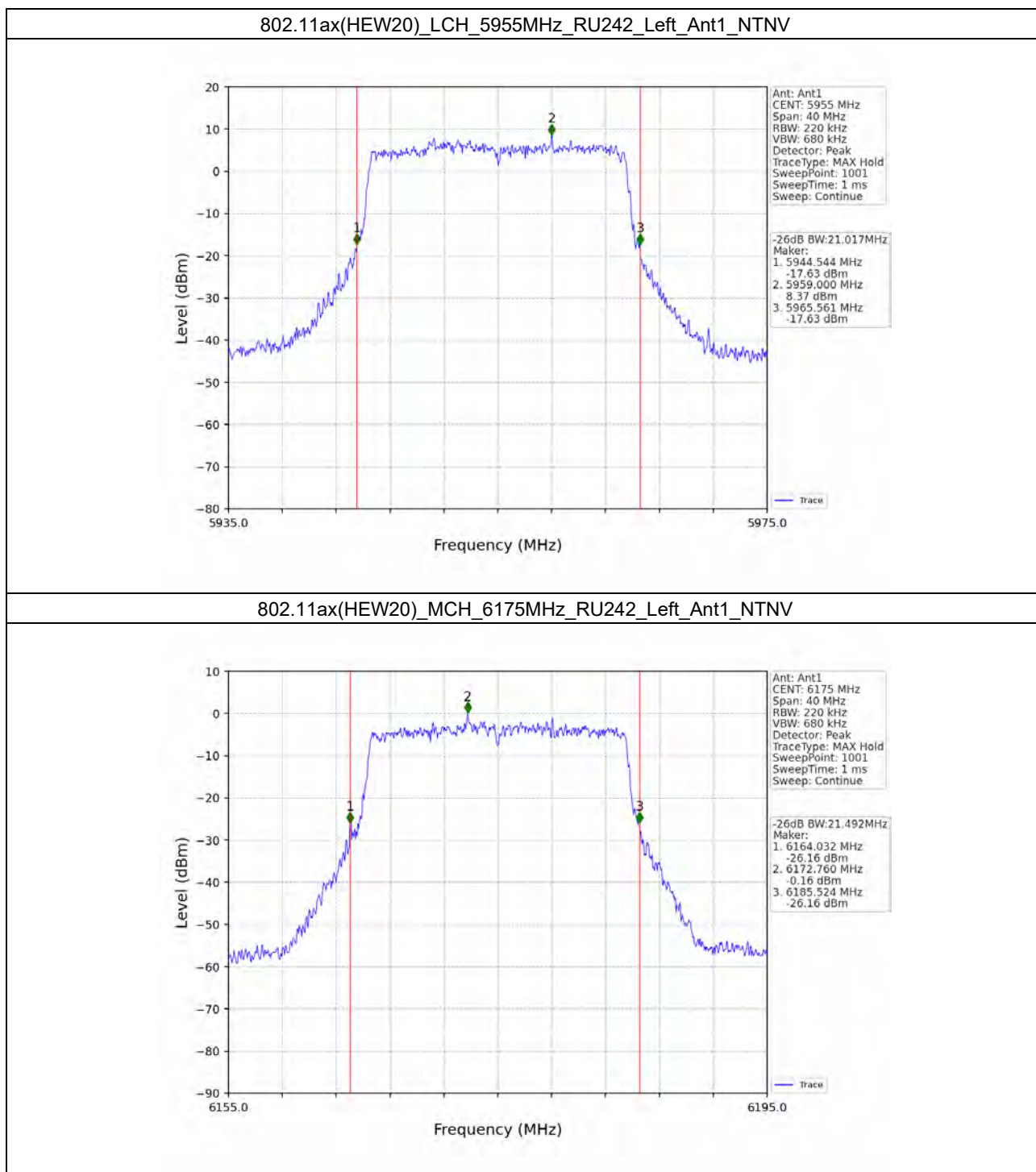
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2.2.2 Test Graph



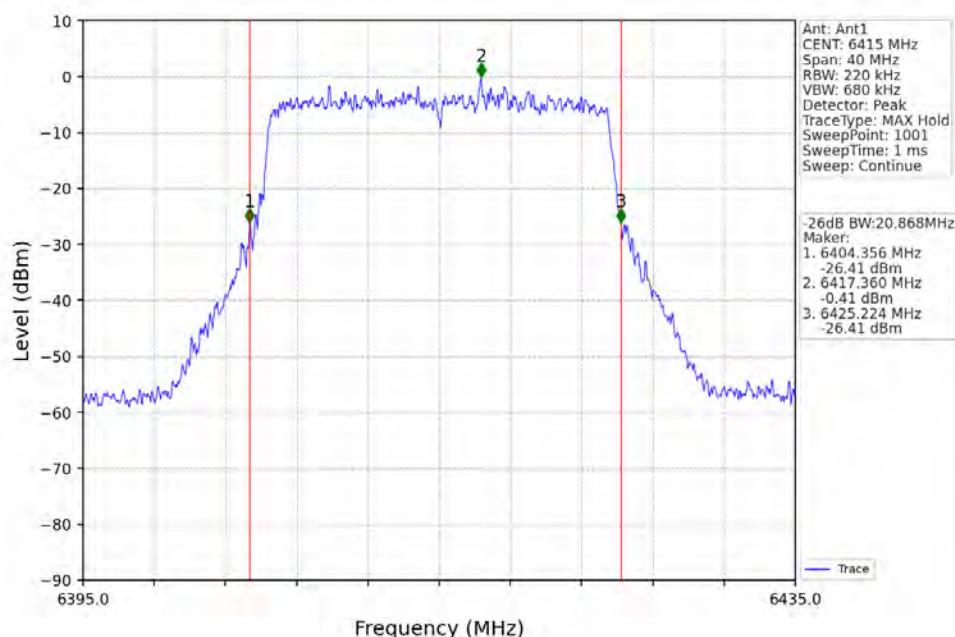
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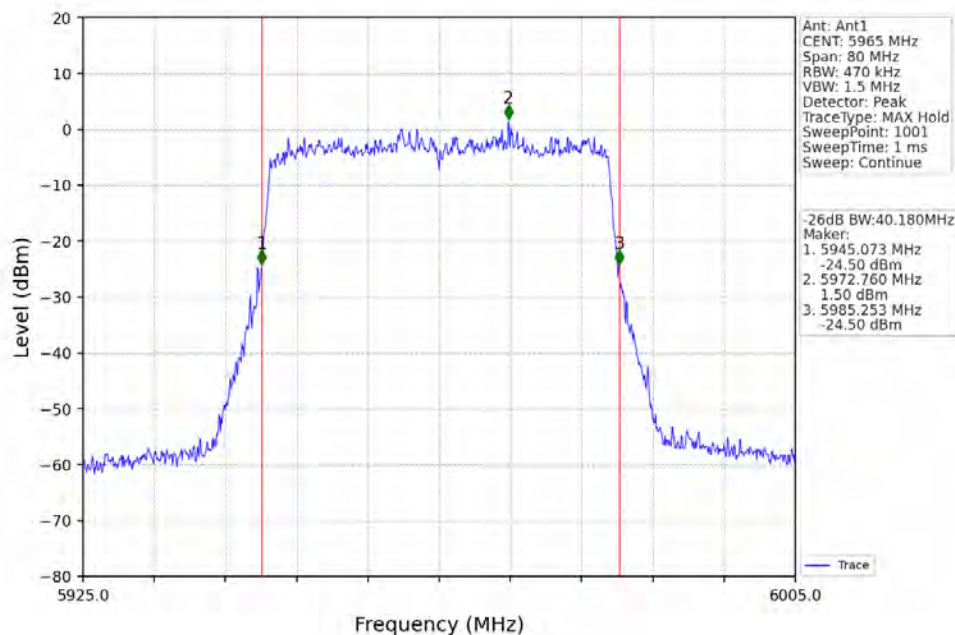
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802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



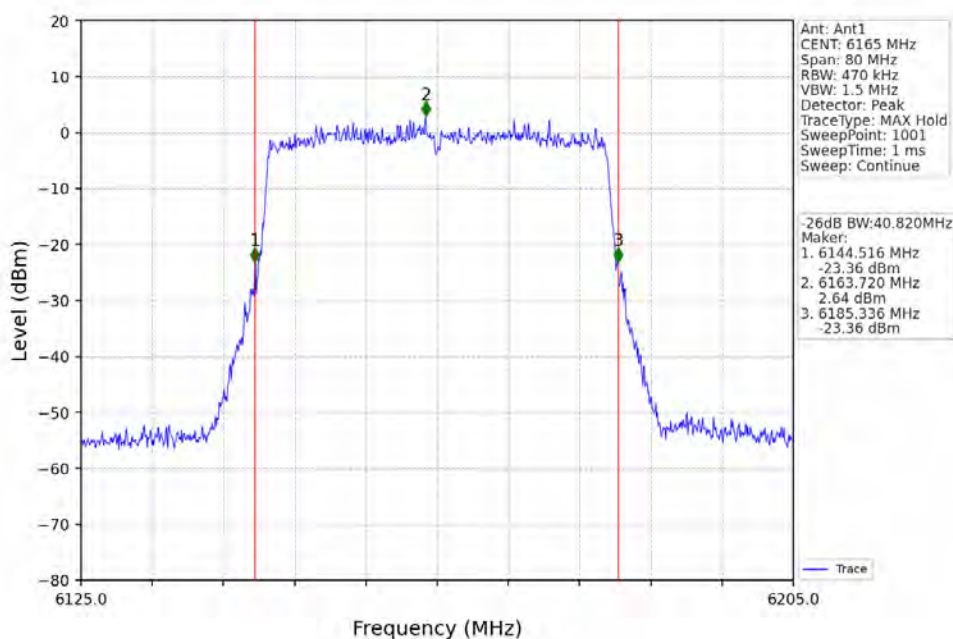
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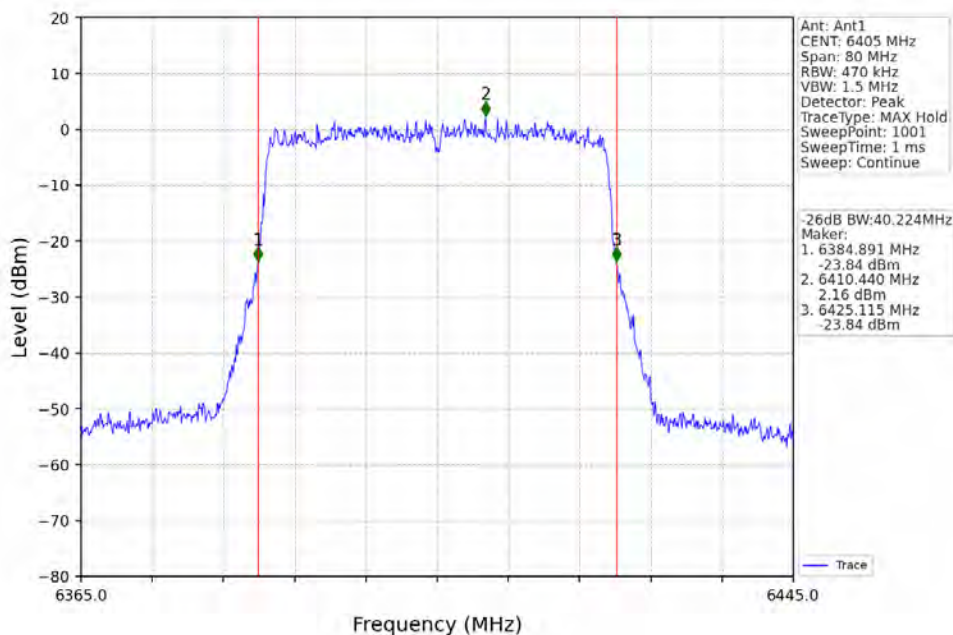
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802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



