

TEST REPORT

Application No.: SZCR2506002484AT
Applicant: Bose Corporation
Address of Applicant: The Mountain Rd, Framingham, MA 01701, USA
Manufacturer: Bose Corporation
Address of Manufacturer: The Mountain Rd, Framingham, MA 01701, USA
Equipment Under Test (EUT):
EUT Name: Wireless Speaker
Model No.: 443508
Trade Mark: BOSE
FCC ID: A94443508
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-06-12
Date of Test: 2025-07-25 to 2025-08-20
Date of Issue: 2025-08-21

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

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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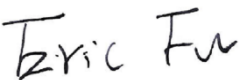
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-08-21		Original

Authorized for issue by:				
				
		Leo Lai/Project Engineer		
				
		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

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 C63.10-2020 Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10-2020 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10-2020 Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10-2020 Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
In-Band Emissions		ANSI C63.10-2020 Section 12.6	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Contention-based Protocol		KDB 987594 D02	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Duty Cycle		ANSI C63.10-2020 Section 12.2	ANSI C63.10-2020 Section 12.2	Pass
99% Bandwidth		ANSI C63.10-2020 Section 12.5	ANSI C63.10-2020 Section 12.5	Pass
26dB Emission bandwidth		ANSI C63.10-2020 Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10-2020 Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10-2020 Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10-2020 Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100-240V 50/60Hz Tested voltage: 120V~60Hz
Cable(s):	AC cable: 200cm
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency / Number of channels (20MHz):	U-NII-5: 5955-6415MHz (24 Channels);U-NII-6: 6435-6515MHz (5 Channels);U-NII-7: 6535-6855MHz (17 Channels);U-NII-8: 6875-7115MHz (13 Channels)
Operation Frequency / Number of channels (40MHz):	U-NII-5: 5965-6405MHz (12 Channels);U-NII-6: 6445-6485MHz (2 Channels);U-NII-7: 6525-6845MHz (9 Channels);U-NII-8: 6885-7085MHz (6 Channels)
Operation Frequency / Number of channels (80MHz):	U-NII-5: 5985-6385MHz (6 Channels);U-NII-6: 6465-6545MHz (2 Channels);U-NII-7: 6625-6785MHz (3 Channels);U-NII-8: 6865-7025MHz (3 Channels)
Modulation Type:	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	20MHz, 40MHz, 80MHz
Equipment Categories	Low-power Indoor Clients devices
Antenna Type:	ANT1: FPC antenna, ANT2: PCB Etch antenna
Antenna Gain:	U-NII-5: ANT1:4.1dBi, ANT2:3.5dBi; U-NII-6:ANT1:3.7dBi, ANT2:3.2dBi; U-NII-7:ANT1:4.2dBi, ANT2:4.4dBi; U-NII-8:ANT1:4.5dBi, ANT2:3.3dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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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)	± 3.1dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
In-Band Emissions	± 2.84dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%



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26dB Emission bandwidth	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

4.4 Test Location

All tests were performed at:

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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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

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	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

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	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
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	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
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	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

In-Band Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

Contention-based Protocol

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2025-05-16	2028-05-15
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2025-03-03	2026-03-02
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2025-07-24	2026-07-23



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DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-27	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2025-03-04	2026-03-03
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2025-07-05	2026-07-04

RF Conducted Test

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03

General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna are U-NII-5: ANT1:4.1dBi, ANT2:3.5dBi; U-NII-6:ANT1:3.7dBi, ANT2:3.2dBi; U-NII-7:ANT1:4.2dBi, ANT2:4.4dBi; U-NII-8:ANT1:4.5dBi, ANT2:3.3dBi.

Antenna location: Refer to internal photos



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 C63.10-2020 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: 25.3 °C

Humidity: 40.5 % RH

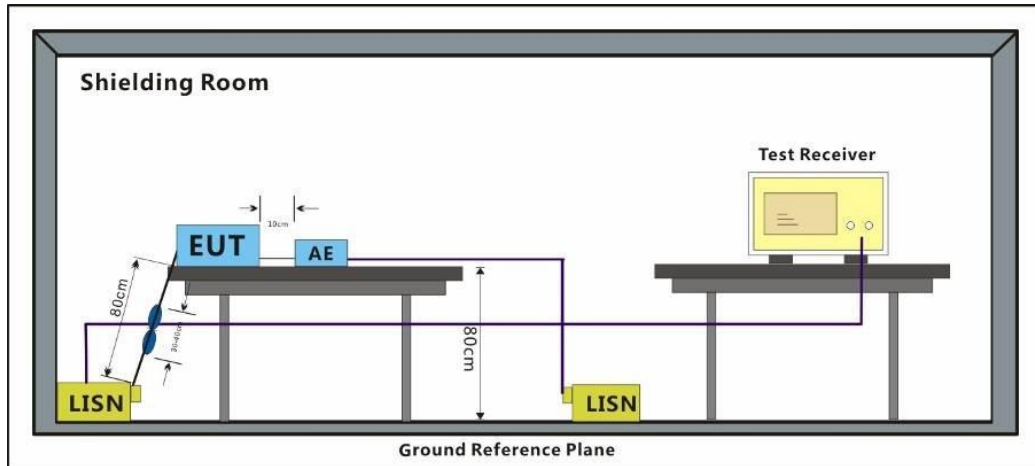
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

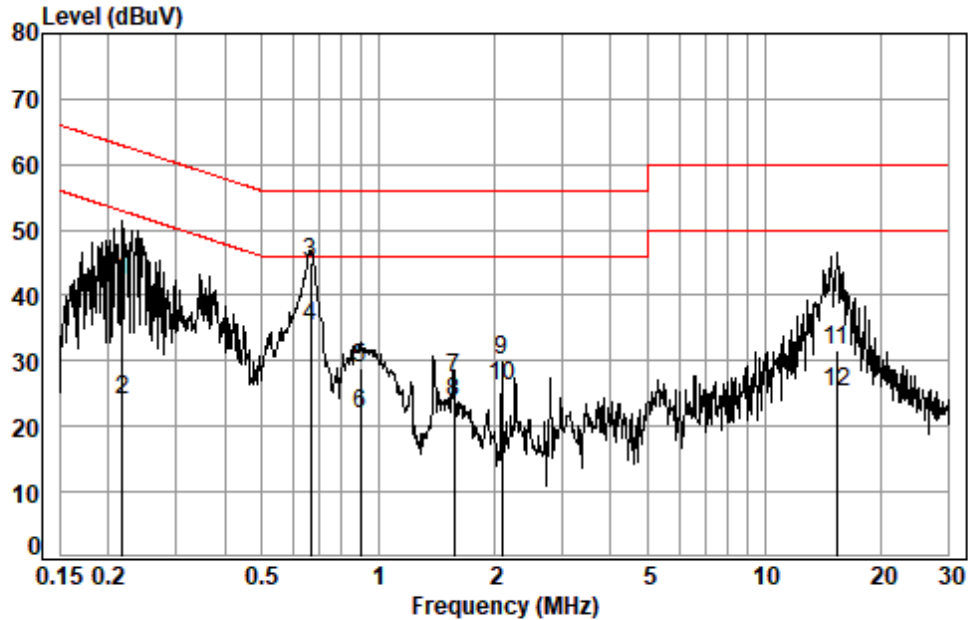
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Test Mode: 10; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 02484AT/02485AT
Test mode: 10

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2174	0.06	10.06	32.17	42.29	62.92	-20.63	QP
2	0.2174	0.06	10.06	13.90	24.02	52.92	-28.90	Average
3 *	0.6683	0.09	9.63	35.19	44.91	56.00	-11.09	QP
4 *	0.6683	0.09	9.63	25.69	35.41	46.00	-10.59	Average
5	0.8992	0.10	9.60	19.20	28.90	56.00	-27.10	QP
6	0.8992	0.10	9.60	12.27	21.97	46.00	-24.03	Average
7	1.5684	0.11	9.58	17.68	27.37	56.00	-28.63	QP
8	1.5684	0.11	9.58	14.06	23.75	46.00	-22.25	Average
9	2.0879	0.11	9.59	20.35	30.05	56.00	-25.95	QP
10	2.0879	0.11	9.59	16.39	26.09	46.00	-19.91	Average
11	15.3883	0.28	9.94	21.28	31.50	60.00	-28.50	QP
12	15.3883	0.28	9.94	15.09	25.31	50.00	-24.69	Average



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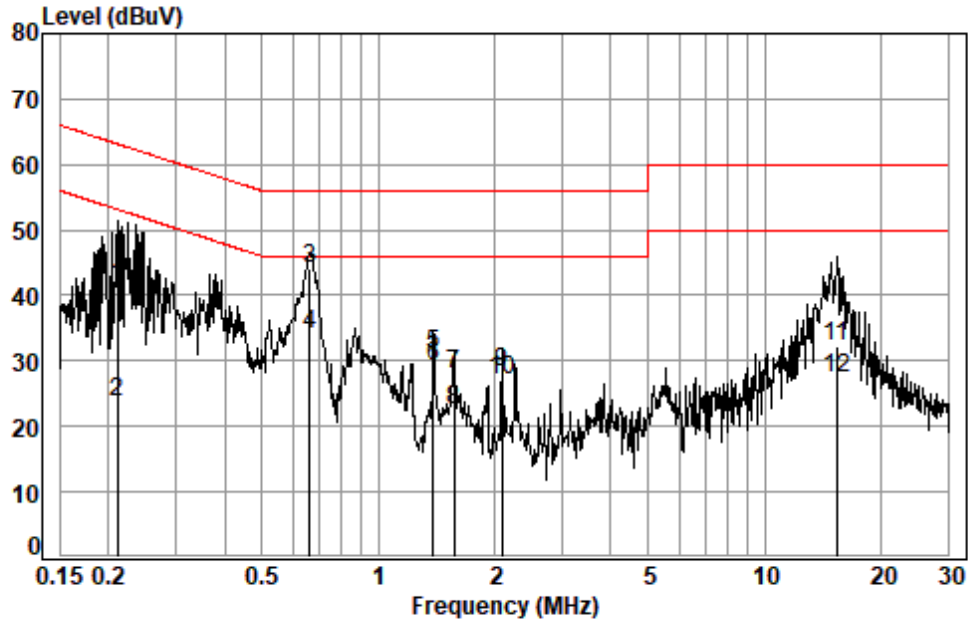
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Test Mode: 10; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 02484AT/02485AT
Test mode: 10

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2117	0.06	10.04	31.41	41.51	63.14	-21.63	QP
2	0.2117	0.06	10.04	13.69	23.79	53.14	-29.35	Average
3 *	0.6648	0.09	9.66	34.29	44.04	56.00	-11.96	QP
4 *	0.6648	0.09	9.66	24.39	34.14	46.00	-11.86	Average
5	1.3884	0.11	9.54	21.29	30.94	56.00	-25.06	QP
6	1.3884	0.11	9.54	19.65	29.30	46.00	-16.70	Average
7	1.5684	0.11	9.55	18.44	28.10	56.00	-27.90	QP
8	1.5684	0.11	9.55	12.93	22.59	46.00	-23.41	Average
9	2.0879	0.11	9.55	18.60	28.26	56.00	-27.74	QP
10	2.0879	0.11	9.55	17.38	27.04	46.00	-18.96	Average
11	15.3883	0.28	9.88	21.97	32.13	60.00	-27.87	QP
12	15.3883	0.28	9.88	17.07	27.23	50.00	-22.77	Average



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7.2 Radiated Emissions (Below 1GHz)

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

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

Measurement Distance: 3m

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

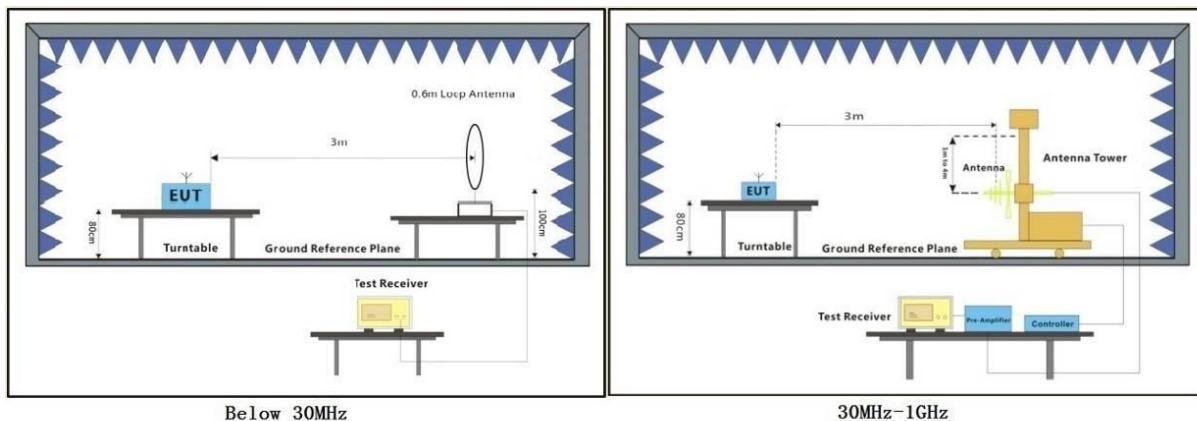
Humidity: 50.3 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a semi-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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added for the frequency below 30MHz once a closer distance used.

Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3 meter test distance).

2. 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.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

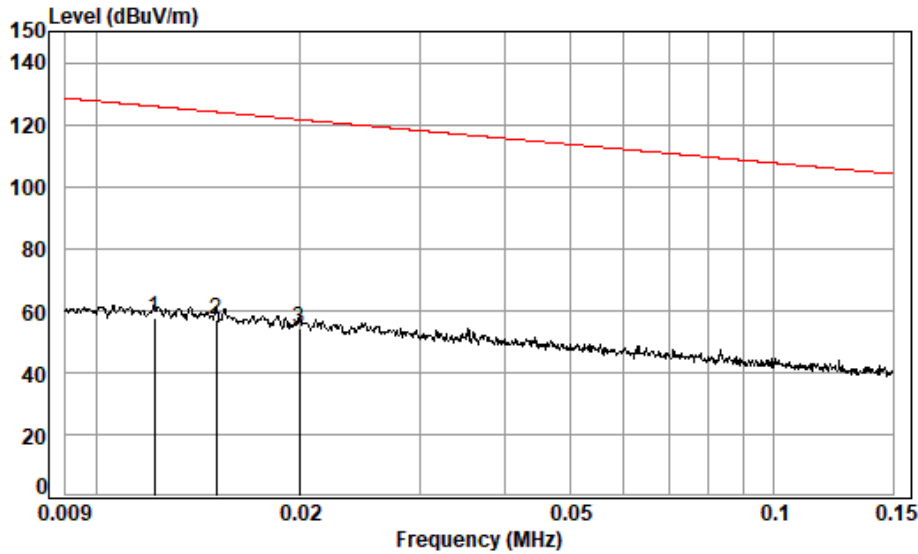


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Condition: 3m

Job No. : 02484AT

Test Mode: 10

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.012	71.58	17.22	0.10	31.31	57.59	125.86	-68.27	Average
2 pp	0.015	72.46	15.97	0.11	31.46	57.08	124.05	-66.97	Average
3	0.020	71.72	13.77	0.11	31.66	53.94	121.59	-67.65	Average

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Over Limit (dB)
0.012	57.59	80.00	-22.41	45.86	-68.27
0.015	57.08	80.00	-22.92	44.05	-66.97
0.020	53.94	80.00	-26.06	41.59	-67.65



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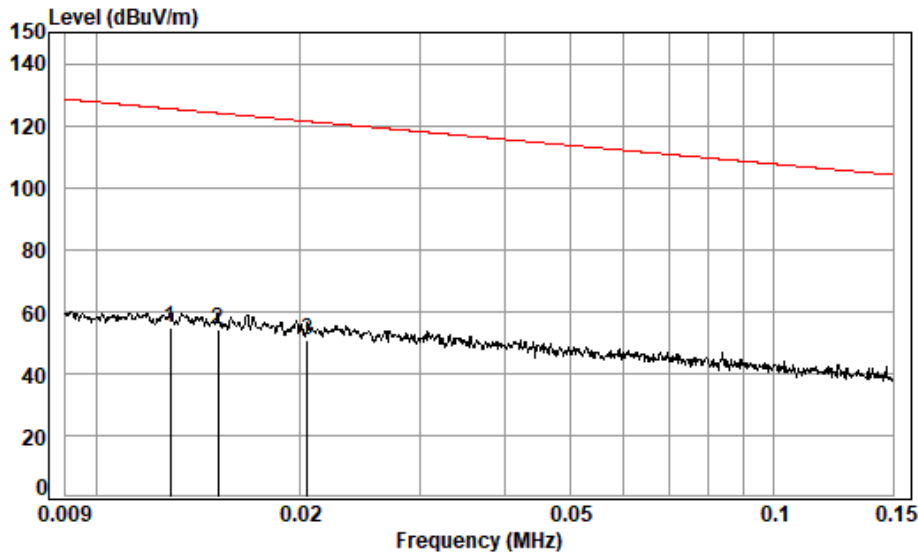
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Condition: 3m

Job No. : 02484AT

Test Mode: 10

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.013	68.88	16.92	0.11	31.35	54.56	125.40	-70.84	Average
2 pp	0.015	69.57	15.93	0.11	31.46	54.15	124.01	-69.86	Average
3	0.020	68.72	13.68	0.11	31.67	50.84	121.37	-70.53	Average

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Over Limit (dB)
0.013	54.56	80.00	-25.44	45.40	-70.84
0.015	54.15	80.00	-25.85	44.01	-69.86
0.020	50.84	80.00	-29.16	41.37	-70.53

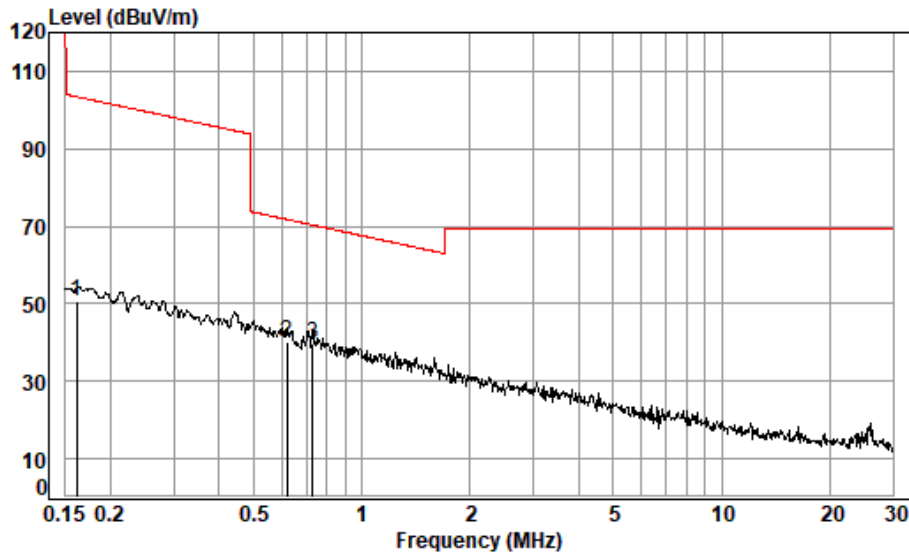


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Condition: 3m

Job No. : 02484AT

Test Mode: 10

: coaxial

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.162	72.40	10.49	0.15	32.40	50.64	103.43	-52.79 Average
2		0.621	62.23	10.36	0.30	32.53	40.36	71.74	-31.38 QP
3	pp	0.731	61.67	10.35	0.32	32.55	39.79	70.30	-30.51 QP

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @300/30m (dBuV/m)	Limit @ 300/30m (dBuV/m)	Over Limit (dB)
0.162	50.64	80.00	-29.36	23.43	-52.79
0.621	40.36	40.00	0.36	31.74	-31.38
0.731	39.79	40.00	-0.21	30.30	-30.51

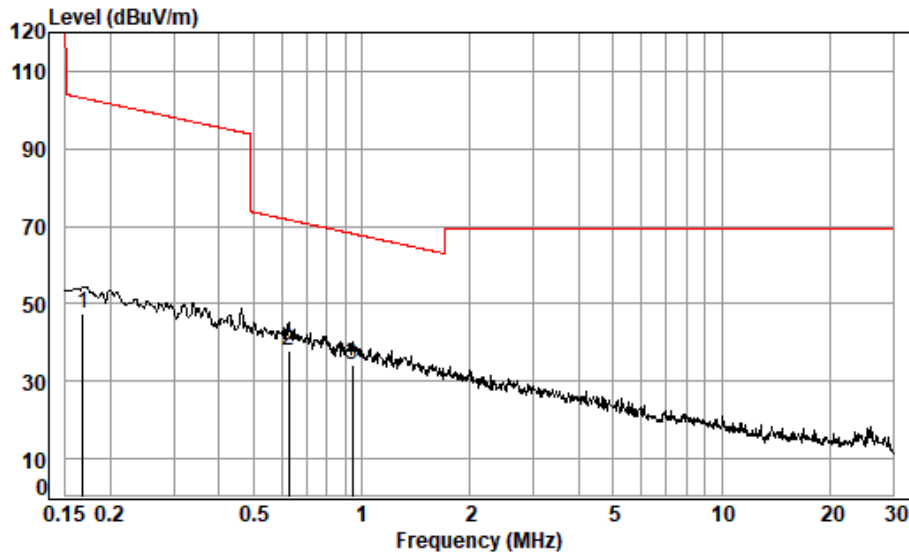


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Condition: 3m

Job No. : 02484AT

Test Mode: 10

: coplanar

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	av	0.168	68.99	10.49	0.15	32.40	47.23	103.11	Average
2	pp	0.627	59.93	10.36	0.31	32.53	38.07	71.64	QP
3		0.943	56.17	10.35	0.35	32.59	34.28	68.08	QP

Frequency (MHz)	Level @ 3m (dBuV/m)	Factor (dB)	Level @300/30m (dBuV/m)	Limit @ 300/30m (dBuV/m)	Over Limit (dB)
0.168	47.23	80.00	-32.77	23.11	-55.88
0.627	38.07	40.00	-1.93	31.64	-33.57
0.943	34.28	40.00	-5.72	28.08	-33.80



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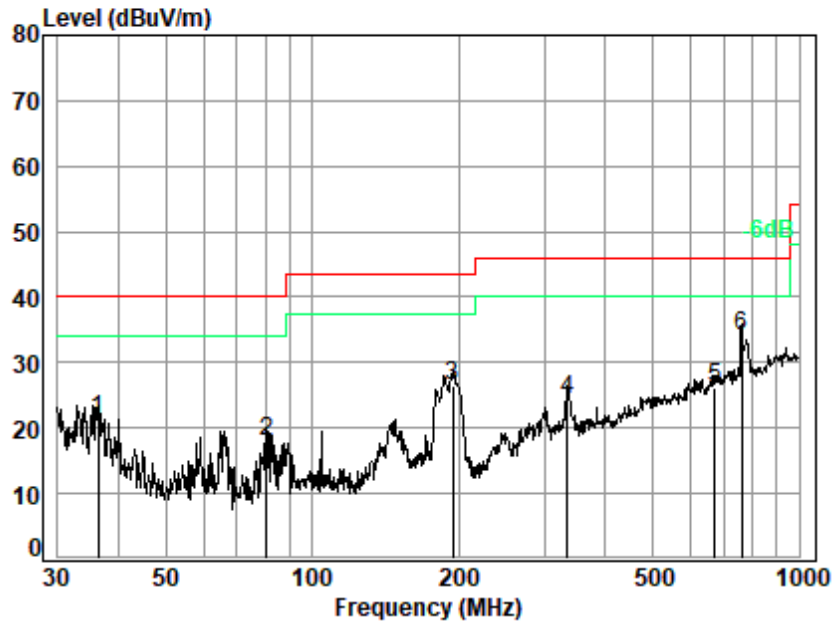
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600248406

Page: 22 of 433

Test Mode: 10; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 02484AT
Test Mode: 10

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.254	18.17	0.79	27.64	30.02	21.34	40.00	-18.66 QP
2	80.644	10.50	1.11	27.61	34.06	18.06	40.00	-21.94 QP
3	194.453	14.15	1.68	27.79	38.55	26.59	43.50	-16.91 QP
4	333.687	18.80	2.25	27.59	30.89	24.35	46.00	-21.65 QP
5	670.489	25.57	3.32	27.91	25.05	26.03	46.00	-19.97 QP
6 q	760.704	26.47	3.58	27.69	31.57	33.93	46.00	-12.07 QP



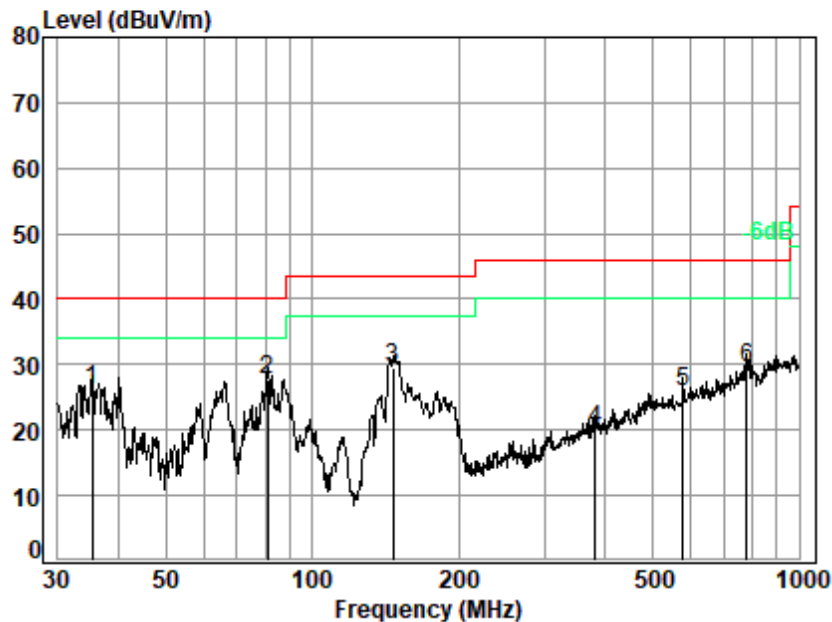
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Test Mode: 10; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 02484AT
Test Mode: 10

		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	35.251	18.74	0.78	27.65	34.42	26.29	40.00	-13.71	QP
2 q	80.927	10.52	1.11	27.61	43.53	27.55	40.00	-12.45	QP
3	146.374	12.60	1.48	27.71	43.05	29.42	43.50	-14.08	QP
4	381.249	20.91	2.43	27.71	24.54	20.17	46.00	-25.83	QP
5	576.644	23.84	3.04	28.07	27.12	25.93	46.00	-20.07	QP
6	779.607	27.03	3.64	27.64	26.62	29.65	46.00	-16.35	QP



7.3 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10-2020 Section 6.6

7.3.1 E.U.T. Operation

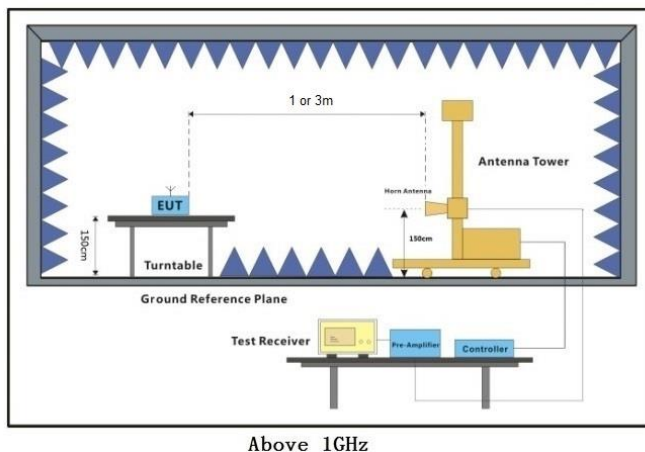
Operating Environment:

Temperature: 21.4 °C Humidity: 53.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

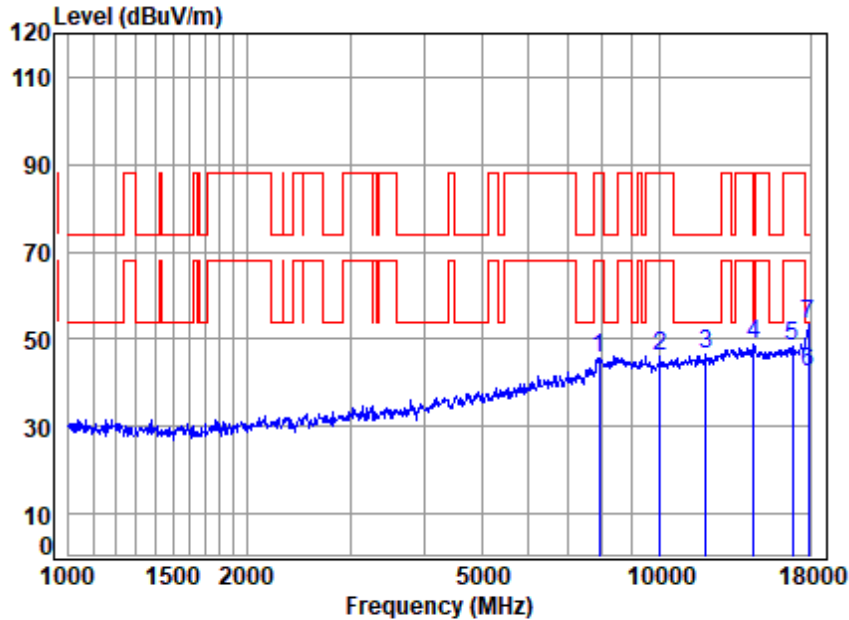
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna from 1GHz to 18GHz, and 1 meter away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna 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+ Aux Factor (if applicable)
The aux factor needs to be added for the frequency above 18GHz once a closer distance used.
Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1 meter test distance).
2. Scan from 18GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower, 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 worst-case test curve is 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.



