



RF TEST REPORT

Product Name: 4K Zoom Video Microscope

Model Number: CE210T, Please refer to series models for page 8.

FCC ID: 2AFO3-CE210T

Issued For : GuangZhou Ostec Electronic Technology Co.,Limited
2of No.8, West Lane,Jiangcheng Road,Bangjiang East
Village,Dalong Street,Panyu District,Guangzhou
City,Guangdong,P.R.China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT25L291RF04

Sample Received Date: Dec. 17, 2025

Date of Test: Dec. 17, 2025 ~ Feb. 11, 2026

Date of Issue: Feb. 11, 2026

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TEST REPORT CERTIFICATION

Applicant: GuangZhou Ostec Electronic Technology Co.,Limited
Address: 2of No.8, West Lane,Jiangcheng Road,Bangjiang East Village,Dalong Street,Panyu District,Guangzhou City,Guangdong,P.R.China
Manufacturer: GuangZhou Ostec Electronic Technology Co.,Limited
Address: 2of No.8, West Lane,Jiangcheng Road,Bangjiang East Village,Dalong Street,Panyu District,Guangzhou City,Guangdong,P.R.China
Product Name: 4K Zoom Video Microscope
Trademark: **KoPa**[®]
Model Number: CE210T, Please refer to series models for page 8.
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.407, Subpart E ANSI C63.10-2020	PASS

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Revision History

Rev.	Issue Date	Contents
00	Feb. 11, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Part 15.407, KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407		
FCC standard	Test Item	Results
15.207	AC Conducted Emission	PASS
15.407 (a) /15.407 (e)	26dB/6dB &99% Bandwidth	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(b)/15.205/15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS
15.407(a)	Power Spectral Density	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
15.407(d)	Contention Based Protocol	PASS
15.407(g)	Frequency Stability	PASS
15.203/15.204	Antenna Requirement	PASS

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.
- (3) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.



1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	Temperature	$\pm 0.5^{\circ}\text{C}$
10	Humidity	$\pm 2\%$
11	Duty Cycle	$\pm 2.3\%$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	4K Zoom Video Microscope	
Test Model Number:	CE210T	
Series Number:	CE310T, CE510T, CE810T, CE1210T, DF48, DB48, CF48, YF48, CA4800, CA4800-NE, CA4800-L, CA4800-Z, CA4800-OT, CA4800-LT, CA4800-LiB, TE4800, TE4800-NE, TE4800-L, TE4800-Z, TE4800-OT, TE4800-NT, TE4800-LT, HE4800, HE4800-NE, HE4800-L, HE4800-NT, HE4800-LT, JX5000-TS, JX5000-LiT, JX5000-CKX, JX5000-C, JX5000, JX5000-NE, JX5000-L, JX5000-Z, HW5000-C, HW5000, HW5000-N, HW5000-L, HW5000-Z, HD5000W-C, HD5000W, HD5000W-N, HD5000W-TS, HD5000W-TSB, HD5000W-L, HD5000W-Z, MC5000, TC50-EDU, Prime Edu SN-48, N48 PLUS-S-EDU, Prime Edu SO-48, Prime Edu SZ-48, Prime Edu SCM-48, N48 PLUS EDU, INTERVISION N48 PLUS S, INTERVISION O48 PLUS S, PrimeCam 50Pro S, INTERVISION N48, INTERVISION O48	
Model Difference:	The appearance is slightly different, but the function is exactly the same.	
Product Description	Operation Frequency:	IEEE 802.11 ax(20MHz): 6.895GHz-7.115GHz IEEE 802.11 ax(40MHz): 6.925GHz-7.085GHz IEEE 802.11 ax(80MHz): 6.945GHz-7.025GHz
	Modulation Type:	802.11 ax: OFDM-BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024QAM
	Antenna Designation:	External Antenna
	Antenna Gain	ANT 1: 1.85dBi ANT 2: 2.09dBi
	More details of EUT technical specification, please refer to the User Manual.	
Test Channel	Please refer to the Note 3.	
Adapter:	Input: AC 100-240V 50/60Hz 1.2A Max Output: DC 12.0V 5.0A 60.0W	
Hardware Version:	N/A	
Software Version:	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3. Operation Frequency of channel

IEEE 802.11 ax (20MHz)	
UNII-8	
Channel	Frequency (MHz)
189	6895
193	6915
197	6935
201	6955
205	6975
209	6995
213	7015
217	7035
221	7055
225	7075
229	7095
233	7115

802.11 ax (40MHz)	
UNII-8	
Channel	Frequency (MHz)
195	6925
203	6965
211	7005
219	7045
227	7085

802.11 ax (80MHz)	
UNII-8	
Channel	Frequency (MHz)
199	6945
215	7025

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

802.11 ax (20MHz)	
UNII-8	
Channel	Frequency (MHz)
189	6895
209	6995
233	7115

802.11 ax (40MHz)	
UNII-8	
Channel	Frequency (MHz)
195	6925
211	7005
227	7085



802.11 ax (80MHz)	
UNII-8	
Channel	Frequency (MHz)
199	6945
215	7025

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11ax HE20 CH189&CH209&CH233	NSS1 MCS0
Mode 2	TX IEEE 802.11ax HE40 CH195&CH211&CH227	NSS1 MCS0
Mode 3	TX IEEE 802.11ax HE80 CH199&CH215	NSS1 MCS0

- Note: (1) The measurements are performed at the highest, middle, lowest available channels.
 (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
 (3) We have been tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
 (4) The battery is fully-charged during the radiated and RF conducted test.
 (5) All bandwidth modes have been tested, and the report only shown the worst mode data.
 (6) The 802.11ax mode is investigated among different tones (26/52/106/242-tone RU channel), full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 4: TX Mode

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: WIFI 6E		
CMD Command	Mode Or Modulation type	SISO Power setting	MIMO Power setting
	ax20(Except for 7115MHz)	6	3
	ax20(Only 7115MHz)	-20	-21
	ax40	10	7
	ax80	14	12



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Shenzhen Sunshine Technological Co.,Ltd.	XSI-1205000W C14	N/A	Input: AC 100-240V 50/60Hz 1.2A Max Output: DC 12.0V 5.0A 60.0W

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	ASUS	UX3407Q	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” means “with core”; “NO” means “without core”.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600 -NMNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025.10.20	2026.10.19
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241 -05000KMSKMS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Power Sensor	R&S	NRP8S	104963	2025.03.06	2026.03.05
RF Automatic Test system	TST	TST PASS	293	2025.07.15	2026.07.14
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05
Testing Software	TST Pass_2.0.2				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

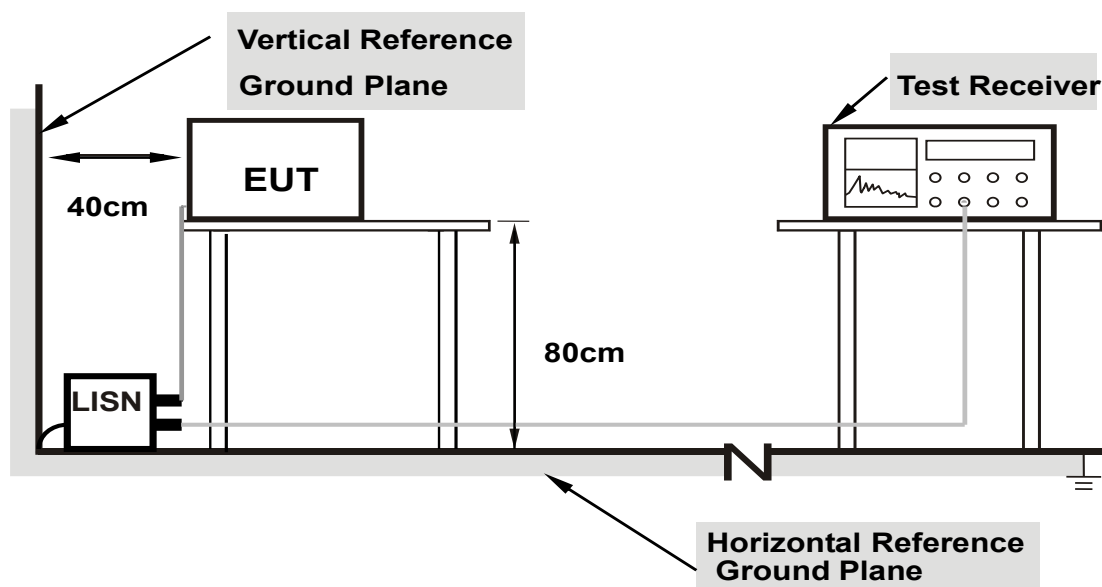
3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