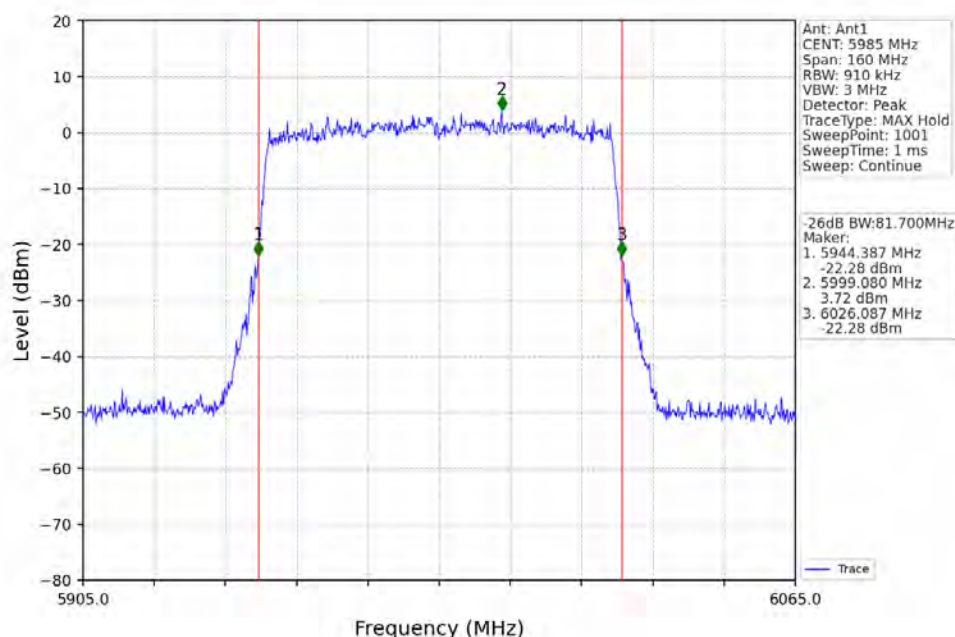
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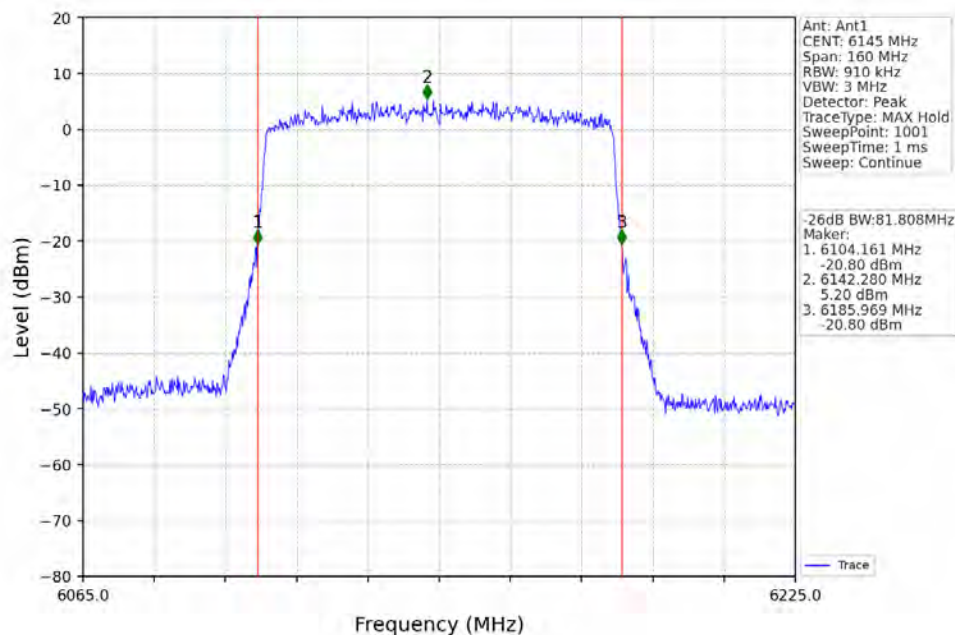
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802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant1_NTNV



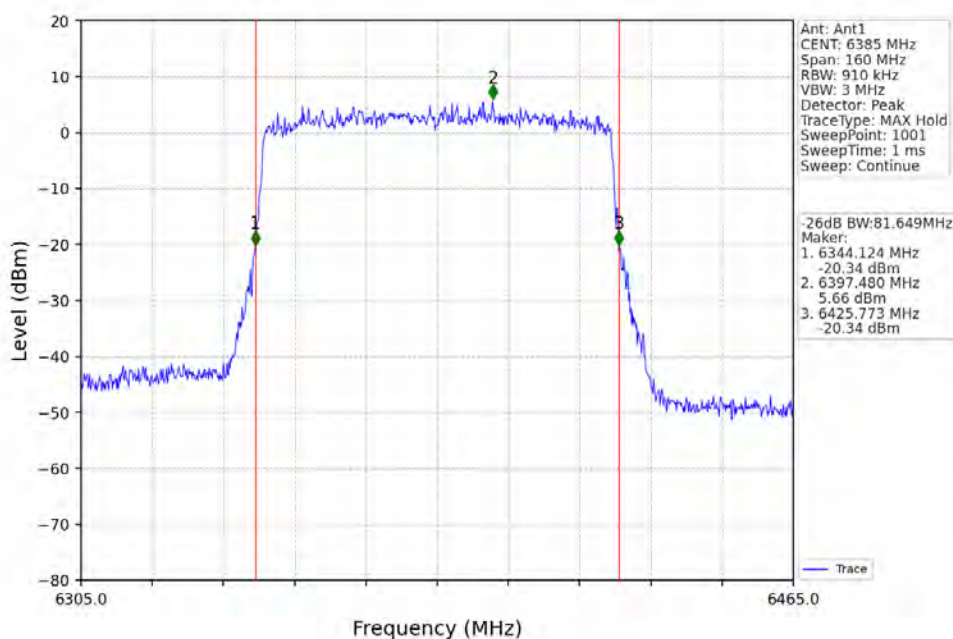
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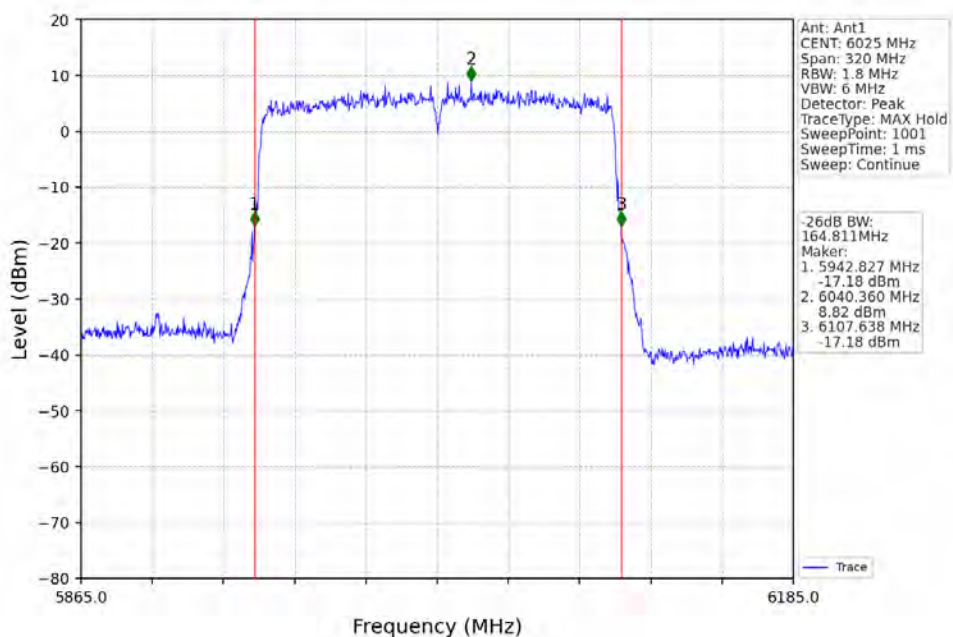
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802.11ax(HEW80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