11ax_20M_TX_CH_001_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

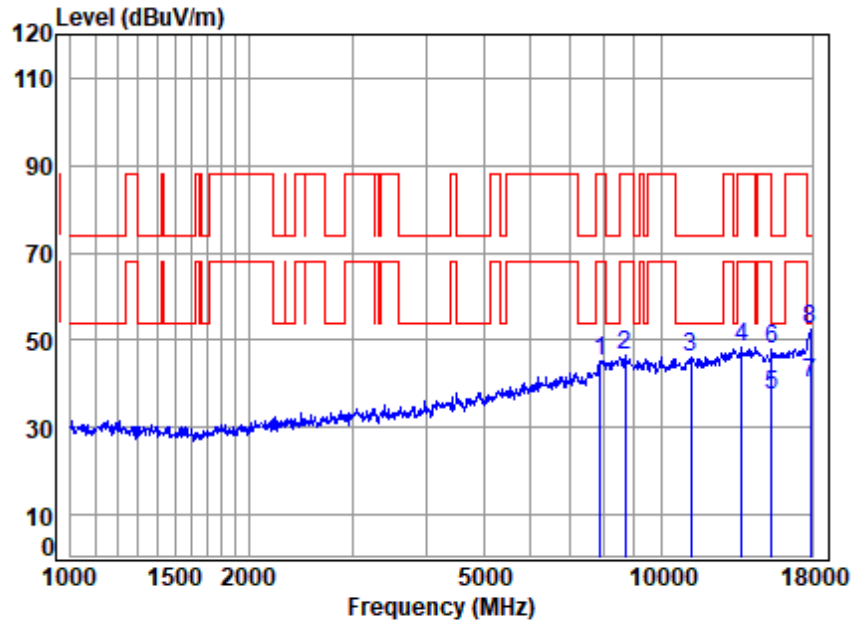
Mode : 5955 TX RSE

: Wi-Fi 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	7898.049	12.88	37.59	56.53	51.80	45.74	88.20	-42.46	peak
2	10010.420	12.97	38.92	55.80	49.94	46.03	88.20	-42.17	peak
3	11975.100	14.47	39.78	55.21	47.48	46.52	74.00	-27.48	peak
4	14450.130	16.89	39.55	54.32	46.48	48.60	88.20	-39.60	peak
5	16842.290	18.22	39.60	54.09	44.76	48.49	88.20	-39.71	peak
6	pp17896.250	19.26	43.08	54.19	34.32	42.47	54.00	-11.53	Average
7	pk17896.250	19.26	43.08	54.19	45.07	53.22	74.00	-20.78	peak



11ax_20M_TX_CH_001_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 5955 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7875.254	12.54	37.50	56.54	51.77	45.27	88.20	-42.93	peak
2	8688.480	12.44	38.55	56.24	51.67	46.42	88.20	-41.78	peak
3	11204.900	14.32	39.60	55.43	47.53	46.02	74.00	-27.98	peak
4	13677.970	16.20	40.00	54.61	46.90	48.49	88.20	-39.71	peak
5	15398.830	17.93	38.60	54.06	34.98	37.45	54.00	-16.55	Average
6	15398.830	17.93	38.60	54.06	45.55	48.02	74.00	-25.98	peak
7	pp17896.250	19.26	43.08	54.19	32.11	40.26	54.00	-13.74	Average
8	pk17896.250	19.26	43.08	54.19	44.42	52.57	74.00	-21.43	peak



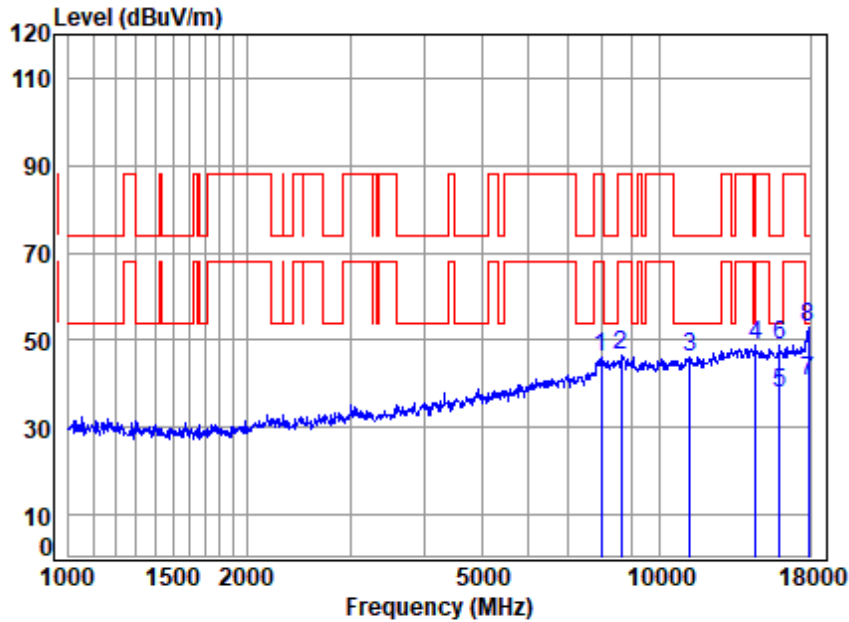
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600248406

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11ax_20M_TX_CH_045_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 6175 TX RSE

: Wi-Fi 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	7989.893	12.31	37.78	56.50	52.42	46.01	88.20	-42.19	peak
2	8613.468	12.35	38.47	56.27	51.81	46.36	88.20	-41.84	peak
3	11269.860	14.52	39.67	55.41	47.38	46.16	74.00	-27.84	peak
4	14533.910	16.33	39.43	54.28	47.11	48.59	88.20	-39.61	peak
5	15988.450	17.35	38.61	54.00	35.88	37.84	54.00	-16.16	Average
6	15988.450	17.35	38.61	54.00	46.74	48.70	74.00	-25.30	peak
7	pp17896.250	19.26	43.08	54.19	32.35	40.50	54.00	-13.50	Average
8	pk17896.250	19.26	43.08	54.19	44.62	52.77	74.00	-21.23	peak



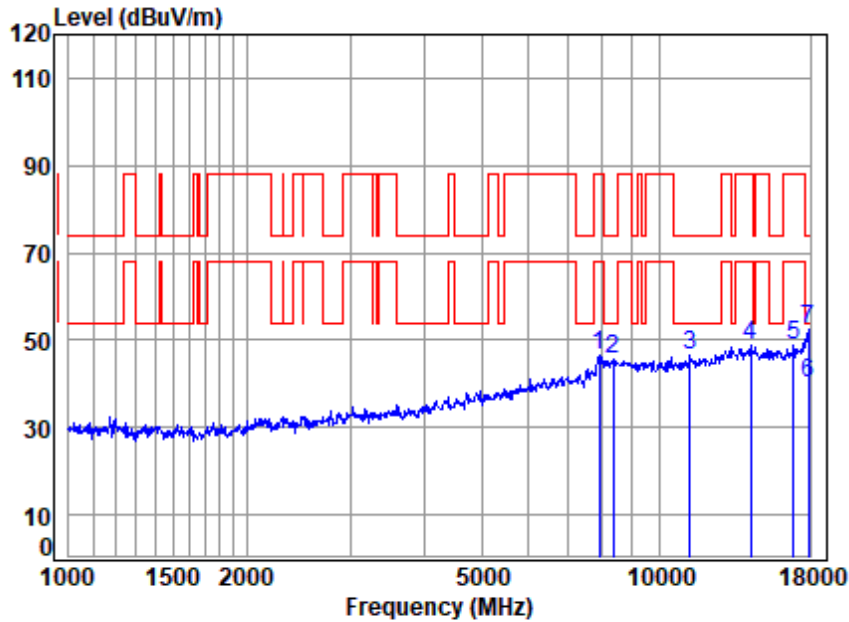
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11ax_20M_TX_CH_045_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 6175 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7920.911	12.77	37.64	56.52	52.63	46.52	88.20	-41.68	peak
2	8343.918	11.96	38.60	56.37	51.31	45.50	74.00	-28.50	peak
3	11269.860	14.52	39.67	55.41	47.64	46.42	74.00	-27.58	peak
4	14284.030	16.45	39.80	54.38	46.82	48.69	88.20	-39.51	peak
5	16891.040	18.97	39.60	54.09	44.24	48.72	88.20	-39.48	peak
6	pp17896.250	19.26	43.08	54.19	31.84	39.99	54.00	-14.01	Average
7	pk17896.250	19.26	43.08	54.19	44.42	52.57	74.00	-21.43	peak



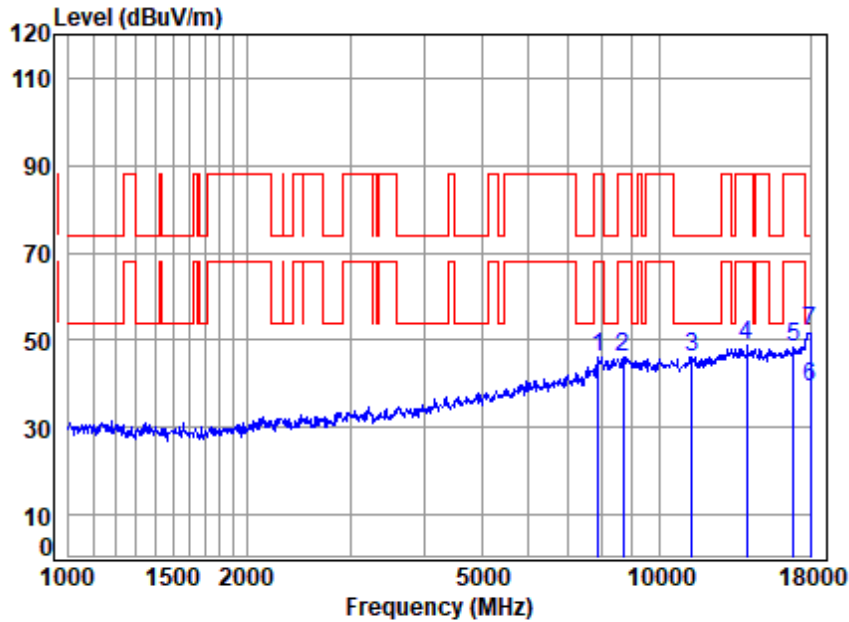
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11ax_20M_TX_CH_093_Horizontal

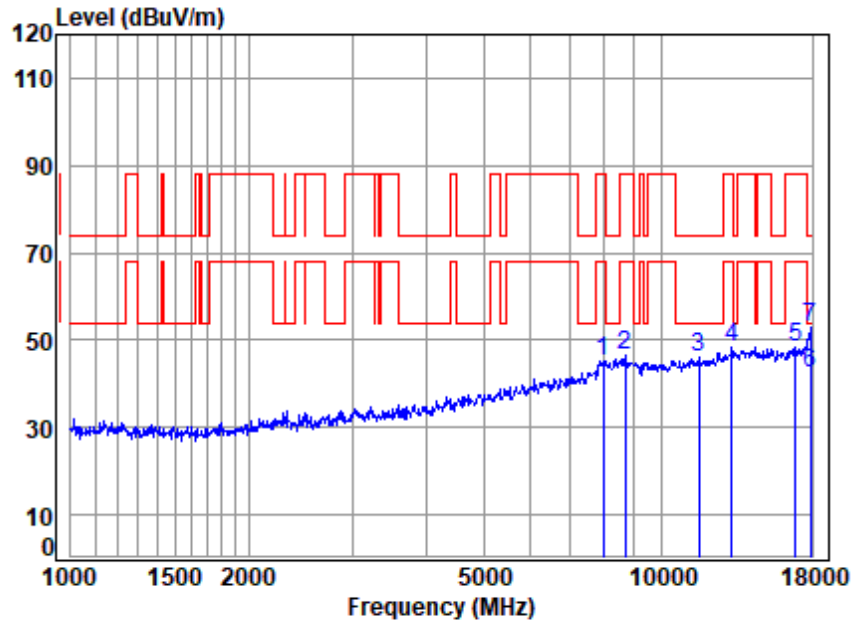


Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6415 TX RSE
: Wi-Fi 6E 11ax20

	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	7875.254	12.54	37.50	56.54	52.54	46.04	88.20	-42.16 peak
2	8688.480	12.44	38.55	56.24	51.43	46.18	88.20	-42.02 peak
3	11368.000	14.40	39.70	55.38	47.33	46.05	74.00	-27.95 peak
4	14079.080	16.28	39.90	54.47	47.18	48.89	88.20	-39.31 peak
5	16891.040	18.97	39.60	54.09	43.81	48.29	88.20	-39.91 peak
6	pp18000.000	18.62	43.80	54.20	31.06	39.28	54.00	-14.72 Average
7	pk18000.000	18.62	43.80	54.20	43.60	51.82	74.00	-22.18 peak



11ax_20M_TX_CH_093_Vertical

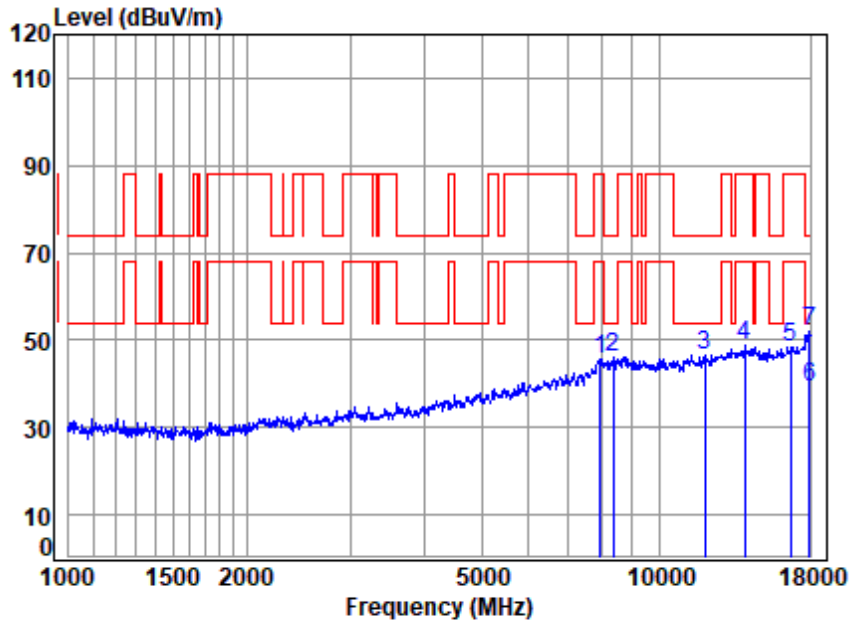


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6415 TX RSE
: Wi-Fi 6E 11ax20

	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	7966.832	12.46	37.73	56.51	51.70	45.38	88.20	-42.82 peak
2	8688.480	12.44	38.55	56.24	51.71	46.46	88.20	-41.74 peak
3	11600.350	14.55	39.60	55.31	47.06	45.90	74.00	-28.10 peak
4	13173.560	15.72	40.23	54.78	47.37	48.54	88.20	-39.66 peak
5	16891.040	18.97	39.60	54.09	43.85	48.33	88.20	-39.87 peak
6	pp17896.250	19.26	43.08	54.19	34.16	42.31	54.00	-11.69 Average
7	pk17896.250	19.26	43.08	54.19	44.90	53.05	74.00	-20.95 peak



11ax_20M_TX_CH_097_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

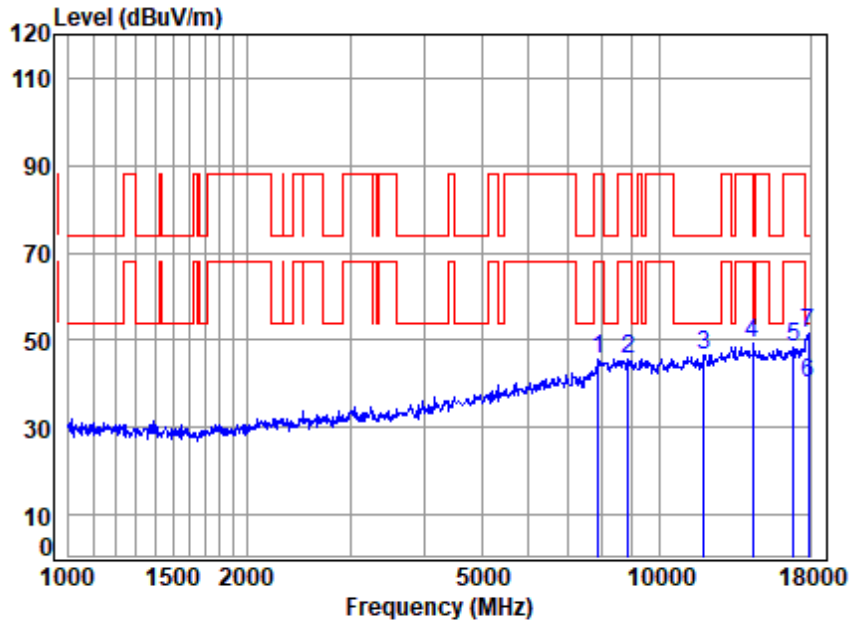
Mode : 6435 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7943.838	12.62	37.69	56.52	52.04	45.83	88.20	-42.37	peak
2	8343.918	11.96	38.60	56.37	51.98	46.17	74.00	-27.83	peak
3	11940.540	14.55	39.74	55.22	47.42	46.49	74.00	-27.51	peak
4	13957.530	16.19	39.90	54.51	47.01	48.59	88.20	-39.61	peak
5	16648.690	17.50	39.30	54.07	45.52	48.25	88.20	-39.95	peak
6	pp17948.050	18.95	43.44	54.20	31.24	39.43	54.00	-14.57	Average
7	pk17948.050	18.95	43.44	54.20	43.85	52.04	74.00	-21.96	peak



11ax_20M_TX_CH_097_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

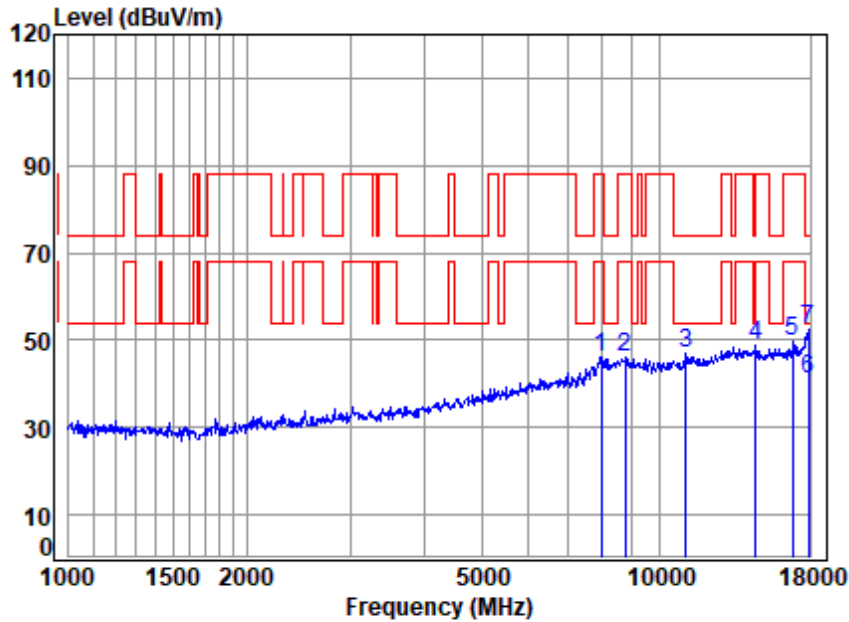
Mode : 6435 TX RSE

: Wi-Fi 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	7875.254	12.54	37.50	56.54	51.94	45.44	88.20	-42.76 peak
2	8866.062	12.55	38.53	56.18	50.84	45.74	88.20	-42.46 peak
3	11906.070	14.63	39.71	55.23	47.34	46.45	74.00	-27.55 peak
4	14408.430	17.32	39.59	54.33	46.48	49.06	88.20	-39.14 peak
5	16891.040	18.97	39.60	54.09	43.67	48.15	88.20	-40.05 peak
6	pp17896.250	19.26	43.08	54.19	31.79	39.94	54.00	-14.06 Average
7	pk17896.250	19.26	43.08	54.19	43.62	51.77	74.00	-22.23 peak



11ax_20M_TX_CH_105_Horizontal

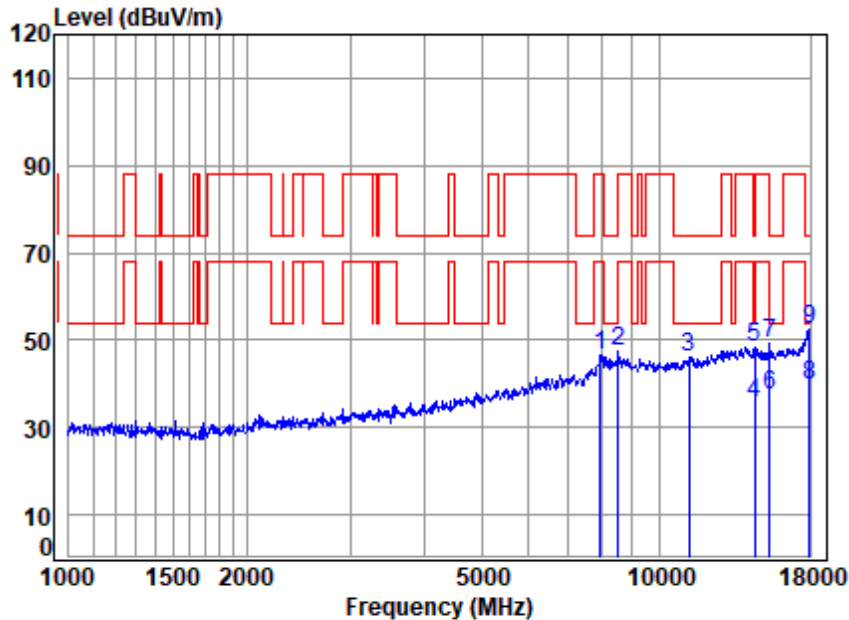


Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6475 TX RSE
: Wi-Fi 6E 11ax20

	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	7966.832	12.46	37.73	56.51	52.38	46.06	88.20	-42.14 peak
2	8764.146	12.45	38.50	56.21	51.32	46.06	88.20	-42.14 peak
3	11076.100	14.20	39.48	55.46	48.64	46.86	74.00	-27.14 peak
4	14533.910	16.33	39.43	54.28	47.43	48.91	88.20	-39.29 peak
5	16842.290	18.22	39.60	54.09	46.05	49.78	88.20	-38.42 peak
6	pp17896.250	19.26	43.08	54.19	33.11	41.26	54.00	-12.74 Average
7	pk17896.250	19.26	43.08	54.19	44.14	52.29	74.00	-21.71 peak



11ax_20M_TX_CH_105_Vertical

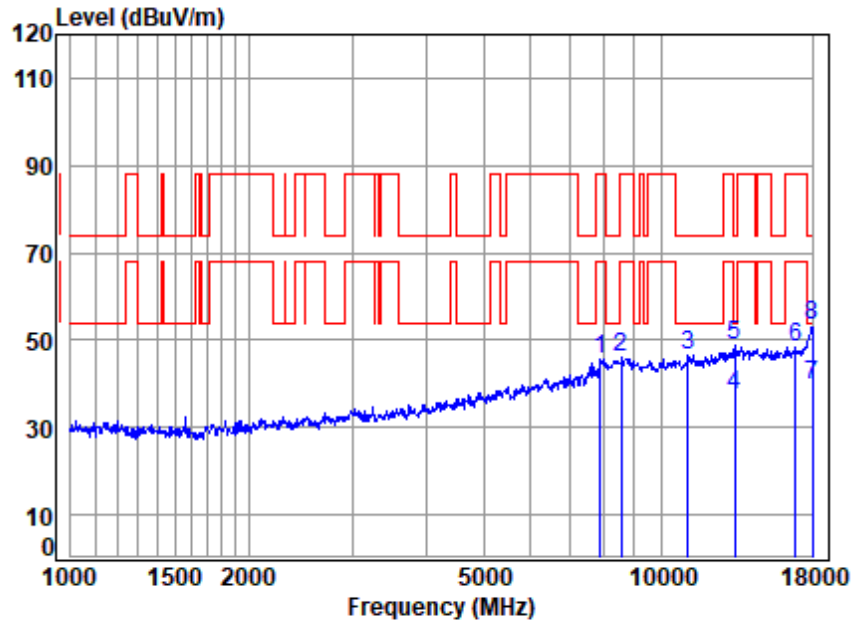


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6475 TX RSE
: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7943.838	12.62	37.69	56.52	52.77	46.56	88.20	-41.64	peak
2	8514.456	12.69	38.30	56.30	52.64	47.33	88.20	-40.87	peak
3	11204.900	14.32	39.60	55.43	47.66	46.15	74.00	-27.85	peak
4	14491.960	16.46	39.51	54.30	34.09	35.76	54.00	-18.24	Average
5	14491.960	16.46	39.51	54.30	46.55	48.22	74.00	-25.78	peak
6	15354.390	17.55	38.65	54.06	35.26	37.40	54.00	-16.60	Average
7	15354.390	17.55	38.65	54.06	47.02	49.16	74.00	-24.84	peak
8	pp17948.050	18.95	43.44	54.20	31.67	39.86	54.00	-14.14	Average
9	pk17948.050	18.95	43.44	54.20	44.28	52.47	74.00	-21.53	peak



11ax_20M_TX_CH_113_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

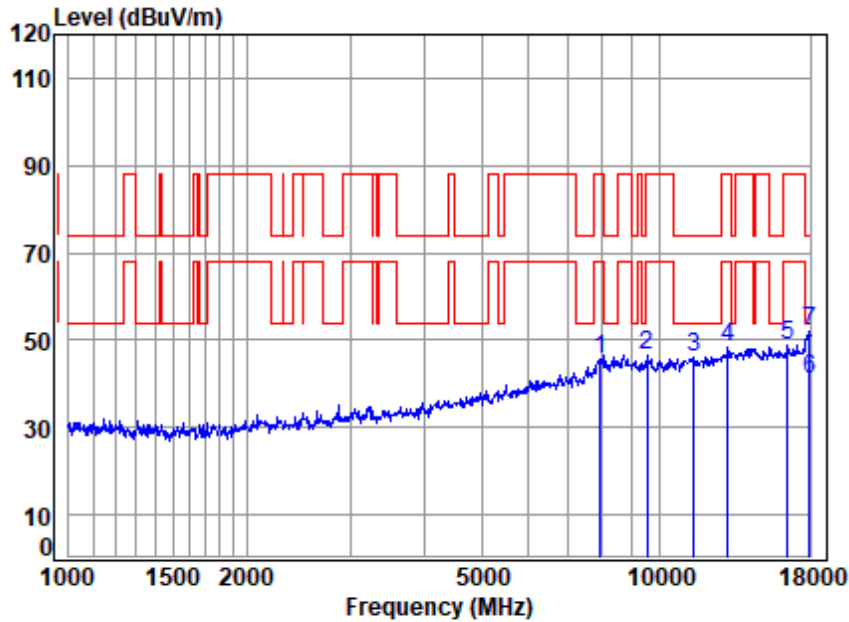
Mode : 6515 TX RSE

: Wi-Fi 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	7875.254	12.54	37.50	56.54	52.20	45.70	88.20	-42.50 peak
2	8563.818	12.49	38.36	56.29	51.50	46.06	88.20	-42.14 peak
3	11076.100	14.20	39.48	55.46	48.52	46.74	74.00	-27.26 peak
4	13326.750	15.94	40.30	54.72	35.84	37.36	54.00	-16.64 Average
5	13326.750	15.94	40.30	54.72	47.38	48.90	74.00	-25.10 peak
6	16891.040	18.97	39.60	54.09	43.84	48.32	88.20	-39.88 peak
7	pp18000.000	18.62	43.80	54.20	31.66	39.88	54.00	-14.12 Average
8	pk18000.000	18.62	43.80	54.20	44.96	53.18	74.00	-20.82 peak



11ax_20M_TX_CH_113_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

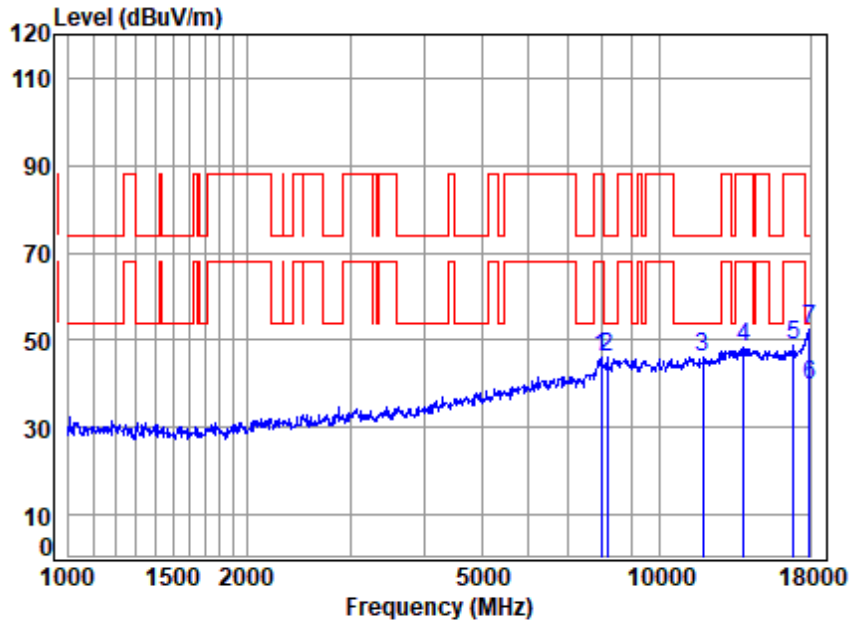
Mode : 6515 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7943.838	12.62	37.69	56.52	51.95	45.74	88.20	-42.46	peak
2	9530.432	12.58	38.84	55.95	51.11	46.58	88.20	-41.62	peak
3	11433.910	14.32	39.67	55.36	47.34	45.97	74.00	-28.03	peak
4	13059.820	15.41	40.30	54.82	47.34	48.23	88.20	-39.97	peak
5	16504.960	18.01	38.91	54.05	45.95	48.82	88.20	-39.38	peak
6	pp17948.050	18.95	43.44	54.20	32.87	41.06	54.00	-12.94	Average
7	pk17948.050	18.95	43.44	54.20	43.91	52.10	74.00	-21.90	peak



11ax_20M_TX_CH_117_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

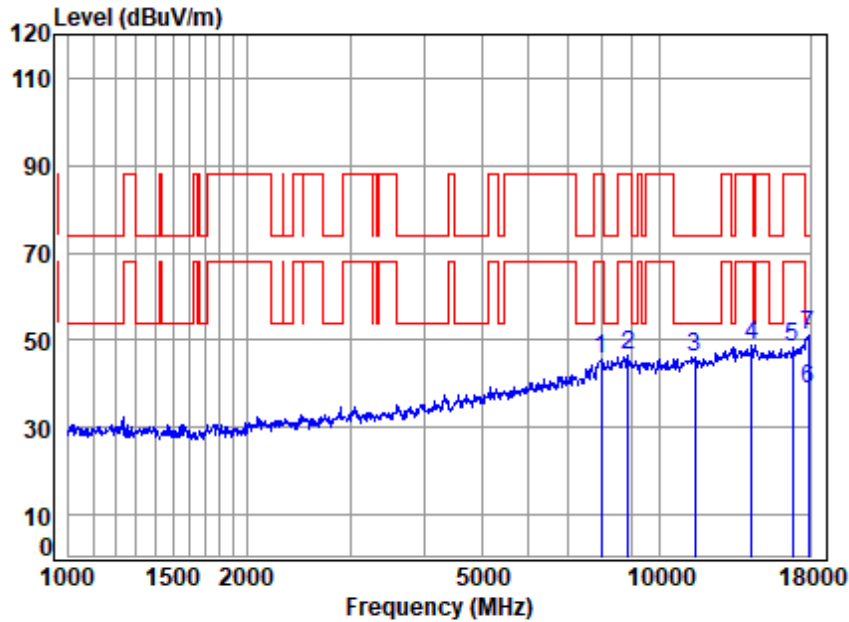
Mode : 6535 TX RSE

: Wi-Fi 6E 11ax20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7989.893	12.31	37.78	56.50	52.71	46.30	88.20	-41.90	peak
2	8176.795	11.87	37.95	56.43	52.53	45.92	74.00	-28.08	peak
3	11871.710	14.60	39.67	55.24	46.94	45.97	74.00	-28.03	peak
4	13917.240	15.90	39.90	54.53	46.91	48.18	88.20	-40.02	peak
5	16891.040	18.97	39.60	54.09	44.24	48.72	88.20	-39.48	peak
6	pp17948.050	18.95	43.44	54.20	31.57	39.76	54.00	-14.24	Average
7	pk17948.050	18.95	43.44	54.20	44.08	52.27	74.00	-21.73	peak



11ax_20M_TX_CH_117_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

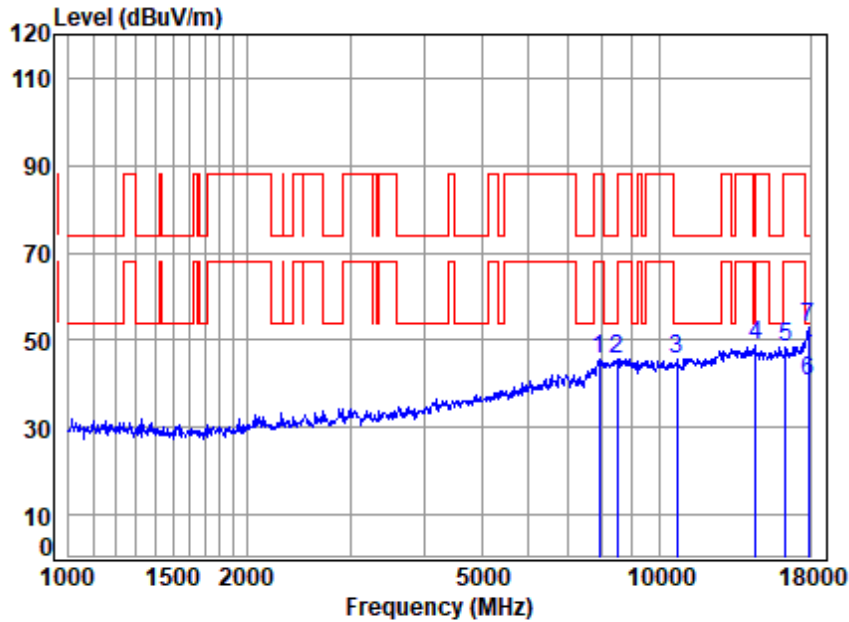
Mode : 6535 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7966.832	12.46	37.73	56.51	52.03	45.71	88.20	-42.49	peak
2	8840.473	12.51	38.50	56.19	51.57	46.39	88.20	-41.81	peak
3	11467.000	14.33	39.63	55.35	47.45	46.06	74.00	-27.94	peak
4	14325.370	16.72	39.75	54.37	46.63	48.73	88.20	-39.47	peak
5	16842.290	18.22	39.60	54.09	44.80	48.53	88.20	-39.67	peak
6	pp17896.250	19.26	43.08	54.19	30.66	38.81	54.00	-15.19	Average
7	pk17896.250	19.26	43.08	54.19	43.00	51.15	74.00	-22.85	peak



11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

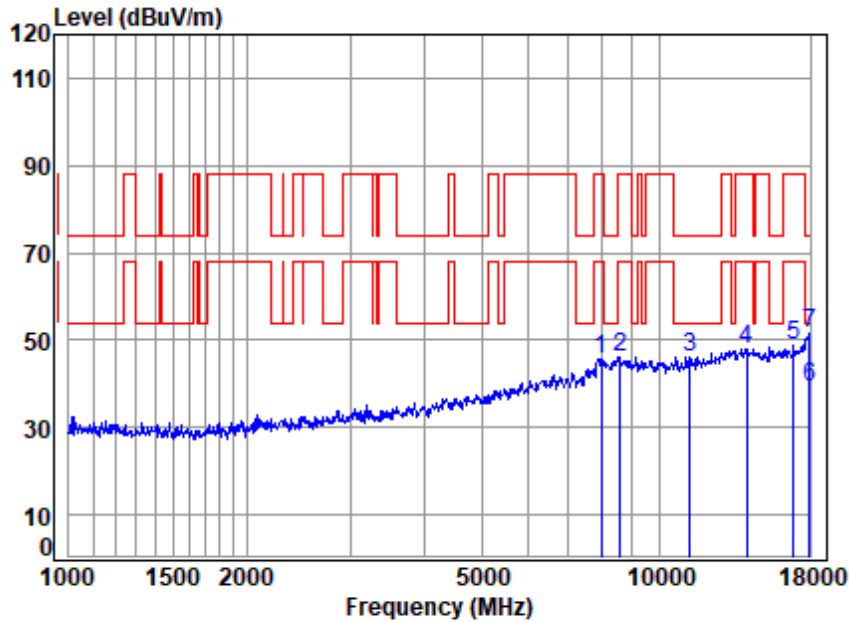
Mode : 6695 TX RSE

: Wi-Fi 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	7920.911	12.77	37.64	56.52	51.87	45.76	88.20	-42.44	peak
2	8489.882	12.66	38.32	56.31	50.88	45.55	74.00	-28.45	peak
3	10698.510	13.68	39.40	55.58	48.34	45.84	74.00	-28.16	peak
4	14533.910	16.33	39.43	54.28	47.14	48.62	88.20	-39.58	peak
5	16362.460	17.56	38.72	54.04	46.02	48.26	88.20	-39.94	peak
6	pp17896.250	19.26	43.08	54.19	32.51	40.66	54.00	-13.34	Average
7	pk17896.250	19.26	43.08	54.19	44.87	53.02	74.00	-20.98	peak