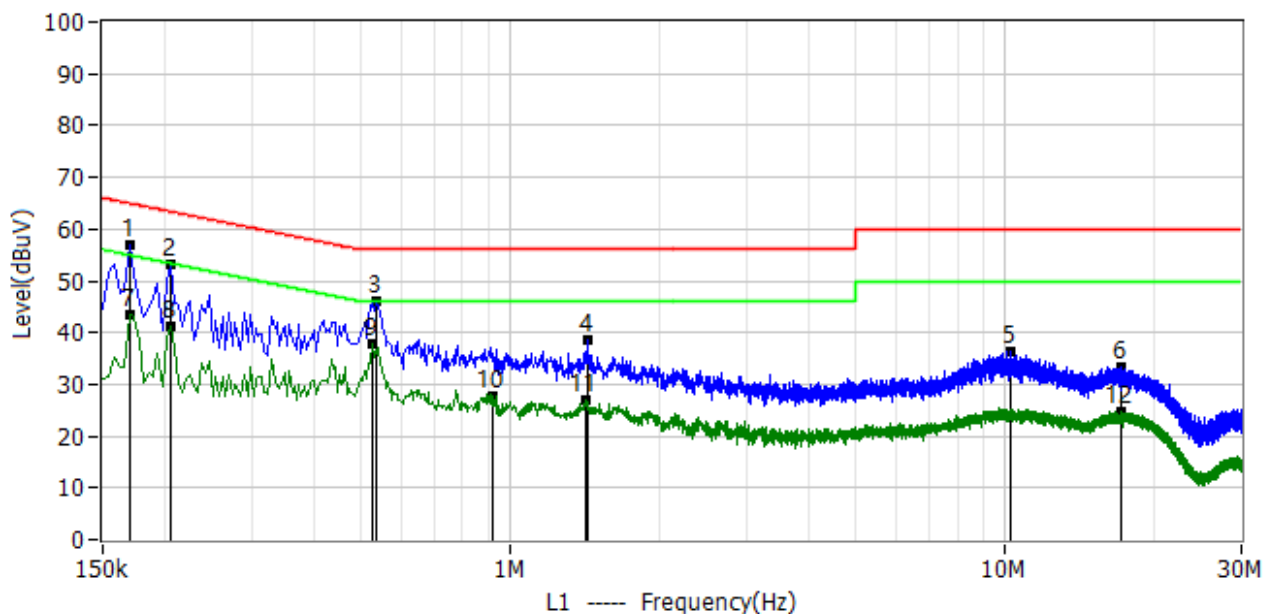


3.1.6 TEST RESULTS

Note: Level = Reading + Factor

Margin = Level – Limit

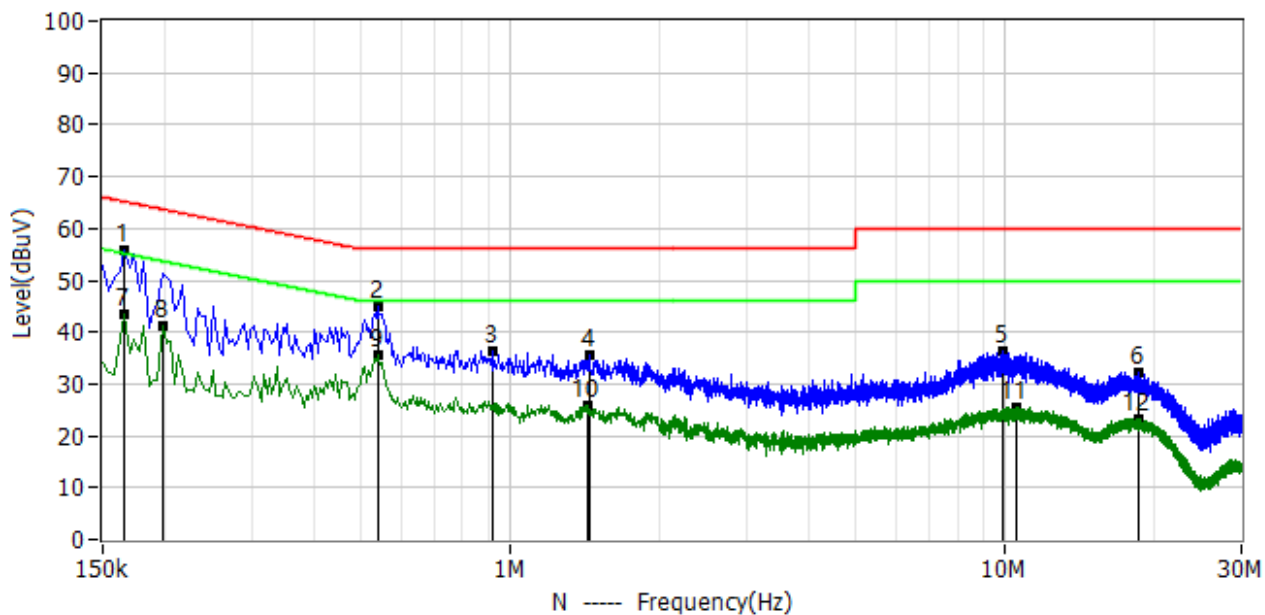
Project: LGT25L291	Test Engineer: LiuH
EUT: 4K Zoom Video Microscope	Temperature: 25.1°C
M/N: CE210T	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-12-19
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.170	46.27	10.63	56.90	64.96	-8.06	QP	L1
2*	0.206	42.41	10.73	53.14	63.37	-10.23	QP	L1
3*	0.534	35.11	10.94	46.05	56.00	-9.95	QP	L1
4*	1.438	27.33	11.12	38.45	56.00	-17.55	QP	L1
5*	10.294	24.81	11.51	36.32	60.00	-23.68	QP	L1
6*	17.078	21.72	11.77	33.49	60.00	-26.51	QP	L1
7*	0.170	32.73	10.63	43.36	54.96	-11.60	AV	L1
8*	0.206	30.33	10.73	41.06	53.37	-12.31	AV	L1
9*	0.526	27.03	10.93	37.96	46.00	-8.04	AV	L1
10*	0.922	16.87	10.87	27.74	46.00	-18.26	AV	L1
11*	1.426	15.86	11.12	26.98	46.00	-19.02	AV	L1
12*	17.110	13.01	11.77	24.78	50.00	-25.22	AV	L1



Project: LGT25L291	Test Engineer: LiuH
EUT: 4K Zoom Video Microscope	Temperature: 25.1°C
M/N: CE210T	Humidity: 47%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-12-19
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.166	45.19	10.64	55.83	65.16	-9.33	QP	N
2*	0.538	33.98	10.85	44.83	56.00	-11.17	QP	N
3*	0.918	25.35	10.84	36.19	56.00	-19.81	QP	N
4*	1.446	24.43	11.07	35.50	56.00	-20.50	QP	N
5*	9.870	24.81	11.50	36.31	60.00	-23.69	QP	N
6*	18.674	20.41	11.75	32.16	60.00	-27.84	QP	N
7*	0.166	32.91	10.64	43.55	55.16	-11.61	AV	N
8*	0.198	30.50	10.69	41.19	53.69	-12.50	AV	N
9*	0.538	24.79	10.85	35.64	46.00	-10.36	AV	N
10*	1.430	14.80	11.06	25.86	46.00	-20.14	AV	N
11*	10.498	14.01	11.51	25.52	50.00	-24.48	AV	N
12*	18.670	11.53	11.75	23.28	50.00	-26.72	AV	N



3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7&15.205/209(a), then the limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	68.2	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

Note: In case the emission radiated emission above 1000MHz fall within the restricted band the restricted frequency bands, the peak limit is 74 dBuV/m.



Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic (Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

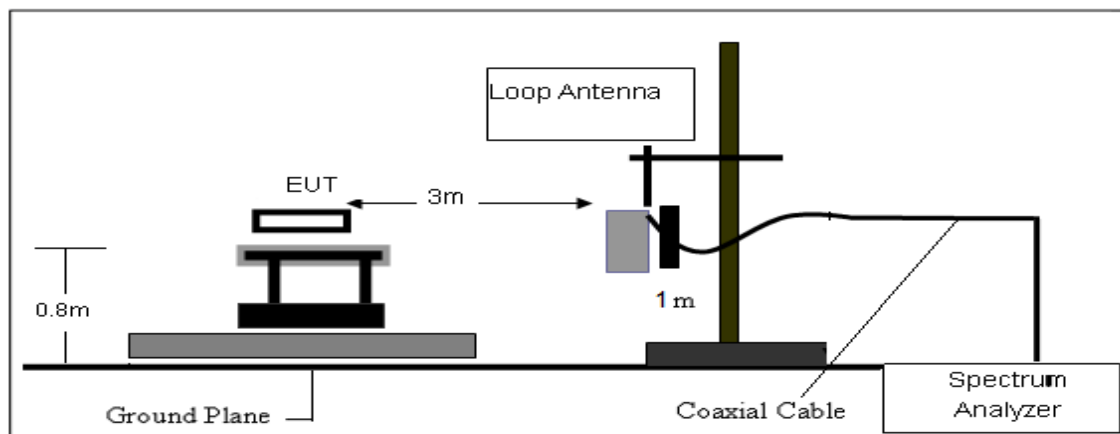
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.2 DEVIATION FROM TEST STANDARD

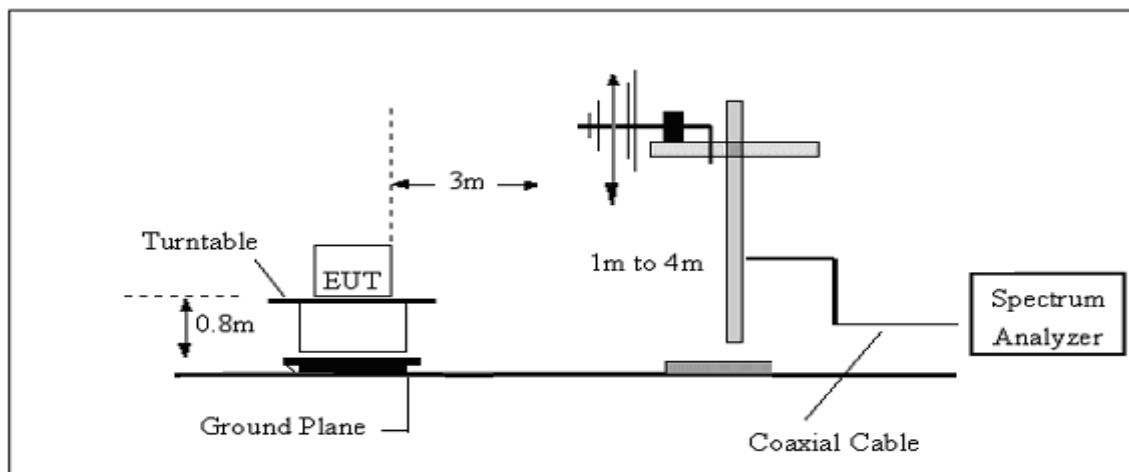
No deviation

3.2.3 TEST SETUP

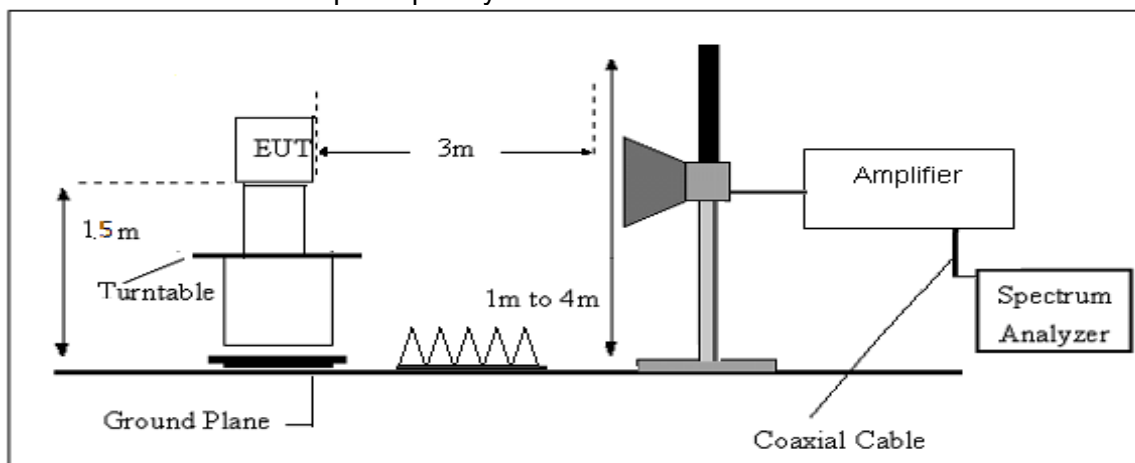
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULTS

Results of Radiated Emissions (9 KHz~30MHz)

No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Remark
1*	-	-	-	-	-	-	-	See Note

Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



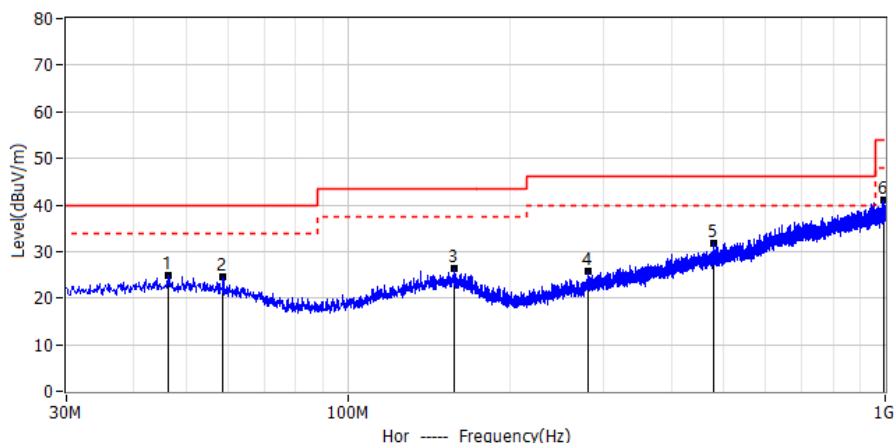
Results of Radiated Emissions (30MHz~1000MHz)

Note: 1. All mode has been tested, only shown the worst case data.