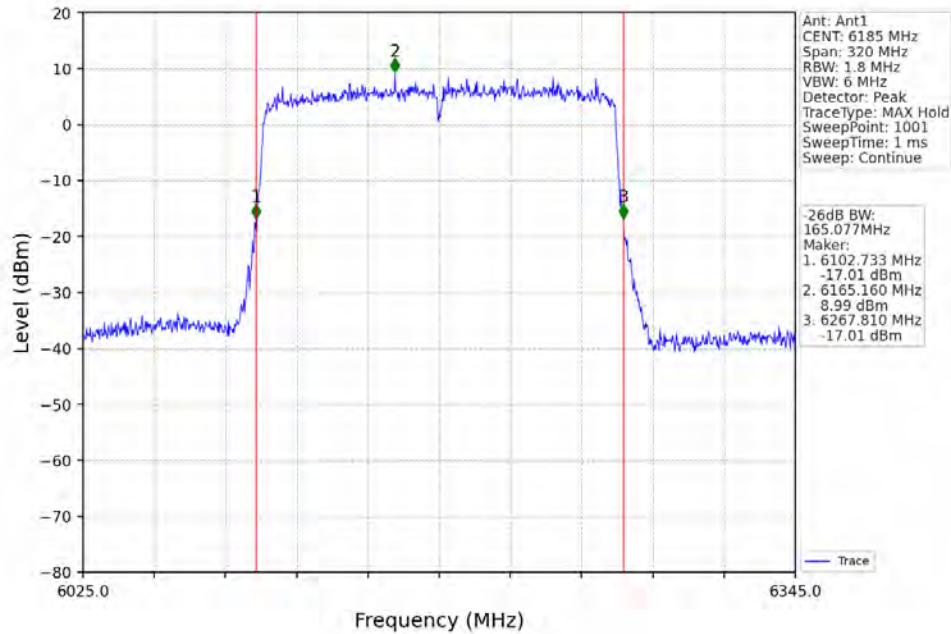
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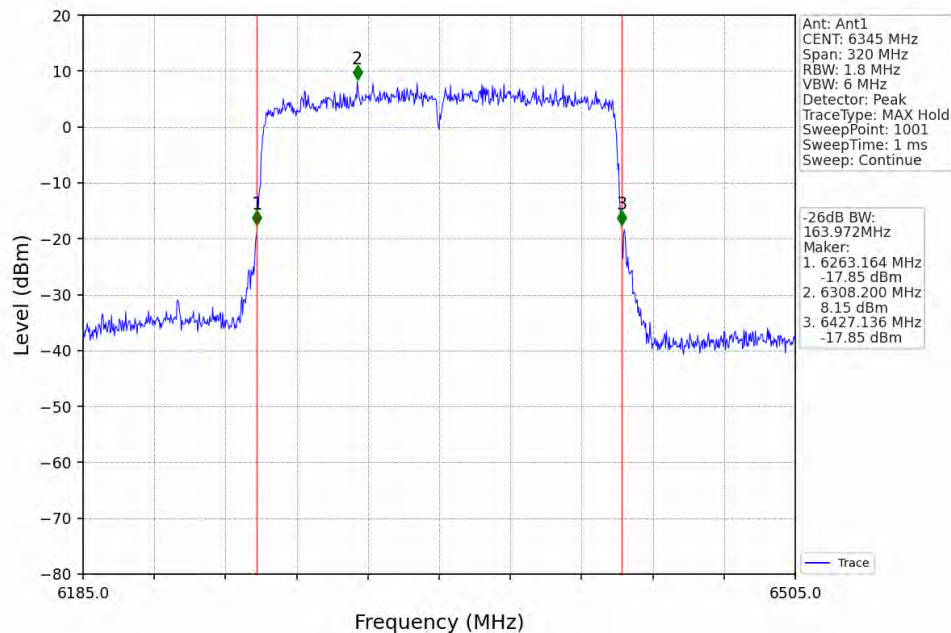
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802.11ax(HEW160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



802.11ax(HEW160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076709

Page: 207 of 515

2.3 OBW

2.3.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	1	19.134	<=320	Pass
			6475	RU242	Left	1	19.101	<=320	Pass
			6515	RU242	Left	1	19.108	<=320	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	37.904	<=320	Pass
			6485	RU484	Left	1	37.924	<=320	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	77.431	<=320	Pass



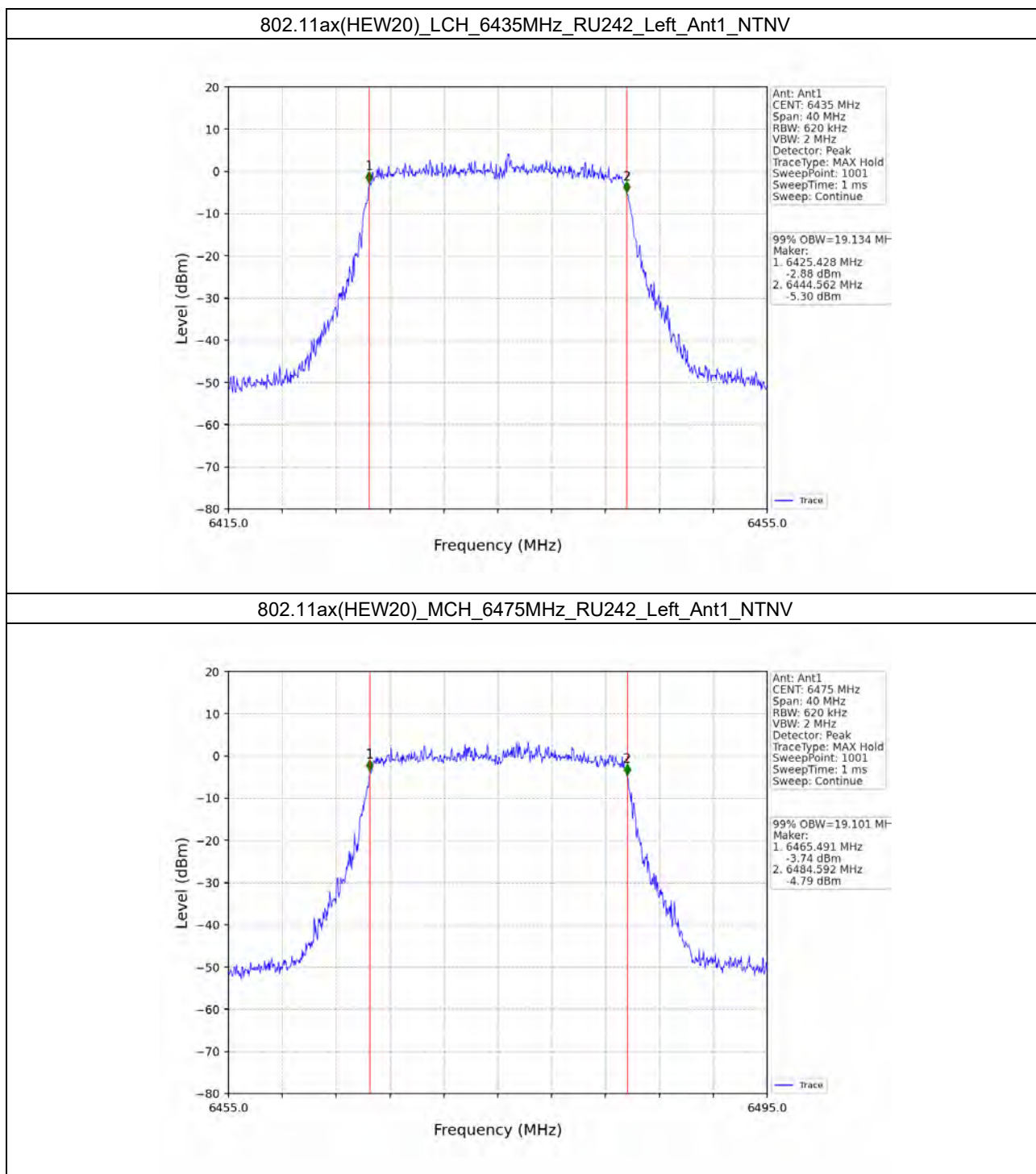
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2.3.2 Test Graph



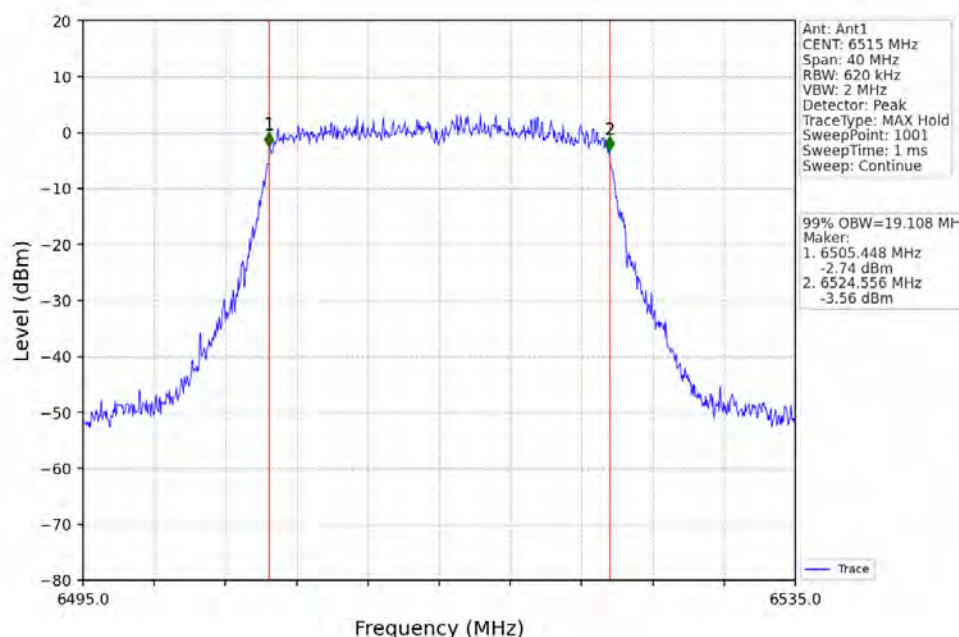
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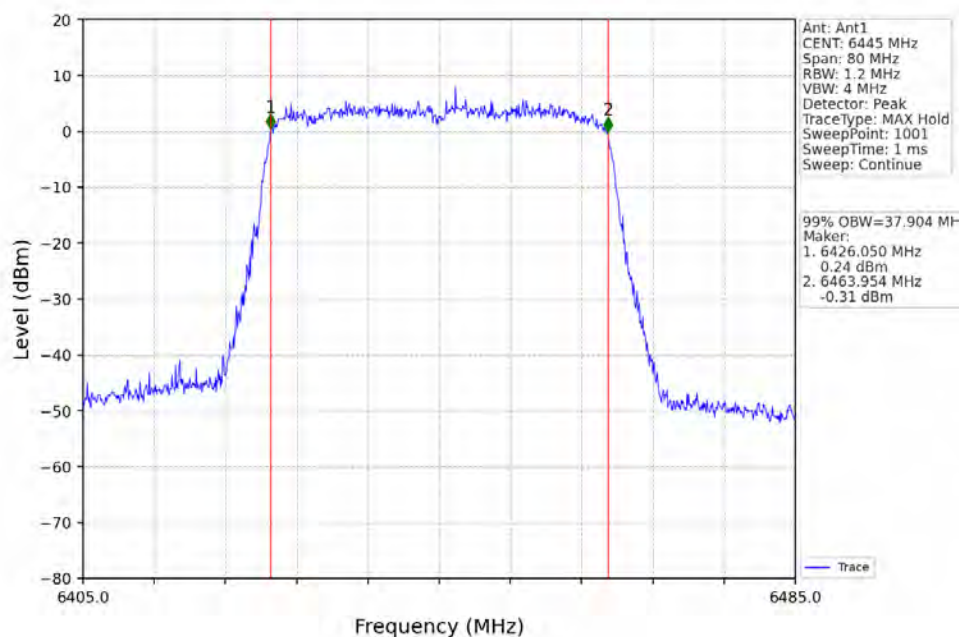
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802.11ax(HEW20)_HCH_6515MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