11ax_20M_TX_CH_149_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

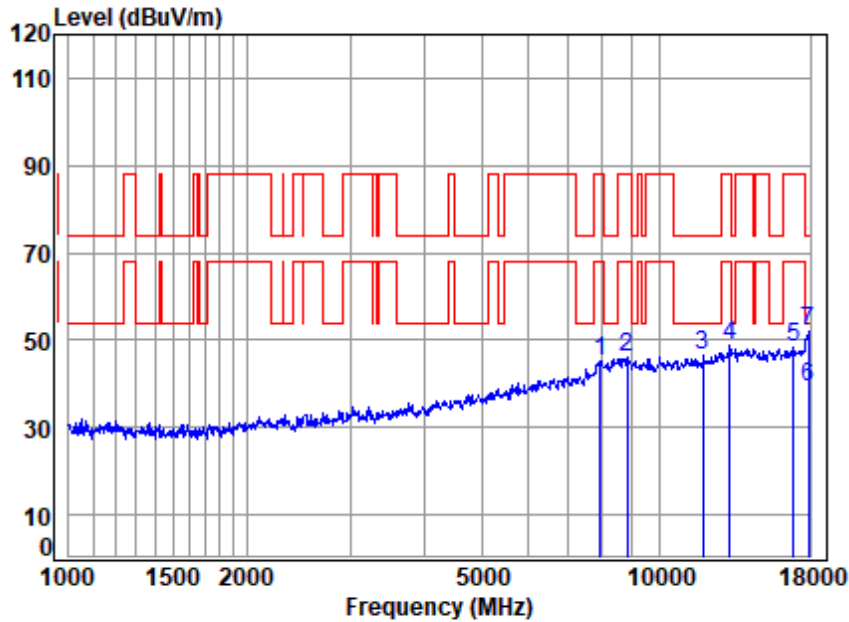
Mode : 6695 TX RSE

: Wi-Fi 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	7966.832	12.46	37.73	56.51	52.08	45.76	88.20	-42.44	peak
2	8588.607	12.39	38.45	56.28	51.55	46.11	88.20	-42.09	peak
3	11269.860	14.52	39.67	55.41	47.31	46.09	74.00	-27.91	peak
4	14079.080	16.28	39.90	54.47	46.20	47.91	88.20	-40.29	peak
5	16891.040	18.97	39.60	54.09	44.50	48.98	88.20	-39.22	peak
6	pp17948.050	18.95	43.44	54.20	30.93	39.12	54.00	-14.88	Average
7	pk17948.050	18.95	43.44	54.20	43.40	51.59	74.00	-22.41	peak



11ax_20M_TX_CH_181_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

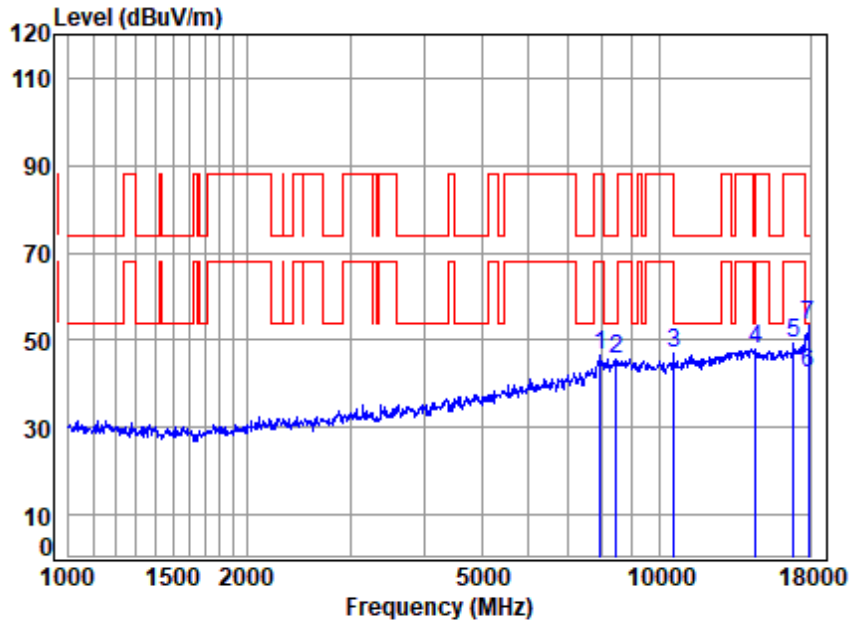
Mode : 6855 TX RSE

: Wi-Fi 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	7943.838	12.62	37.69	56.52	51.38	45.17	88.20	-43.03 peak
2	8814.957	12.47	38.50	56.20	51.26	46.03	88.20	-42.17 peak
3	11871.710	14.60	39.67	55.24	47.37	46.40	74.00	-27.60 peak
4	13173.560	15.72	40.23	54.78	47.81	48.98	88.20	-39.22 peak
5	16891.040	18.97	39.60	54.09	44.05	48.53	88.20	-39.67 peak
6	pp17896.250	19.26	43.08	54.19	30.88	39.03	54.00	-14.97 Average
7	pk17896.250	19.26	43.08	54.19	43.76	51.91	74.00	-22.09 peak



11ax_20M_TX_CH_181_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

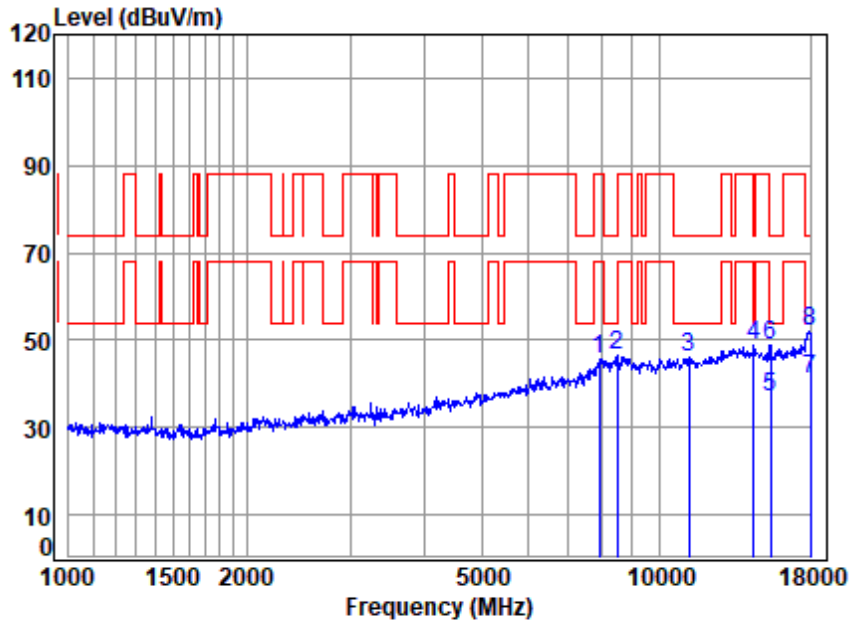
Mode : 6855 TX RSE

: Wi-Fi 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	7943.838	12.62	37.69	56.52	52.65	46.44	88.20	-41.76	peak
2	8465.379	12.45	38.37	56.32	51.04	45.54	74.00	-28.46	peak
3	10575.540	13.50	39.25	55.62	50.02	47.15	88.20	-41.05	peak
4	14533.910	16.33	39.43	54.28	46.59	48.07	88.20	-40.13	peak
5	16891.040	18.97	39.60	54.09	44.64	49.12	88.20	-39.08	peak
6	pp17896.250	19.26	43.08	54.19	34.30	42.45	54.00	-11.55	Average
7	pk17896.250	19.26	43.08	54.19	45.10	53.25	74.00	-20.75	peak



11ax_20M_TX_CH_189_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

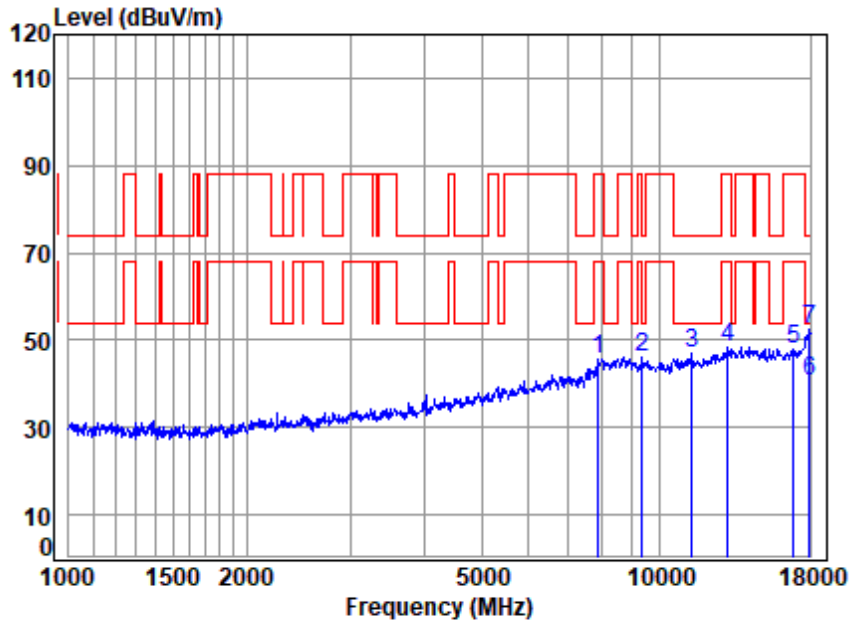
Mode : 6875 TX RSE

: Wi-Fi 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	7920.911	12.77	37.64	56.52	51.63	45.52	88.20	-42.68 peak
2	8489.882	12.66	38.32	56.31	51.74	46.41	74.00	-27.59 peak
3	11237.330	14.42	39.64	55.42	47.46	46.10	74.00	-27.90 peak
4	14450.130	16.89	39.55	54.32	46.61	48.73	88.20	-39.47 peak
5	15443.410	17.70	38.60	54.05	34.88	37.13	54.00	-16.87 Average
6	15443.410	17.70	38.60	54.05	46.60	48.85	74.00	-25.15 peak
7	pp18000.000	18.62	43.80	54.20	32.87	41.09	54.00	-12.91 Average
8	pk18000.000	18.62	43.80	54.20	43.82	52.04	74.00	-21.96 peak



11ax_20M_TX_CH_189_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 6875 TX RSE

: Wi-Fi 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	7875.254	12.54	37.50	56.54	52.12	45.62	88.20	-42.58	peak
2	9339.543	12.36	38.80	56.01	50.85	46.00	74.00	-28.00	peak
3	11335.190	14.50	39.70	55.39	48.19	47.00	74.00	-27.00	peak
4	13059.820	15.41	40.30	54.82	47.70	48.59	88.20	-39.61	peak
5	16891.040	18.97	39.60	54.09	43.64	48.12	88.20	-40.08	peak
6	pp17948.050	18.95	43.44	54.20	32.33	40.52	54.00	-13.48	Average
7	pk17948.050	18.95	43.44	54.20	44.39	52.58	74.00	-21.42	peak



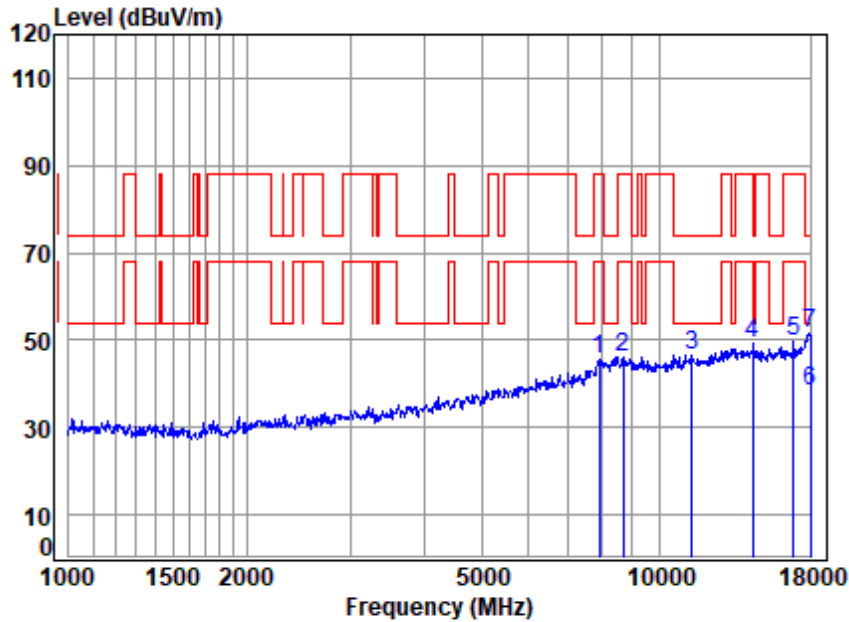
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600248406

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11ax_20M_TX_CH_209_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 6995 TX RSE

: Wi-Fi 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	7898.049	12.88	37.59	56.53	51.75	45.69	88.20	-42.51 peak
2	8688.480	12.44	38.55	56.24	51.47	46.22	88.20	-41.98 peak
3	11368.000	14.40	39.70	55.38	47.81	46.53	74.00	-27.47 peak
4	14408.430	17.32	39.59	54.33	46.57	49.15	88.20	-39.05 peak
5	16891.040	18.97	39.60	54.09	45.04	49.52	88.20	-38.68 peak
6	pp18000.000	18.62	43.80	54.20	30.19	38.41	54.00	-15.59 Average
7	pk18000.000	18.62	43.80	54.20	43.45	51.67	74.00	-22.33 peak



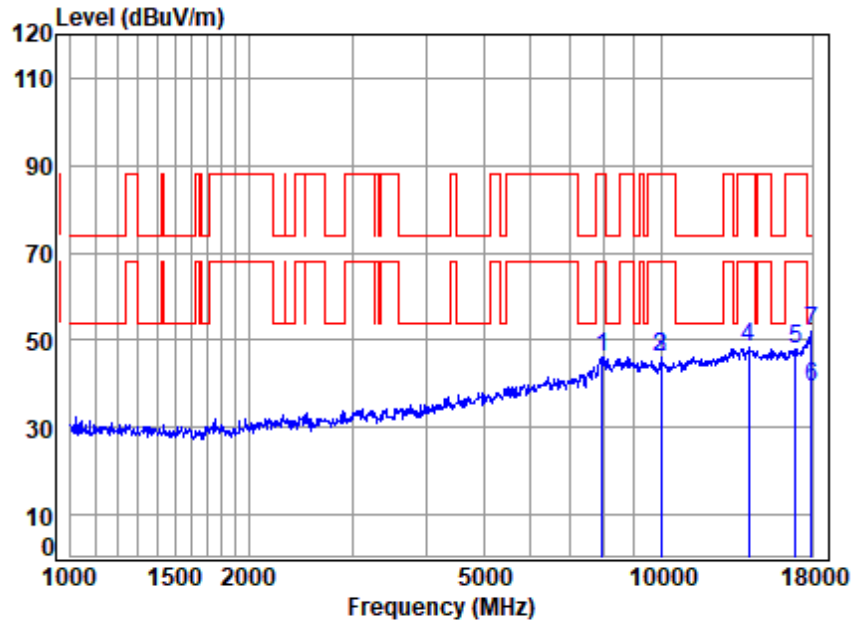
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

11ax_20M_TX_CH_209_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

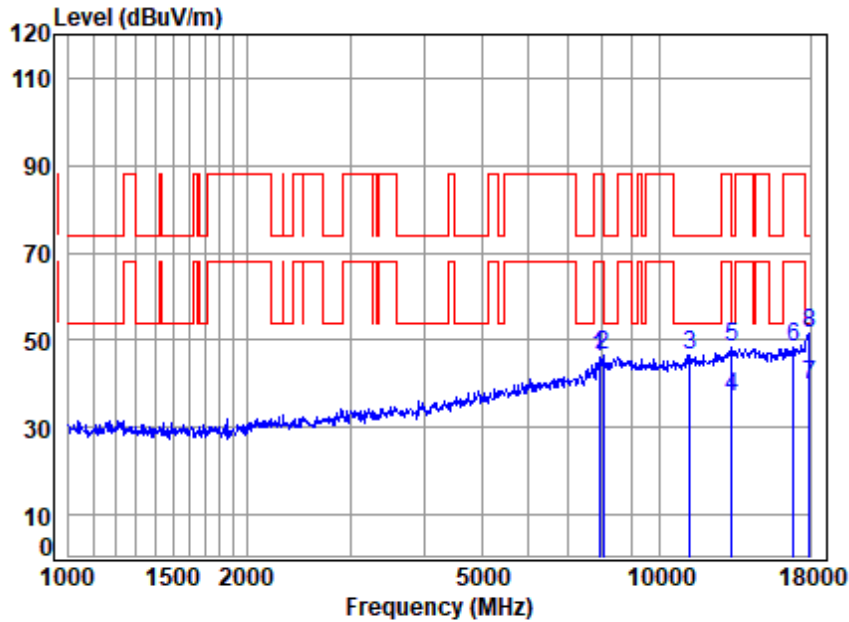
Mode : 6995 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7943.838	12.62	37.69	56.52	52.28	46.07	88.20	-42.13	peak
2	9981.525	12.93	38.90	55.81	50.17	46.19	88.20	-42.01	peak
3	9981.525	12.93	38.90	55.81	50.17	46.19	88.20	-42.01	peak
4	14038.450	16.39	39.90	54.48	46.65	48.46	88.20	-39.74	peak
5	16891.040	18.97	39.60	54.09	43.57	48.05	88.20	-40.15	peak
6	pp17948.050	18.95	43.44	54.20	31.08	39.27	54.00	-14.73	Average
7	pk17948.050	18.95	43.44	54.20	43.68	51.87	74.00	-22.13	peak



11ax_20M_TX_CH_233_Horizontal



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

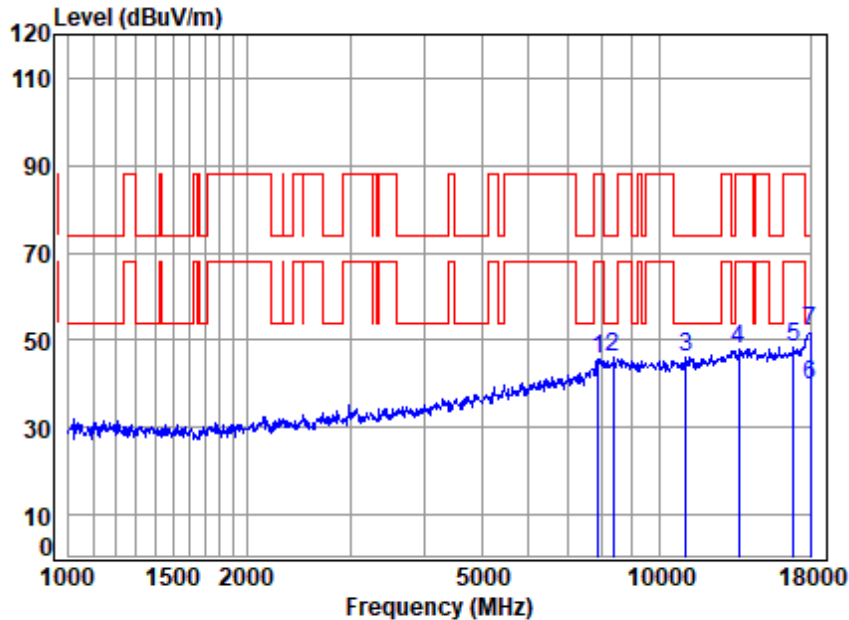
Mode : 7115 TX RSE

: Wi-Fi 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	7920.911	12.77	37.64	56.52	52.38	46.27	88.20	-41.93	peak
2	8036.214	12.09	37.80	56.49	53.02	46.42	74.00	-27.58	peak
3	11269.860	14.52	39.67	55.41	47.84	46.62	74.00	-27.38	peak
4	13288.280	16.01	40.29	54.74	35.46	37.02	54.00	-16.98	Average
5	13288.280	16.01	40.29	54.74	46.61	48.17	74.00	-25.83	peak
6	16891.040	18.97	39.60	54.09	43.69	48.17	88.20	-40.03	peak
7	pp17948.050	18.95	43.44	54.20	31.57	39.76	54.00	-14.24	Average
8	pk17948.050	18.95	43.44	54.20	43.55	51.74	74.00	-22.26	peak



11ax_20M_TX_CH_233_Vertical



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

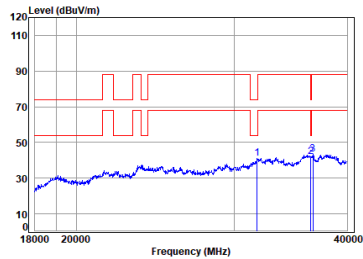
Mode : 7115 TX RSE

: Wi-Fi 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	7875.254	12.54	37.50	56.54	52.32	45.82	88.20	-42.38	peak
2	8368.069	11.92	38.66	56.36	51.79	46.01	74.00	-27.99	peak
3	11108.160	14.25	39.51	55.45	47.83	46.14	74.00	-27.86	peak
4	13638.490	16.26	40.00	54.62	46.28	47.92	88.20	-40.28	peak
5	16891.040	18.97	39.60	54.09	43.85	48.33	88.20	-39.87	peak
6	pp18000.000	18.62	43.80	54.20	31.26	39.48	54.00	-14.52	Average
7	pk18000.000	18.62	43.80	54.20	43.83	52.05	74.00	-21.95	peak



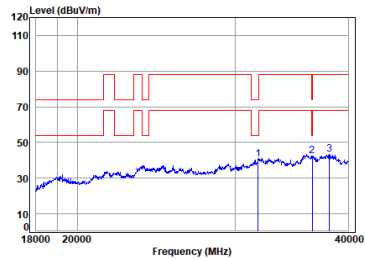
11ax_20M_TX_CH_001_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 5955 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31782.290	7.86	40.81	51.46	53.58	41.25	74.00 -32.75 Peak	-9.54
2 pp36461.340	7.94	42.10	49.57	51.25	42.18	74.00 -31.82 Peak	-9.54
3 36665.710	7.72	41.97	49.70	52.67	43.12	88.20 -45.08 Peak	-9.54

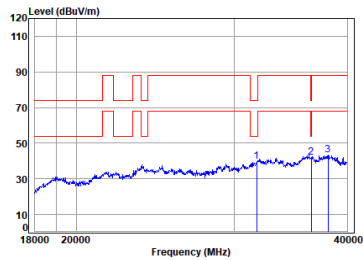
11ax_20M_TX_CH_001_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 5955 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31782.290	7.86	40.81	51.46	52.87	40.54	74.00 -33.46 Peak	-9.54
2 pp36490.470	7.91	42.10	49.59	51.37	42.25	74.00 -31.75 Peak	-9.54
3 38128.770	7.79	42.15	50.28	53.02	43.14	88.20 -45.06 Peak	-9.54

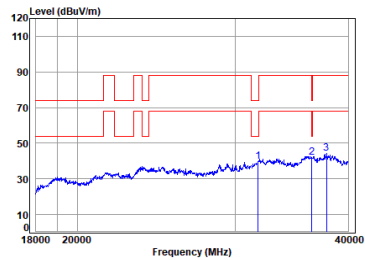
11ax_20M_TX_CH_045_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6175 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31731.570	7.84	40.79	51.52	52.04	39.61	74.00 -34.39 Peak	-9.54
2 pp36490.470	7.91	42.10	49.59	50.96	41.84	74.00 -32.16 Peak	-9.54
3 38098.330	7.81	42.12	50.26	53.35	43.48	88.20 -44.72 Peak	-9.54

11ax_20M_TX_CH_045_Vertical

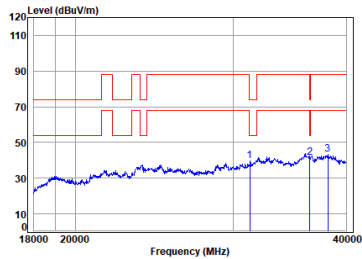


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6175 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31782.290	7.86	40.81	51.46	52.23	39.90	74.00 -34.10 Peak	-9.54
2 pp36461.340	7.94	42.10	49.57	51.04	41.97	74.00 -32.03 Peak	-9.54
3 37855.730	7.80	41.68	50.11	54.14	44.17	88.20 -44.03 Peak	-9.54



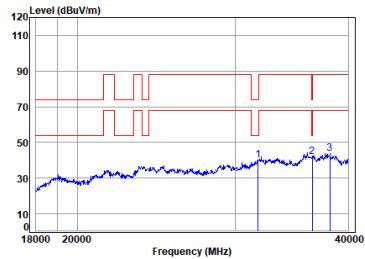
11ax_20M_TX_CH_093_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6415 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31278.750	7.67	40.33	51.84	53.26	39.88	74.00	-34.12 Peak
2 pp36461.340	7.94	42.10	49.57	50.80	41.73	74.00	-32.27 Peak
3 38159.228	7.77	42.19	50.30	53.02	43.14	88.20	-45.06 Peak

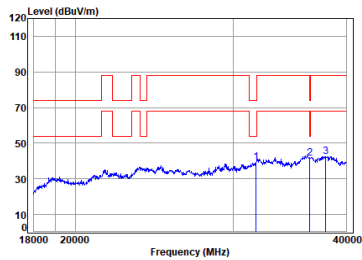
11ax_20M_TX_CH_093_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6415 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31782.290	7.86	40.81	51.46	52.67	40.34	74.00	-33.66 Peak
2 pp36498.470	7.91	42.10	49.59	51.06	41.94	74.00	-32.06 Peak
3 38189.710	7.75	42.23	50.31	53.63	43.76	88.20	-44.44 Peak

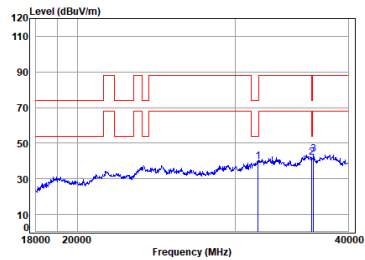
11ax_20M_TX_CH_097_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6435 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31756.920	7.85	40.80	51.49	51.62	39.24	74.00	-34.76 Peak
2 pp36461.340	7.94	42.10	49.57	50.79	41.72	74.00	-32.28 Peak
3 37976.840	7.86	41.98	50.19	52.46	42.57	88.20	-45.63 Peak

11ax_20M_TX_CH_097_Vertical

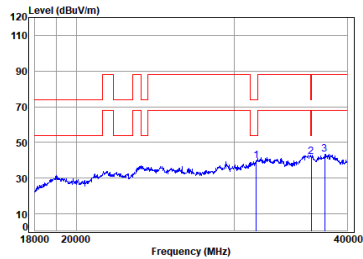


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6435 TX RSE
: Wi-Fi 6E 11ax20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Aux
MHz	Loss	Factor	Factor	Level	Line	Limit	Factor
	dB	dB/m	dB	dBuV	dBuV/m	dB	dB
1 31782.290	7.86	40.81	51.46	52.14	39.81	74.00	-34.19 Peak
2 pp36461.340	7.94	42.10	49.57	50.84	41.77	74.00	-32.23 Peak
3 36607.210	7.78	42.01	49.66	53.06	43.65	88.20	-44.55 Peak



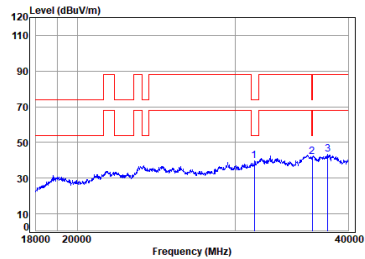
11ax_20M_TX_CH_105_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6475 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31786.250	7.83	40.77	51.55	52.32	39.83	74.00	-34.17	Peak	-9.54
2	36490.470	7.91	42.10	49.59	51.30	42.18	74.00	-31.82	Peak	-9.54
3	37765.168	7.75	41.81	50.06	53.52	43.48	88.20	-44.72	Peak	-9.54

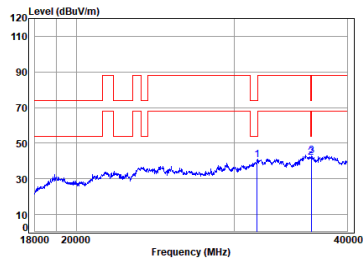
11ax_20M_TX_CH_105_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6475 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31479.210	7.75	40.58	51.80	52.90	39.89	74.00	-34.11	Peak	-9.54
2	36490.470	7.91	42.10	49.59	50.89	41.77	74.00	-32.23	Peak	-9.54
3	37976.840	7.86	41.98	50.19	53.10	43.21	88.20	-44.99	Peak	-9.54

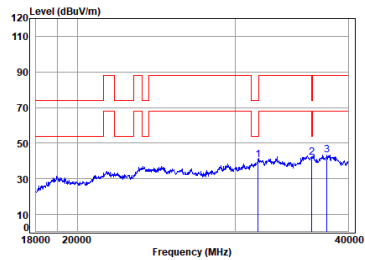
11ax_20M_TX_CH_113_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6515 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31756.920	7.85	40.80	51.49	53.12	40.74	74.00	-33.26	Peak	-9.54
2	36490.470	7.91	42.10	49.59	51.08	41.96	74.00	-32.04	Peak	-9.54
3	36519.628	7.88	42.08	49.61	52.29	43.10	88.20	-45.10	Peak	-9.54

11ax_20M_TX_CH_113_Vertical

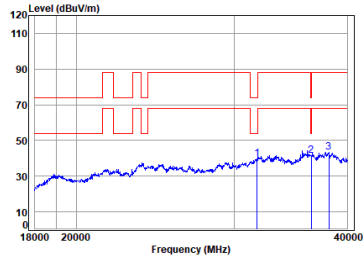


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6515 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31782.290	7.86	40.81	51.46	52.85	40.52	74.00	-33.48	Peak	-9.54
2	36432.240	7.97	42.10	49.55	51.16	42.14	74.00	-31.86	Peak	-9.54
3	37885.970	7.81	41.91	50.13	53.34	43.39	88.20	-44.81	Peak	-9.54



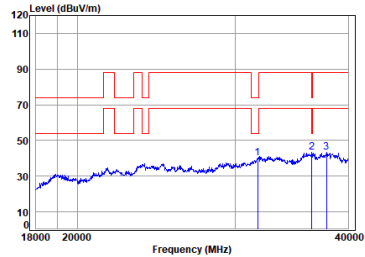
11ax_20M_TX_CH_117_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6535 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31782.290	7.86	40.81	51.46	52.22	39.89	74.00	-34.11	Peak	-9.54
2	pp36490.470	7.91	42.10	49.59	50.77	41.65	74.00	-32.35	Peak	-9.54
3	38159.228	7.77	42.19	50.30	53.28	43.40	88.20	-44.80	Peak	-9.54

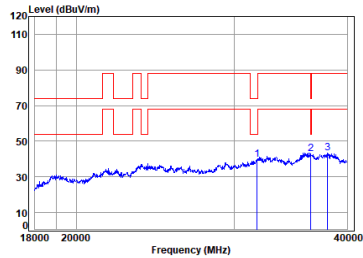
11ax_20M_TX_CH_117_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6535 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31731.570	7.84	40.79	51.52	52.66	40.23	74.00	-33.77	Peak	-9.54
2	pp36461.340	7.94	42.10	49.57	52.48	43.41	74.00	-30.59	Peak	-9.54
3	37855.730	7.80	41.88	50.11	53.12	43.15	88.20	-45.05	Peak	-9.54

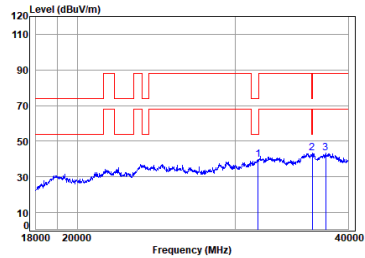
11ax_20M_TX_CH_149_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6695 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31782.290	7.86	40.81	51.46	52.17	39.84	74.00	-34.16	Peak	-9.54
2	pp36461.340	7.94	42.10	49.57	52.08	43.01	74.00	-30.99	Peak	-9.54
3	38037.540	7.85	42.05	50.22	53.29	43.43	88.20	-44.77	Peak	-9.54

11ax_20M_TX_CH_149_Vertical

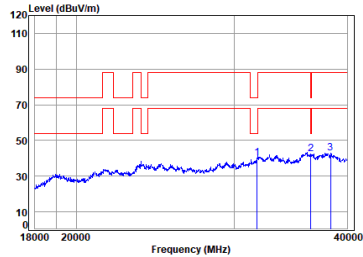


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6695 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31756.920	7.85	40.80	51.49	52.09	39.71	74.00	-34.29	Peak	-9.54
2	pp36490.470	7.91	42.10	49.59	52.43	43.31	74.00	-30.69	Peak	-9.54
3	37765.160	7.75	41.81	50.06	53.23	43.19	88.20	-45.01	Peak	-9.54



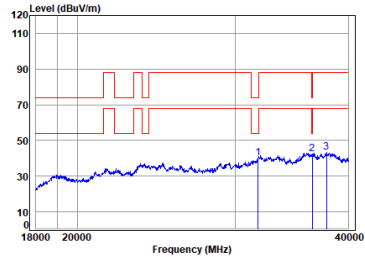
11ax_20M_TX_CH_181_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6855 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	31782.290	7.86	40.81	51.46	52.52	40.19	74.00	-33.81 Peak	-9.54
2	pp36432.240	7.97	42.10	49.55	51.55	42.53	74.00	-31.47 Peak	-9.54
3	38342.408	7.65	42.49	50.41	52.82	43.01	88.20	-45.19 Peak	-9.54