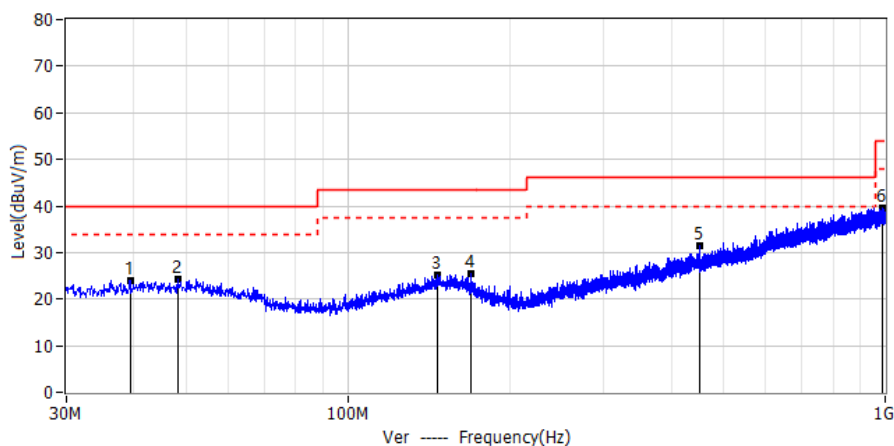
2. Level = Reading + Factor

Margin = Level – Limit

Project: LGT25L291	Test Engineer: zhangyangda
EUT: 4K Zoom Video Microscope	Temperature: 23.0°C
M/N: CE210T	Humidity: 56%RH
Test Voltage: AC 120V/60Hz	Test Data: 2025-12-23
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	46.490	4.22	20.71	24.93	40.00	-15.07	QP	Hor
2*	58.736	4.74	19.85	24.59	40.00	-15.41	QP	Hor
3*	157.798	4.14	22.11	26.25	43.50	-17.25	QP	Hor
4*	279.775	4.34	21.49	25.83	46.00	-20.17	QP	Hor
5*	478.504	4.71	27.20	31.91	46.00	-14.09	QP	Hor
6*	994.059	5.86	35.04	40.90	54.00	-13.10	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	39.458	3.89	20.18	24.07	40.00	-15.93	QP	Ver
2*	48.430	3.48	20.75	24.23	40.00	-15.77	QP	Ver
3*	147.249	3.29	22.00	25.29	43.50	-18.21	QP	Ver
4*	169.559	4.06	21.27	25.33	43.50	-18.17	QP	Ver
5*	452.799	4.76	26.63	31.39	46.00	-14.61	QP	Ver
6*	989.694	4.60	35.06	39.66	54.00	-14.34	QP	Ver



Results of Radiated Emissions (Above 1000MHz)

Note:1. All mode has been tested, only shown the worst case data.

UNII-8(6.875-7.125) GHz							
Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (802.11/ 6895 MHz)							
3989.28	52.96	-6.89	46.07	74.00	-27.93	PK	Vertical
3989.28	42.29	-6.89	35.40	54.00	-18.60	AV	Vertical
3986.44	52.98	-6.89	46.09	74.00	-27.91	PK	Horizontal
3986.44	42.44	-6.89	35.55	54.00	-18.45	AV	Horizontal
8912.35	54.24	-3.80	50.44	68.20	-17.76	PK	Vertical
8912.35	44.11	-3.80	40.31	54.00	-13.69	AV	Vertical
8926.04	53.21	-3.80	49.41	68.20	-18.79	PK	Horizontal
8926.04	43.60	-3.80	39.80	54.00	-14.20	AV	Horizontal
13778.59	55.12	-0.52	54.60	68.20	-13.60	PK	Vertical
13778.59	44.52	-0.52	44.00	54.00	-10.00	AV	Vertical
13784.54	55.31	-0.52	54.79	68.20	-13.41	PK	Horizontal
13784.54	44.07	-0.52	43.55	54.00	-10.45	AV	Horizontal
15241.64	53.58	5.91	59.49	68.20	-8.71	PK	Vertical
15241.64	43.85	5.91	49.76	54.00	-4.24	AV	Vertical
15244.74	54.68	5.91	60.59	68.20	-7.61	PK	Horizontal
15244.74	43.57	5.91	49.48	54.00	-4.52	AV	Horizontal
Mid Channel (802.11/ 6995 MHz)							
3998.78	53.19	-6.89	46.30	74.00	-27.70	PK	Vertical
3998.78	42.67	-6.89	35.78	54.00	-18.22	AV	Vertical
3989.20	53.42	-6.89	46.53	74.00	-27.47	PK	Horizontal
3989.20	42.20	-6.89	35.31	54.00	-18.69	AV	Horizontal
8916.37	53.07	-3.80	49.27	68.20	-18.93	PK	Vertical
8916.37	43.57	-3.80	39.77	54.00	-14.23	AV	Vertical
8924.21	53.97	-3.80	50.17	68.20	-18.03	PK	Horizontal
8924.21	43.82	-3.80	40.02	54.00	-13.98	AV	Horizontal
13984.85	56.39	-0.52	55.87	68.20	-12.33	PK	Vertical
13984.85	44.03	-0.52	43.51	54.00	-10.49	AV	Vertical
13973.94	55.19	-0.52	54.67	68.20	-13.53	PK	Horizontal
13973.94	44.63	-0.52	44.11	54.00	-9.89	AV	Horizontal
15239.13	54.42	5.91	60.33	68.20	-7.87	PK	Vertical
15239.13	44.22	5.91	50.13	54.00	-3.87	AV	Vertical
15240.33	54.52	5.91	60.43	68.20	-7.77	PK	Horizontal



15240.33	44.80	5.91	50.71	54.00	-3.29	AV	Horizontal
High Channel (802.11/ 7115 MHz)							
3989.65	52.77	-6.89	45.88	74.00	-28.12	PK	Vertical
3989.65	43.28	-6.89	36.39	54.00	-17.61	AV	Vertical
3989.29	53.25	-6.89	46.36	74.00	-27.64	PK	Horizontal
3989.29	42.48	-6.89	35.59	54.00	-18.41	AV	Horizontal
8911.64	53.97	-3.80	50.17	68.20	-18.03	PK	Vertical
8911.64	43.34	-3.80	39.54	54.00	-14.46	AV	Vertical
8913.65	54.49	-3.80	50.69	68.20	-17.51	PK	Horizontal
8913.65	43.62	-3.80	39.82	54.00	-14.18	AV	Horizontal
14221.31	55.46	-0.52	54.94	68.20	-13.26	PK	Vertical
14221.31	44.61	-0.52	44.09	54.00	-9.91	AV	Vertical
14230.09	55.43	-0.52	54.91	68.20	-13.29	PK	Horizontal
14230.09	45.21	-0.52	44.69	54.00	-9.31	AV	Horizontal
15253.66	53.65	5.91	59.56	68.20	-8.64	PK	Vertical
15253.66	44.61	5.91	50.52	54.00	-3.48	AV	Vertical
15241.13	53.78	5.91	59.69	68.20	-8.51	PK	Horizontal
15241.13	44.40	5.91	50.31	54.00	-3.69	AV	Horizontal

Remark:

In frequency ranges 18~40GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.



3.2.7 TEST RESULTS(Band edge Requirements)

Note: N/A.



4. BANDWIDTH MEASUREMENT

4.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES/LIMIT

The maximum transmitter channel bandwidth for UNII devices in the 5.925-5.7125GHz band is 320MHz.

4.2 TEST PROCEDURE

26dB Bandwidth

1. Set RBW=approximately 1% of the emission bandwidth.
2. Set the VBW $\geq$ RBW.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

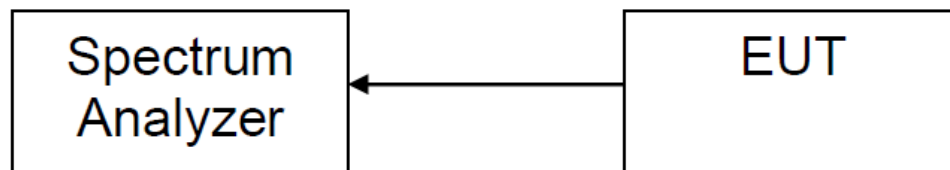
Occupied Bandwidth

- 1.Set RBW=1% to 5% of the OBW.
- 2 Set VBW $\geq$ 3RBW
- 3.Sample detection and single sweep modes shall be used
- 4.Use the 99% power bandwidth function of the instrument.

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

For the measurement records, refer to the appendix I.



5. MAXIMUM CONDUCTED OUTPUT POWER

5.1 LIMIT

Frequency Band	Operating Mode	Maximum EIRP Limit
5925-7125MHz	☒ Indoor access point	30
	☐ Subordinate Device	30
	☐ Client device	24

5.2 TEST PROCEDURE

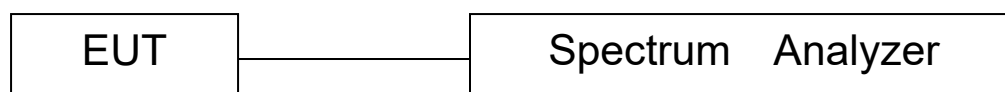
Spectrum analyzer (For channel that extends across the 6.525/ 6.825G boundary)

1. Set RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector=RMS.
2. Trace average at least 100 trace in power averaging mode.
3. Compute power by integrating the spectrum across the 26dB EBW
4. Add $10 \log(1/X)$, X: Duty cycle if duty cycle is <98%
5. EIRP=Measured conducted power+Antenna

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

For the measurement records, refer to the appendix I.



6. PEAK POWER SPECTRAL DENSITY

6.1 LIMIT

Frequency Band	Operating Mode	Maximum EIRP Limit
5925-7125MHz	☒ Indoor access point	30
	☐ Subordinate Device	30
	☐ Client device	24

6.2 TEST PROCEDURES

Duty cycle $\geq 98\%$

1. Set RBW=1MHz/VBW=3MHz, Sweeptime=auto Detector=RMS
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level
4. EIRPPSD=Measured conducted power density+Antenna gain

Duty cycle < 98%

1. Set RBW=1MHz/VBW=3MHz Detector=RMS
2. Set sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level
5. Add $10\log(1/x)$ where x is the duty cycle.
6. EIRP PSD=Measured conducted power density+Antenna gain.

6.3 TEST RESULTS

For the measurement records, refer to the appendix I.



7. IN-BAND EMISSIONS

7.1 LIMIT

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

7.2 TEST PROCEDURES

1. Connect output of the antenna port to a spectrum analyzer
2. Set the reference level of the measuring equipment
3. Measure the 26 dB EBW
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal
 - b) Set RBW=same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3X$ RBW
 - d) Number of points in sweep $\geq [2X \text{ span/RBW}]$
 - e) Sweep time=auto.
 - f) Detector=RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum
5. For the purposes of developing the emission mask the channel bandwidth is defined as the 26 dB EBW
the power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency)
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center
7. Adjust the span to encompass the entire mask as necessary
8. Clear trace
9. Trace average at least 100 traces in power averaging (rms) mode
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

7.3 TEST RESULTS

For the measurement records, refer to the appendix I.



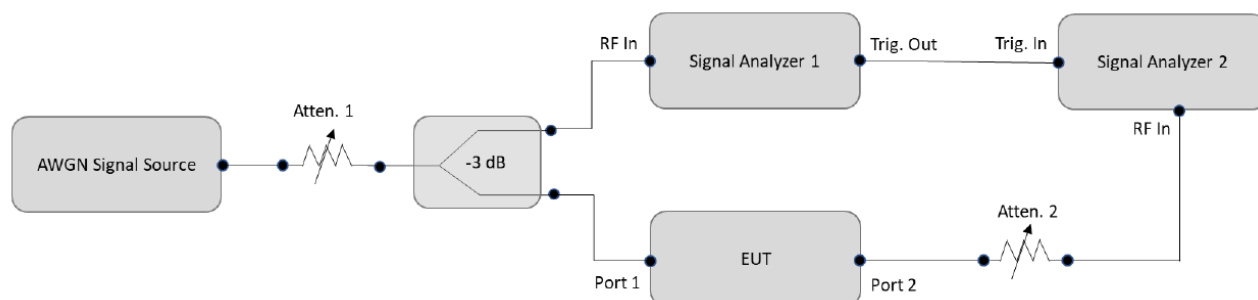
8. CONTENTION BASED PROTOCOL

8.1 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)¹. 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.