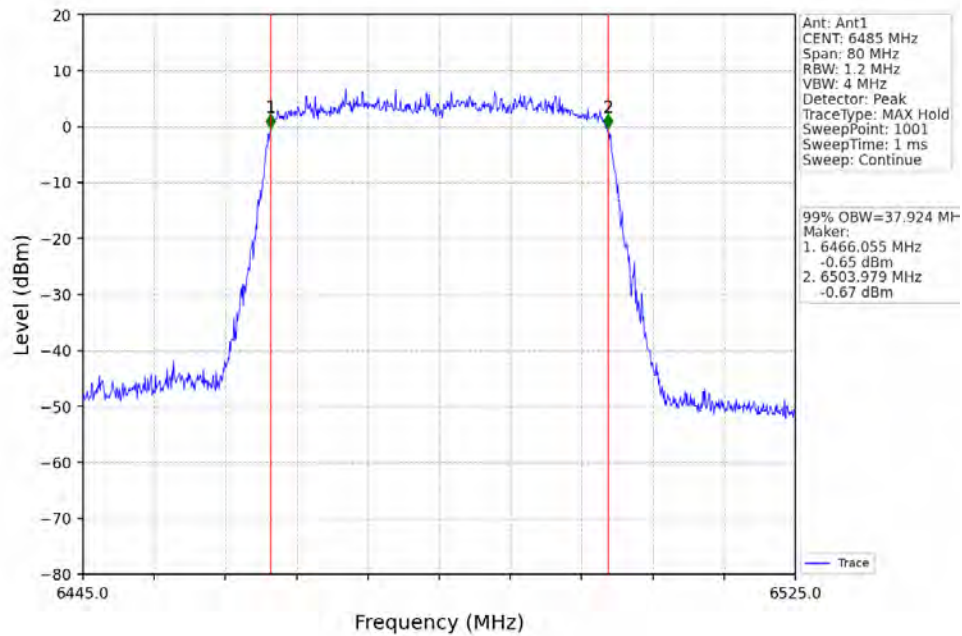
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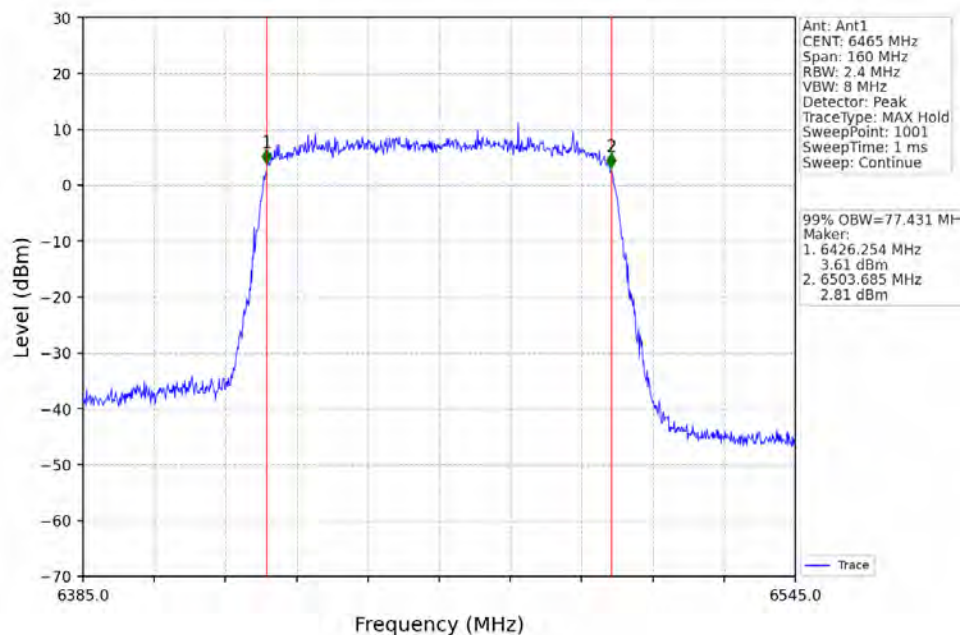
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802.11ax(HEW40)_MCH_6485MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_LCH_6465MHz_RU996_Left_Ant1_NTNV



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2.4 26dB BW

2.4.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6435	RU242	Left	1	20.947	<=320	Pass
			6475	RU242	Left	1	21.100	<=320	Pass
			6515	RU242	Left	1	21.303	<=320	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	40.251	<=320	Pass
			6485	RU484	Left	1	40.351	<=320	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	81.971	<=320	Pass



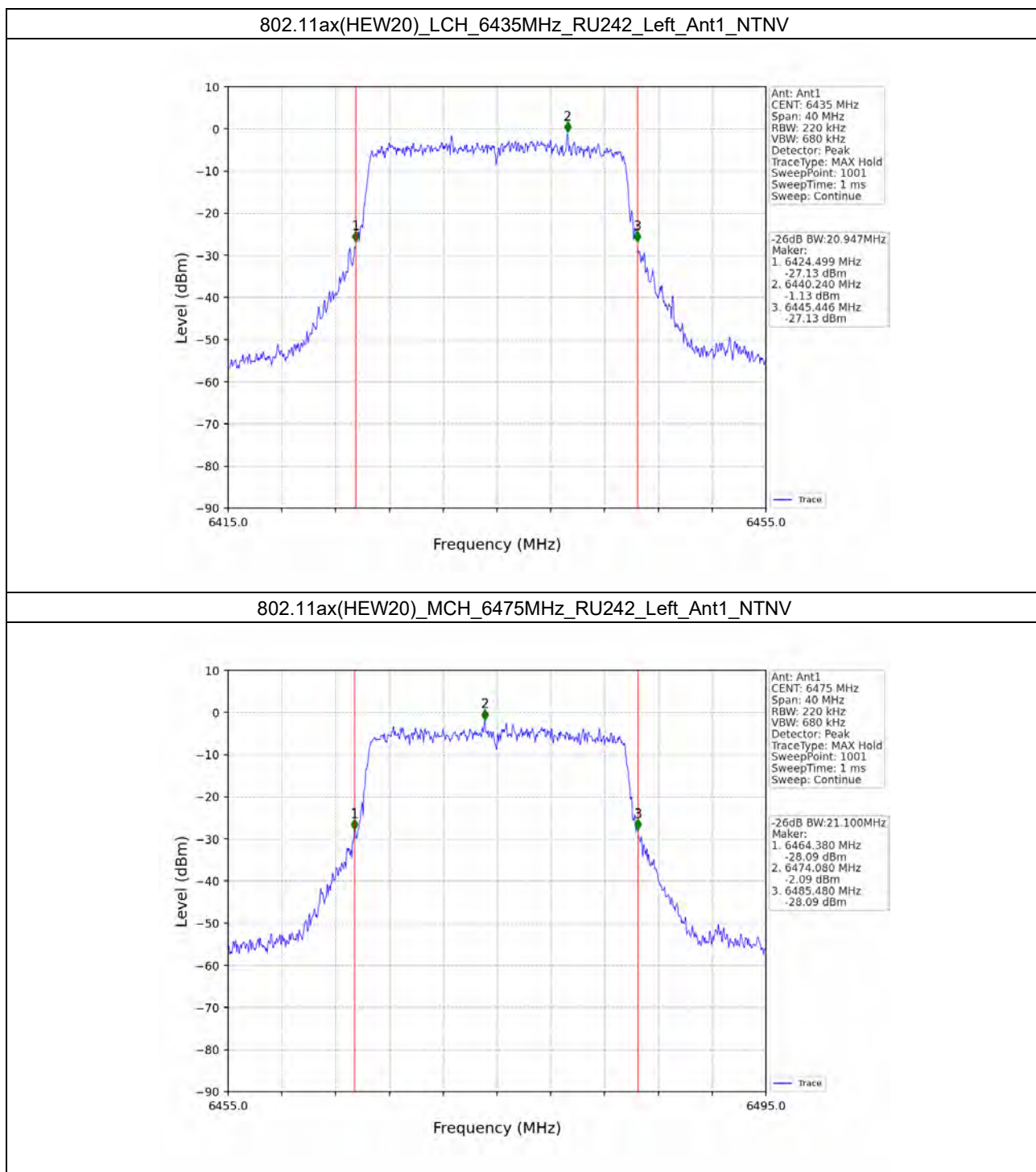
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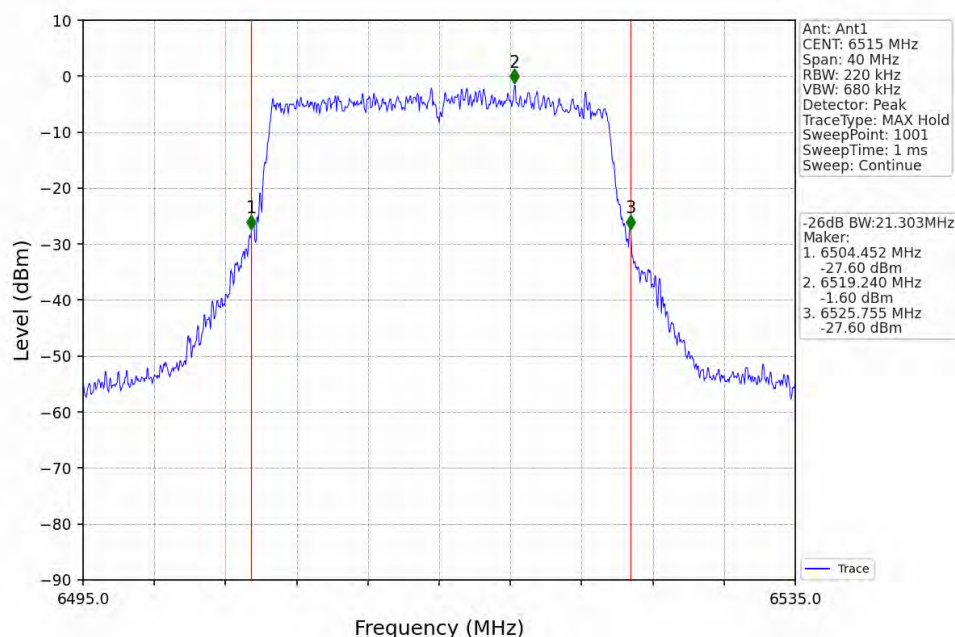
2.4.2 Test Graph