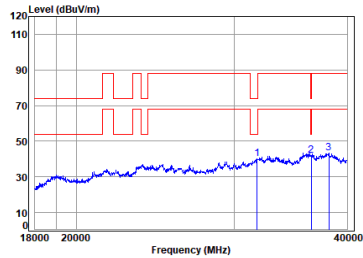
11ax_20M_TX_CH_181_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6855 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	31782.290	7.86	40.81	51.46	52.47	40.14	74.00	-33.86 Peak	-9.54
2	pp36498.470	7.91	42.10	49.59	51.40	42.28	74.00	-31.72 Peak	-9.54
3	37825.520	7.78	41.86	50.10	53.26	43.26	88.20	-44.94 Peak	-9.54

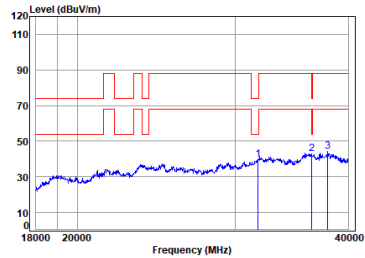
11ax_20M_TX_CH_185_Horizontal



Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6875 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	31782.290	7.86	40.81	51.46	52.61	40.28	74.00	-33.72 Peak	-9.54
2	pp36498.470	7.91	42.10	49.59	51.23	42.11	74.00	-31.89 Peak	-9.54
3	38189.710	7.75	42.23	50.31	53.13	43.26	88.20	-44.94 Peak	-9.54

11ax_20M_TX_CH_185_Vertical

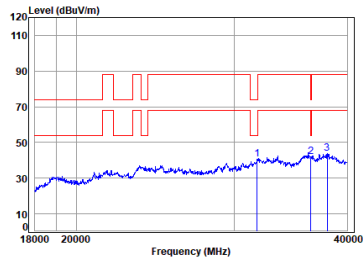


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6875 TX RSE
: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Aux
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	31756.920	7.85	40.80	51.49	51.92	39.54	74.00	-34.46 Peak	-9.54
2	pp36432.240	7.97	42.10	49.55	51.84	42.82	74.00	-31.18 Peak	-9.54
3	37976.840	7.86	41.98	50.19	54.07	44.18	88.20	-44.02 Peak	-9.54



11ax_20M_TX_CH_209_Horizontal

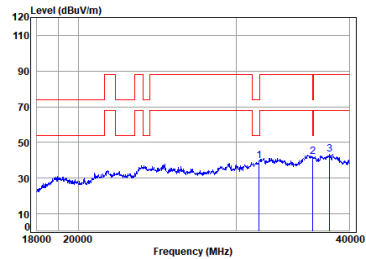


Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 6995 TX RSE

: Wi-Fi 6E 11ax20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 31782.290	7.86	40.81	51.46	52.80	40.47	74.00	-33.53	Peak	-9.54
2 pp36432.240	7.97	42.10	49.55	51.00	41.98	74.00	-32.02	Peak	-9.54
3 38007.108	7.87	42.01	50.20	53.64	43.78	88.20	-44.42	Peak	-9.54

11ax_20M_TX_CH_209_Vertical

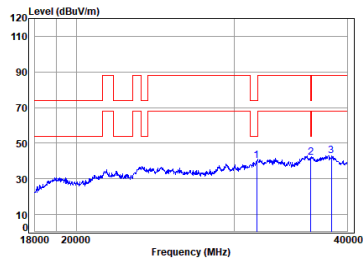


Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 6995 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1	31756.920	7.85	40.80	51.49	52.08	39.70	74.00	-34.30 Peak	-9.54
2	pp36461.340	7.94	42.10	49.57	51.16	42.09	74.00	-31.91 Peak	-9.54
3	38007.920	7.83	42.08	50.24	53.38	43.51	88.20	-44.69 Peak	-9.54

11ax_20M_TX_CH_233_Horizontal

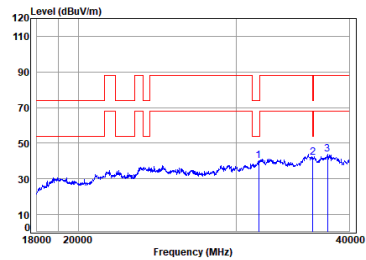


Condition: 3m HORIZONTAL
Job No : 02484AT/02485AT
Mode : 7115 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	31731.570	7.84	40.79	51.52	52.80	40.37	74.00	-33.63	Peak	-9.54
2	pp36432.240	7.97	42.10	49.55	50.95	41.93	74.00	-32.07	Peak	-9.54
3	38434.450	7.59	42.67	50.46	52.81	43.07	88.20	-45.13	Peak	-9.54

11ax_20M_TX_CH_233_Vertical



Condition: 3m VERTICAL
Job No : 02484AT/02485AT
Mode : 7115 TX RSE

: Wi-Fi 6E 11ax20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1	31731.570	7.84	40.79	51.52	52.75	40.32	74.00	-33.68 Peak	-9.54
2	pp36461.340	7.94	42.10	49.57	50.98	41.91	74.00	-32.09 Peak	-9.54
3	37825.520	7.78	41.86	50.15	53.93	43.93	88.20	-44.27 Peak	-9.54



7.4 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10-2020 Section 6.10.5

Measurement Distance: 3m

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

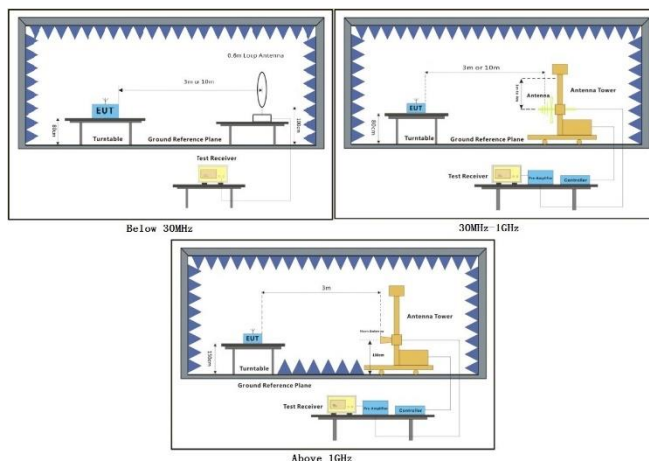
Humidity: 51.9 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Pre-scan	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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

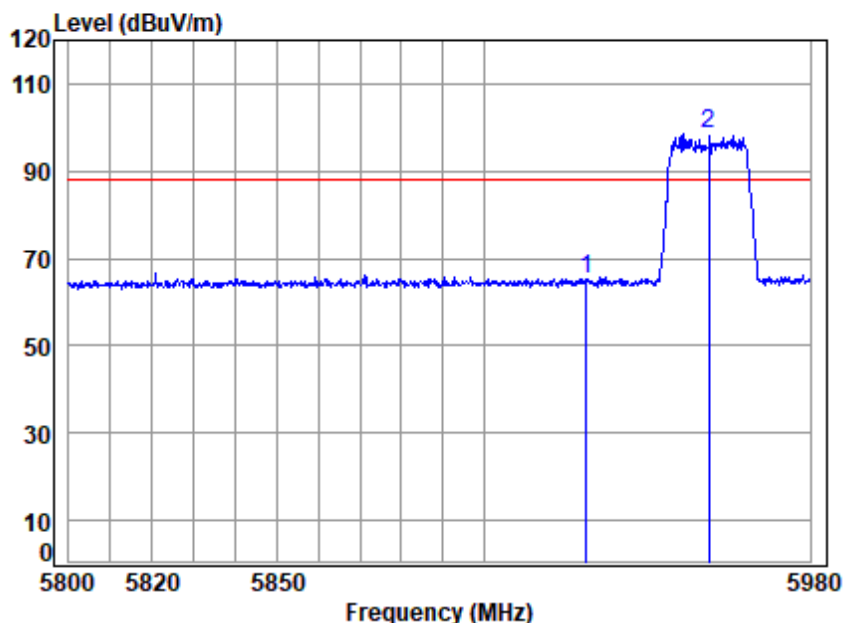
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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

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



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 5955 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	51.27	65.16	88.20	-23.04 peak
2 pp	5955.000	10.85	33.62	30.52	84.52	98.47	88.20	10.27 peak



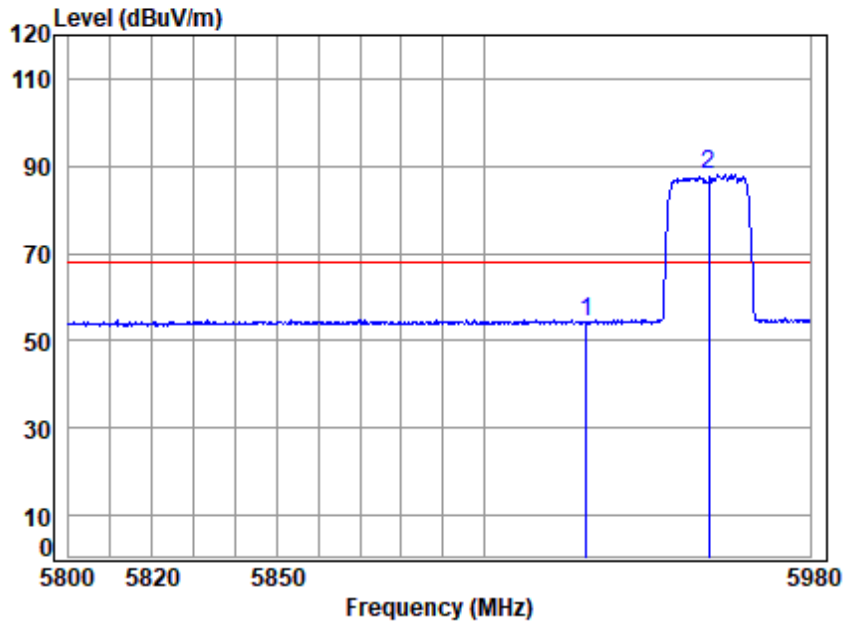
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

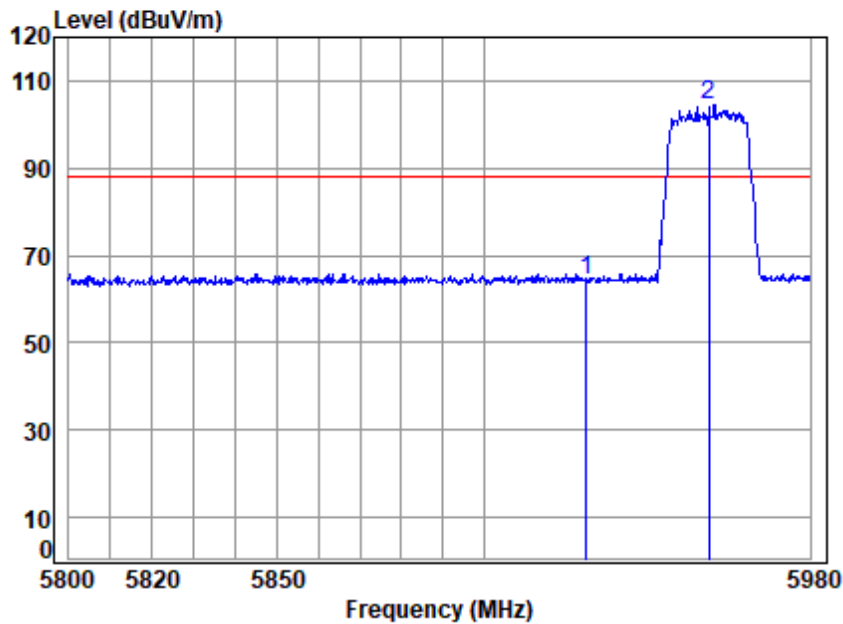
Mode : 5955 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	40.36	54.25	68.20	-13.95	Average
2 pp	5955.000	10.85	33.62	30.52	74.15	88.10	68.20	19.90	Average



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

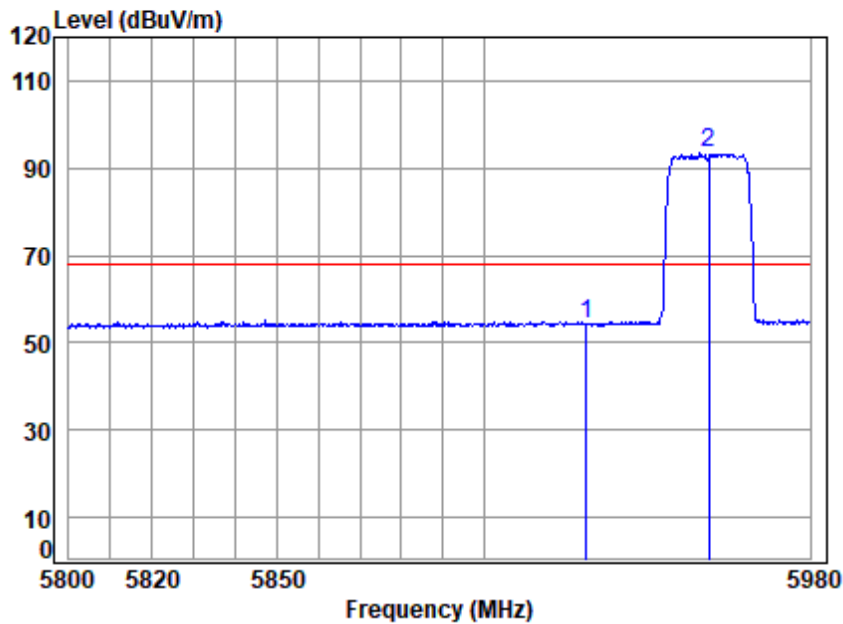
Mode : 5955 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	50.42	64.31	88.20	-23.89 peak
2 pp	5955.000	10.85	33.62	30.52	90.49	104.44	88.20	16.24 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

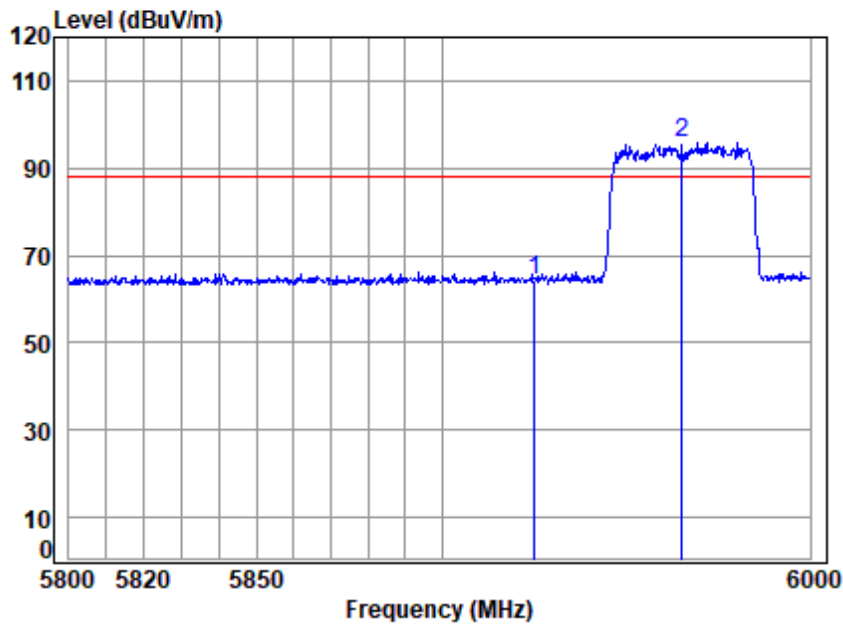
Job No : 02484AT/02485AT

Mode : 5955 Band edge
: Wi-Fi 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	5925.000	10.87	33.55	30.53	40.49	54.38	68.20	-13.82	Average
2 pp	5955.000	10.85	33.62	30.52	79.52	93.47	68.20	25.27	Average



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

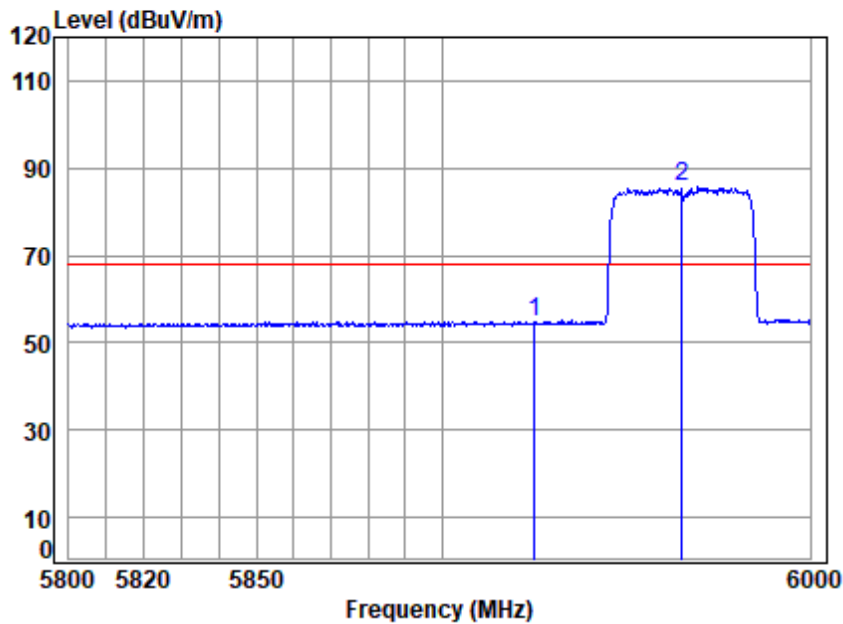
Mode : 5965 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	50.44	64.33	88.20	-23.87	peak
2 pp	5965.000	10.84	33.66	30.51	82.02	96.01	88.20	7.81	peak



Test Mode: 10; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

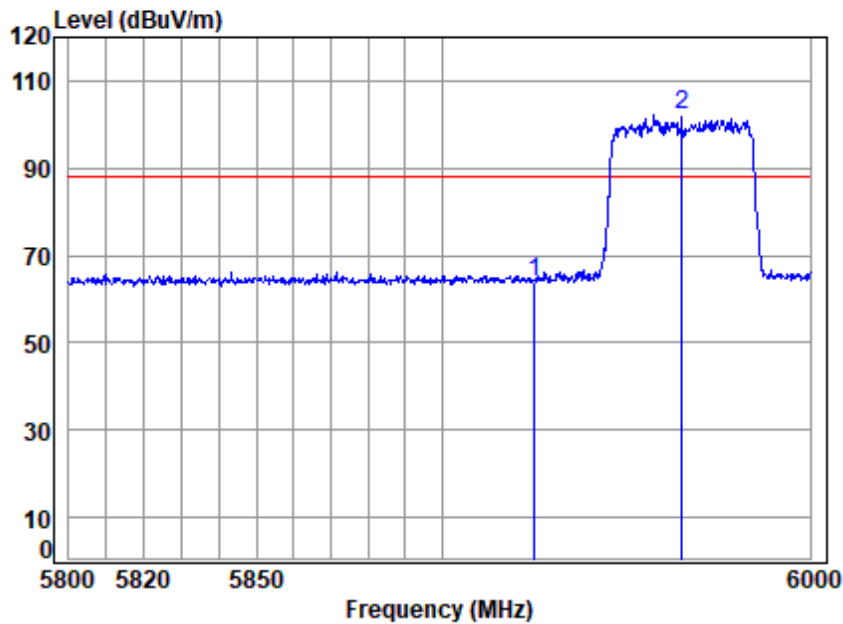
Mode : 5965 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	40.65	54.54	68.20	-13.66	Average
2 pp	5965.000	10.84	33.66	30.51	71.90	85.89	68.20	17.69	Average



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

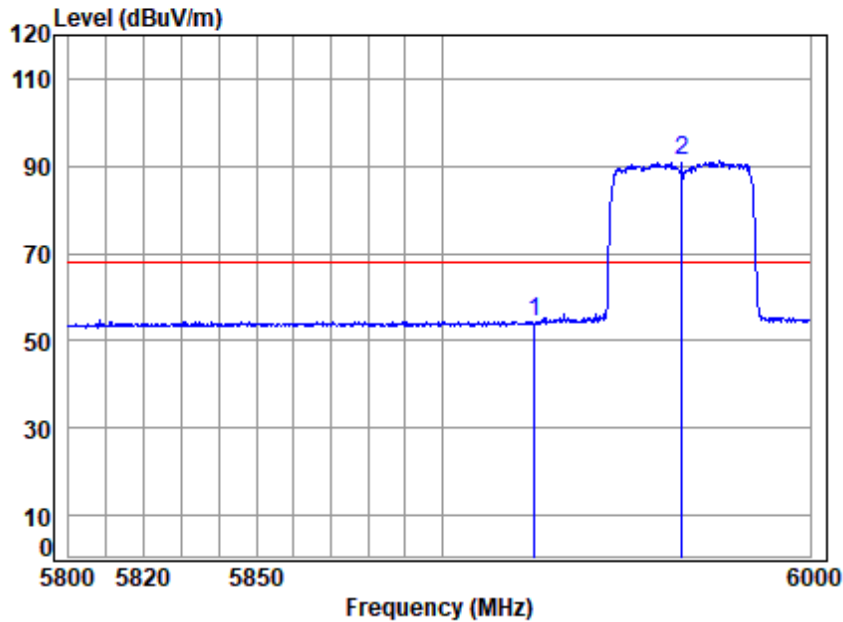
Job No : 02484AT/02485AT

Mode : 5965 Band edge
: Wi-Fi 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	5925.000	10.87	33.55	30.53	50.08	63.97	88.20	-24.23 peak
2 pp	5965.000	10.84	33.66	30.51	88.11	102.10	88.20	13.90 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

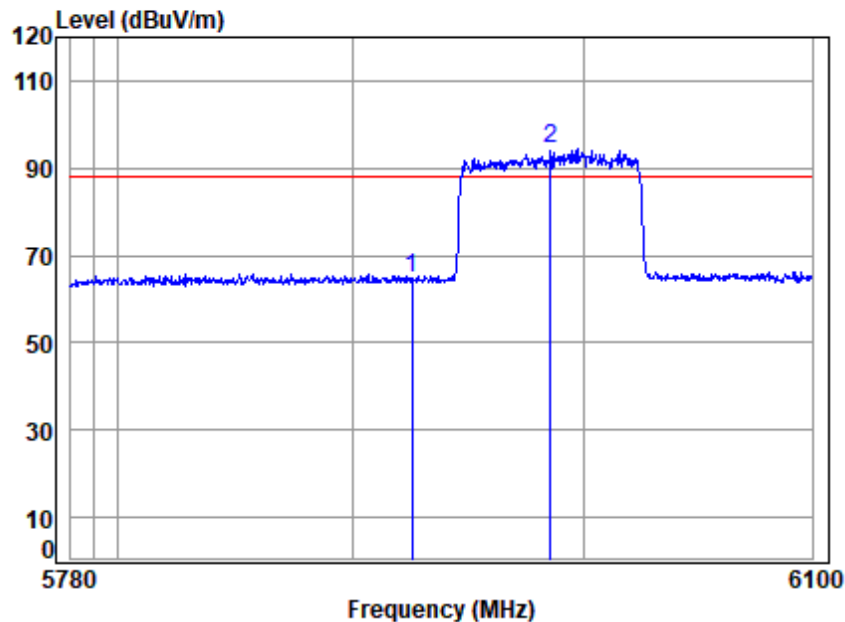
Mode : 5965 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	40.34	54.23	68.20	-13.97 Average
2 pp	5965.000	10.84	33.66	30.51	77.28	91.27	68.20	23.07 Average



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

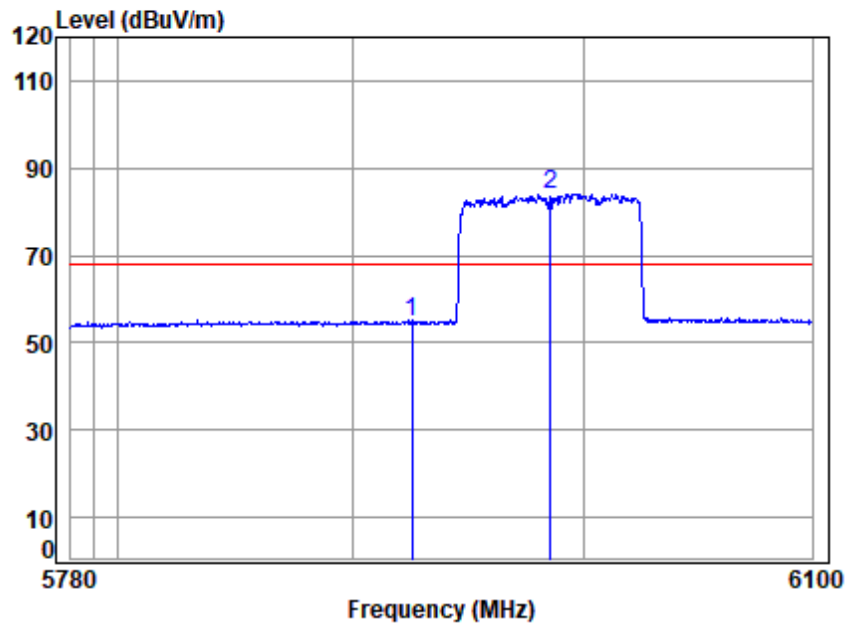
Mode : 5985 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	51.06	64.95	88.20	-23.25	peak
2 pp	5985.000	10.82	33.74	30.51	80.56	94.61	88.20	6.41	peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

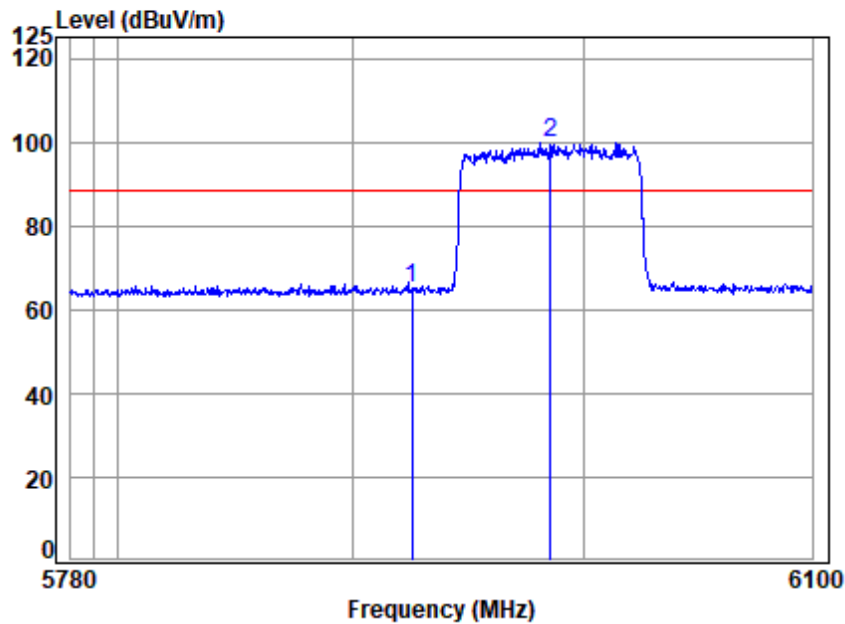
Mode : 5985 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	40.85	54.74	68.20	-13.46 Average
2 pp	5985.000	10.82	33.74	30.51	69.94	83.99	68.20	15.79 Average



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

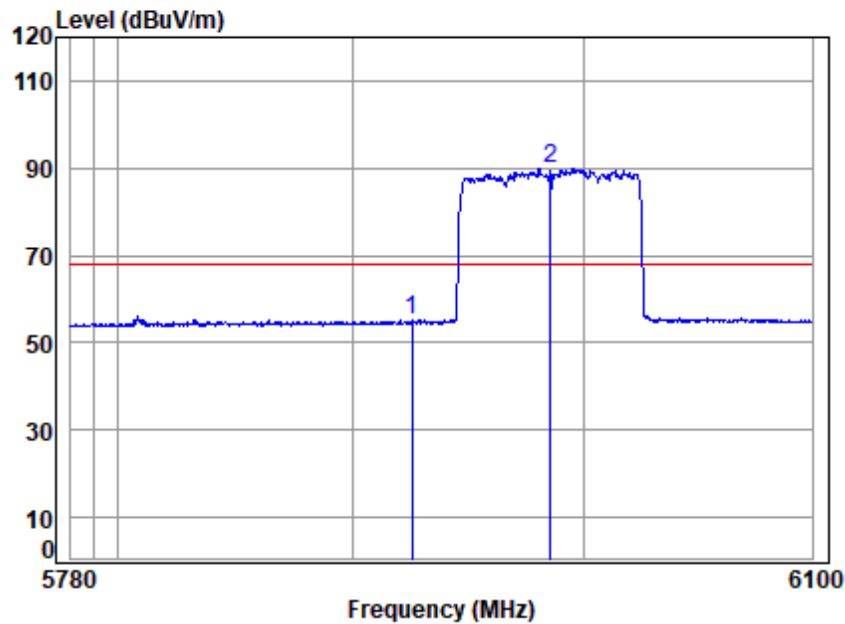
Job No : 02484AT/02485AT

Mode : 5985 Band edge
: Wi-Fi 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	5925.000	10.87	33.55	30.53	51.41	65.30	88.20	-22.90	peak
2 pp	5985.000	10.82	33.74	30.51	85.71	99.76	88.20	11.56	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 5985 Band edge

: Wi-Fi 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	5925.000	10.87	33.55	30.53	41.10	54.99	68.20	-13.21 Average
2 pp	5985.000	10.82	33.74	30.51	75.88	89.93	68.20	21.73 Average



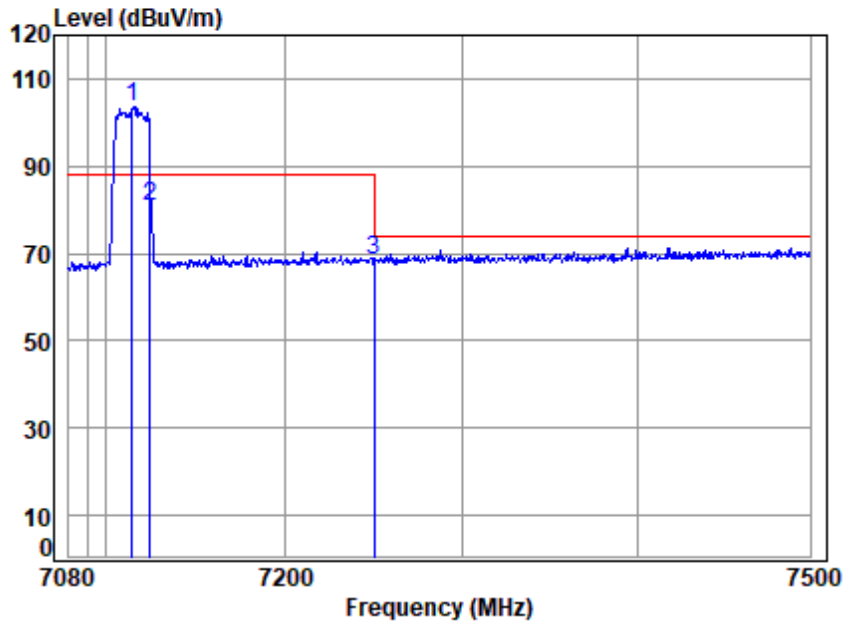
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250600248406

Page: 70 of 433

Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 7115 Band edge

: Wi-Fi 6E 11AX20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 7115.000	11.81	36.43	31.26	86.64	103.62	88.20	15.42	peak	
2 7125.024	11.82	36.45	31.26	63.94	80.95	88.20	-7.25	peak	
3 7250.000	11.90	36.60	31.33	51.16	68.33	74.00	-5.67	peak	



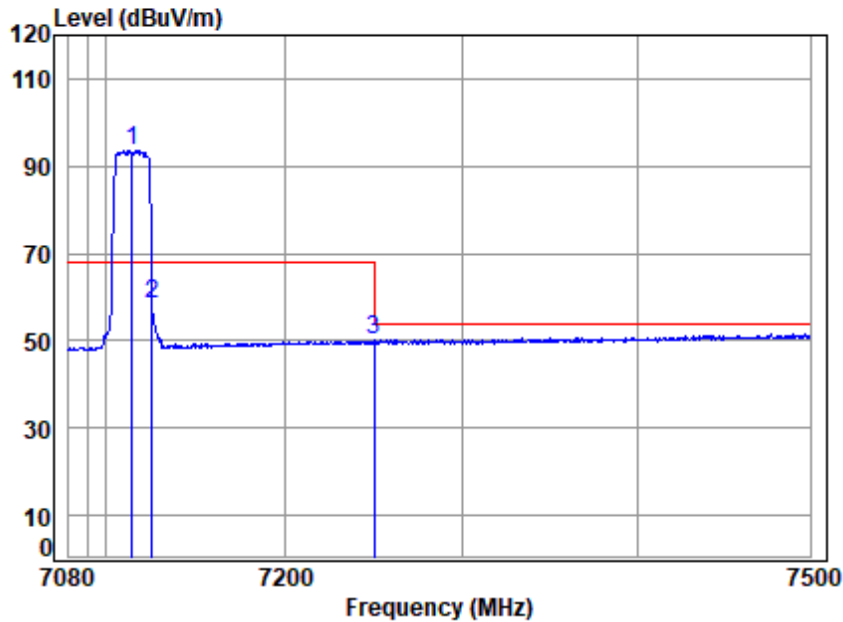
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Shenzhen Branch Inspection & Testing Services Laboratory

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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