8.2 TEST PROCEDURES



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

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



8.3 TEST RESULTS

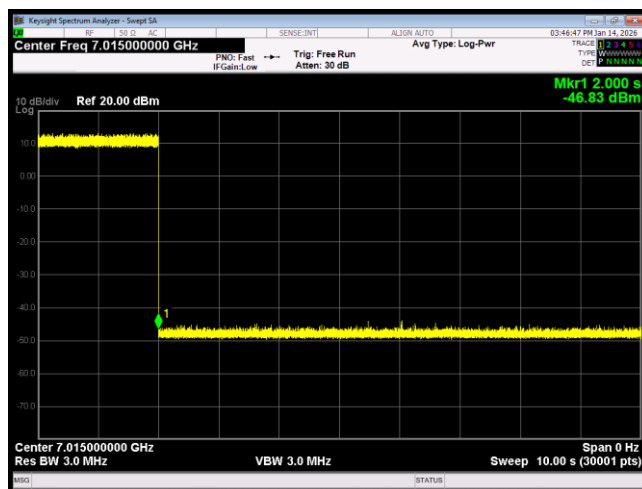
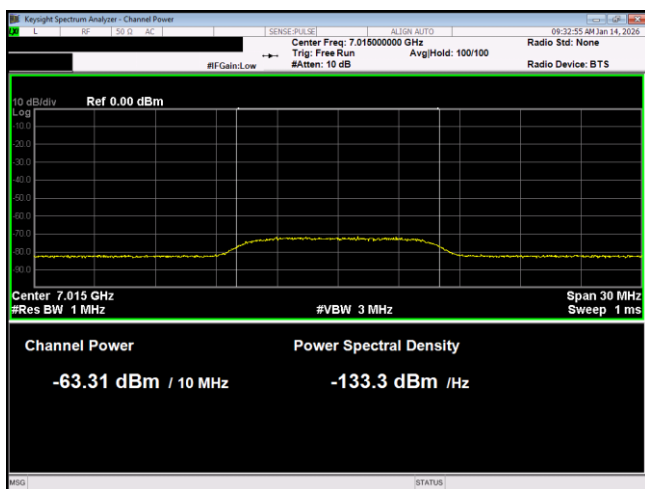
Bandwidth	Antenna	Channel	AWGN Frequency (MHz)	EUT Status	Detection Rate (%)	Injected AWGN Level (dBm)	Antenna Gain (dBi)	Adjusted Power (dBm)	Limit (dBm)	Verdict
ax20	Ant 2	7015	7015	OFF	100	-63.08 (Worst)	2.09	-65.47	-62	PASS
				Minimal	< 90	-70.33	2.09	-72.42	-62	PASS
				ON	0	-83.70	2.09	-85.79	-62	PASS
ax80	Ant 2	6945	6910	OFF	100	-63.38	2.09	-65.17	-62	PASS
				Minimal	< 90	-70.69	2.09	-72.78	-62	PASS
				ON	0	-83.94	2.09	-86.03	-62	PASS
			6945	OFF	100	-63.48	2.09	-65.57	-62	PASS
				Minimal	< 90	-70.42	2.09	-72.51	-62	PASS
				ON	0	-83.91	2.09	-86.00	-62	PASS
			6980	OFF	100	-63.54	2.09	-65.63	-62	PASS
				Minimal	< 90	-70.88	2.09	-72.97	-62	PASS
				ON	0	-83.72	2.09	-85.81	-62	PASS

Contention Based Protocol Result on U-NII (AWGN Interference)

802.11 ax (HE20)6505MHzThreshold Level (TL)

802.11 ax (HE20)/7015MHz
Threshold Level (TL)

802.11 ax (HE20)/7015MHz
Test Result is pass due to no transmission occur





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

The EUT antenna is External Antenna with RP-SMA connector. It comply with the standard requirement.



APPENDIX I:TEST RESULTS

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)	SISO	6895	SU	/	2.994	3.142	95.29	0.21	0.03
			6995	SU	/	2.994	3.142	95.29	0.21	0.03
			7115	SU	/	2.994	3.142	95.29	0.21	0.03
	802.11ax (HEW40)	SISO	6925	SU	/	2.455	2.603	94.31	0.25	0.03
			7005	SU	/	2.456	2.604	94.32	0.25	0.03
			7085	SU	/	2.455	2.603	94.31	0.25	0.03
	802.11ax (HEW80)	SISO	6945	SU	/	0.427	0.576	74.13	1.30	0.03
			7025	SU	/	0.427	0.576	74.13	1.30	0.03
	802.11ax (HEW20)	MIMO	6895	SU	/	2.994	3.142	95.29	0.21	0.03
			6995	SU	/	2.993	3.141	95.29	0.21	0.03
			7115	SU	/	2.993	3.141	95.29	0.21	0.00
	802.11ax (HEW40)	MIMO	6925	SU	/	2.455	2.603	94.31	0.25	0.03
			7005	SU	/	2.456	2.604	94.32	0.25	0.04
			7085	SU	/	2.455	2.603	94.31	0.25	0.03
	802.11ax (HEW80)	MIMO	6945	SU	/	0.426	0.576	73.96	1.31	0.03
			7025	SU	/	0.426	0.576	73.96	1.31	0.03

1.1.2 Ant2

Ant2										
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)	SISO	6895	SU	/	2.993	3.142	95.26	0.21	0.03
			6995	SU	/	2.993	3.143	95.23	0.21	0.03
			7115	SU	/	2.993	3.143	95.23	0.21	0.03
	802.11ax (HEW40)	SISO	6925	SU	/	2.455	2.604	94.28	0.26	0.07
			7005	SU	/	2.456	2.604	94.32	0.25	0.04
			7085	SU	/	2.455	2.603	94.31	0.25	0.03
	802.11ax (HEW80)	SISO	6945	SU	/	0.427	0.577	74.00	1.31	0.05
			7025	SU	/	0.427	0.576	74.13	1.30	0.03
	802.11ax (HEW20)	MIMO	6895	SU	/	2.993	3.142	95.26	0.21	0.03
			6995	SU	/	2.993	3.141	95.29	0.21	0.03



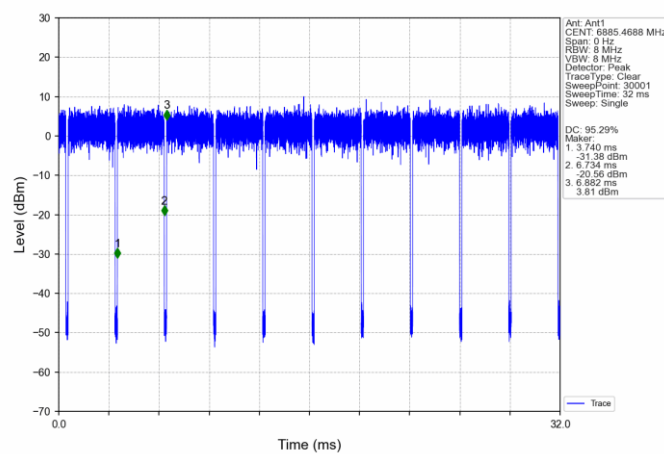
			7115	SU	/	2.993	3.143	95.23	0.21	0.03
	802.11ax (HEW40)	MIMO	6925	SU	/	2.454	2.604	94.24	0.26	0.07
			7005	SU	/	2.455	2.604	94.28	0.26	0.07
			7085	SU	/	2.456	2.604	94.32	0.25	0.04
	802.11ax (HEW80)	MIMO	6945	SU	/	0.427	0.576	74.13	1.30	0.03
			7025	SU	/	0.427	0.576	74.13	1.30	0.00



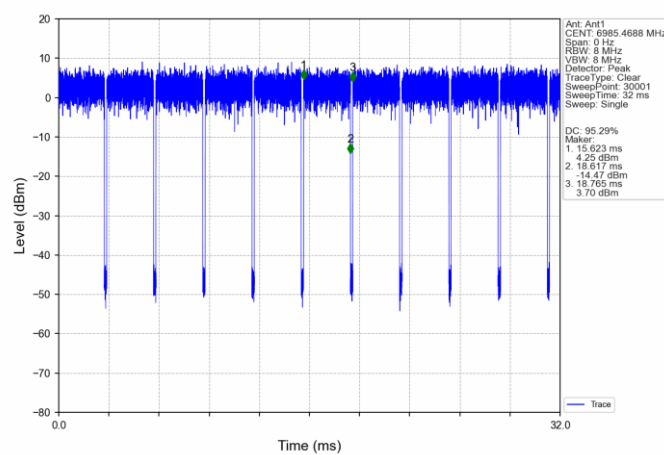
1.2 Test Graph

1.2.1 Ant1

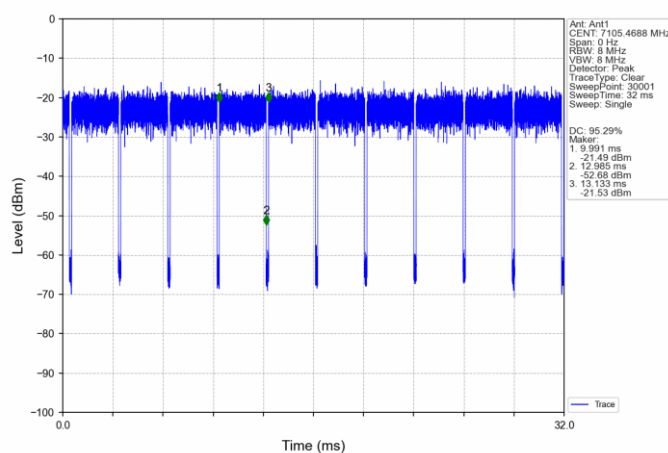
802.11ax(HEW20)_LCH_6895MHz_SU_ / _Ant1_NTNV



802.11ax(HEW20)_MCH_6995MHz_SU_ / _Ant1_NTNV

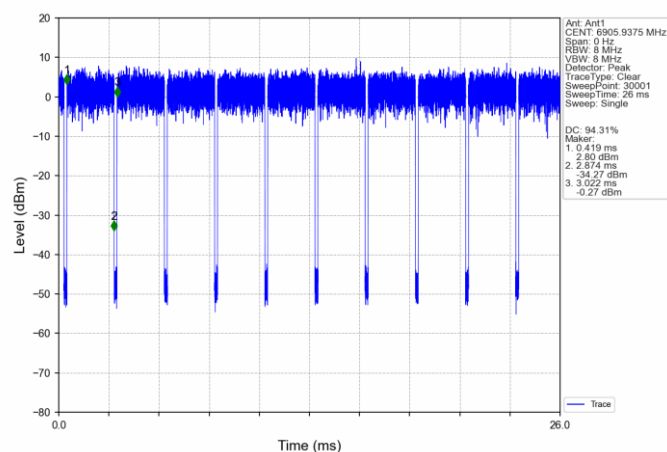


802.11ax(HEW20)_HCH_7115MHz_SU_ / _Ant1_NTNV

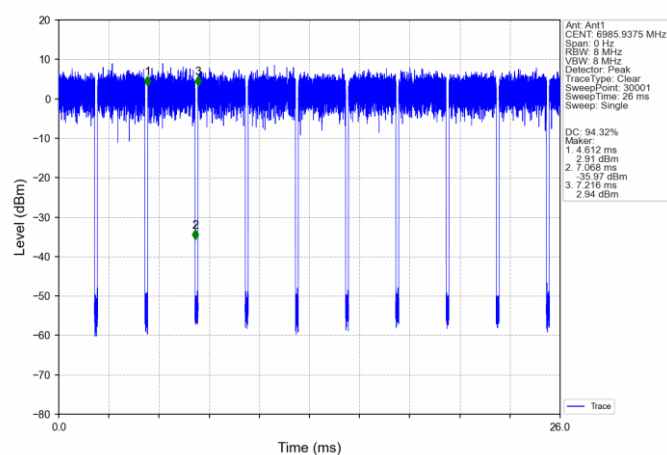




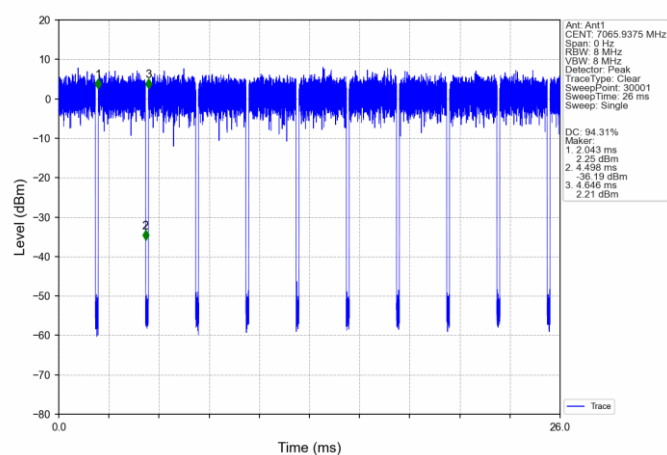
802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant1_NTNV