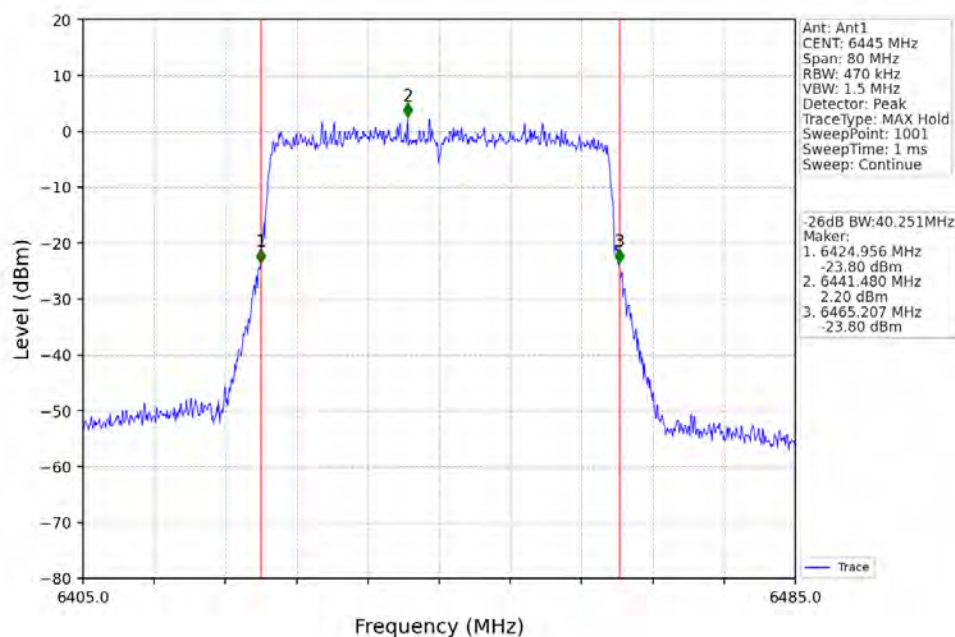
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802.11ax(HEW20)_HCH_6515MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



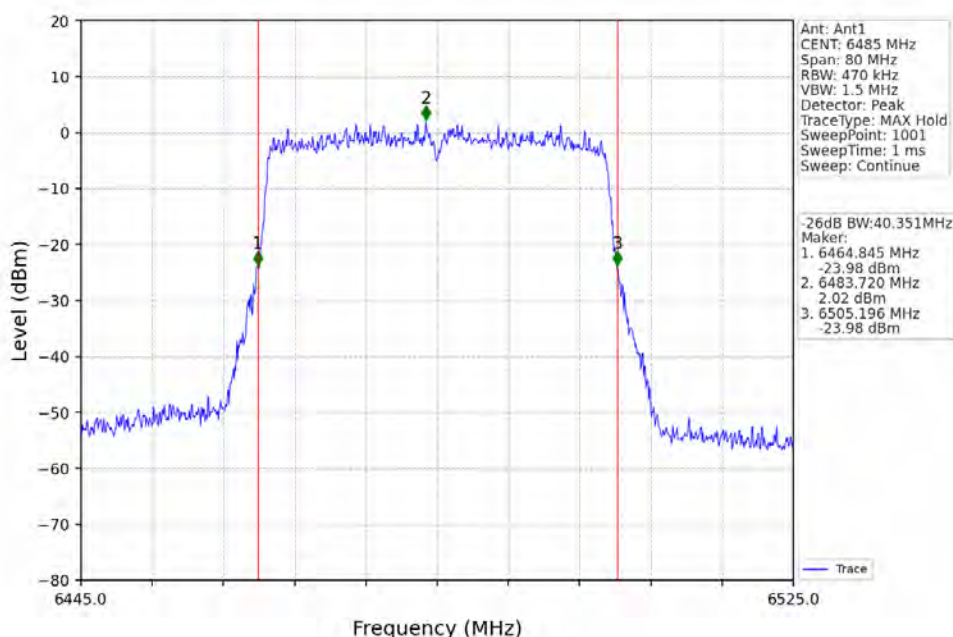
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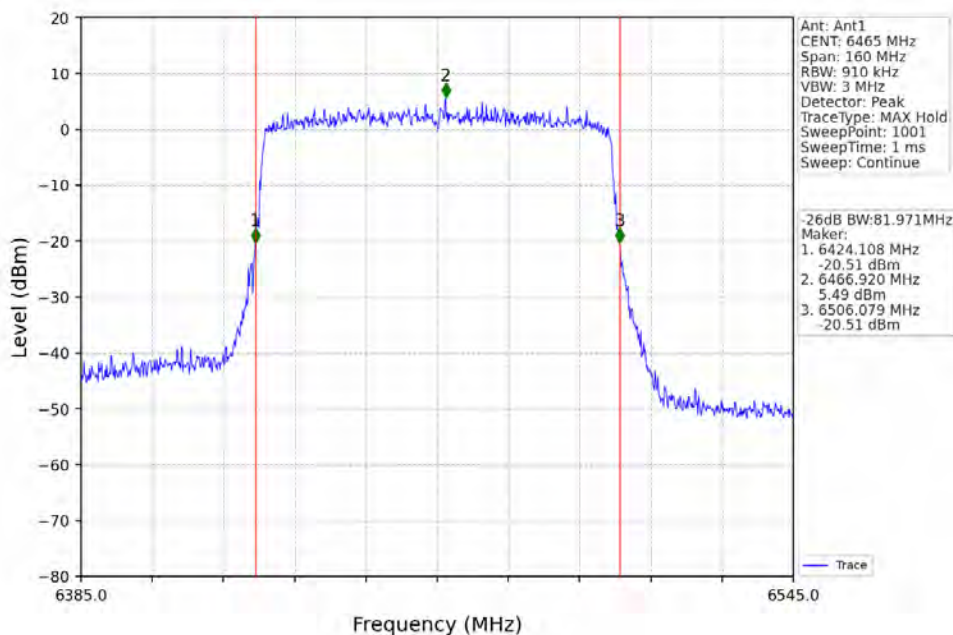
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802.11ax(HEW40)_MCH_6485MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_LCH_6465MHz_RU996_Left_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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2.5 OBW

2.5.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	1	19.089	<=320	Pass
			6695	RU242	Left	1	19.084	<=320	Pass
			6855	RU242	Left	1	19.055	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	37.947	<=320	Pass
			6685	RU484	Left	1	37.983	<=320	Pass
			6845	RU484	Left	1	37.855	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	77.428	<=320	Pass
			6705	RU996	Left	1	77.420	<=320	Pass
			6785	RU996	Left	1	77.349	<=320	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	156.213	<=320	Pass