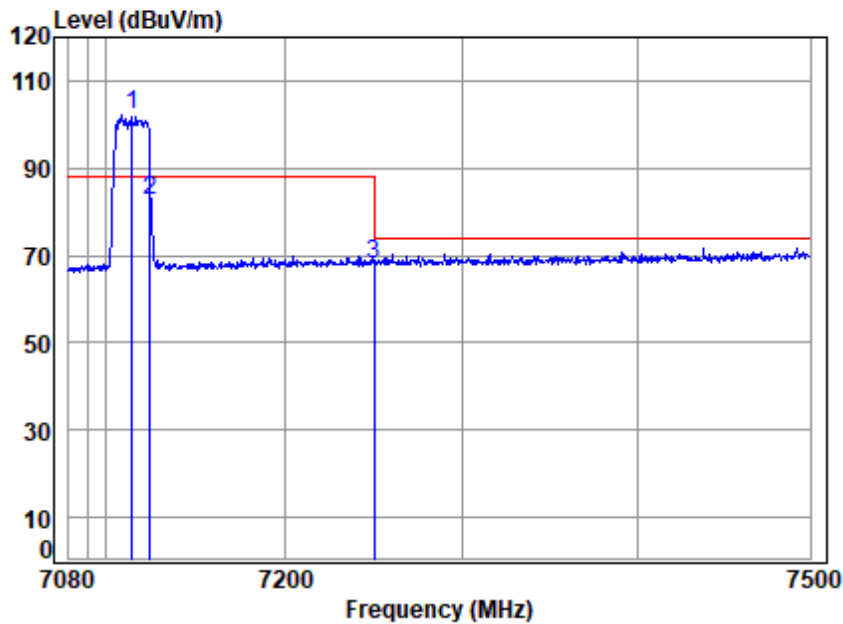
Mode : 7115 Band edge

: Wi-Fi 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 pp	7115.000	11.81	36.43	31.26	76.69	93.67	68.20	25.47	Average
2	7126.256	11.82	36.45	31.26	41.52	58.53	68.20	-9.67	Average
3	7250.000	11.90	36.60	31.33	33.14	50.31	54.00	-3.69	Average



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

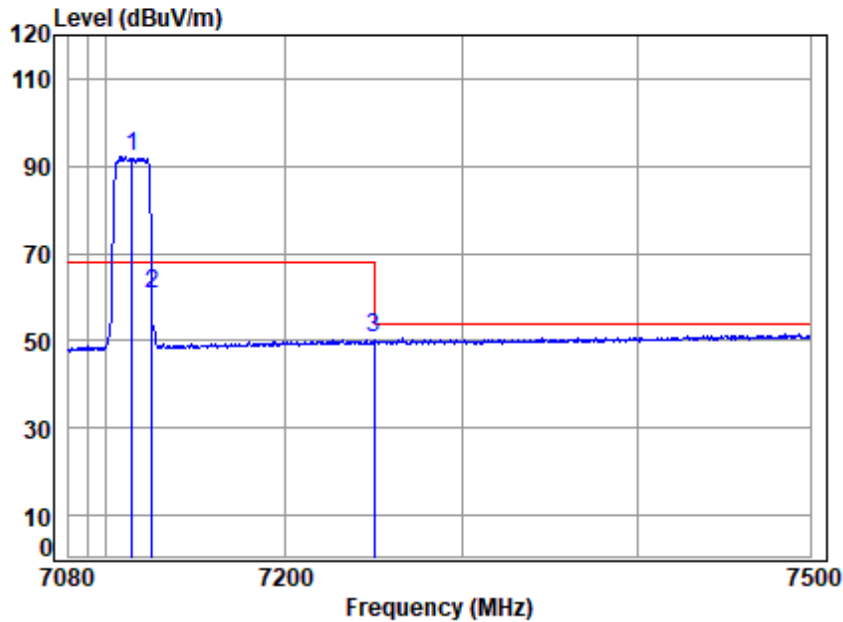
Mode : 7115 Band edge

: Wi-Fi 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 pp	7115.000	11.81	36.43	31.26	85.04	102.02	88.20	13.82	peak
2	7125.024	11.82	36.45	31.26	65.59	82.60	88.20	-5.60	peak
3	7250.000	11.90	36.60	31.33	51.03	68.20	74.00	-5.80	peak



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

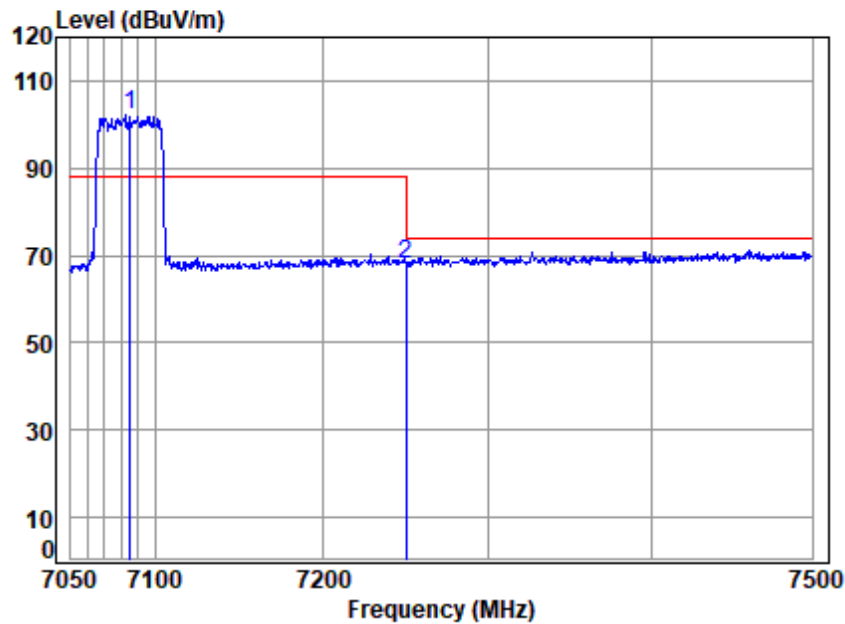
Mode : 7115 Band edge

: Wi-Fi 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 pp	7115.000	11.81	36.43	31.26	75.21	92.19	68.20	23.99	Average
2	7125.845	11.82	36.45	31.26	43.66	60.67	68.20	-7.53	Average
3	7250.000	11.90	36.60	31.33	33.32	50.49	54.00	-3.51	Average



Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 7085 Band edge
: Wi-Fi 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	
7085.000	11.77	36.37	31.24	85.32	102.22	88.20	14.02	peak
7250.000	11.90	36.60	31.33	50.97	68.14	74.00	-5.86	peak



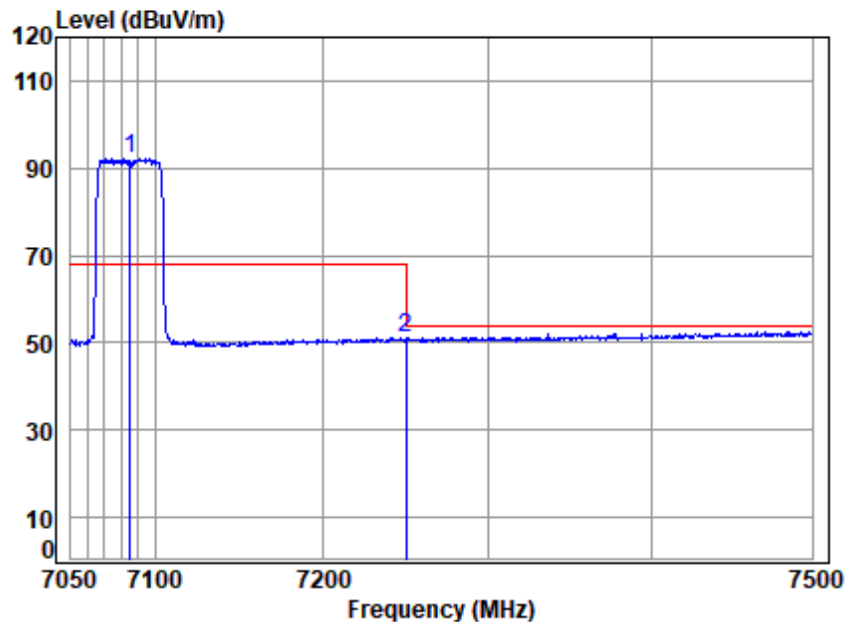
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

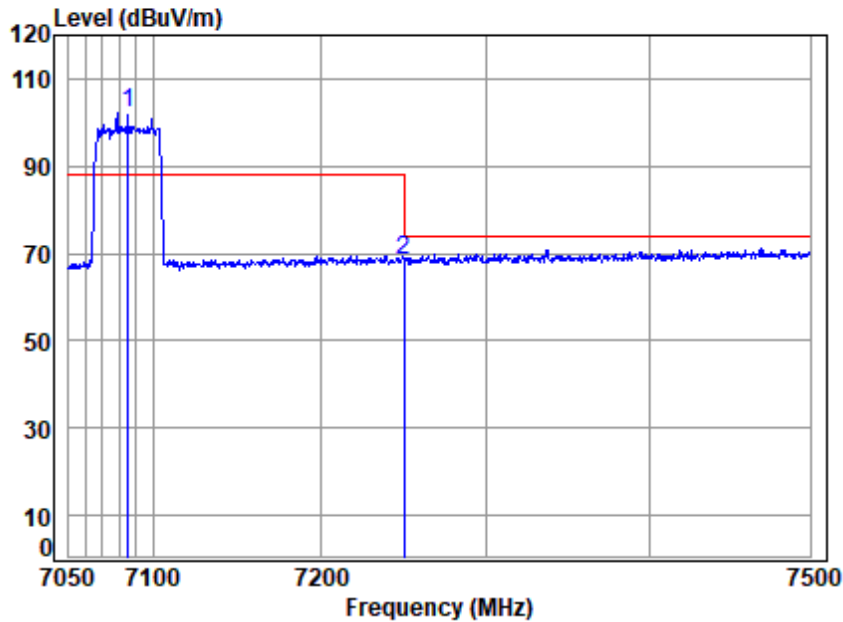
Mode : 7085 Band edge

: Wi-Fi 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 pp	7085.000	11.77	36.37	31.24	75.40	92.30	68.20	24.10	Average
2	7250.000	11.90	36.60	31.33	33.78	50.95	54.00	-3.05	Average



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

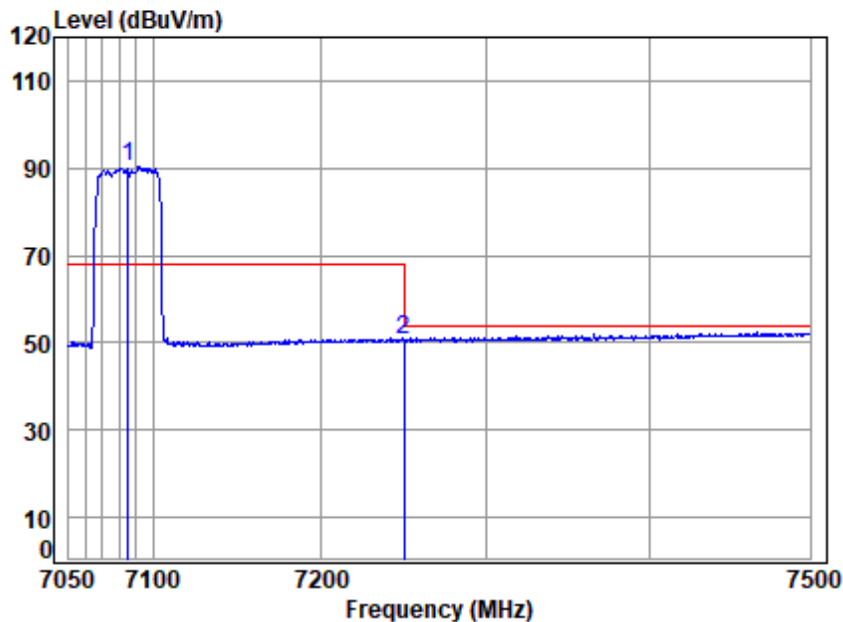
Mode : 7085 Band edge

: Wi-Fi 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 pp	7085.000	11.77	36.37	31.24	85.29	102.19	88.20	13.99	peak
2	7250.000	11.90	36.60	31.33	51.28	68.45	74.00	-5.55	peak



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 7085 Band edge
: Wi-Fi 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 pp	7085.000	11.77	36.37	31.24	73.49	90.39	68.20	22.19	Average
2	7250.000	11.90	36.60	31.33	33.65	50.82	54.00	-3.18	Average



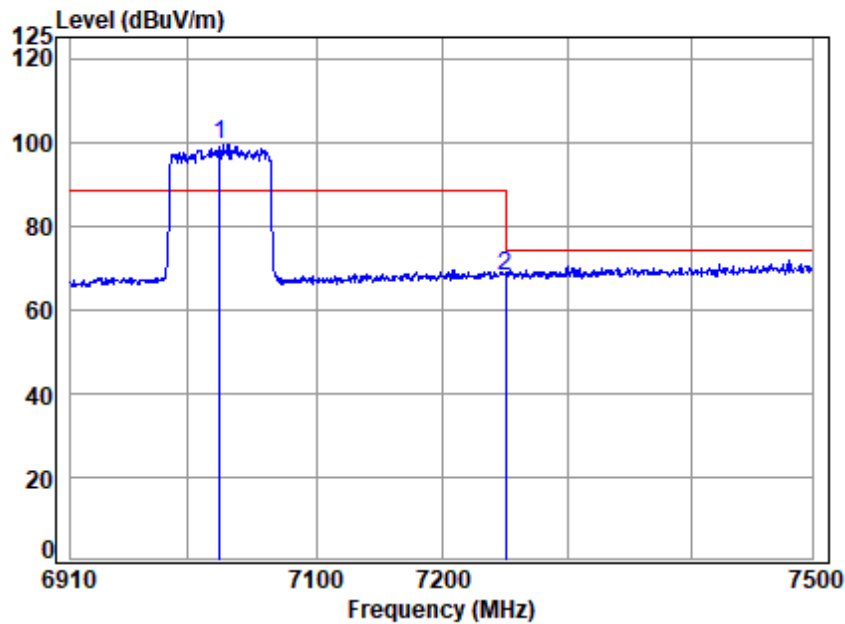
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

Mode : 7025 Band edge
: Wi-Fi 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 pp	7025.000	11.64	36.25	31.21	82.61	99.29	88.20	11.09	peak
2	7250.000	11.90	36.60	31.33	50.92	68.09	74.00	-5.91	peak



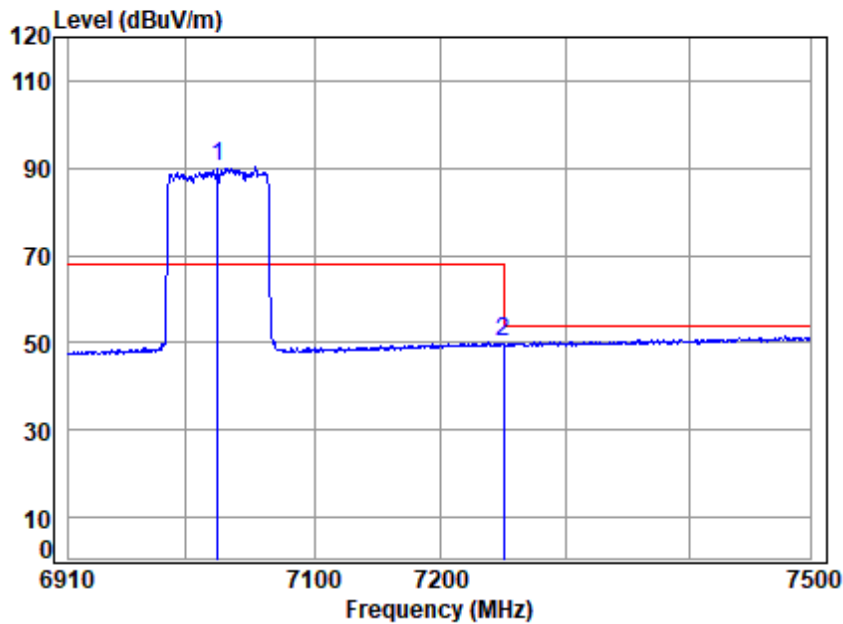
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Test Mode: 13; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02484AT/02485AT

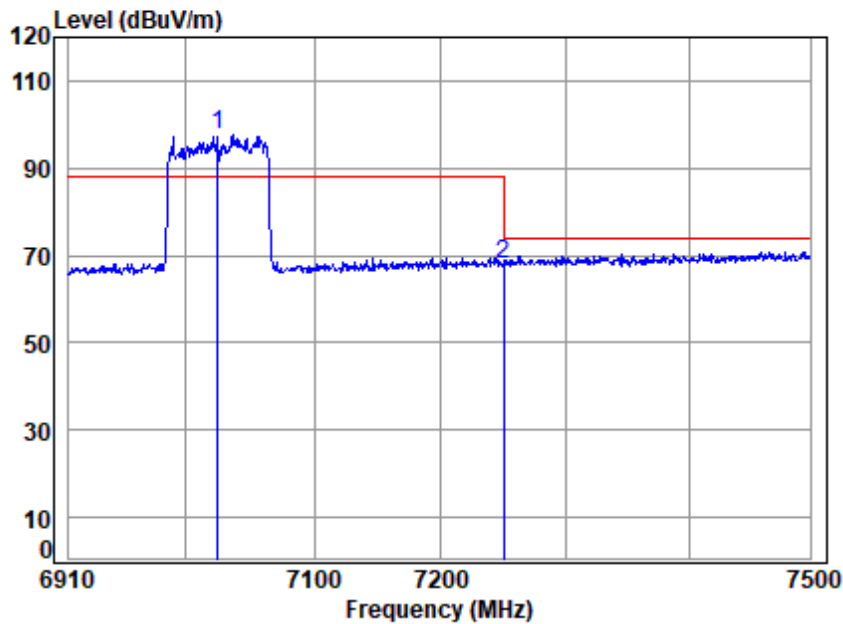
Mode : 7025 Band edge

: Wi-Fi 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 pp	7025.000	11.64	36.25	31.21	73.49	90.17	68.20	21.97	Average
2	7250.000	11.90	36.60	31.33	33.20	50.37	54.00	-3.63	Average



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

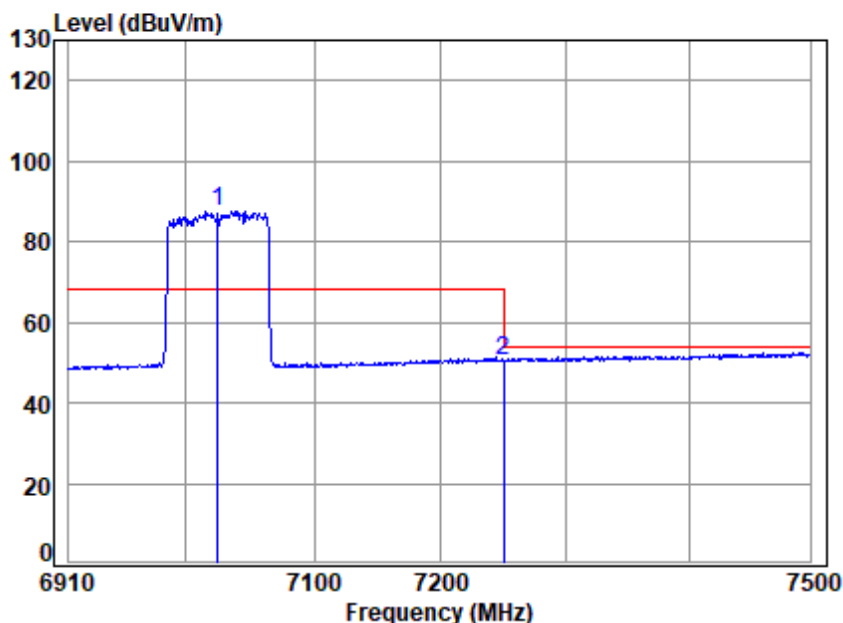
Job No : 02484AT/02485AT

Mode : 7025 Band edge
: Wi-Fi 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 pp	7025.000	11.64	36.25	31.21	81.07	97.75	88.20	9.55	peak
2	7250.000	11.90	36.60	31.33	50.97	68.14	74.00	-5.86	peak



Test Mode: 13; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02484AT/02485AT

Mode : 7025 Band edge
: Wi-Fi 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 pp	7025.000	11.64	36.25	31.21	71.05	87.73	68.20	19.53	Average
2	7250.000	11.90	36.60	31.33	33.36	50.53	54.00	-3.47	Average



7.5 In-Band Emissions

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

Test Method: ANSI C63.10-2020 Section 12.6

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 onehalf 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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 53.3 % RH

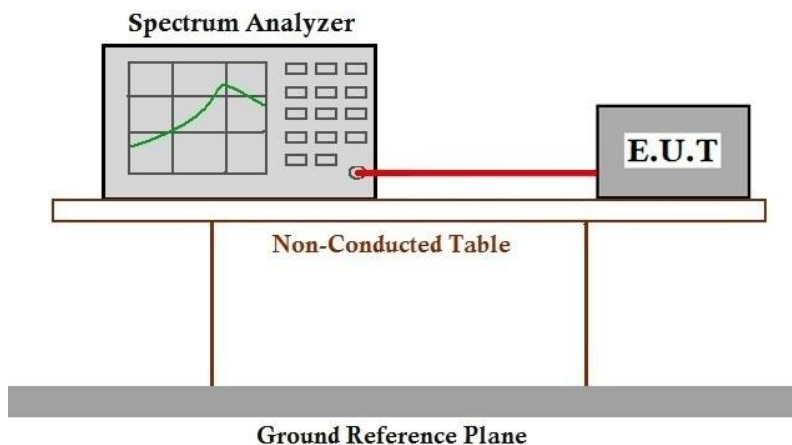
Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 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.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

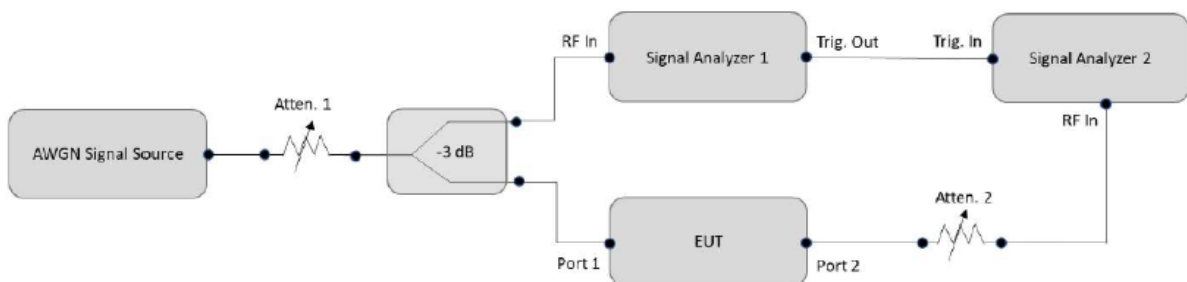
Humidity: 39.6 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Normal mode_Keep the EUT pairing and working normally

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Detection Level= Injected AWGN Power(dBm)- Antenna Gain(dBi)+ Path Loss(dB)

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7.7 Duty Cycle

Test Requirement ANSI C63.10-2020 Section 12.2

Test Method: ANSI C63.10-2020 Section 12.2

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 53.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



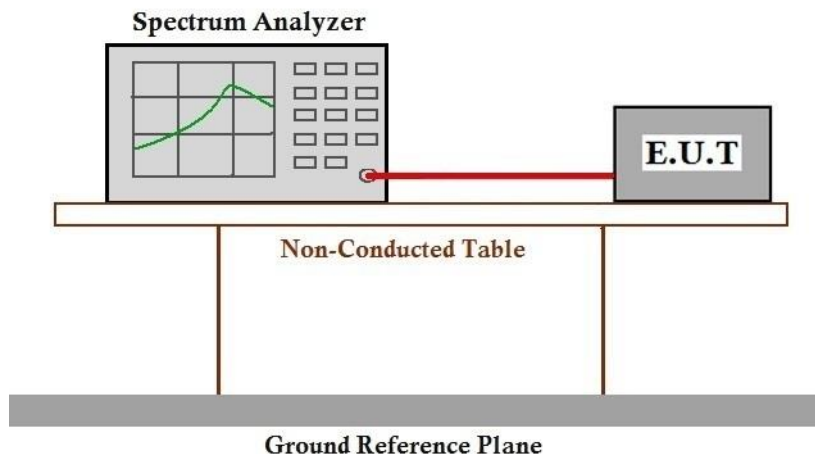
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 99% Bandwidth

Test Requirement ANSI C63.10-2020 Section 12.5

Test Method: ANSI C63.10-2020 Section 12.5

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 53.3 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



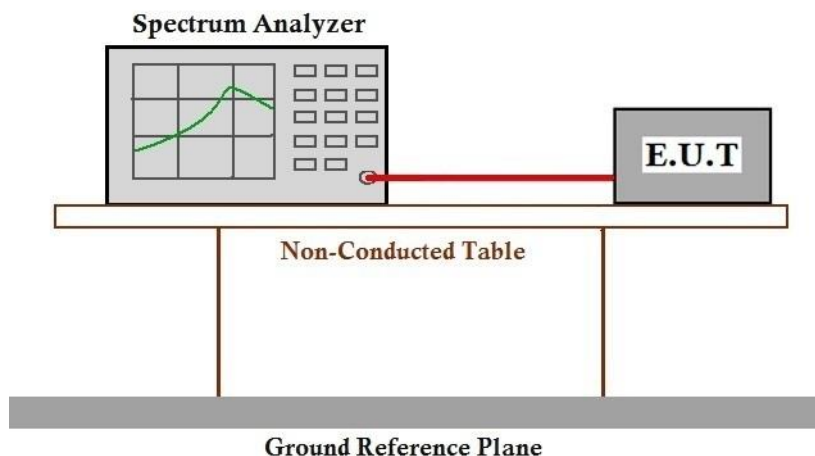
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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 26dB Emission bandwidth

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

Test Method: ANSI C63.10-2020 Section 12.5

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 53.3 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



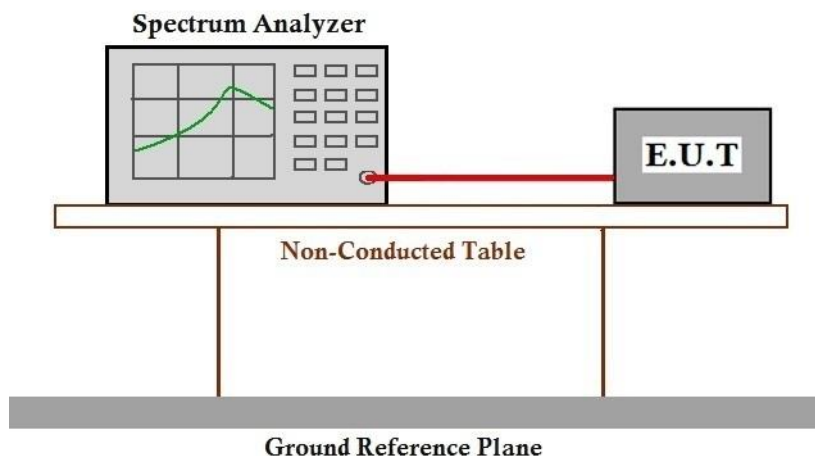
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

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7.10 Maximum Conducted output power

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

Test Method: ANSI C63.10-2020 Section 12.4

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤ 30	≤ 5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤ 24	≤ -1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤ 36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤ 23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤ 14	≤ -5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 53.3 % RH

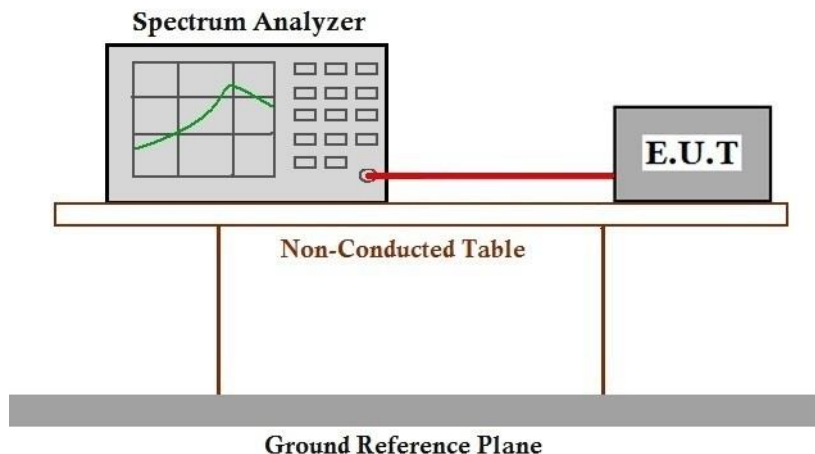
Atmospheric Pressure: 1020 mbar



7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

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

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

Please Refer to Appendix for Details

7.11 Peak Power spectrum density

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

Test Method: ANSI C63.10-2020 Section 12.6

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤ 30	≤ 5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤ 24	≤ -1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤ 36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤ 23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤ 14	≤ -5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 53.3 % RH

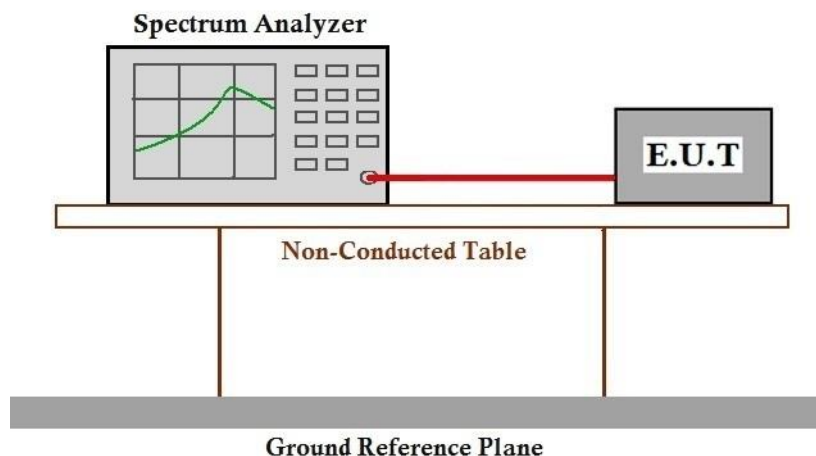
Atmospheric Pressure: 1020 mbar



7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details

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7.12 Frequency Stability

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

Test Method: ANSI C63.10-2020 Section 6.8

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 53.3 % RH Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	11	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	12	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report
Final test	13	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11ax 20/40/80, Only the data of worst case is recorded in the report



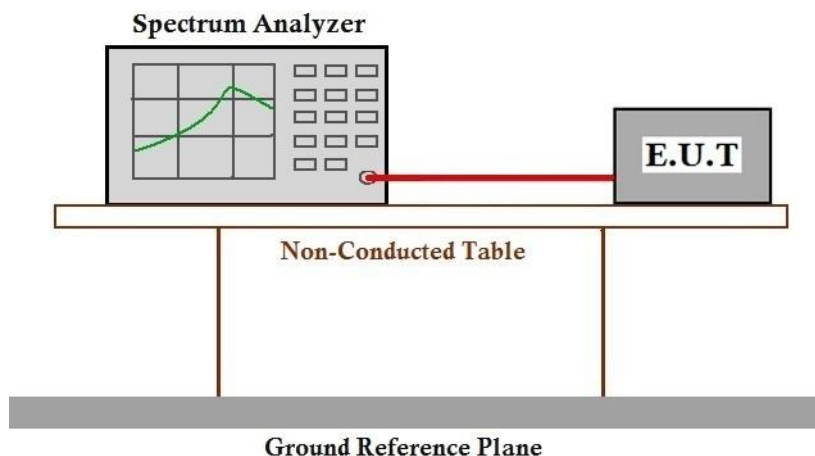
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7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2506002484AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2506002484AT



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

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	0.420	0.567	74.07	1.30	0.04
			6175	RU242	Left	0.349	0.496	70.36	1.53	0.07
			6415	RU242	Left	0.349	0.496	70.36	1.53	0.08
	802.11ax (HEW40)	MIMO	5965	RU484	Left	0.207	0.354	58.47	2.33	0.04
			6165	RU484	Left	0.207	0.354	58.47	2.33	0.06
			6405	RU484	Left	0.211	0.354	59.60	2.25	0.08
	802.11ax (HEW80)	MIMO	5985	RU996	Left	0.131	0.278	47.12	3.27	0.04
			6145	RU996	Left	0.134	0.278	48.20	3.17	0.31
			6385	RU996	Left	0.130	0.278	46.76	3.30	0.16

1.1.2 Ant1

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	0.341	0.496	68.75	1.63	0.06
			6475	RU242	Left	0.347	0.496	69.96	1.55	0.06
			6515	RU242	Left	0.348	0.495	70.30	1.53	0.06
	802.11ax (HEW40)	MIMO	6445	RU484	Left	0.205	0.354	57.91	2.37	0.06
			6485	RU484	Left	0.211	0.355	59.44	2.26	0.11
	802.11ax (HEW80)	MIMO	6465	RU996	Left	0.129	0.278	46.40	3.33	0.09

1.1.3 Ant1

Ant1										
ENV	Mode	TX	Frequency	RU	RU	T_on	Period	Duty Cycle	Duty Cycle	Max. DC



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		Type	(MHz)		Pos	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
NTNV	802.11ax (HEW20)	MIMO	6535	RU242	Left	0.347	0.496	69.96	1.55	0.07
			6695	RU242	Left	0.347	0.495	70.10	1.54	0.11
			6855	RU242	Left	0.349	0.496	70.36	1.53	0.06
	802.11ax (HEW40)	MIMO	6565	RU484	Left	0.210	0.354	59.32	2.27	0.12
			6685	RU484	Left	0.210	0.354	59.32	2.27	0.11
			6845	RU484	Left	0.207	0.355	58.31	2.34	0.07
	802.11ax (HEW80)	MIMO	6625	RU996	Left	0.134	0.278	48.20	3.17	0.30
			6705	RU996	Left	0.134	0.279	48.03	3.18	0.16
			6785	RU996	Left	0.130	0.278	46.76	3.30	0.11