802.11ax(HEW40)_MCH_7005MHz_SU_ / Ant1_NTNV

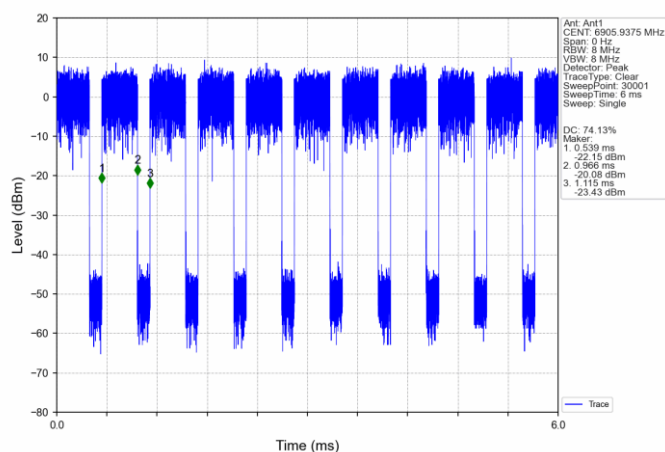


802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant1_NTNV

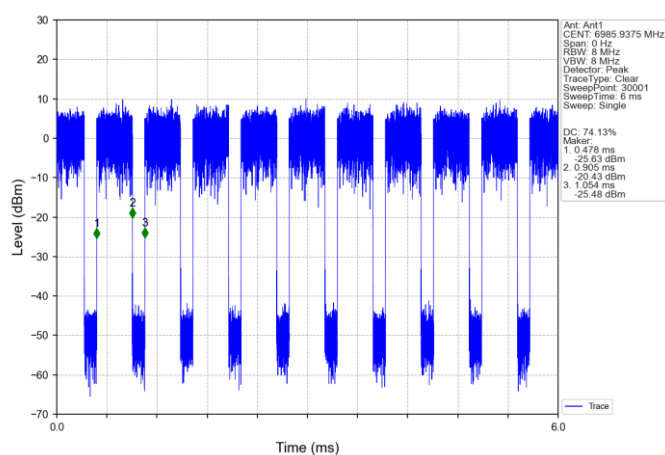




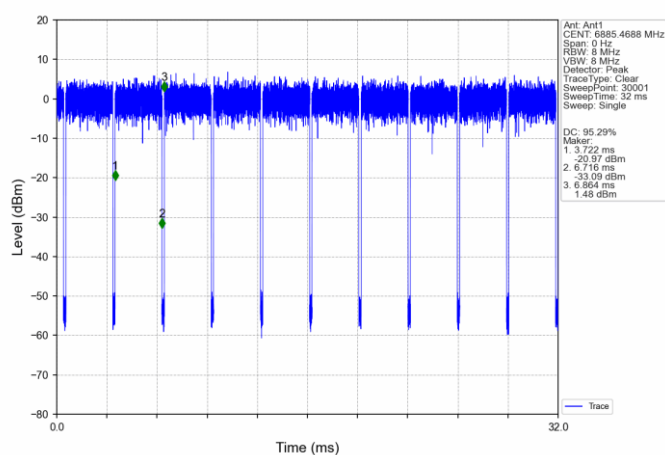
802.11ax(HEW80)_LCH_6945MHz_SU_ / Ant1_NTNV



802.11ax(HEW80)_HCH_7025MHz_SU_ / Ant1_NTNV

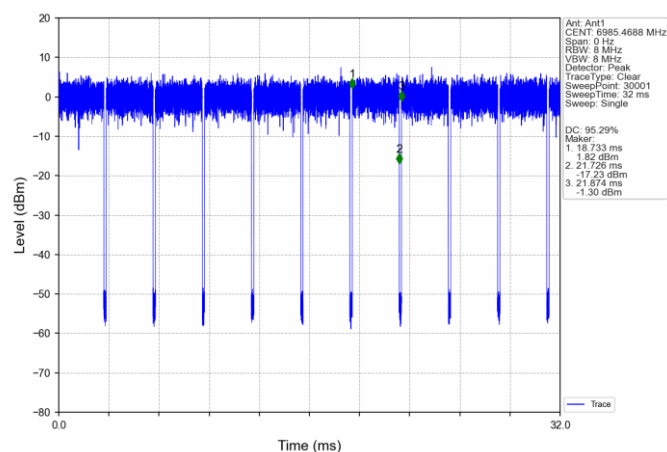


802.11ax(HEW20)_LCH_6895MHz_SU_ / Ant1_NTNV

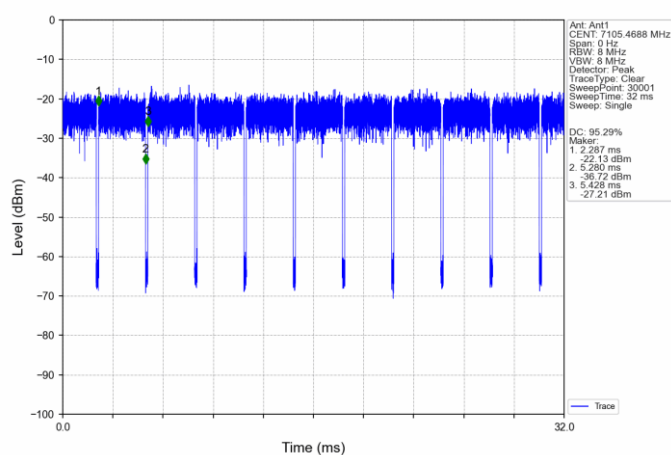




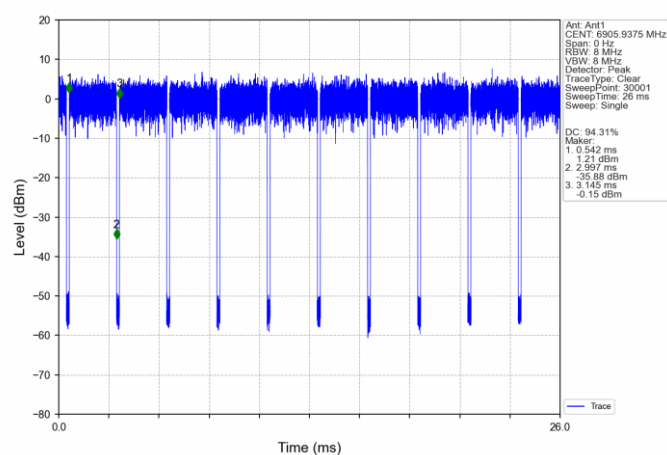
802.11ax(HEW20)_MCH_6995MHz_SU_ / Ant1_NTNV



802.11ax(HEW20)_HCH_7115MHz_SU_ / Ant1_NTNV

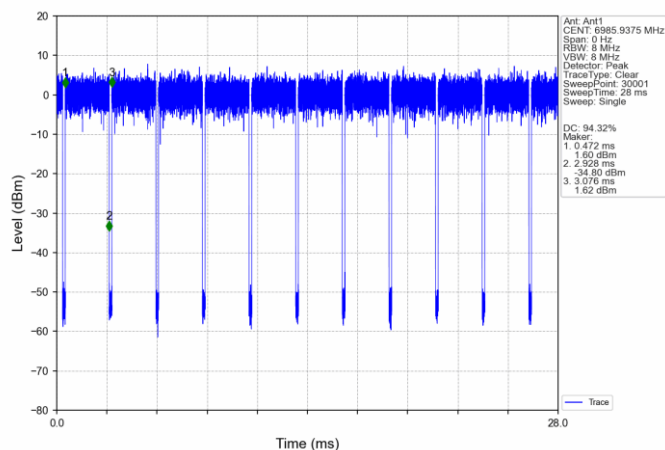


802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant1_NTNV

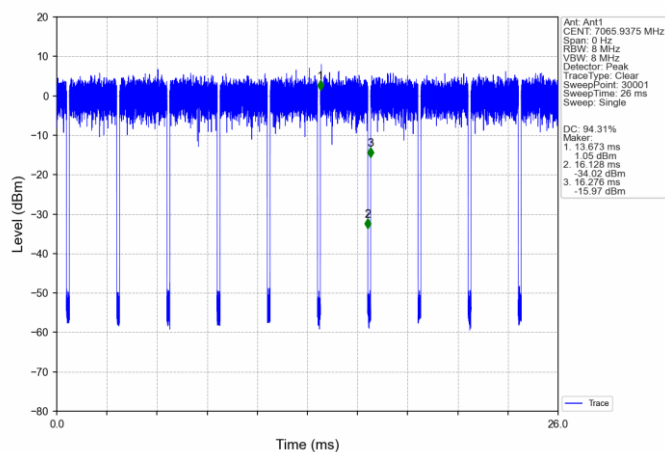




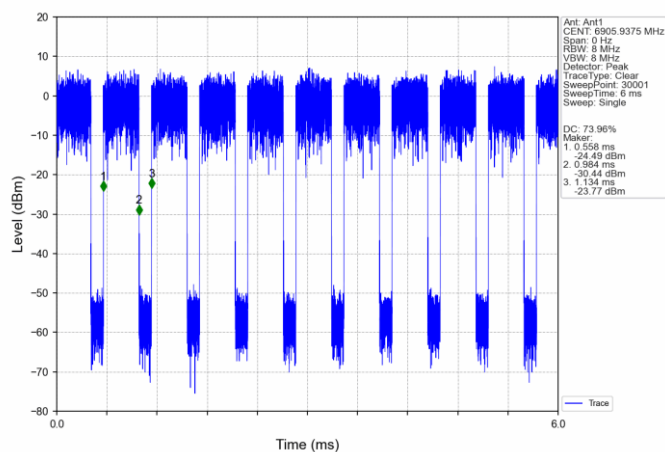
802.11ax(HEW40)_MCH_7005MHz_SU_ / Ant1_NTNV



802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant1_NTNV

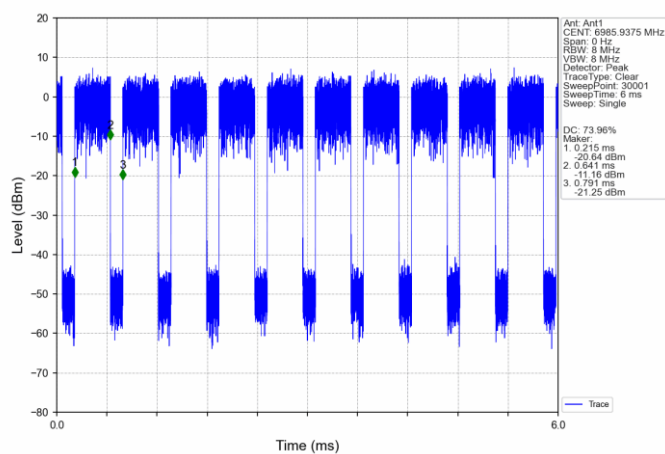


802.11ax(HEW80)_LCH_6945MHz_SU_ / Ant1_NTNV





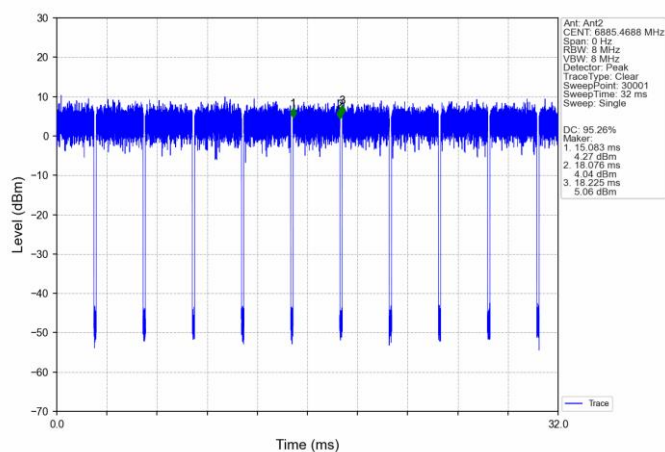
802.11ax(HEW80)_HCH_7025MHz_SU_ / Ant1_NTNV