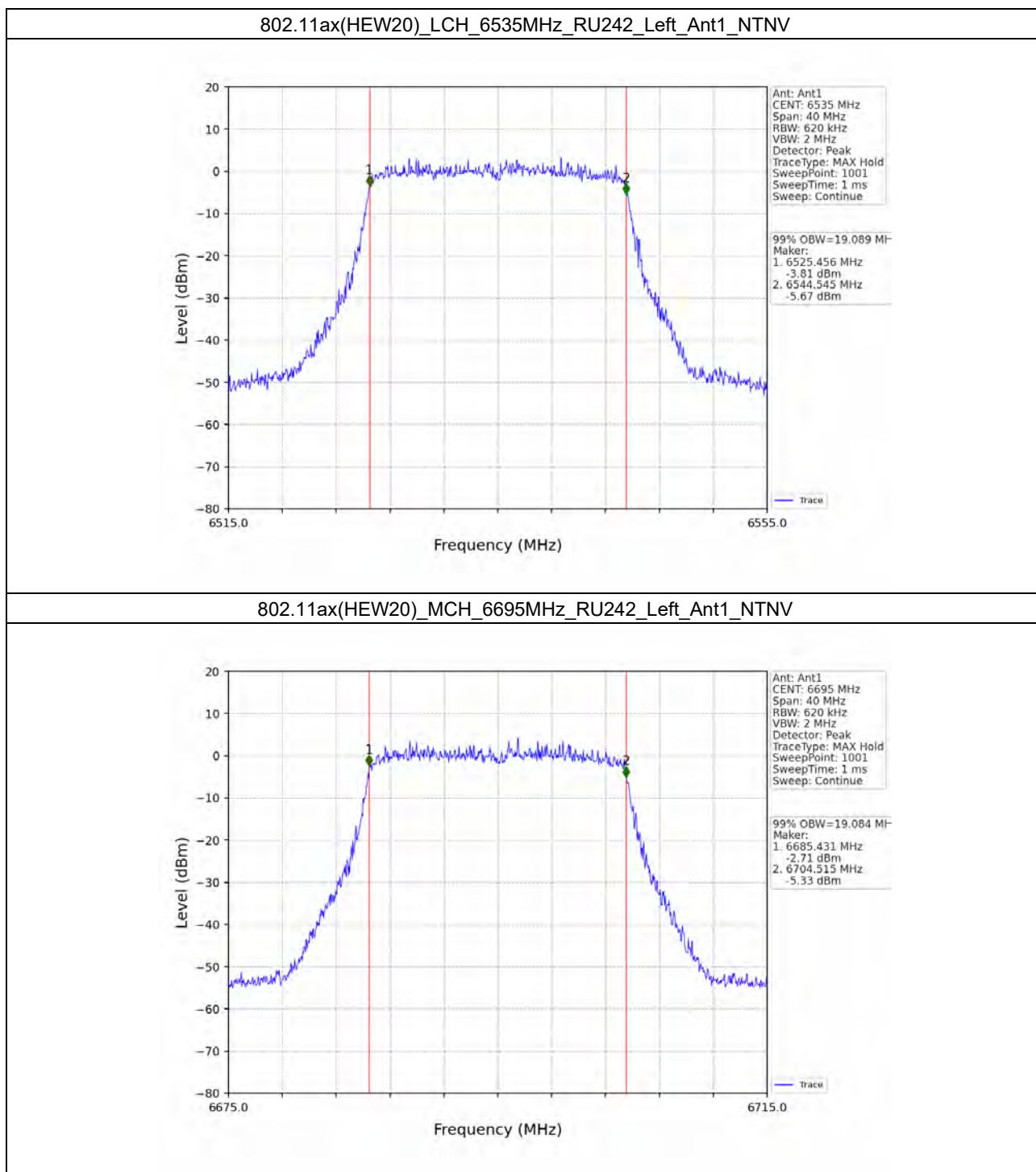
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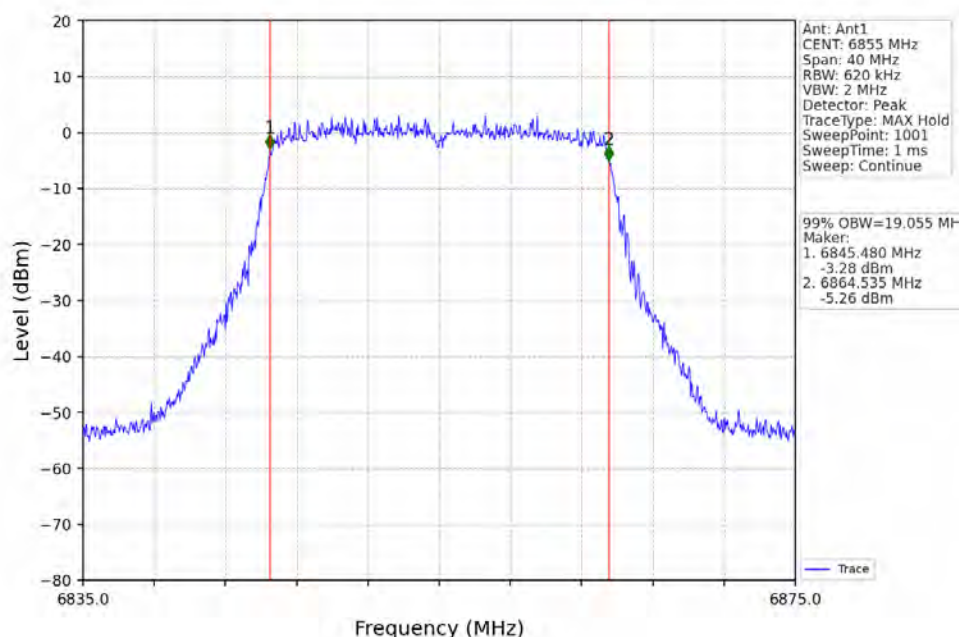
2.5.2 Test Graph



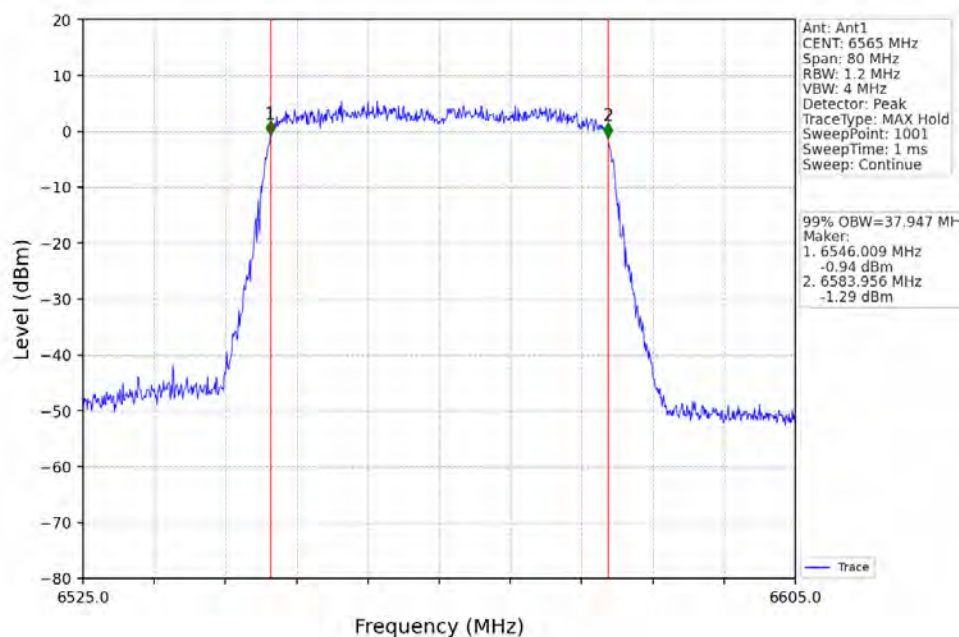
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802.11ax(HEW20)_HCH_6855MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW40)_LCH_6565MHz_RU484_Left_Ant1_NTNV



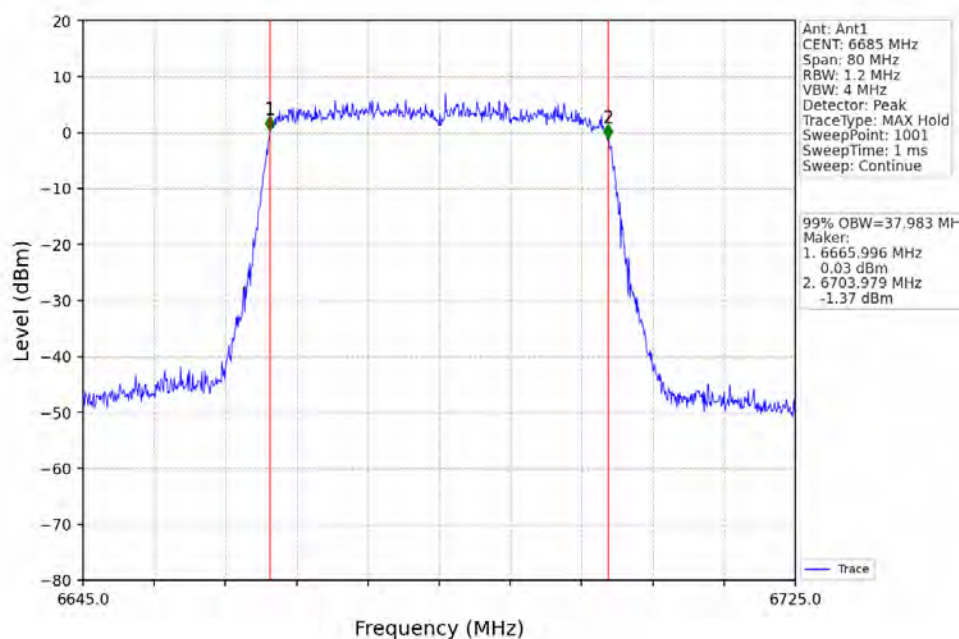
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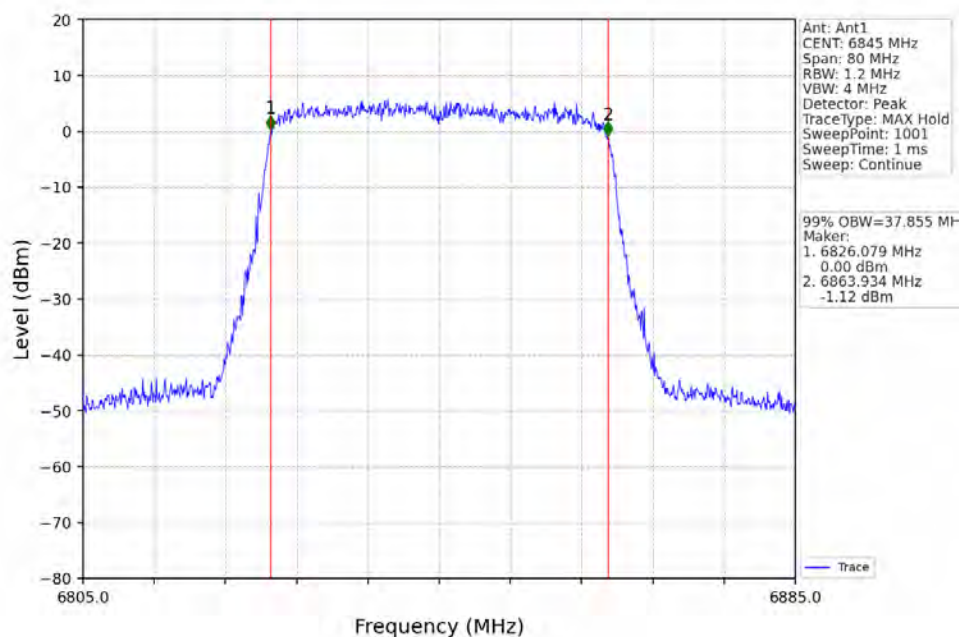
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802.11ax(HEW40)_MCH_6685MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_6845MHz_RU484_Left_Ant1_NTNV