1.1.4 Ant1

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	0.347	0.496	69.96	1.55	0.10
			6995	RU242	Left	0.347	0.495	70.10	1.54	0.09
			7115	RU242	Left	0.348	0.496	70.16	1.54	0.07
	802.11ax (HEW40)	MIMO	6925	RU484	Left	0.208	0.355	58.59	2.32	0.06
			7005	RU484	Left	0.207	0.354	58.47	2.33	0.13
			7085	RU484	Left	0.207	0.354	58.47	2.33	0.06
	802.11ax (HEW80)	MIMO	6945	RU996	Left	0.134	0.278	48.20	3.17	0.14
			7025	RU996	Left	0.130	0.279	46.59	3.32	0.11

1.1.5 Ant1

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	0.354	0.496	71.37	1.46	0.09
	802.11ax (HEW40)	MIMO	6885	RU484	Left	0.205	0.354	57.91	2.37	0.08
	802.11ax (HEW80)	MIMO	6865	RU996	Left	0.130	0.278	46.76	3.30	0.07

1.1.6 Ant1

Ant1										
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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	0.205	0.354	57.91	2.37	0.10
	802.11ax (HEW80)	MIMO	6545	RU996	Left	0.130	0.279	46.59	3.32	0.07



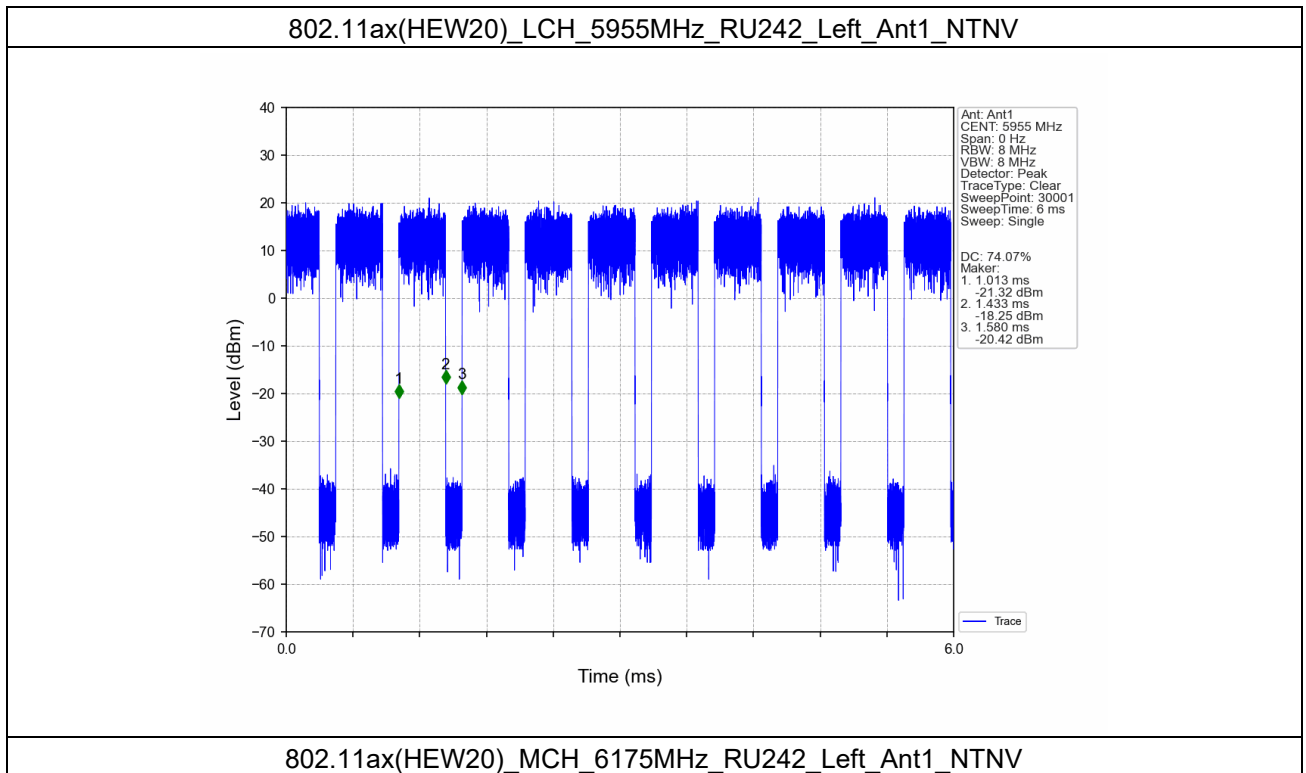
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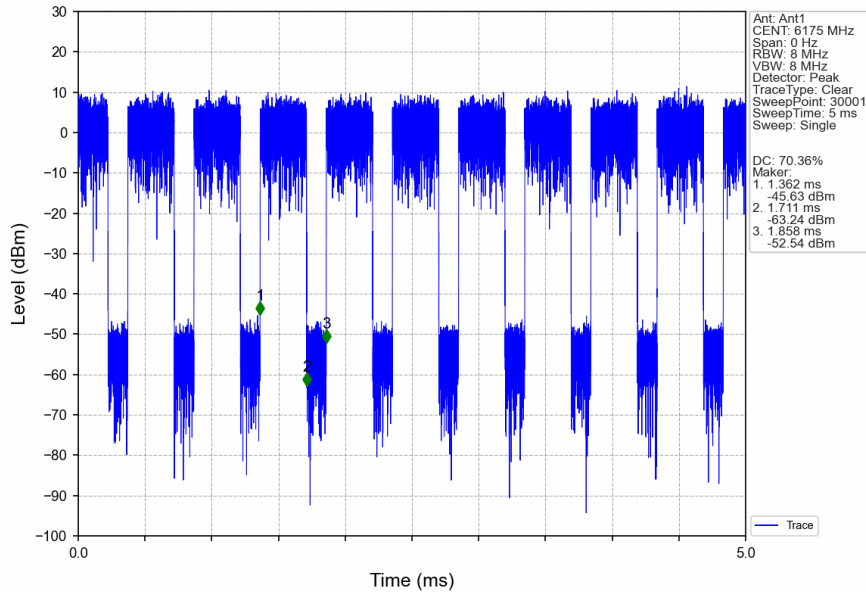
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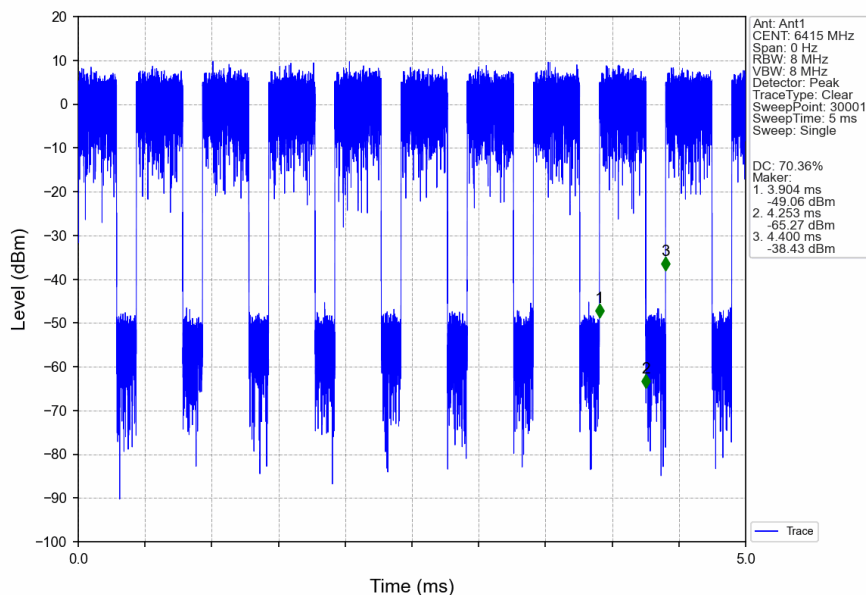
1.2 Test Graph

1.2.1 Ant1

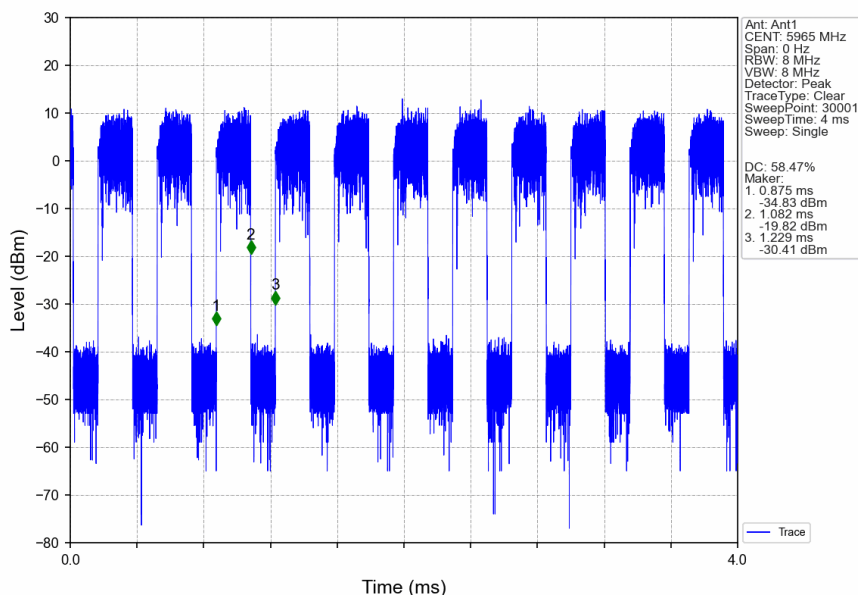




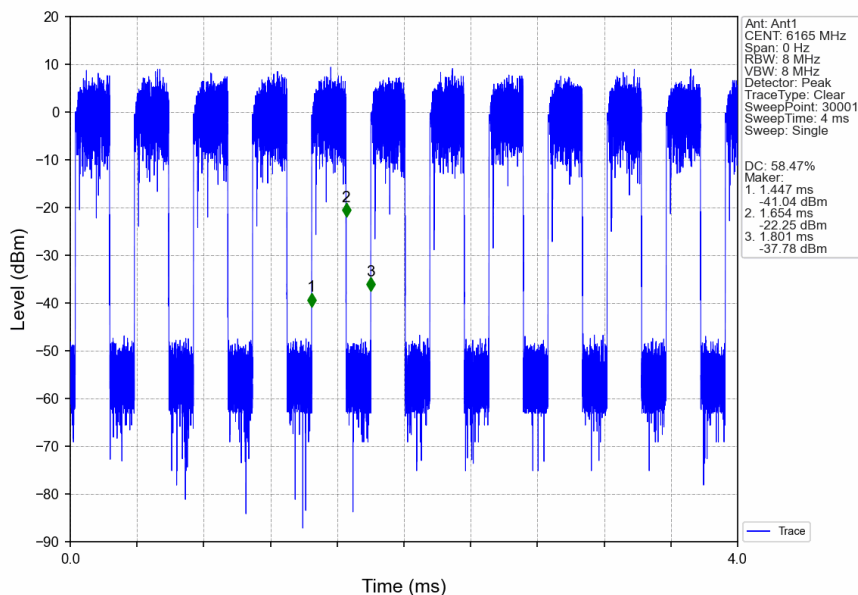
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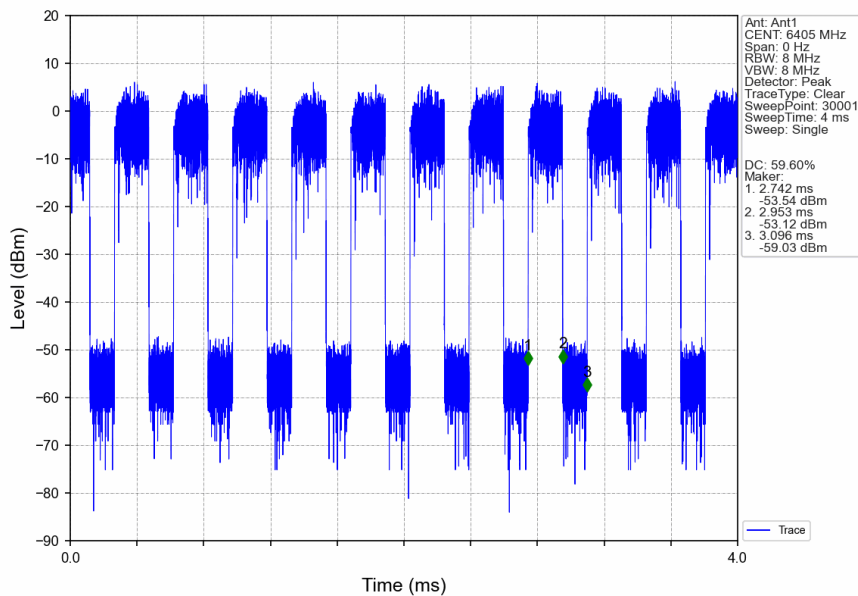
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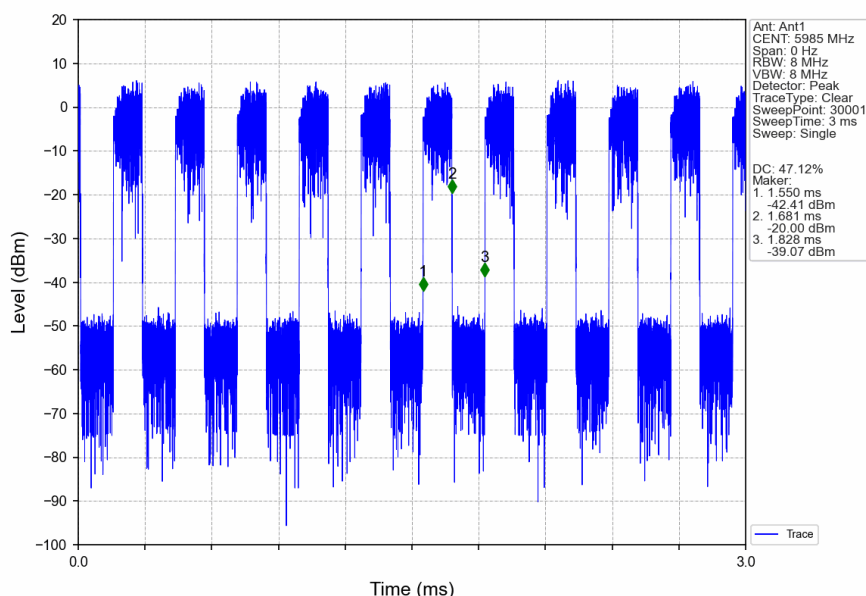
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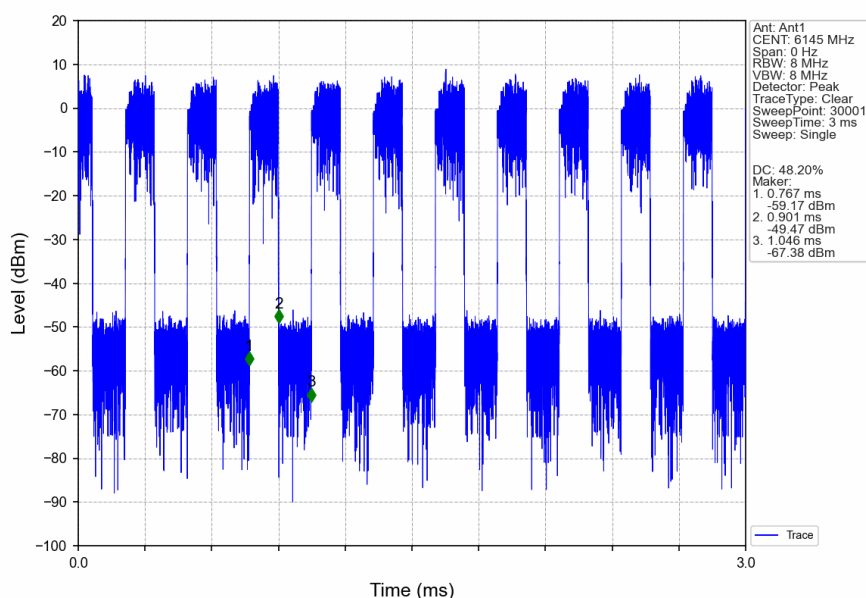
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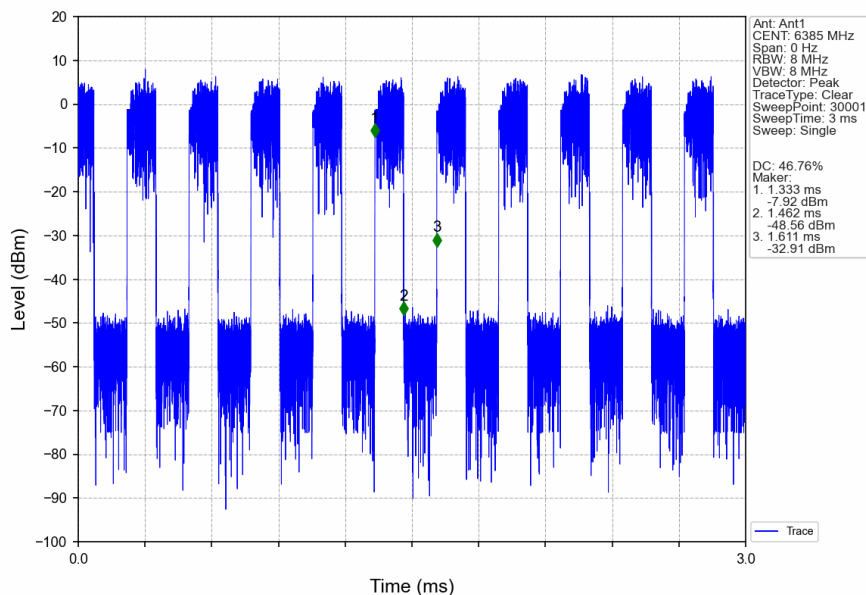
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802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant1_NTNV

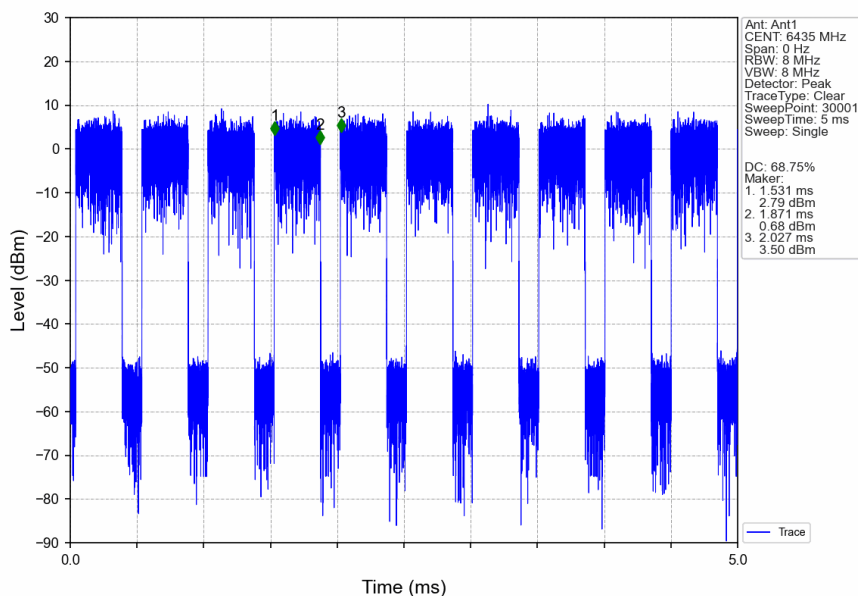


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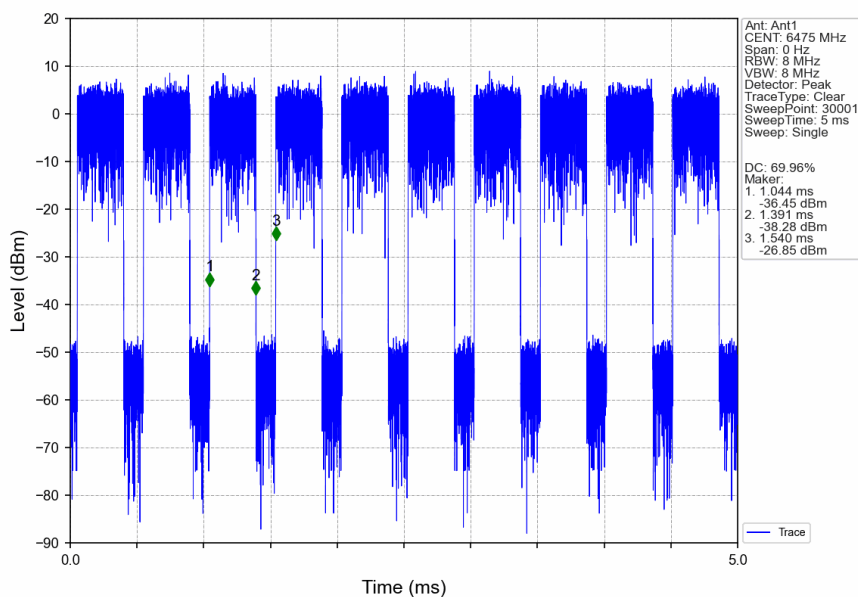


1.2.2 Ant1

802.11ax(HEW20)_LCH_6435MHz_RU242_Left_Ant1_NTNV



802.11ax(HEW20)_MCH_6475MHz_RU242_Left_Ant1_NTNV



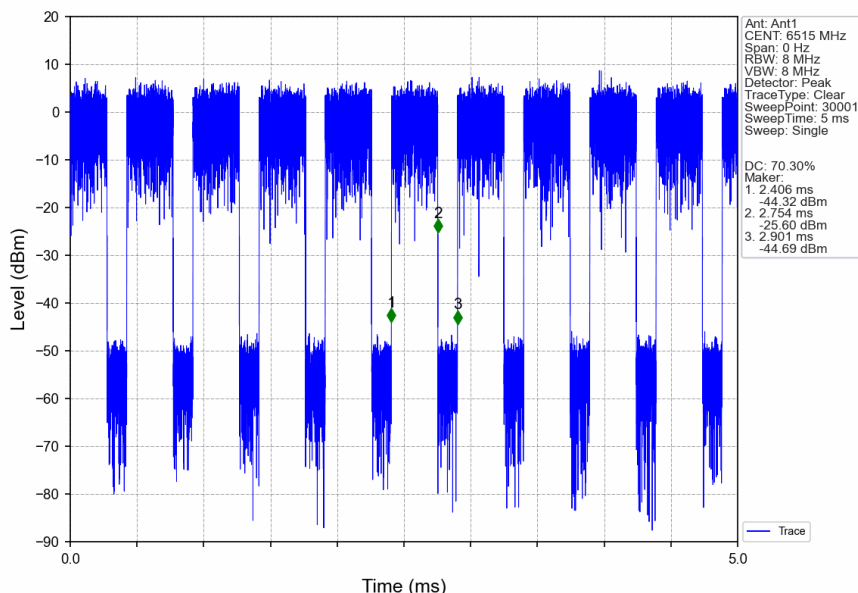
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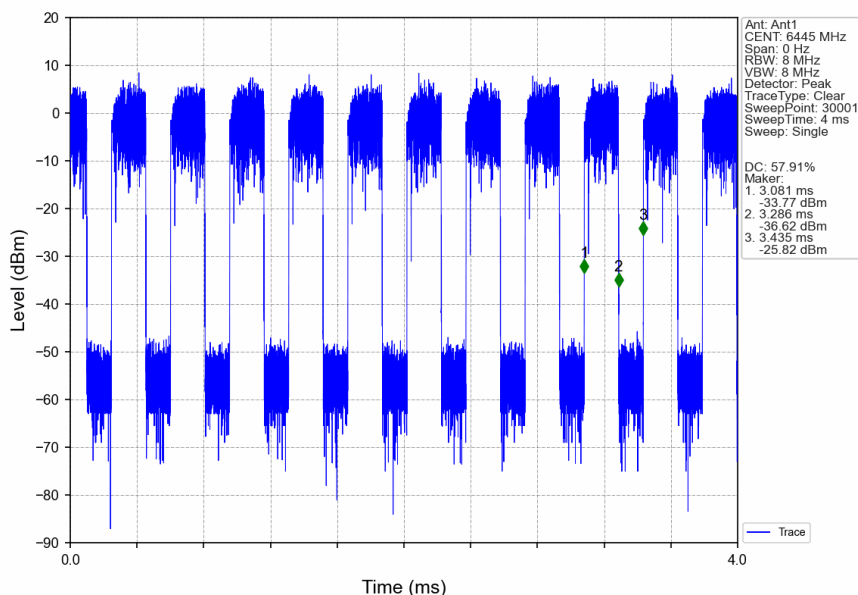
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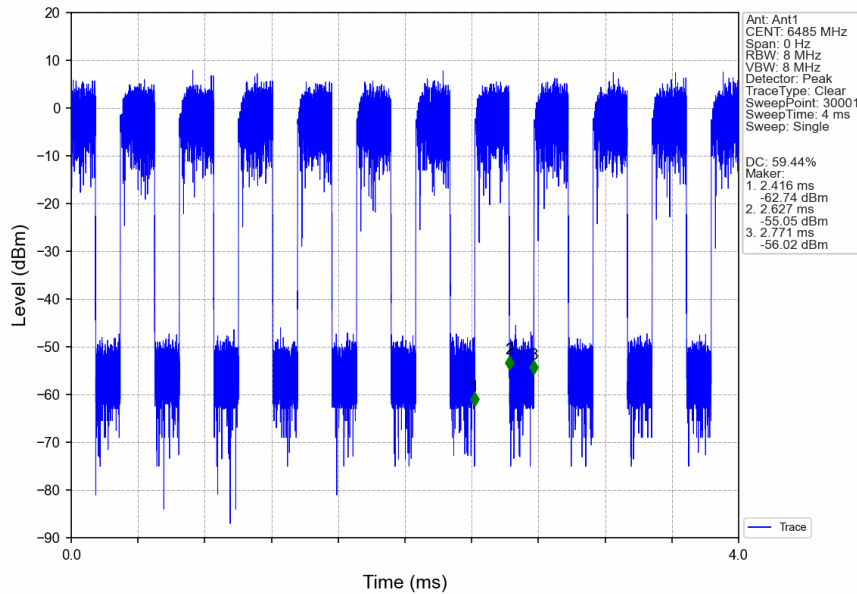
802.11ax(HEW20)_HCH_6515MHz_RU242_Left_Ant1_NTNV



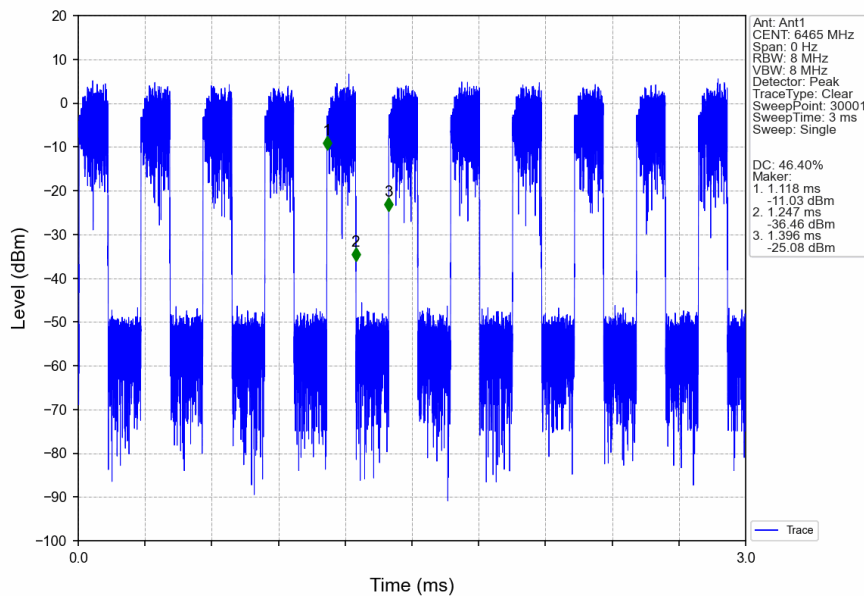
802.11ax(HEW40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



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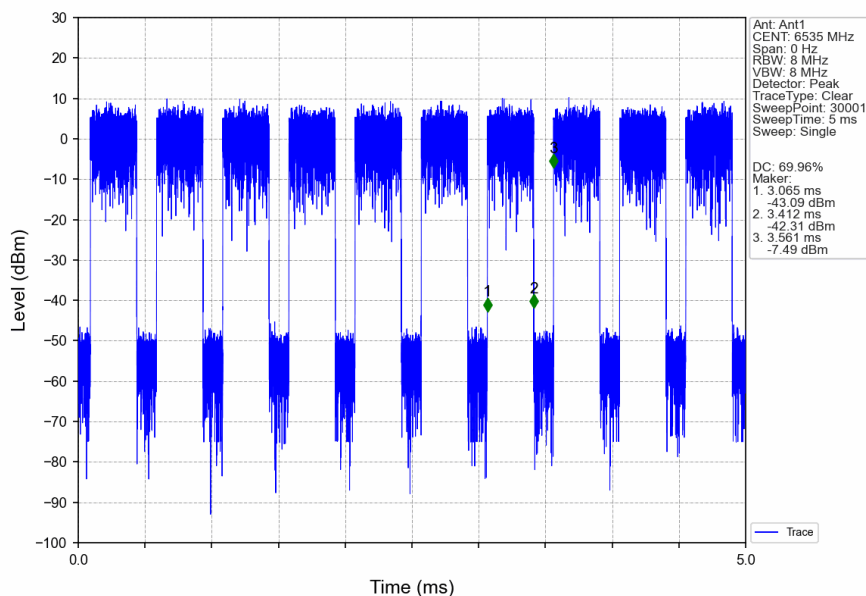


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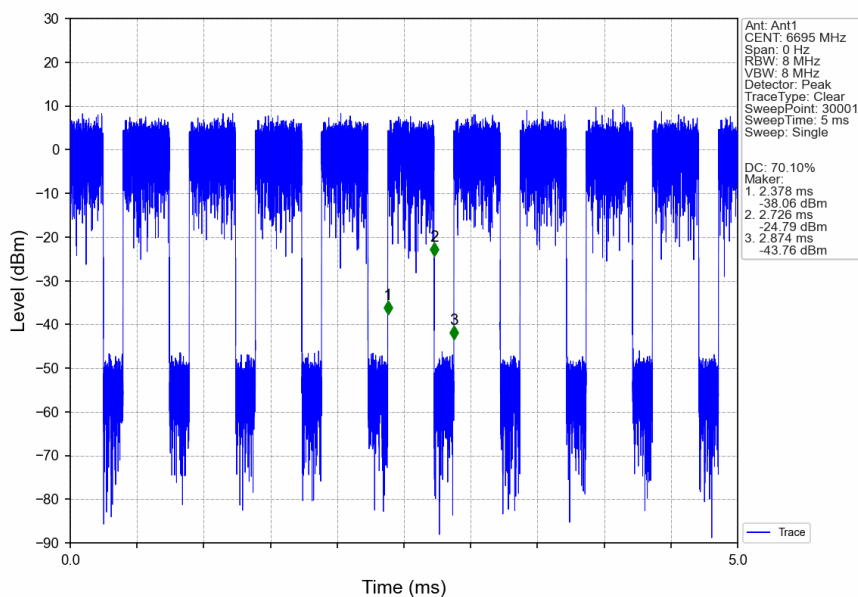


1.2.3 Ant1

802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant1_NTNV



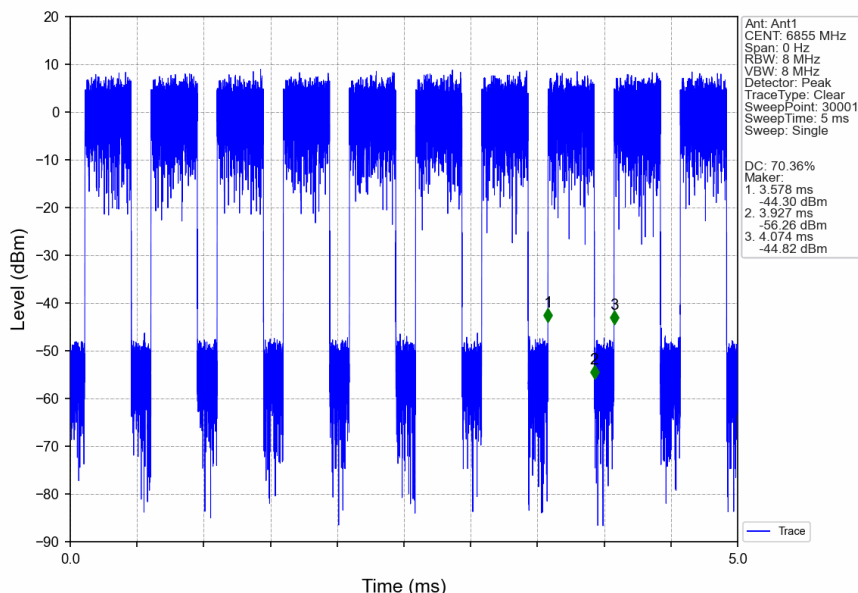
802.11ax(HEW20)_MCH_6695MHz_RU242_Left_Ant1_NTNV