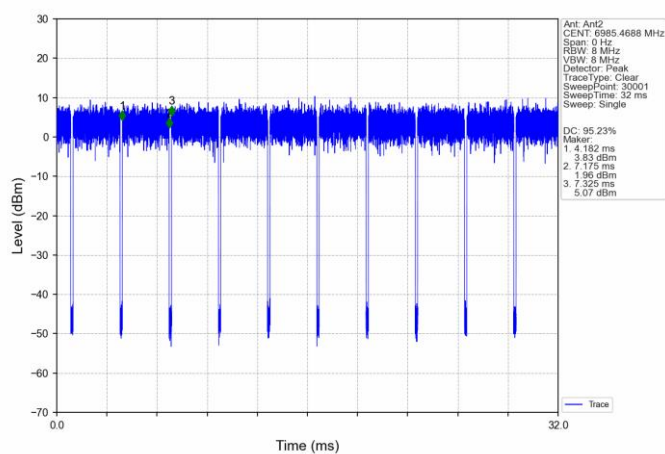


1.2.2 Ant2

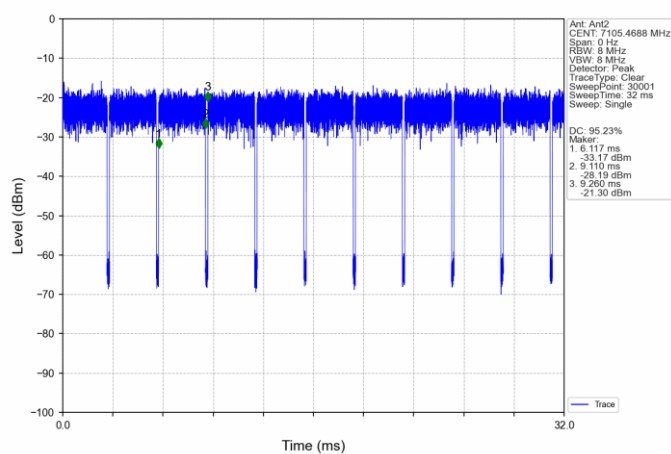
802.11ax(HEW20)_LCH_6895MHz_SU_/_Ant2_NTNV



802.11ax(HEW20)_MCH_6995MHz_SU_/_Ant2_NTNV

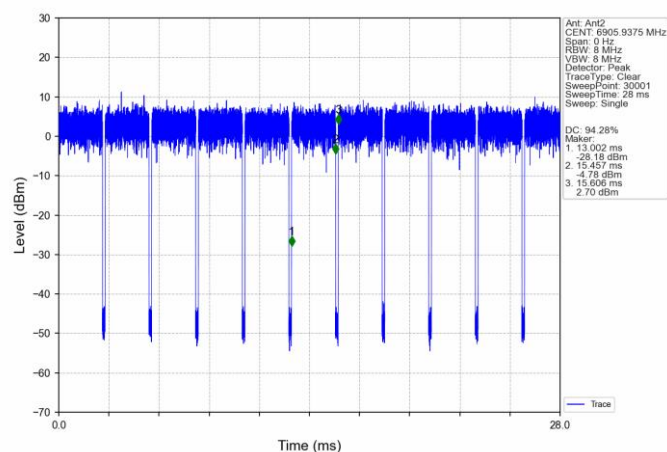


802.11ax(HEW20)_HCH_7115MHz_SU_/_Ant2_NTNV

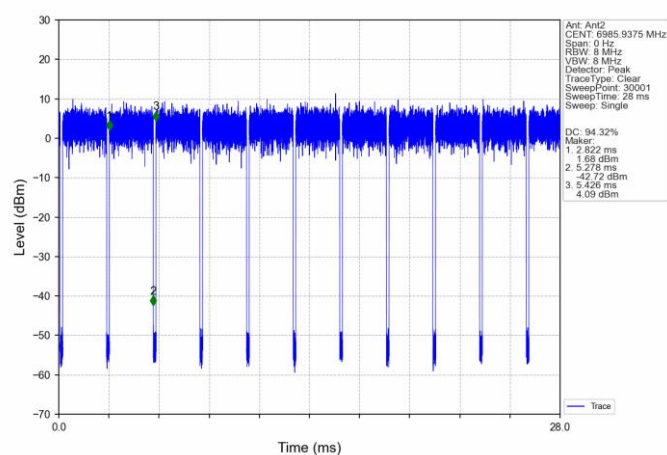




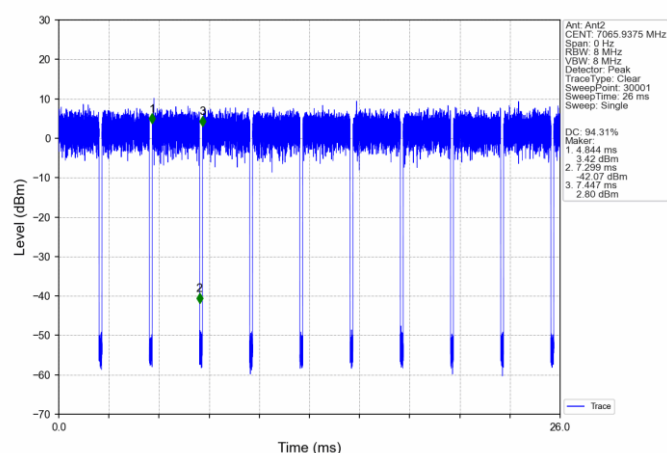
802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant2_NTNV



802.11ax(HEW40)_MCH_7005MHz_SU_ / Ant2_NTNV

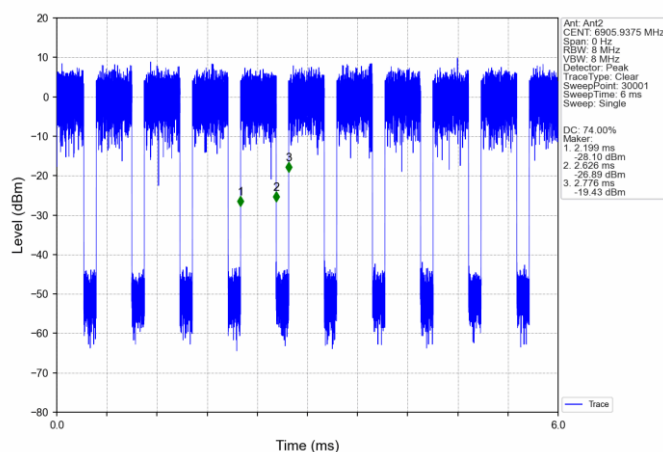


802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant2_NTNV

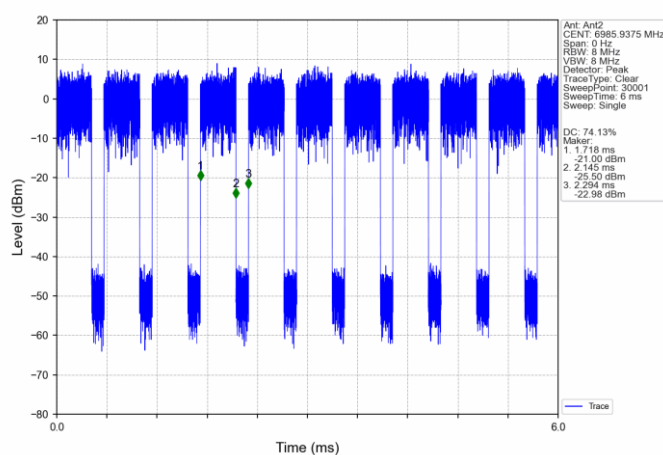




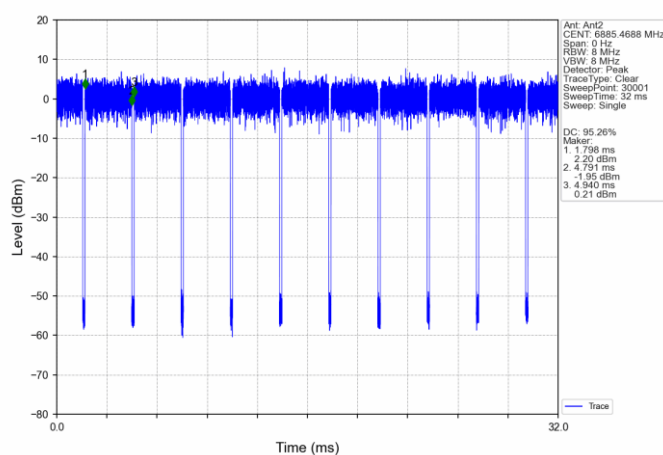
802.11ax(HEW80)_LCH_6945MHz_SU_ / _Ant2_NTNV



802.11ax(HEW80)_HCH_7025MHz_SU_ / _Ant2_NTNV

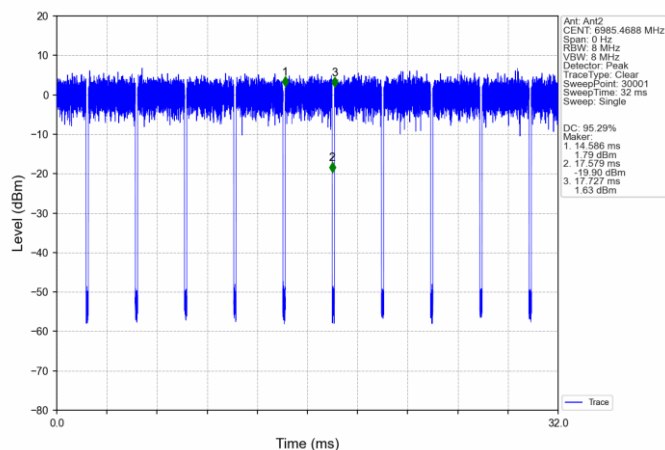


802.11ax(HEW20)_LCH_6895MHz_SU_ / _Ant2_NTNV

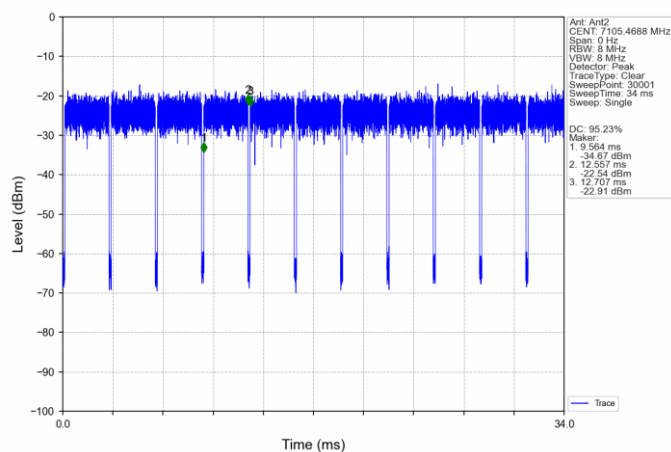




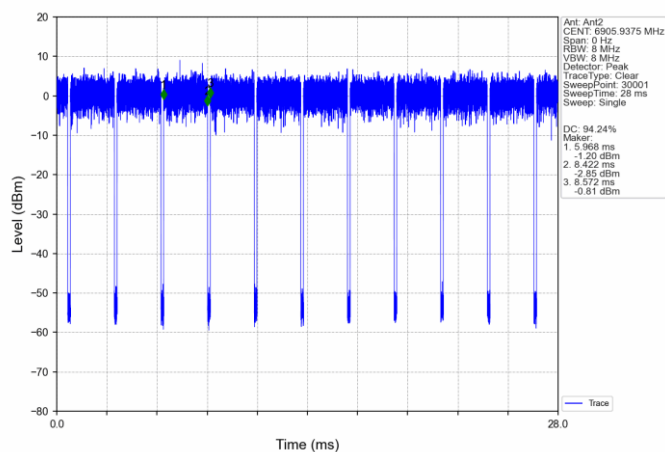
802.11ax(HEW20)_MCH_6995MHz_SU_ / Ant2_NTNV