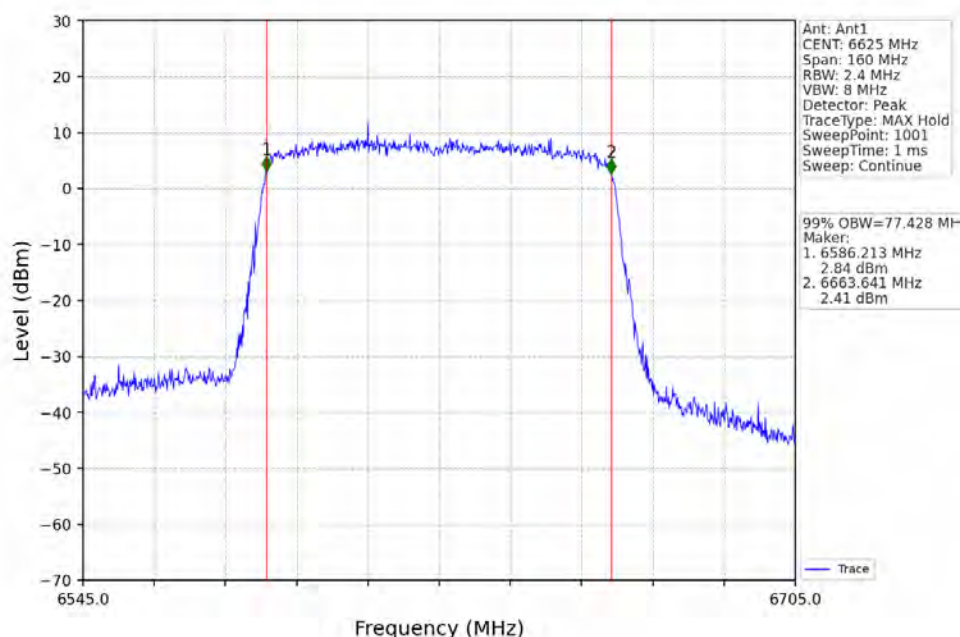
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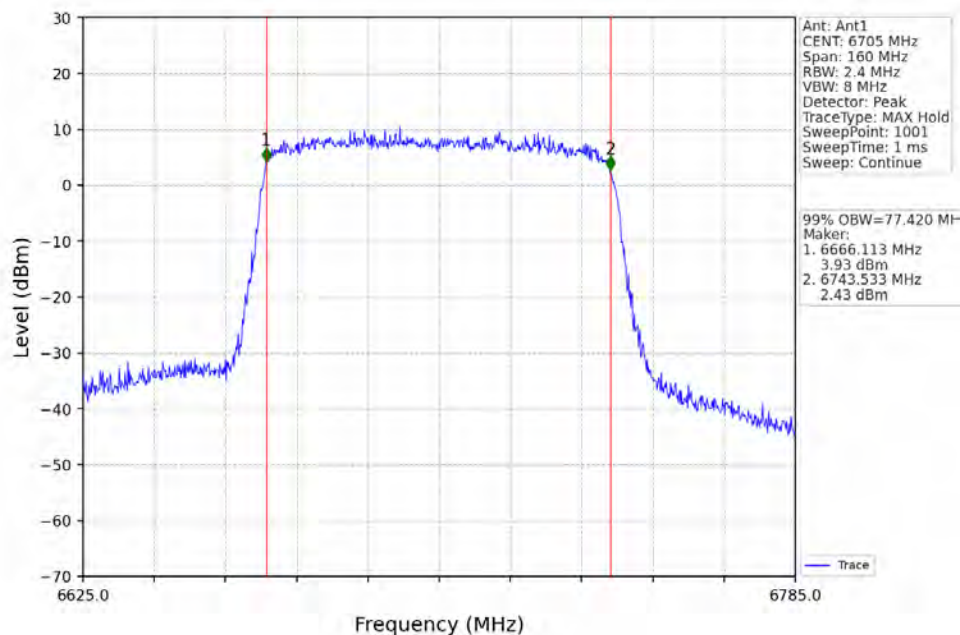
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802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant1_NTNV



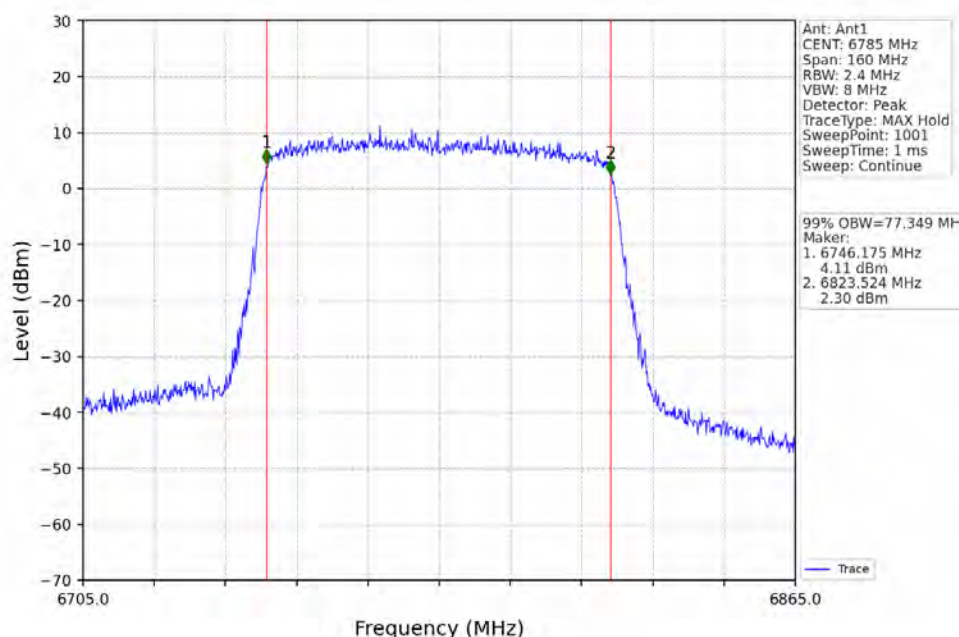
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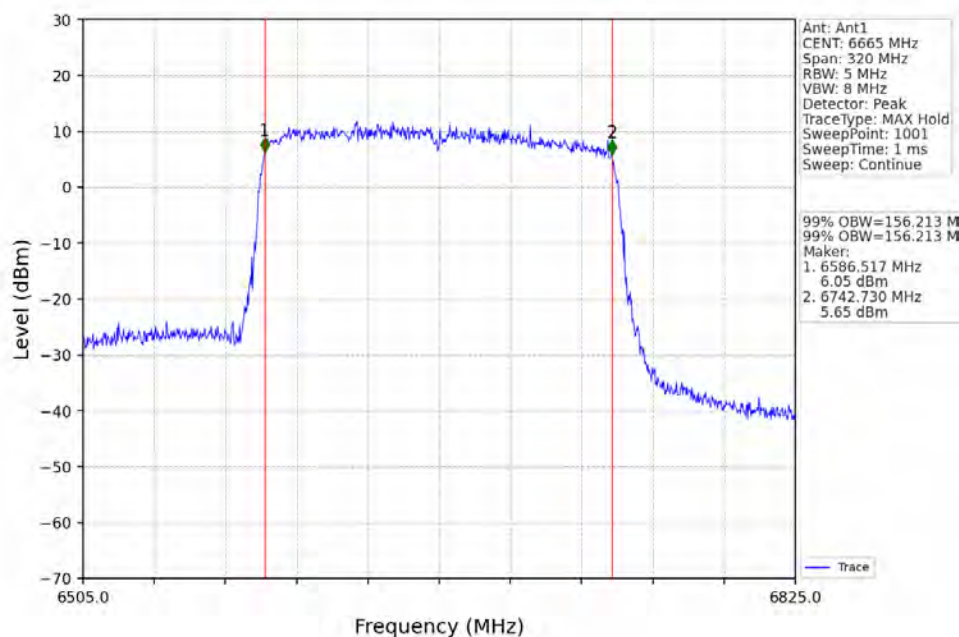
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802.11ax(HEW160)_MCH_6665MHz_2xRU996_Left_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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2.6 26dB BW

2.6.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	1	20.996	<=320	Pass
			6695	RU242	Left	1	21.218	<=320	Pass
			6855	RU242	Left	1	21.137	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	40.567	<=320	Pass
			6685	RU484	Left	1	40.399	<=320	Pass
			6845	RU484	Left	1	40.542	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	81.655	<=320	Pass
			6705	RU996	Left	1	81.991	<=320	Pass
			6785	RU996	Left	1	82.256	<=320	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	164.185	<=320	Pass