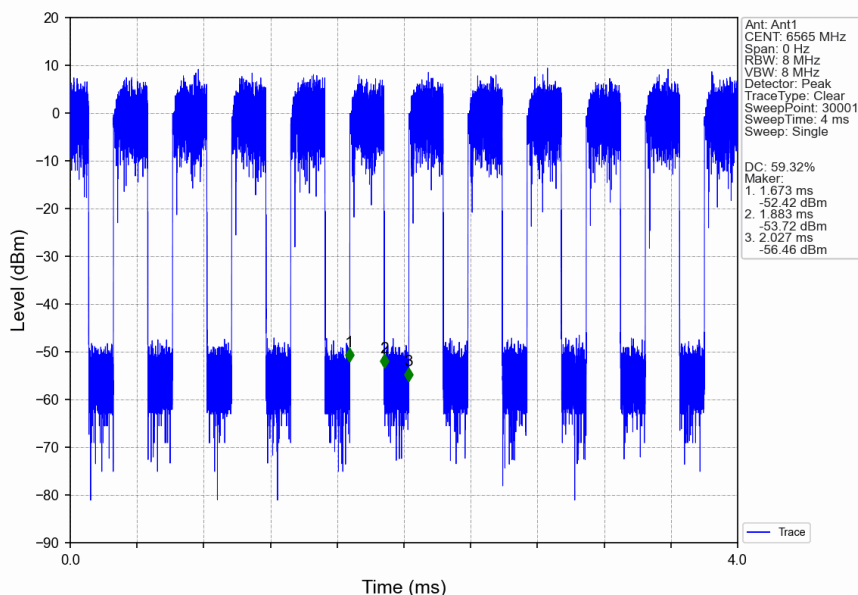
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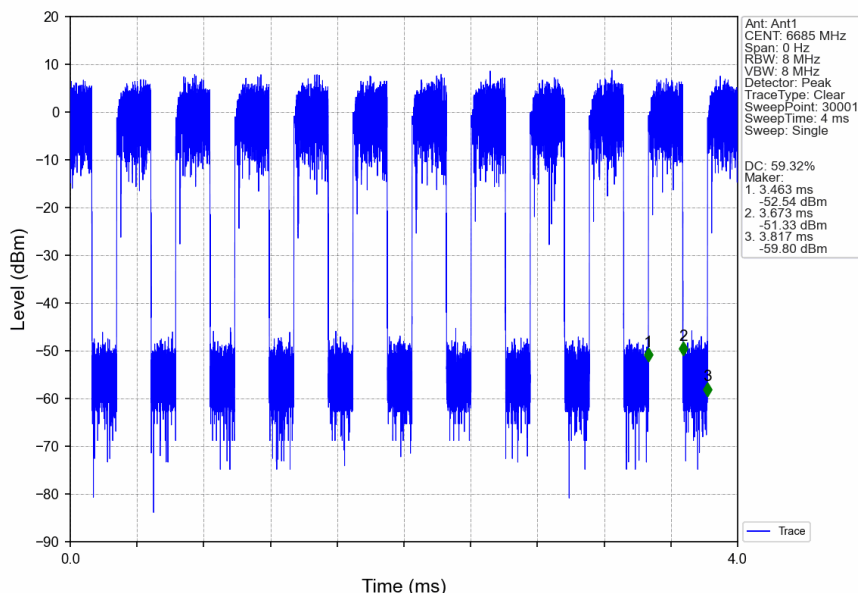
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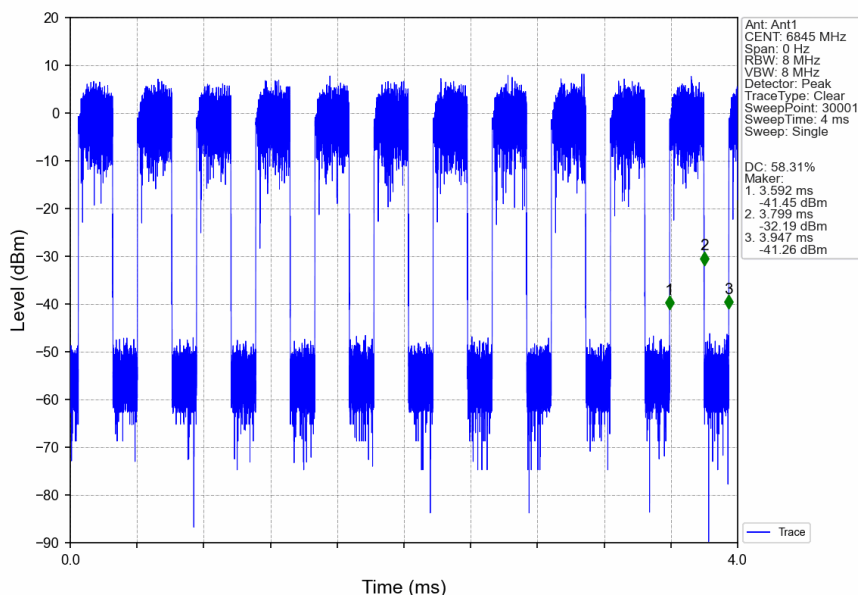
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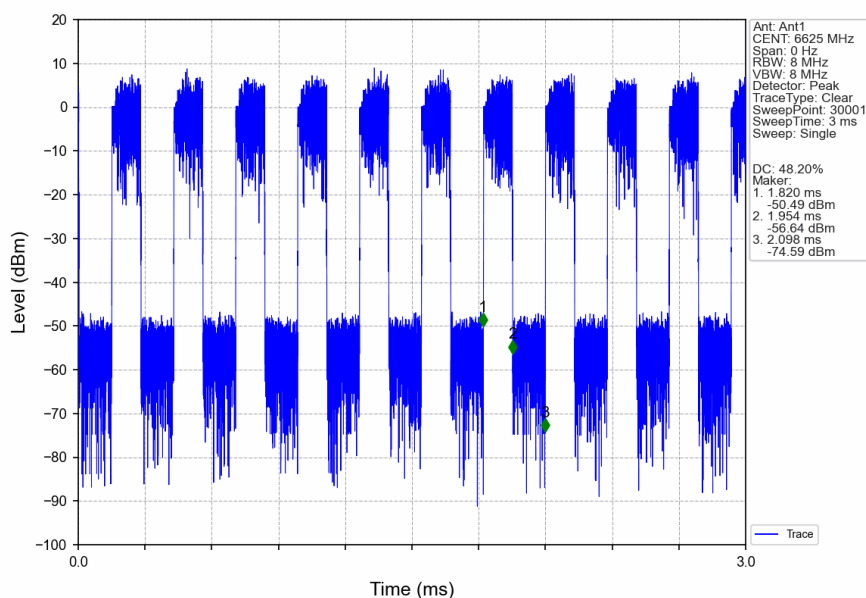
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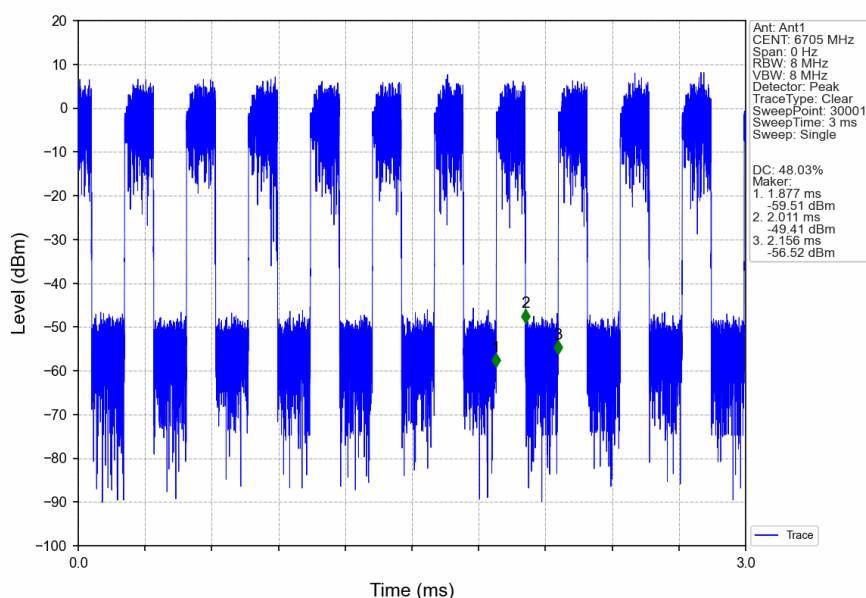
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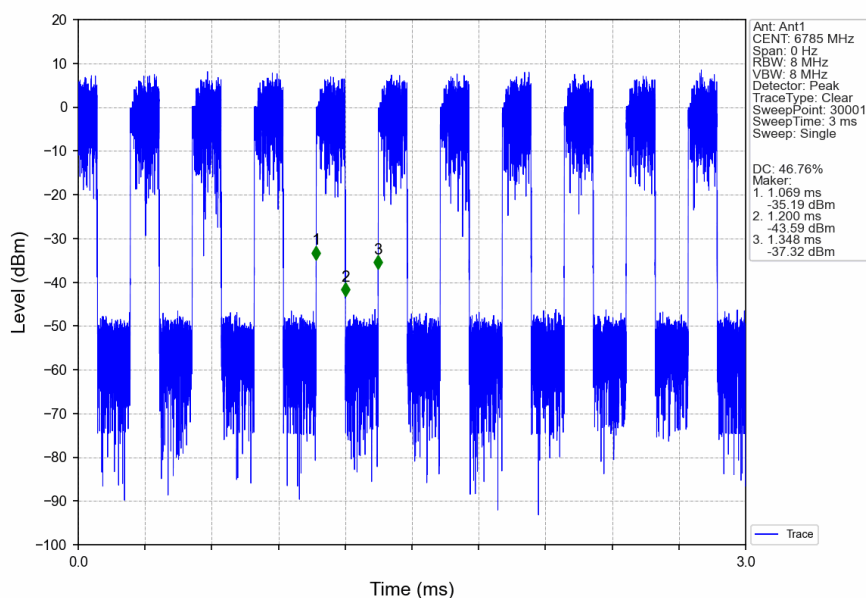
802.11ax(HEW80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6705MHz_RU996_Left_Ant1_NTNV

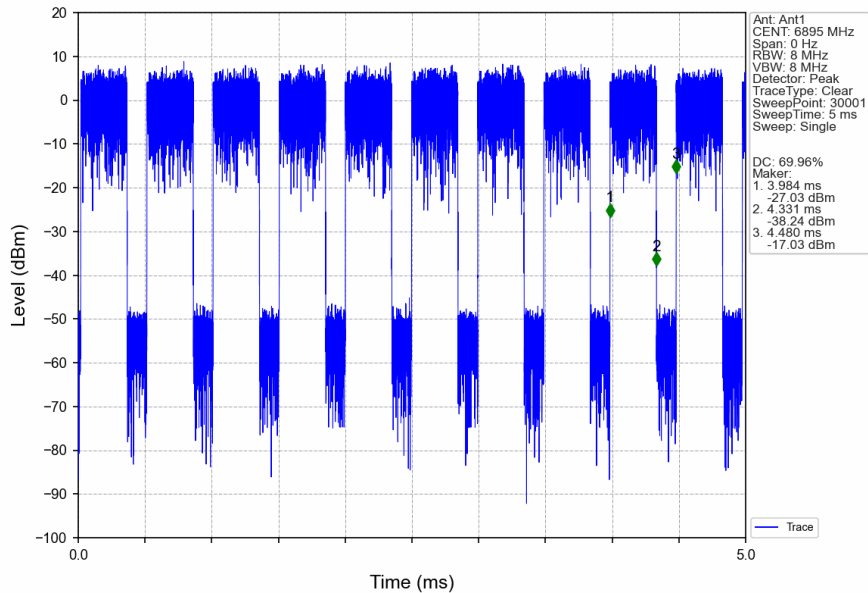


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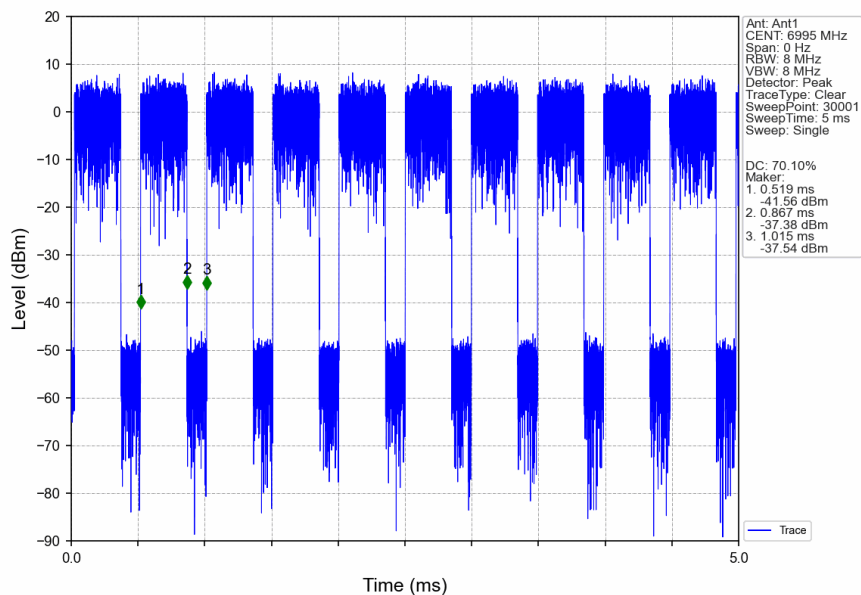


1.2.4 Ant1

802.11ax(HEW20)_LCH_6895MHz_RU242_Left_Ant1_NTNV



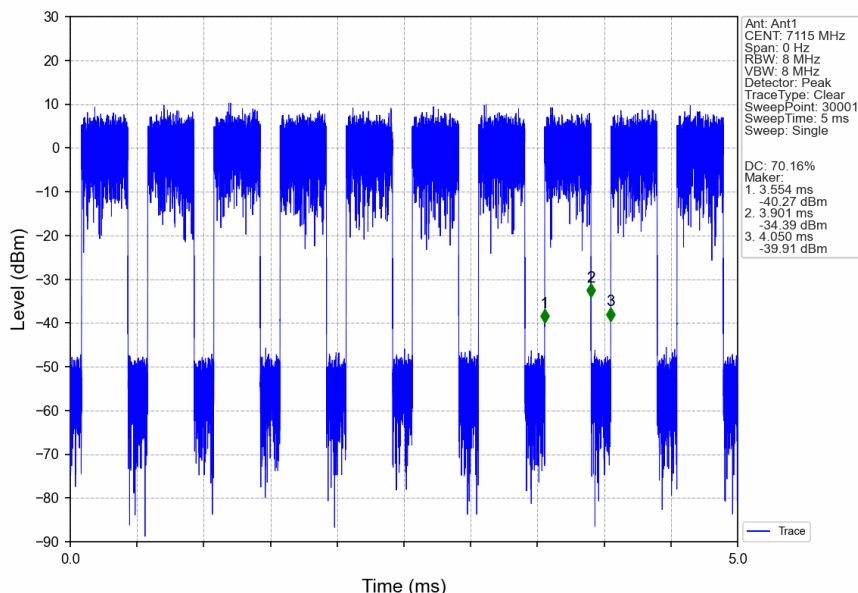
802.11ax(HEW20)_MCH_6995MHz_RU242_Left_Ant1_NTNV



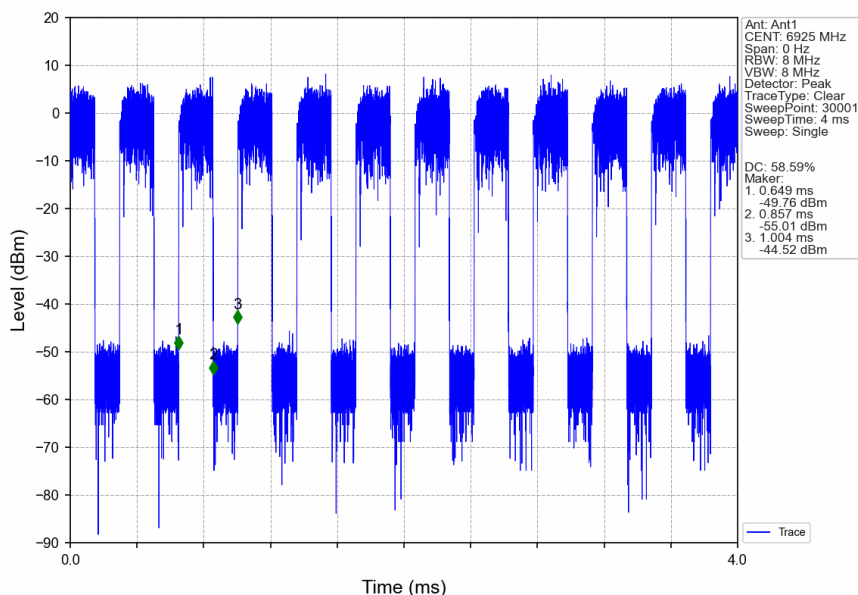
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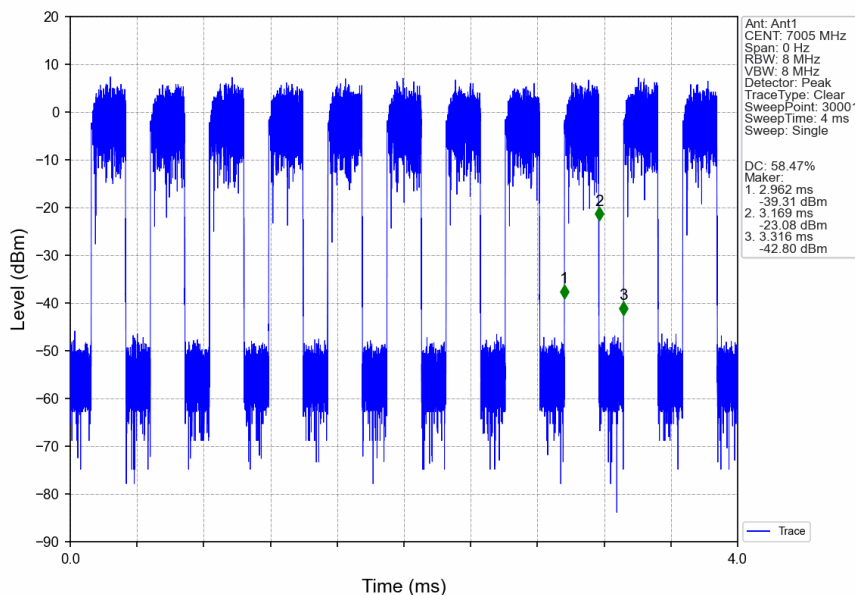
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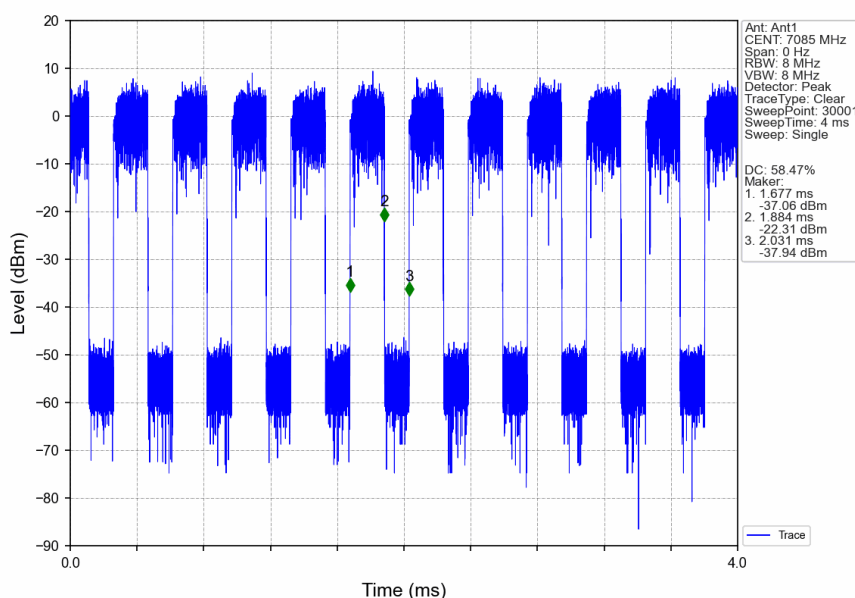
802.11ax(HEW40)_LCH_6925MHz_RU484_Left_Ant1_NTNV



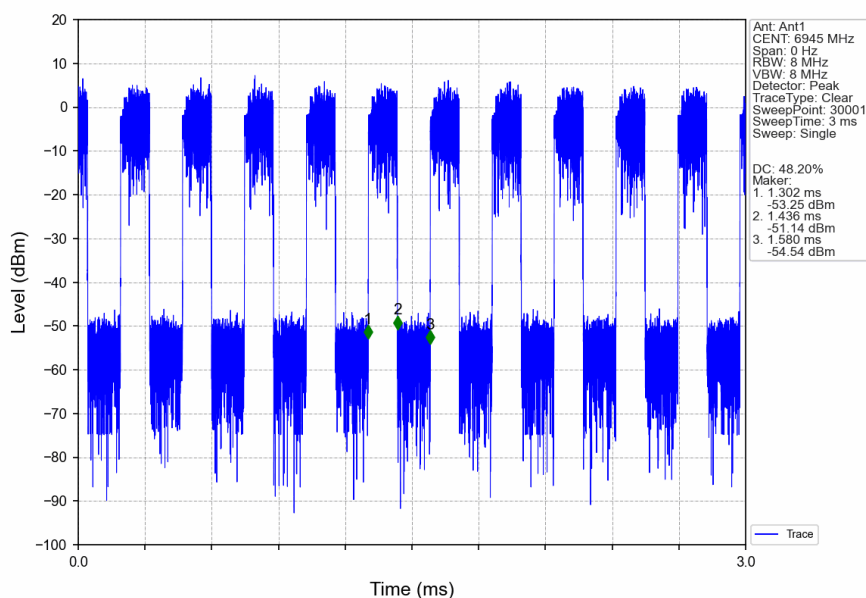
802.11ax(HEW40)_MCH_7005MHz_RU484_Left_Ant1_NTNV



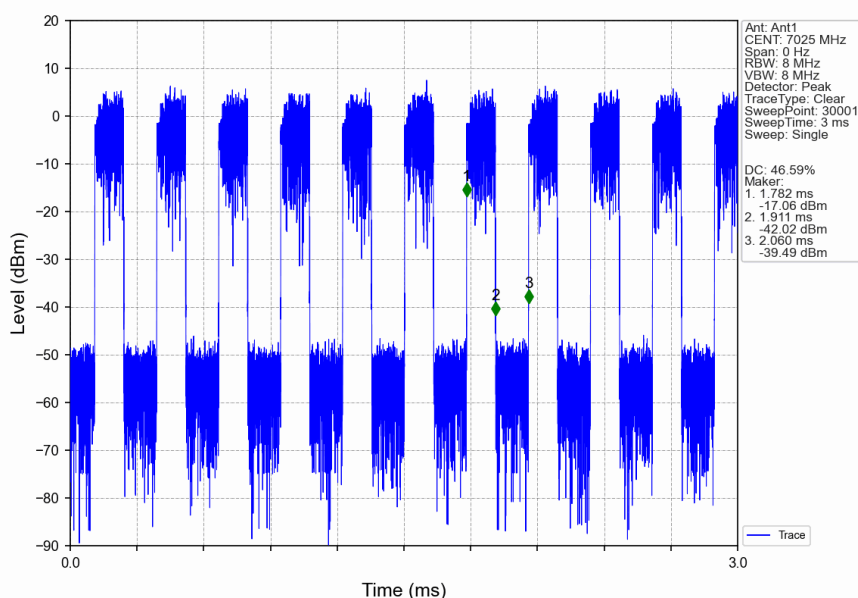
802.11ax(HEW40)_HCH_7085MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_LCH_6945MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_HCH_7025MHz_RU996_Left_Ant1_NTNV



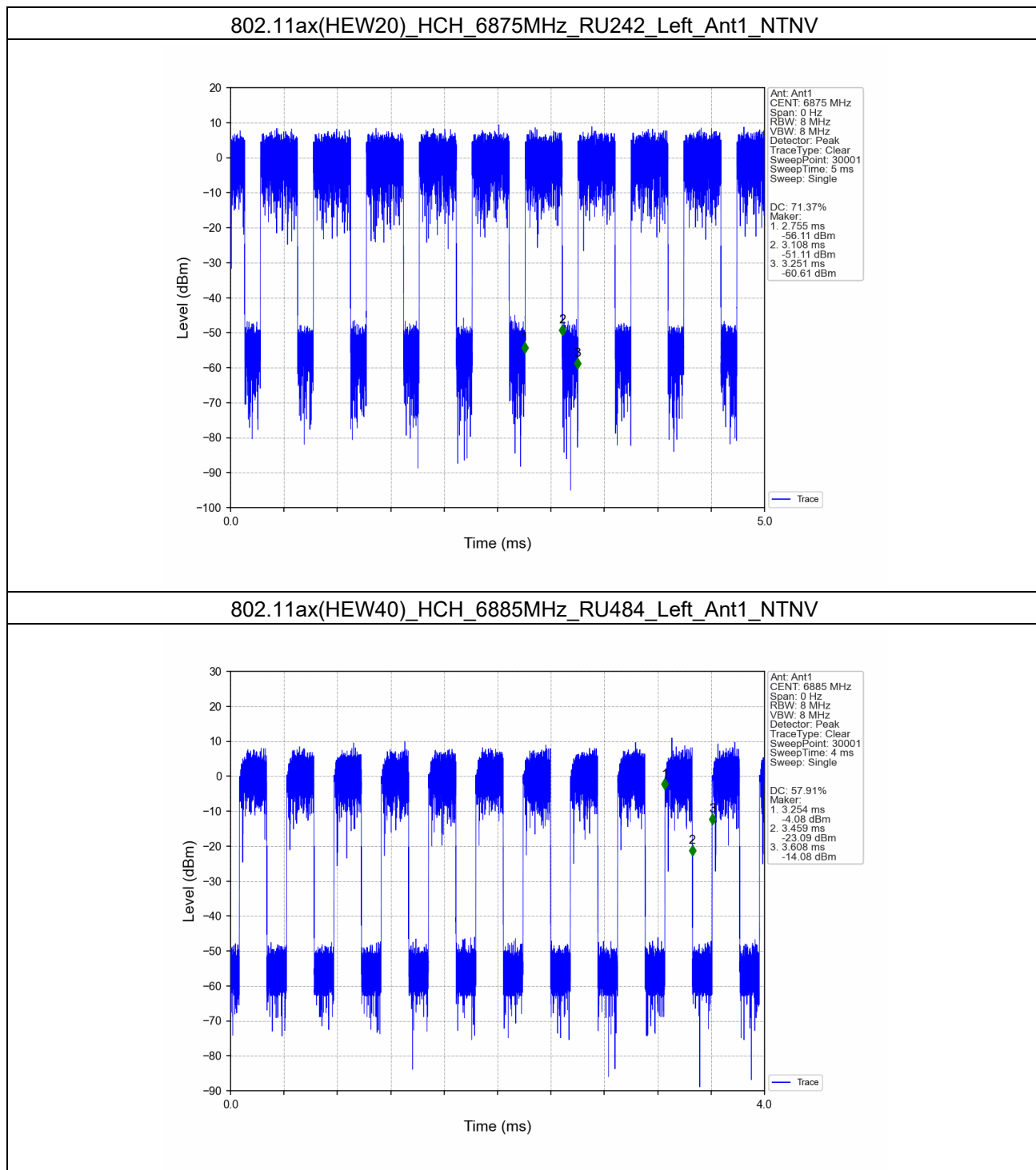
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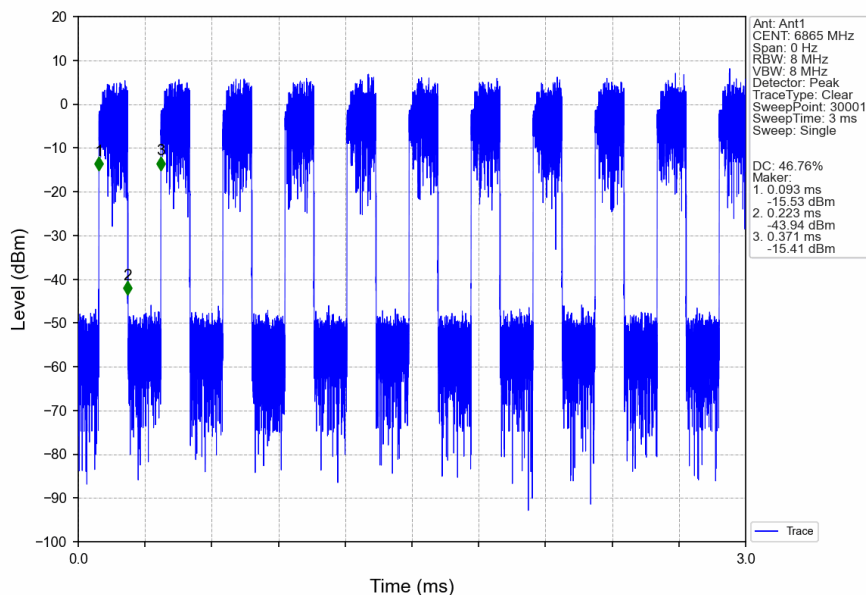
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1.2.5 Ant1

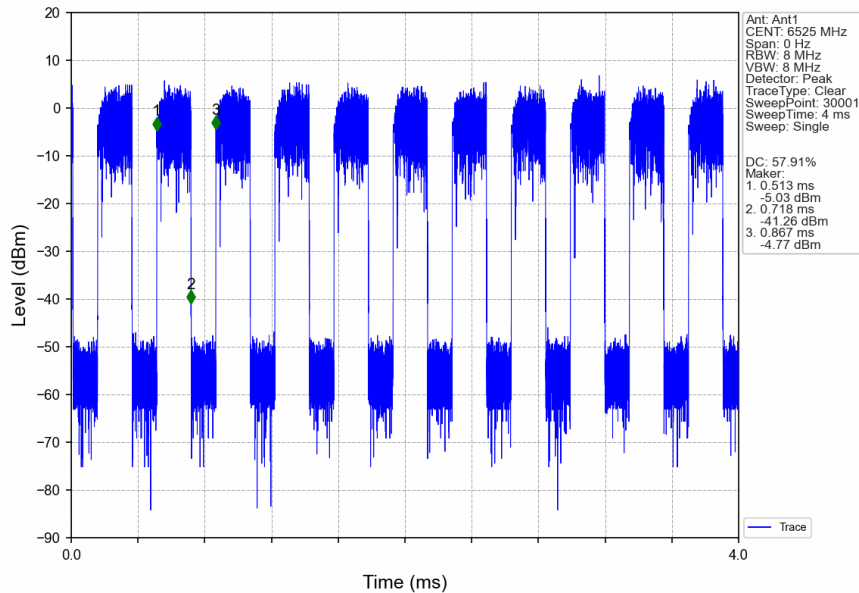


802.11ax(HEW80)_HCH_6865MHz_RU996_Left_Ant1_NTNV

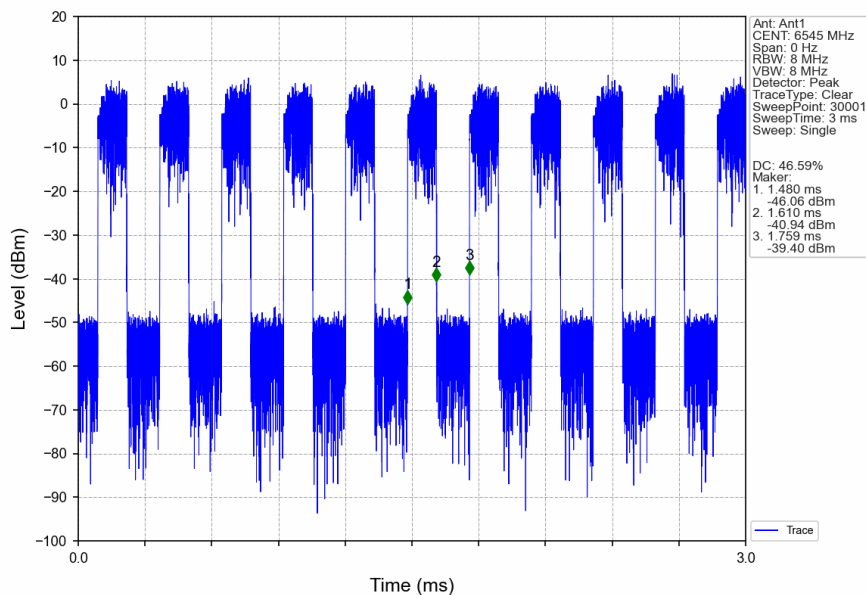


1.2.6 Ant1

802.11ax(HEW40)_HCH_6525MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_HCH_6545MHz_RU996_Left_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

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	19.288	<=320	Pass
			6175	RU242	Left	1	19.294	<=320	Pass
			6415	RU242	Left	1	19.237	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	37.816	<=320	Pass
			6165	RU484	Left	1	37.793	<=320	Pass
			6405	RU484	Left	1	37.837	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	77.730	<=320	Pass
			6145	RU996	Left	1	77.958	<=320	Pass
			6385	RU996	Left	1	77.787	<=320	Pass

2.1.2 26dB BW

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	21.452	/	Pass
			6175	RU242	Left	1	21.163	/	Pass
			6415	RU242	Left	1	21.342	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	40.041	/	Pass
			6165	RU484	Left	1	40.162	/	Pass
			6405	RU484	Left	1	39.693	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	82.179	/	Pass
			6145	RU996	Left	1	82.133	/	Pass
			6385	RU996	Left	1	81.918	/	Pass