802.11ax(HEW20)_HCH_7115MHz_SU_ / Ant2_NTNV

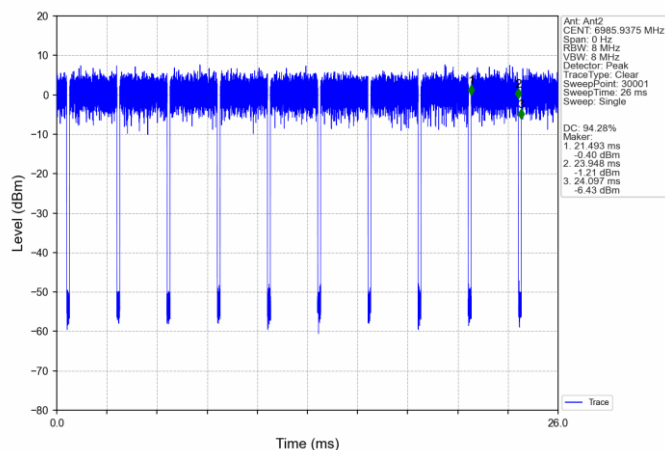


802.11ax(HEW40)_LCH_6925MHz_SU_ / Ant2_NTNV

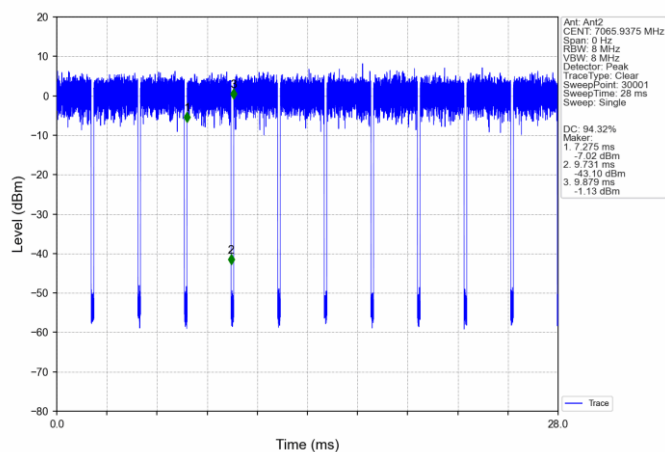




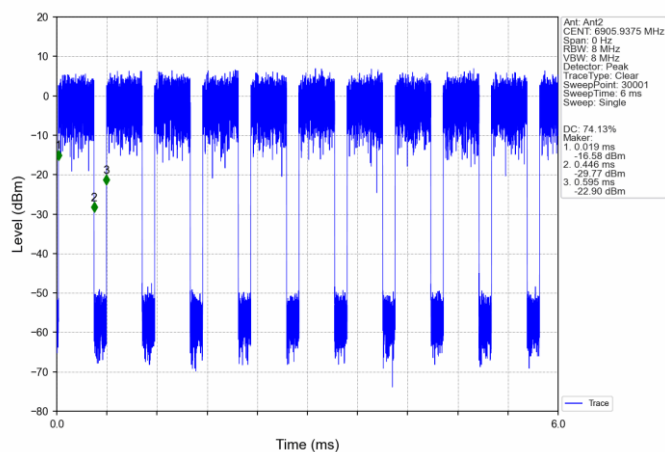
802.11ax(HEW40)_MCH_7005MHz_SU_ / Ant2_NTNV



802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant2_NTNV

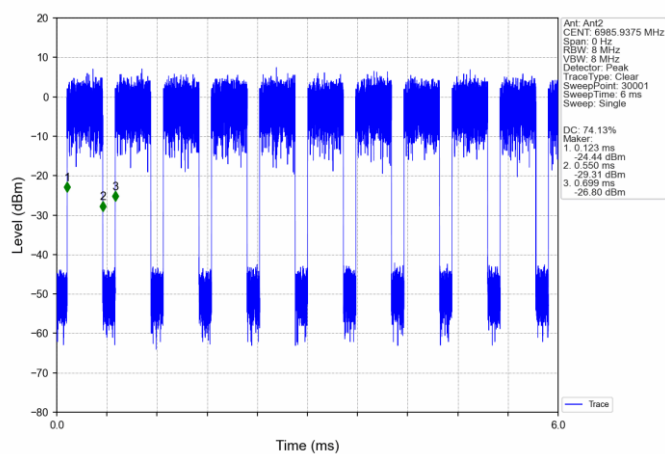


802.11ax(HEW80)_LCH_6945MHz_SU_ / Ant2_NTNV





802.11ax(HEW80)_HCH_7025MHz_SU_ / Ant2_NTNV





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)	SISO	6895	SU	/	1	19.274	<=320	Pass
						2	19.361	<=320	Pass
			6995	SU	/	1	19.301	<=320	Pass
						2	19.294	<=320	Pass
			7115	SU	/	1	19.274	<=320	Pass
						2	19.287	<=320	Pass
	802.11ax (HEW40)	SISO	6925	SU	/	1	37.813	<=320	Pass
						2	37.783	<=320	Pass
			7005	SU	/	1	37.813	<=320	Pass
						2	37.823	<=320	Pass
			7085	SU	/	1	37.917	<=320	Pass
						2	37.972	<=320	Pass
	802.11ax (HEW80)	SISO	6945	SU	/	1	78.125	<=320	Pass
						2	78.068	<=320	Pass
			7025	SU	/	1	78.102	<=320	Pass
						2	78.133	<=320	Pass
	802.11ax (HEW20)	MIMO	6895	SU	/	1	19.251	<=320	Pass
						2	19.289	<=320	Pass
			6995	SU	/	1	19.291	<=320	Pass
						2	19.297	<=320	Pass
			7115	SU	/	1	19.355	<=320	Pass
						2	19.246	<=320	Pass
	802.11ax (HEW40)	MIMO	6925	SU	/	1	37.816	<=320	Pass
						2	37.804	<=320	Pass
			7005	SU	/	1	37.836	<=320	Pass
						2	37.777	<=320	Pass
			7085	SU	/	1	37.853	<=320	Pass
						2	37.791	<=320	Pass
	802.11ax (HEW80)	MIMO	6945	SU	/	1	78.020	<=320	Pass
						2	77.961	<=320	Pass
			7025	SU	/	1	77.922	<=320	Pass
						2	77.882	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX	Frequency	RU	RU	ANT	26dB Bandwidth (MHz)	Verdict
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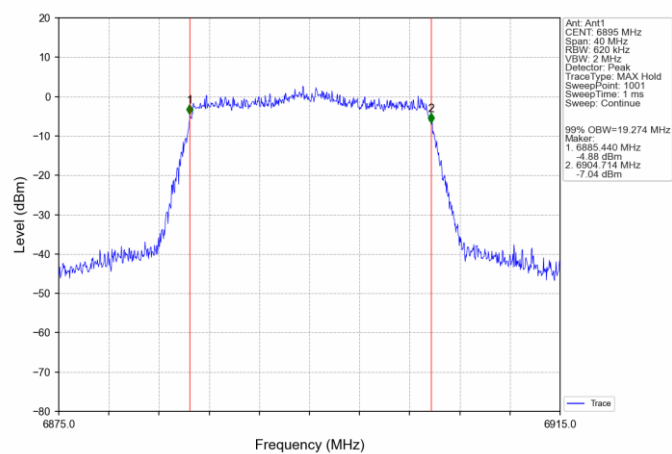
		Type	(MHz)		Pos		Result	Limit	
NTNV	802.11ax (HEW20)	SISO	6895	SU	/	1	21.193	/	Pass
						2	21.637	/	Pass
			6995	SU	/	1	21.020	/	Pass
						2	21.522	/	Pass
			7115	SU	/	1	21.176	/	Pass
						2	21.060	/	Pass
	802.11ax (HEW40)	SISO	6925	SU	/	1	39.971	/	Pass
						2	39.933	/	Pass
			7005	SU	/	1	39.853	/	Pass
						2	40.009	/	Pass
			7085	SU	/	1	39.870	/	Pass
						2	39.935	/	Pass
	802.11ax (HEW80)	SISO	6945	SU	/	1	82.966	/	Pass
						2	81.338	/	Pass
			7025	SU	/	1	90.342	/	Pass
						2	83.719	/	Pass
	802.11ax (HEW20)	MIMO	6895	SU	/	1	21.474	/	Pass
						2	21.415	/	Pass
			6995	SU	/	1	21.399	/	Pass
						2	21.291	/	Pass
			7115	SU	/	1	21.187	/	Pass
						2	21.488	/	Pass
	802.11ax (HEW40)	MIMO	6925	SU	/	1	39.933	/	Pass
						2	39.878	/	Pass
			7005	SU	/	1	39.581	/	Pass
						2	39.946	/	Pass
			7085	SU	/	1	40.183	/	Pass
						2	39.551	/	Pass
	802.11ax (HEW80)	MIMO	6945	SU	/	1	81.460	/	Pass
						2	81.880	/	Pass
			7025	SU	/	1	82.194	/	Pass
						2	81.625	/	Pass



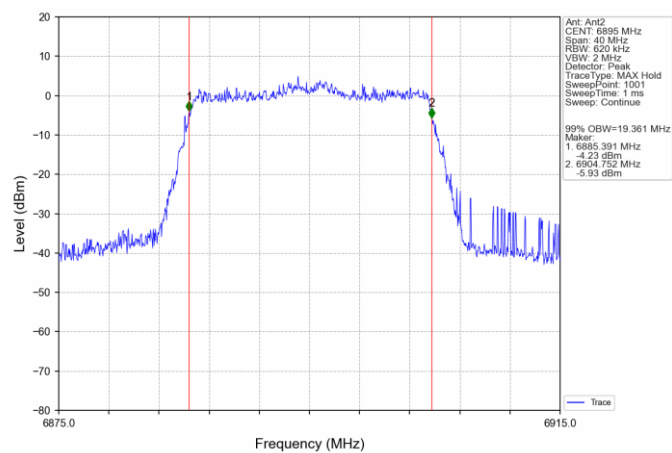
2.2 Test Graph

2.2.1 OBW

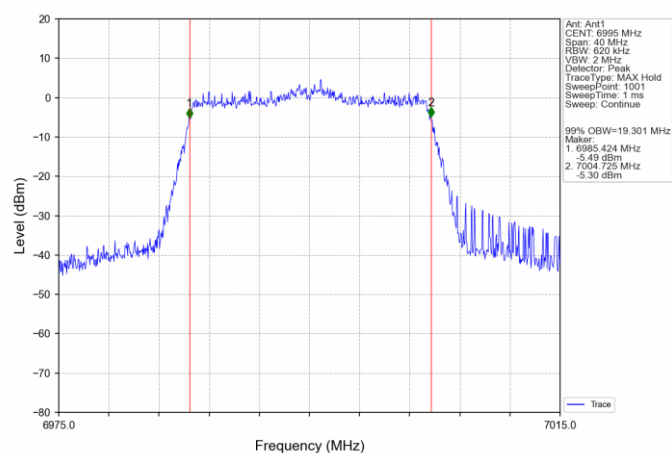
802.11ax(HEW20)_LCH_6895MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_LCH_6895MHz_SU_/_Ant2_NTNV