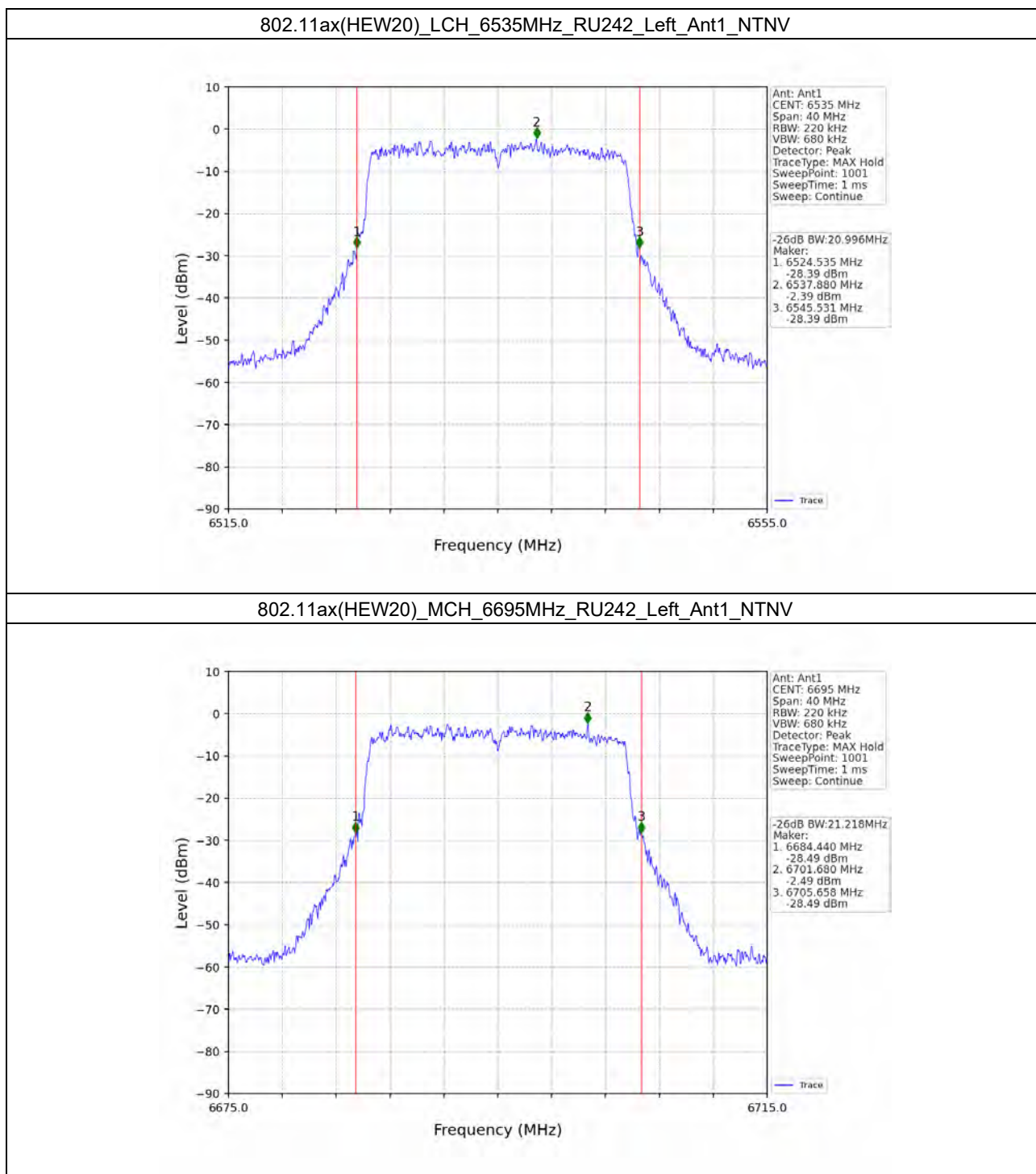
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2.6.2 Test Graph



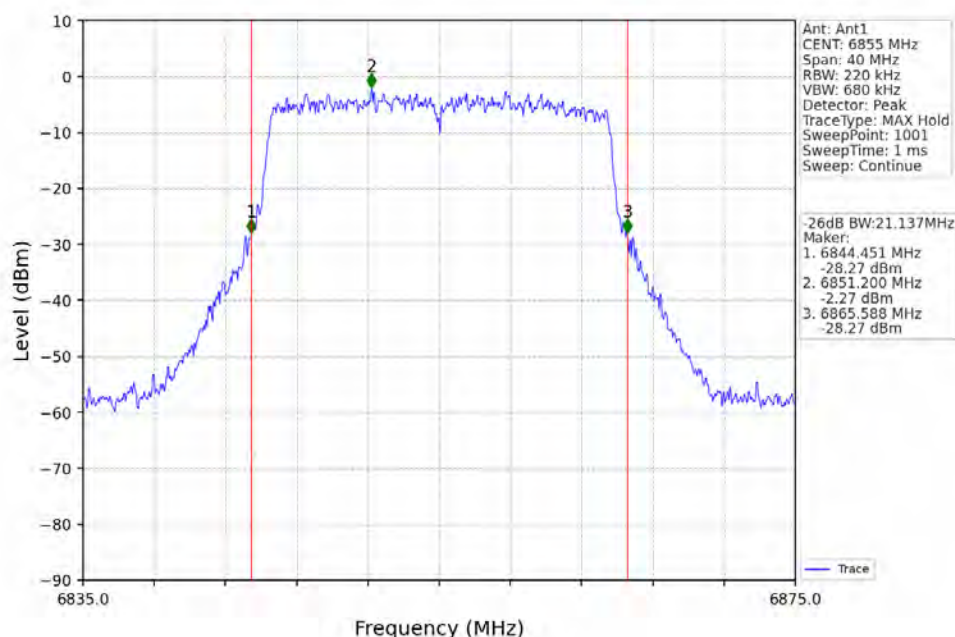
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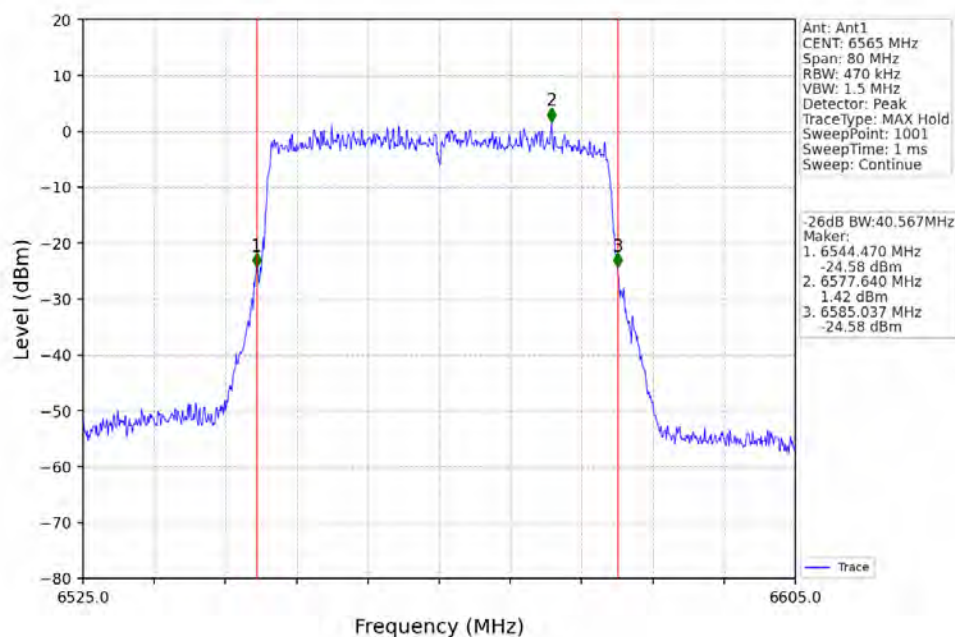
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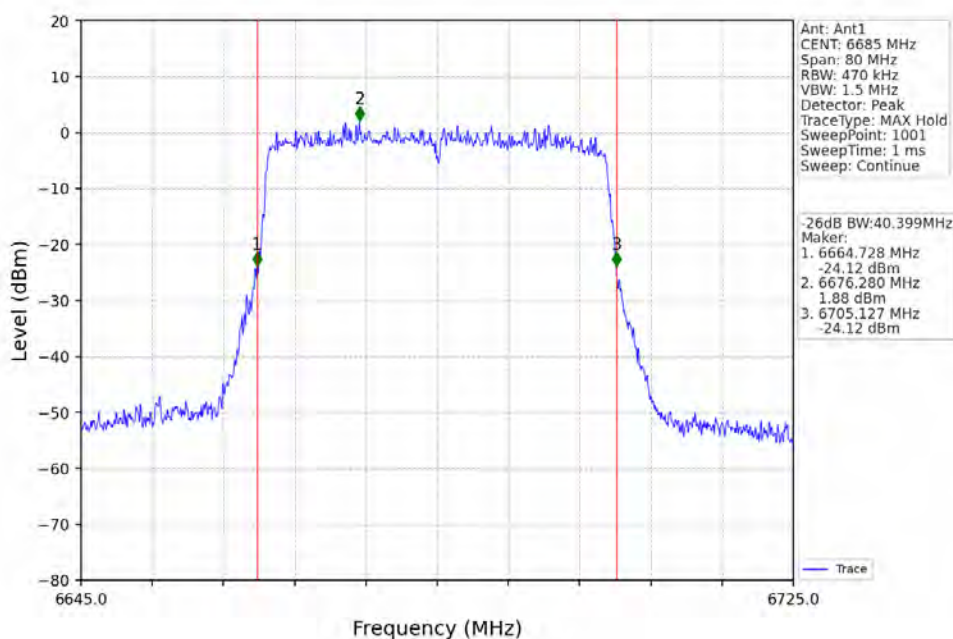
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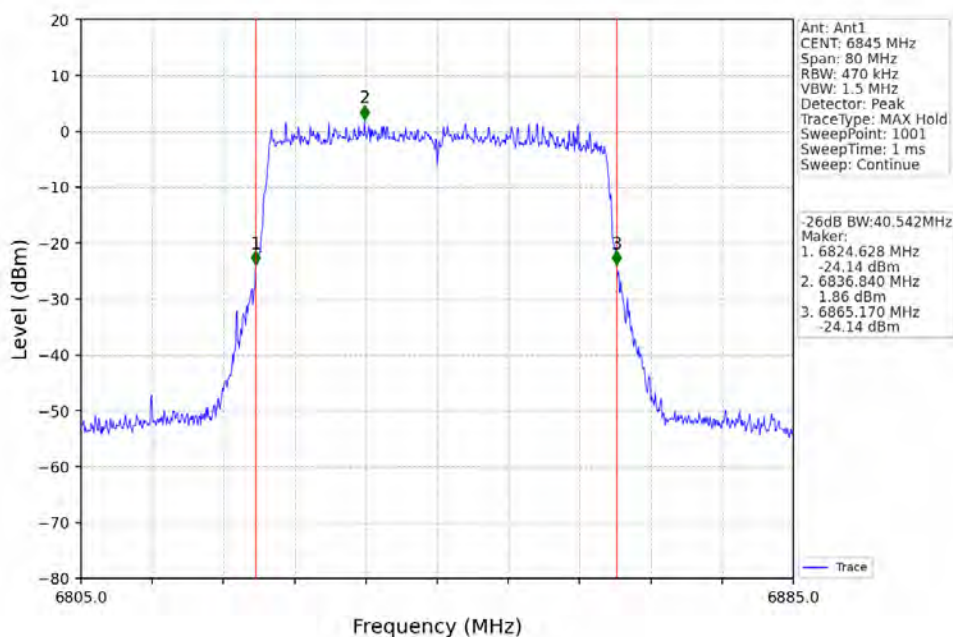
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