2.1.3 OBW

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	19.312	<=320	Pass
			6475	RU242	Left	1	19.286	<=320	Pass

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			6515	RU242	Left	1	19.278	<=320	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	37.859	<=320	Pass
			6485	RU484	Left	1	37.912	<=320	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	77.857	<=320	Pass

2.1.4 26dB BW

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	21.292	/	Pass
			6475	RU242	Left	1	21.428	/	Pass
			6515	RU242	Left	1	21.302	/	Pass
	802.11ax (HEW40)	MIMO	6445	RU484	Left	1	40.126	/	Pass
			6485	RU484	Left	1	39.951	/	Pass
	802.11ax (HEW80)	MIMO	6465	RU996	Left	1	82.097	/	Pass

2.1.5 OBW

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	19.320	<=320	Pass
			6695	RU242	Left	1	19.280	<=320	Pass
			6855	RU242	Left	1	19.314	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	37.905	<=320	Pass
			6685	RU484	Left	1	37.848	<=320	Pass
			6845	RU484	Left	1	37.878	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	77.833	<=320	Pass
			6705	RU996	Left	1	77.689	<=320	Pass
			6785	RU996	Left	1	77.696	<=320	Pass

2.1.6 26dB BW

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	21.366	/	Pass
			6695	RU242	Left	1	21.628	/	Pass
			6855	RU242	Left	1	21.534	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	40.099	/	Pass
			6685	RU484	Left	1	40.031	/	Pass



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			6845	RU484	Left	1	39.940	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	81.897	/	Pass
			6705	RU996	Left	1	81.819	/	Pass
			6785	RU996	Left	1	81.644	/	Pass

2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	1	19.374	<=320	Pass
			6995	RU242	Left	1	19.331	<=320	Pass
			7115	RU242	Left	1	19.273	<=320	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	1	37.830	<=320	Pass
			7005	RU484	Left	1	37.810	<=320	Pass
			7085	RU484	Left	1	37.821	<=320	Pass
	802.11ax (HEW80)	MIMO	6945	RU996	Left	1	77.734	<=320	Pass
			7025	RU996	Left	1	77.689	<=320	Pass

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6895	RU242	Left	1	21.549	/	Pass
			6995	RU242	Left	1	21.418	/	Pass
			7115	RU242	Left	1	21.351	/	Pass
	802.11ax (HEW40)	MIMO	6925	RU484	Left	1	39.851	/	Pass
			7005	RU484	Left	1	40.306	/	Pass
			7085	RU484	Left	1	39.941	/	Pass
	802.11ax (HEW80)	MIMO	6945	RU996	Left	1	81.912	/	Pass
			7025	RU996	Left	1	82.471	/	Pass

2.1.9 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	1	19.329	<=320	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	1	37.923	<=320	Pass
	802.11ax	MIMO	6865	RU996	Left	1	77.687	<=320	Pass



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	(HEW80)								
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2.1.10 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW20)	MIMO	6875	RU242	Left	1	21.561	/	Pass
	802.11ax (HEW40)	MIMO	6885	RU484	Left	1	40.026	/	Pass
	802.11ax (HEW80)	MIMO	6865	RU996	Left	1	81.945	/	Pass

2.1.11 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	1	37.792	<=320	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	1	77.771	<=320	Pass

2.1.12 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11ax (HEW40)	MIMO	6525	RU484	Left	1	40.003	/	Pass
	802.11ax (HEW80)	MIMO	6545	RU996	Left	1	81.936	/	Pass



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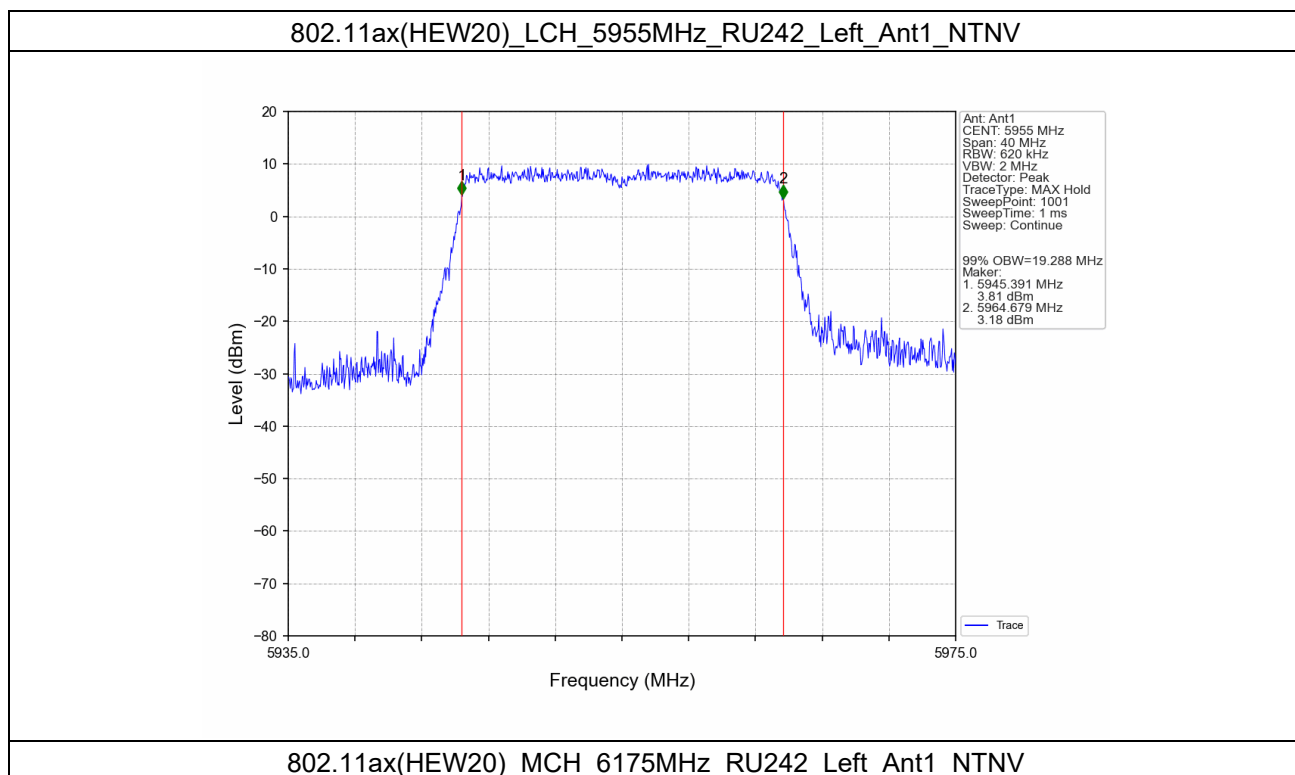
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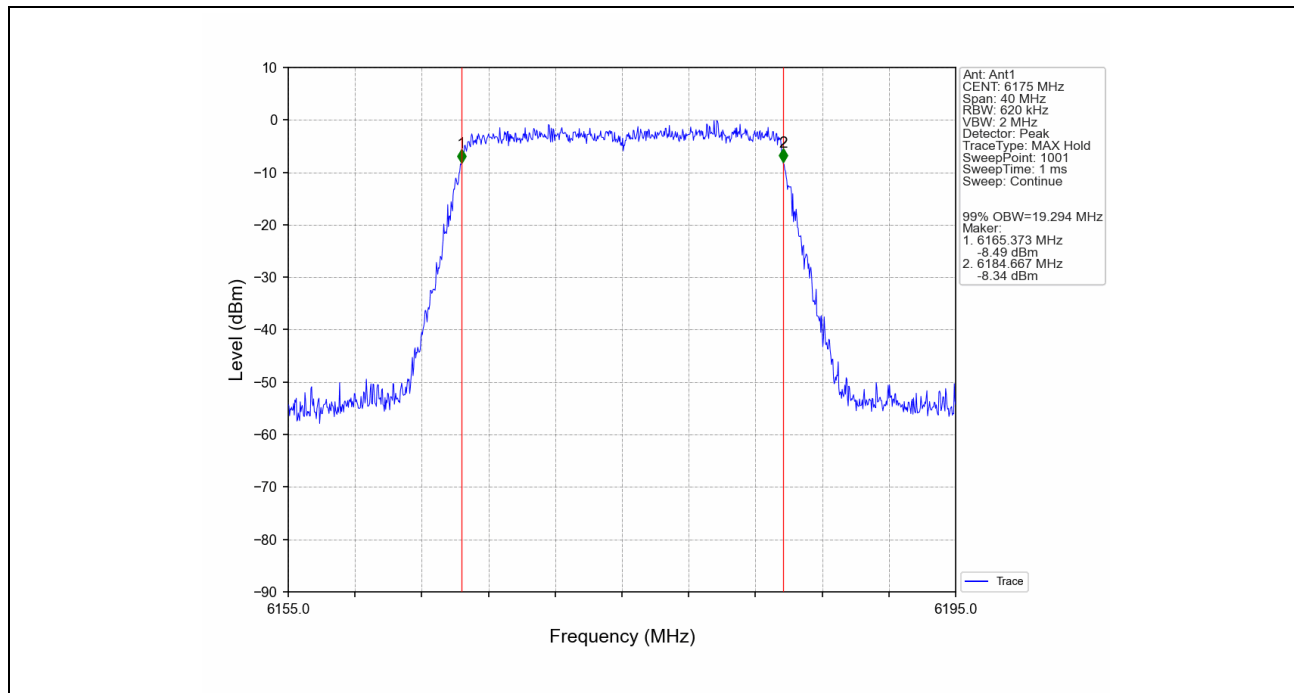
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

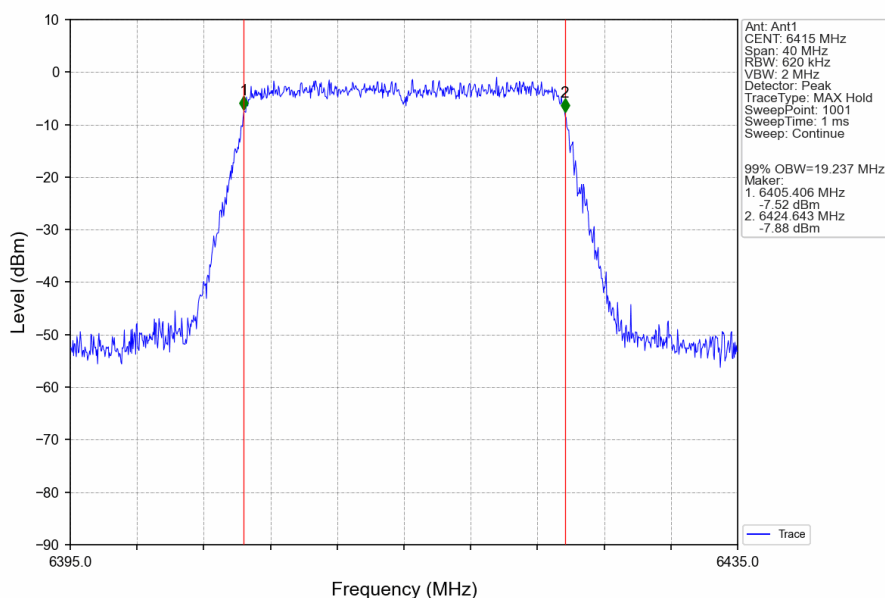
2.2 Test Graph

2.2.1 OBW

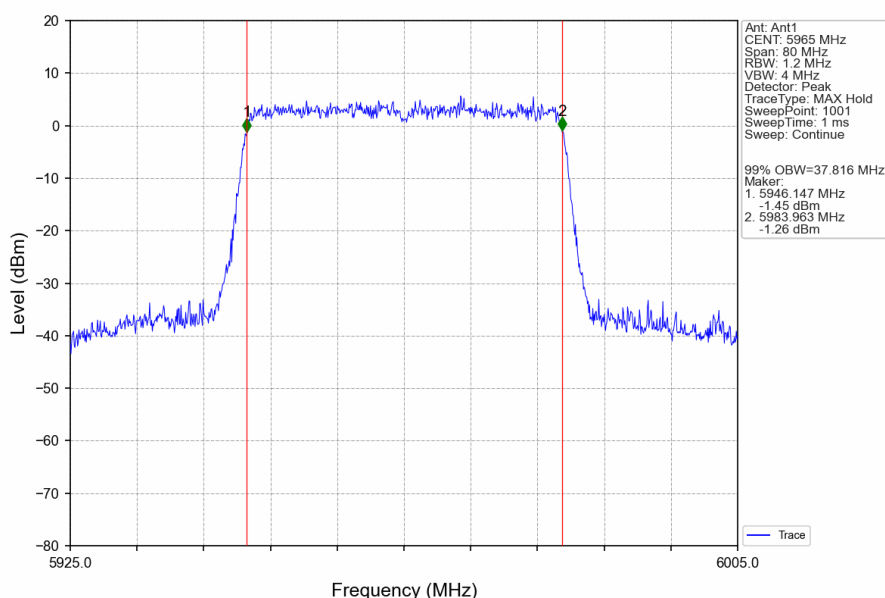




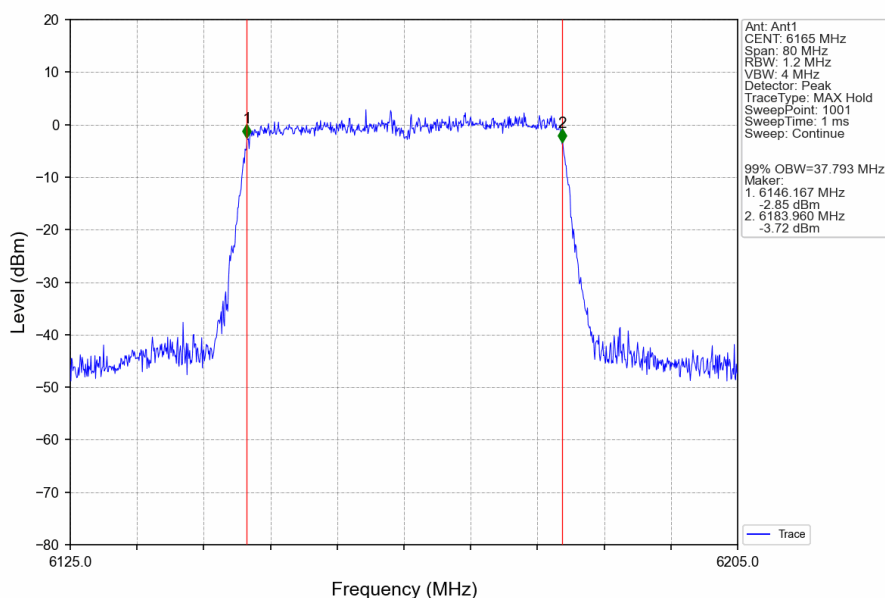
802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



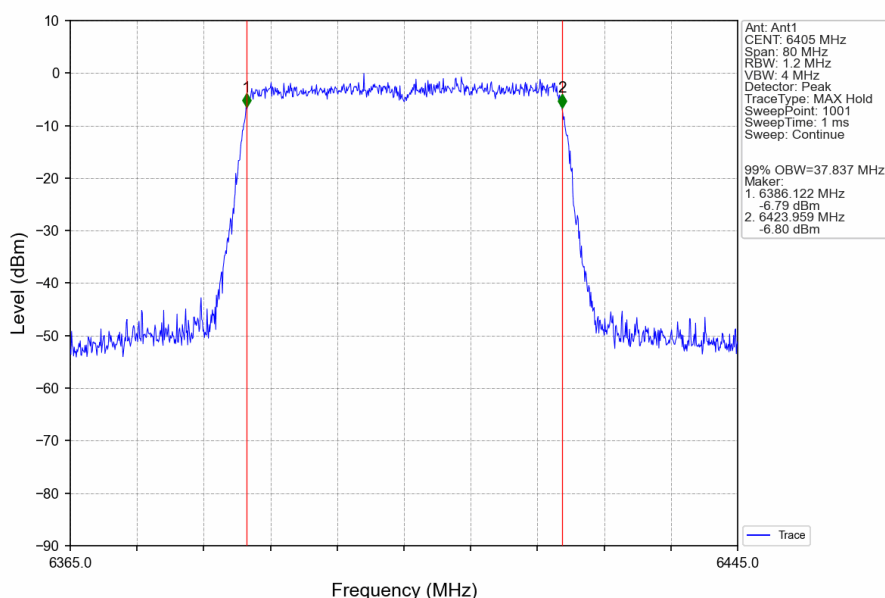
802.11ax(HEW40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



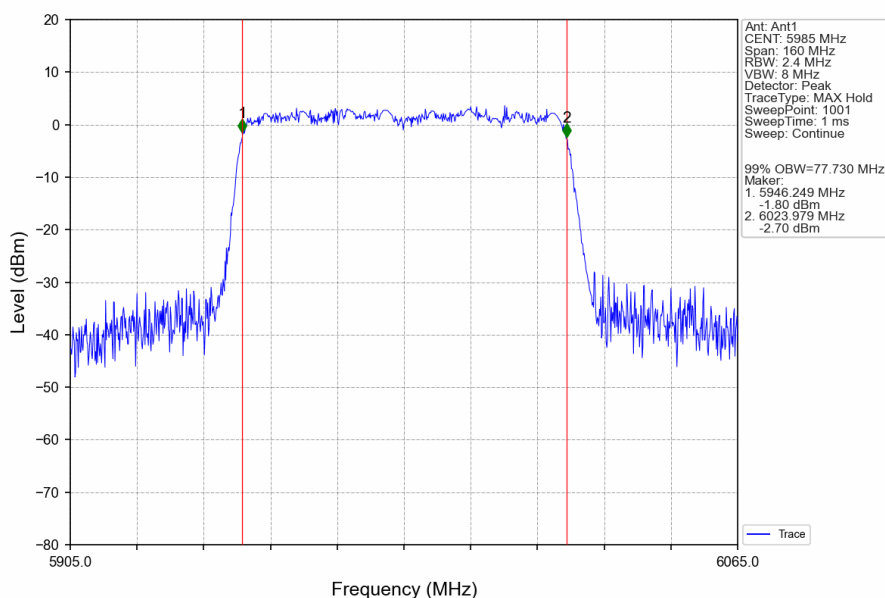
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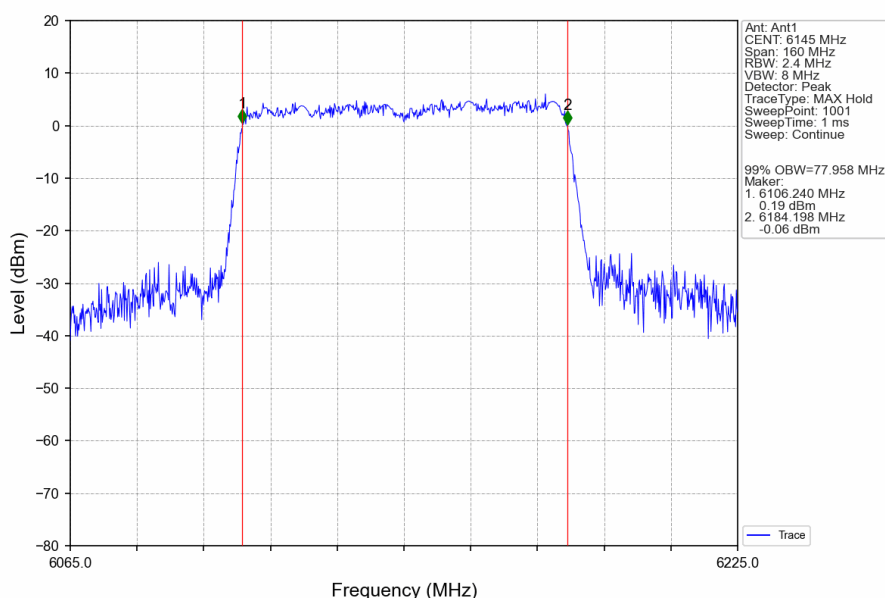
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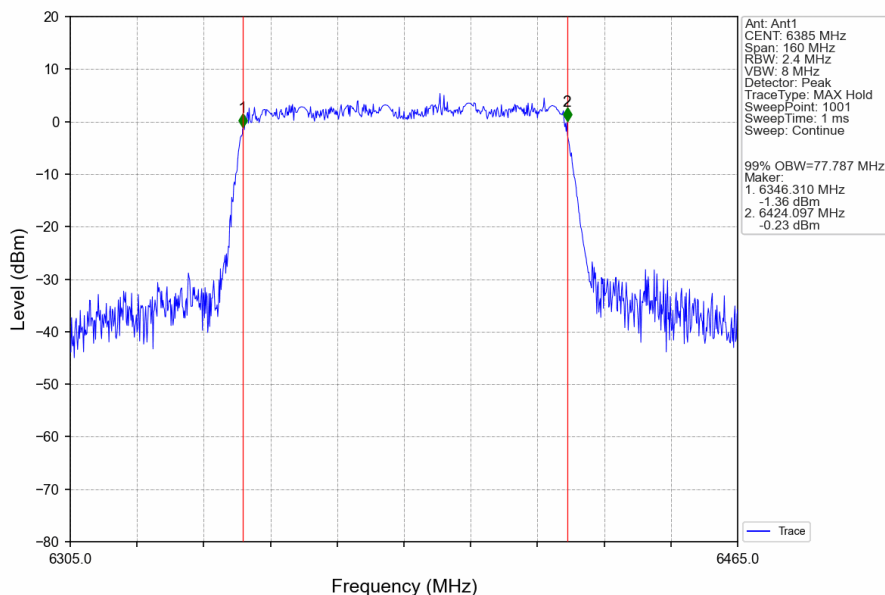
802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant1_NTNV

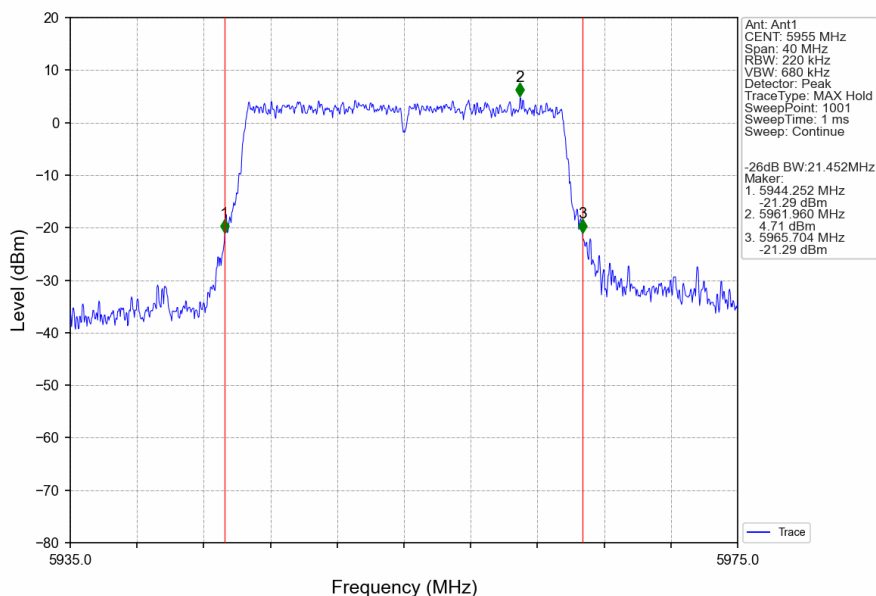


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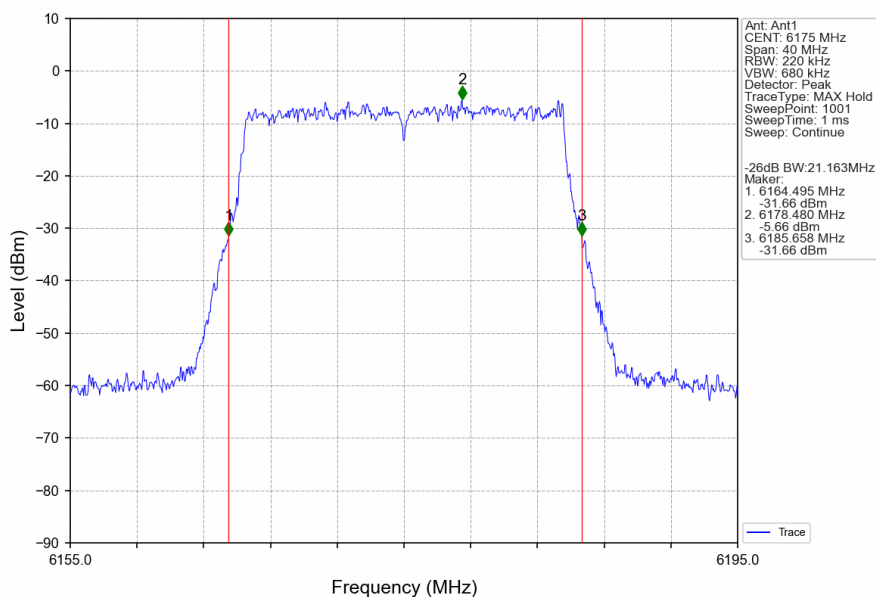


2.2.2 26dB BW

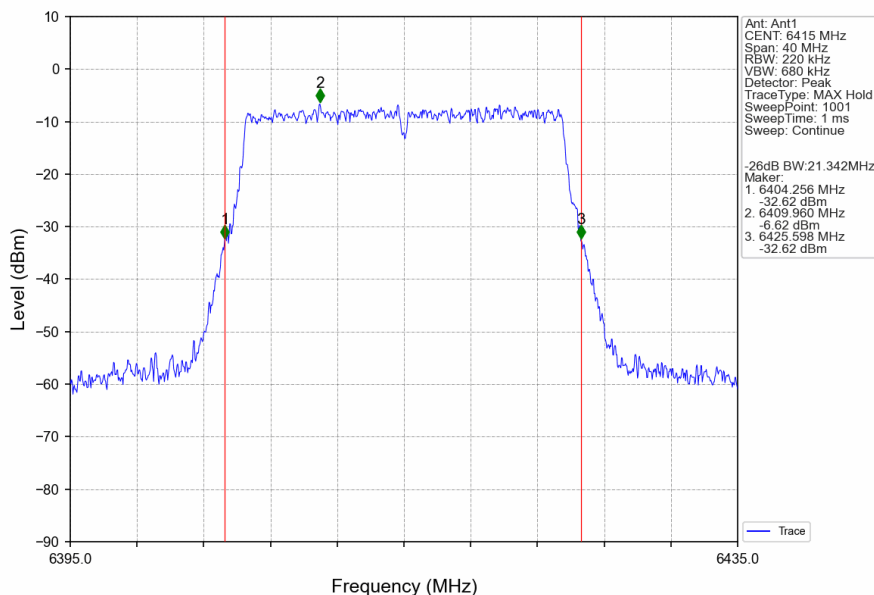
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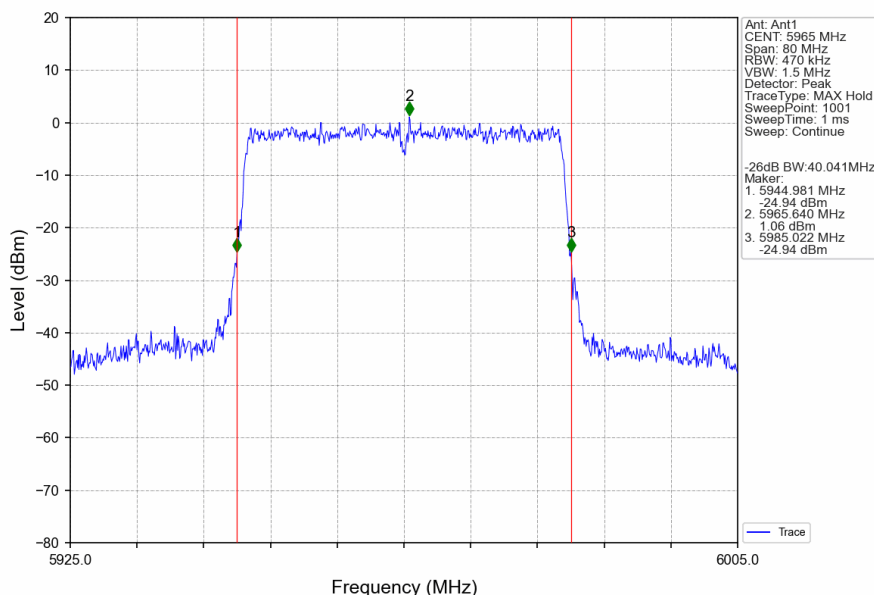
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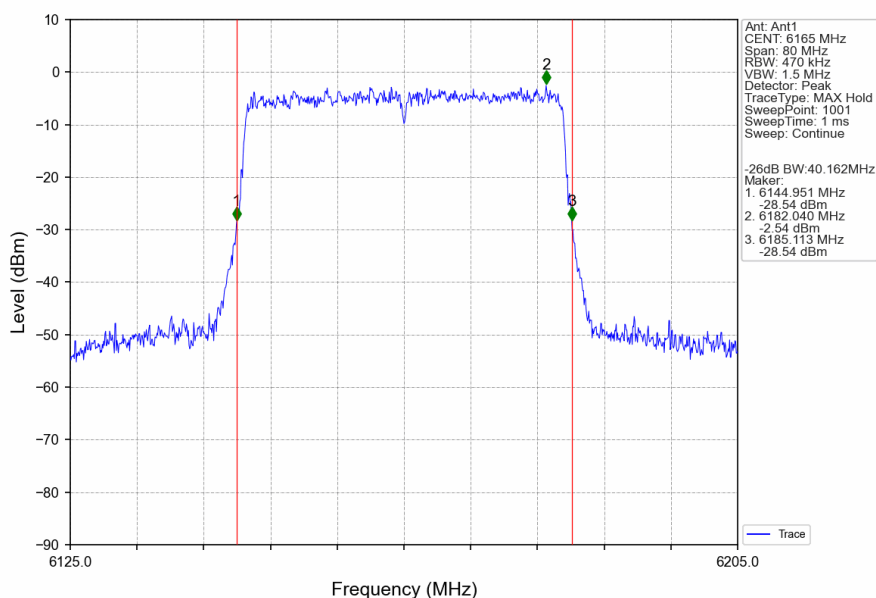
802.11ax(HEW20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



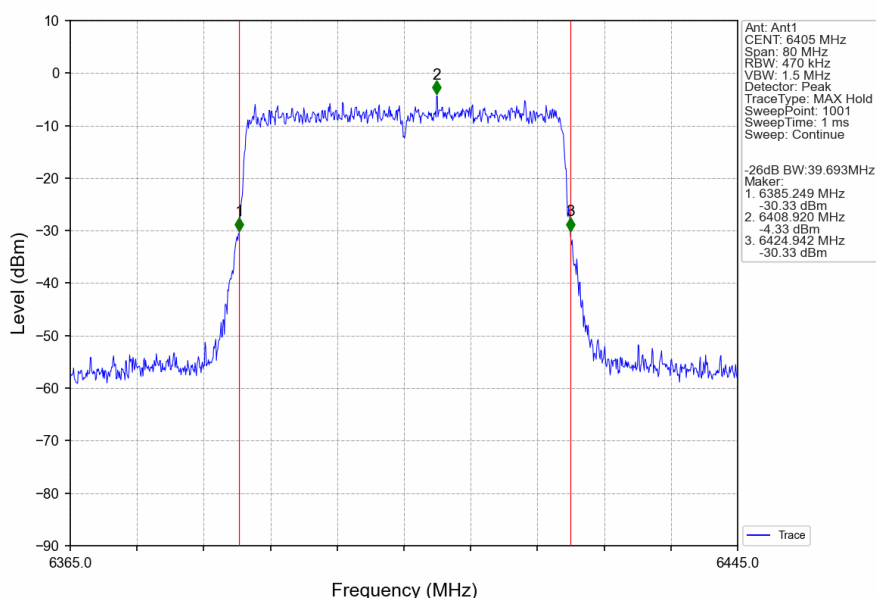
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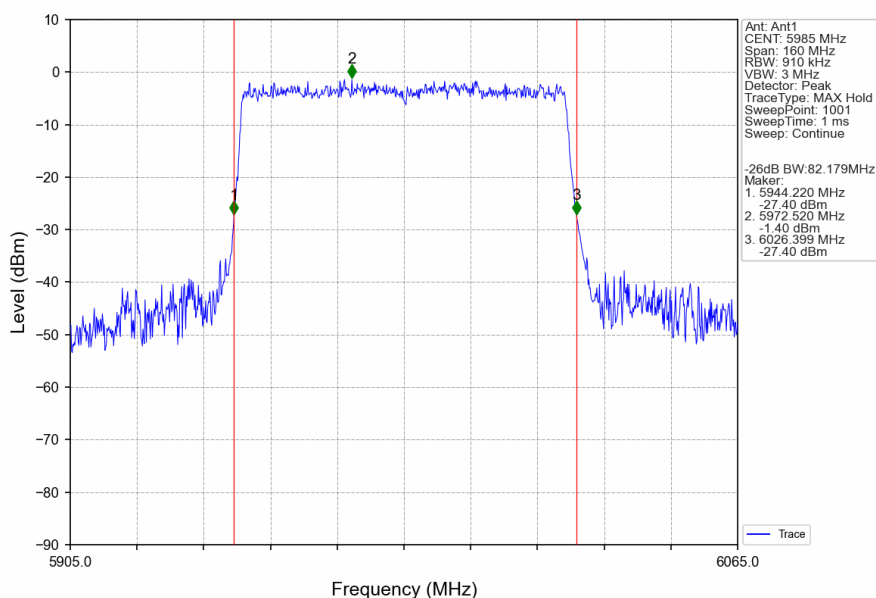
802.11ax(HEW40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_6145MHz_RU996_Left_Ant1_NTNV