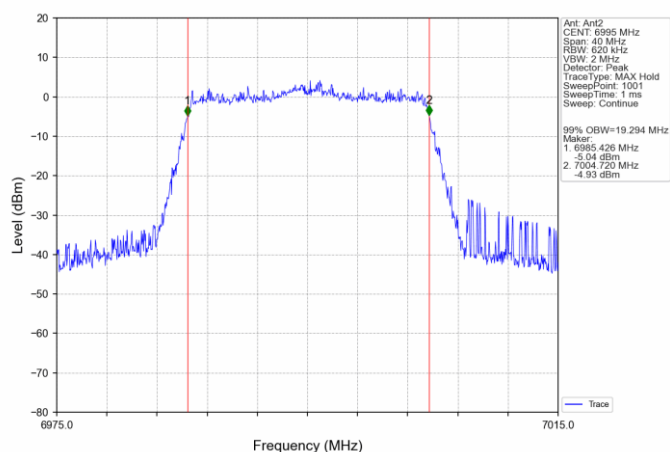


802.11ax(HEW20)_MCH_6995MHz_SU_/_Ant1_NTNV

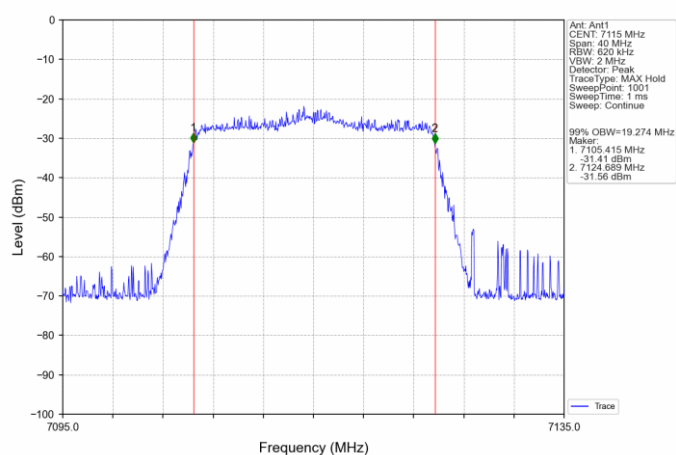




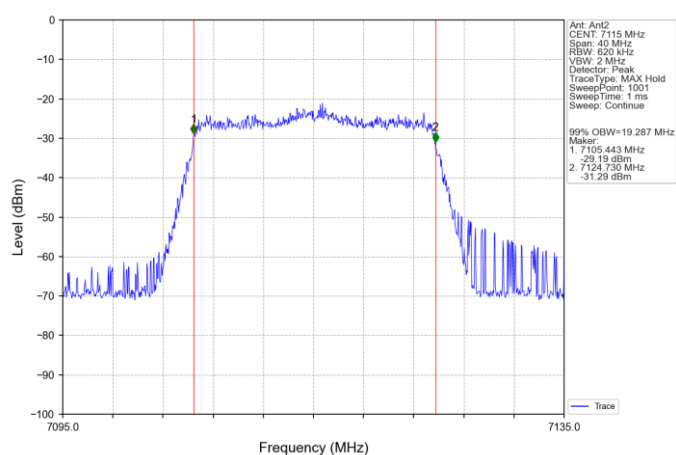
802.11ax(HEW20)_MCH_6995MHz_SU_ / Ant2_NTNV



802.11ax(HEW20)_HCH_7115MHz_SU_ / Ant1_NTNV

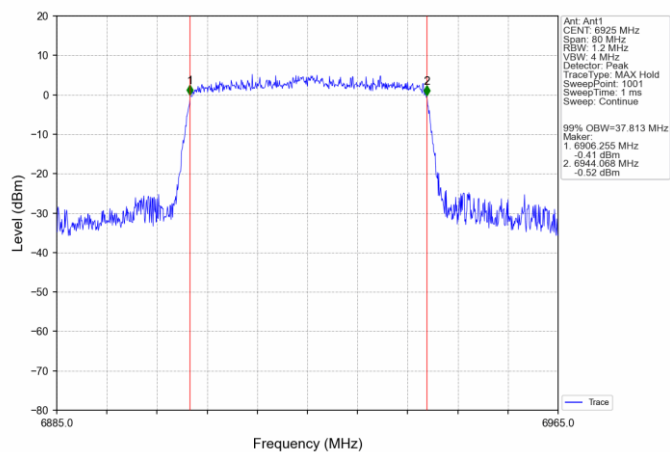


802.11ax(HEW20)_HCH_7115MHz_SU_ / Ant2_NTNV

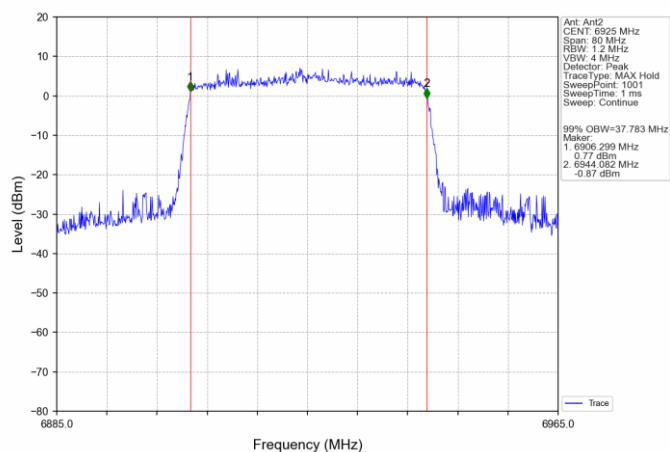




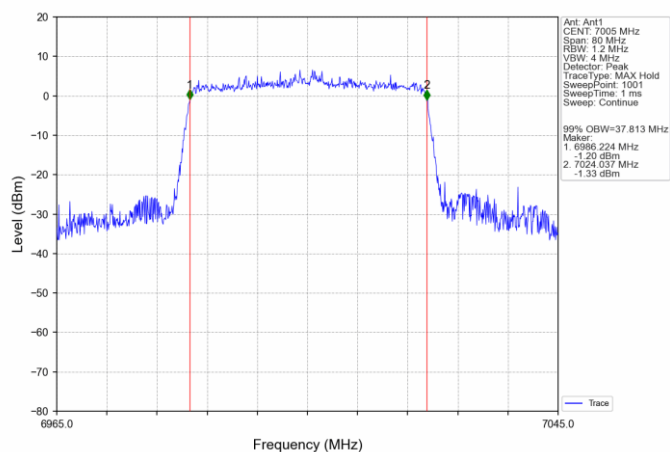
802.11ax(HEW40) LCH 6925MHz_SU_ / Ant1_NTNV



802.11ax(HEW40) LCH 6925MHz_SU_ / Ant2_NTNV

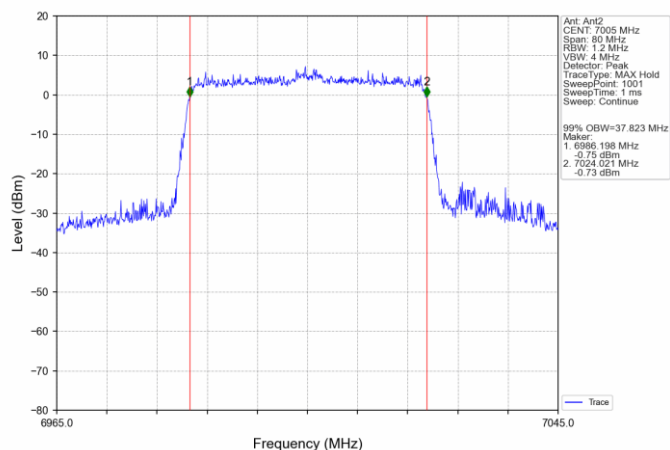


802.11ax(HEW40) MCH 7005MHz_SU_ / Ant1_NTNV

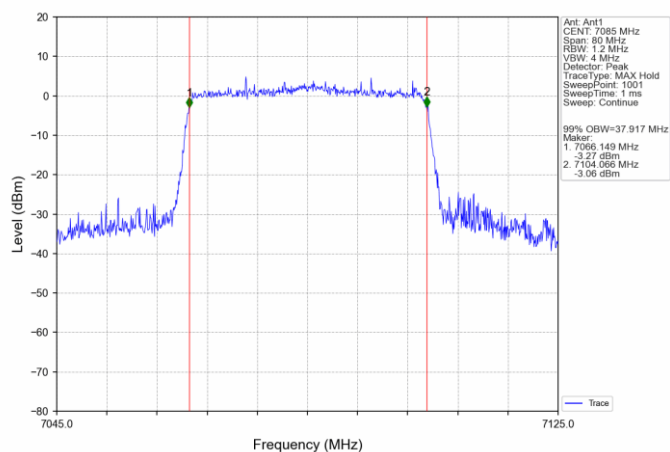




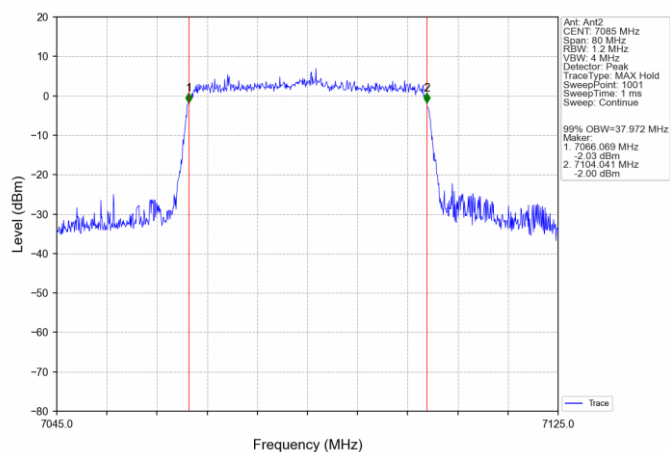
802.11ax(HEW40)_MCH_7005MHz_SU_ / Ant2_NTNV



802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant1_NTNV

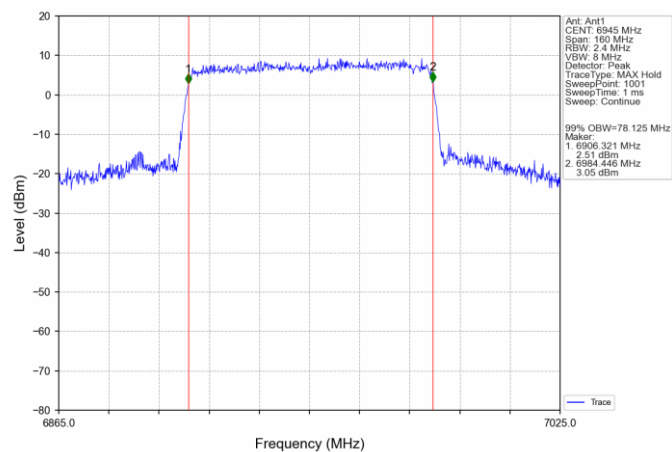


802.11ax(HEW40)_HCH_7085MHz_SU_ / Ant2_NTNV

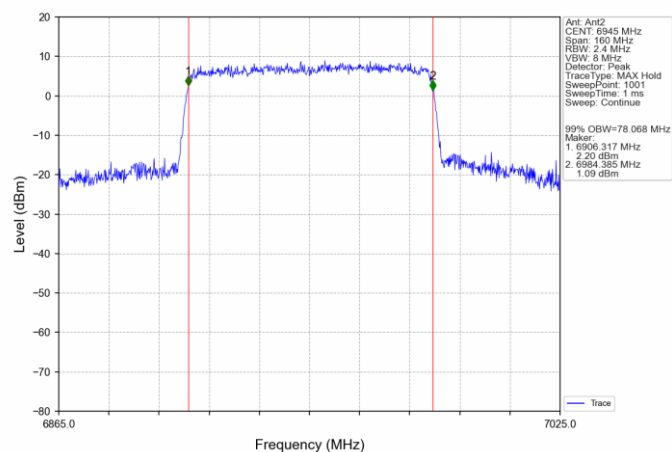




802.11ax(HEW80) LCH 6945MHz_SU_ / Ant1_NTNV



802.11ax(HEW80) LCH 6945MHz_SU_ / Ant2_NTNV



802.11ax(HEW80) HCH 7025MHz_SU_ / Ant1_NTNV

