TEST REPORT

Applicant:	Technity Solutions Inc.
Address of Applicant:	500 Cochrane Dr. Unit 1 Markham ON L3R 8E2 Canada
Manufacturer:	Technity Solutions Inc.
Address of Manufacturer:	500 Cochrane Dr. Unit 1 Markham ON L3R 8E2 Canada
Equipment Under Test (EUT)	
Product Name:	Intelligent Wireless Access Point
Model No.:	TS-MWI3000C, 1LAN-WAP-9332
Trade Mark:	Technity SOLUTIONS
FCC ID:	2ATAZ-MWI3000C
Applicable standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of sample receipt:	2023.04.14
Date of Test:	2023.04.23~2023.05.22
Date of report issue:	2023.05.24
Test Result :	PASS *

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

Authorized Signature:

Robinson Luo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	*2023.05.24*	*Original*

Prepared By: ***Date:*** *2023.05.24*

Project Engineer

Check By: ***Date:*** *2023.05.24*

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Emission Bandwidth	FCC part 15.407	PASS
Maximum Conducted Output Power	FCC part 15.407(a)(1)(2)	PASS
Power Spectral Density	FCC part 15.407(a)(1)(2)	PASS
Undesirable Emission	FCC part 15.407(b), 15.205/15.209	PASS
Radiated Emission	FCC part 15.205/15.209	PASS
Band Edge	FCC part 15.407(b)(1)(2)(3)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Measurement Uncertainty	Notes
Radiated Emission	3.1dB(9kHz-30MHz)	(1)
Radiated Emission	3.8039dB(30MHz-200MHz)	(1)
Radiated Emission	3.9679dB(200MHz-1GHz)	(1)
Radiated Emission	4.29dB(1GHz-18GHz)	(1)
Radiated Emission	3.30dB(18GHz-40GHz)	(1)
AC Power Line Conducted Emission	3.44dB(0.15MHz ~ 30MHz)	(1)
Occupied Bandwidth	±3%	(1)
RF conducted power	±0.75dB	(1)
RF power density	±3dB	(1)
Conducted Spurious emissions	±2.58dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.		

5 General Information

5.1 General Description of EUT

Product Name:	Intelligent Wireless Access Point
Model No.:	TS-MWI3000C, 1LAN-WAP-9332
Test Model No.:	TS-MWI3000C
Model difference	Only the model name is different
Test sample(s) ID:	GTSL2023060220-1
Sample(s) Status:	Engineer sample
S/N:	N/A
Operation Frequency:	5150MHz ~5250MHz 5250MHz ~5350MHz 5470MHz ~5725MHz 5725MHz ~5850MHz
Modulation technology:	OFDM, OFDMA
Antenna Type:	Internal Antenna
Antenna gain:	Ant1: 3.62dBi, Ant2: 4.67dBi
Power supply:	DC 48V from adapter or POE 48V

Channel Information			
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	802.11a /n /ac /ax (20MHz)	5180-5240	36-48
5250-5350		5260-5320	52-64
5470-5725		5500-5700	100-140
5725-5850		5745-5825	149-165
5150-5250	802.11n /ac /ax (40MHz)	5190-5230	38-46
5250-5350		5270-5310	54-62
5470-5725		5510-5670	102-134
5725-5850		5755-5795	151-159
5150-5250	802.11ac /ax (80MHz)	5210	42
5250-5350		5290	58
5470-5725		5530-5610	106-122
5725-5850		5775	155
5150-5350	802.11 ax (160MHz)	5250	50
5470-5725		5570	114

Note: For 802.11ax mode only support full RU mode.

5.2 Test mode

Transmitting mode	Keep the EUT in transmitting with modulation..

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate	Mode	Data rate
802.11a	6 Mbps	802.11n/ac/ax	MCS0

5.3 Test Facility

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

● **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

● **IC —Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing .

● **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.4 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.5 Description of Support Units

No.	Equipment	Manufacturer	Model	Series No
1	Power adapter	Keli	KL-D540117-K1	/
2	Microcomputer	TY510S-07IAB	LENOVO	YLX2QPM7
3	Notebook	L450	Think	/

5.6 Deviation from Standards

None.

5.7 Additional Instructions

Power Setting value

No beamforming

Test Mode	Power Level Setting defined by Manufacturer							
	Test Software: QDART							
	Band	Value	Band	Value	Band	Value	Band	Value
11A-CDD	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11N20MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11N40MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AC20MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AC40MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AC80MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AX20MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AX40MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AX80MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15
11AX160MIMO	U-NII-1	15	U-NII-2A	15	U-NII-2C	15	U-NII-3	15

Beamforming

Test Mode	Power Level Setting defined by Manufacturer							
	Test Software: QDART							
	Band	Value	Band	Value	Band	Value	Band	Value
11A-CDD	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11N20MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11N40MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AC20MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AC40MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AC80MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AX20MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AX40MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AX80MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12
11AX160MIMO	U-NII-1	12	U-NII-2A	12	U-NII-2C	12	U-NII-3	12

6 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 23, 2021	June 22, 2024
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 14, 2023	April 13, 2024
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Coaxial Cable	GTS	N/A	GTS213	April 21, 2023	April 20, 2024
8	Coaxial Cable	GTS	N/A	GTS211	April 21, 2023	April 20, 2024
9	Coaxial cable	GTS	N/A	GTS210	April 21, 2023	April 20, 2024
10	Coaxial Cable	GTS	N/A	GTS212	April 21, 2023	April 20, 2024
11	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 14, 2023	April 13, 2024
12	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 29, 2022	Nov. 28, 2023
13	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 14, 2023	April 13, 2024
14	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 14, 2023	April 13, 2024
15	Horn Antenna (18-26.5GHz)	/	UG-598A/U	GTS664	Oct. 30, 2022	Oct. 29, 2023
16	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 30, 2022	Oct. 29, 2023
17	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 13, 2023	March 12, 2024
18	Amplifier	/	LNA-1000-30S	GTS650	April 14, 2023	April 13, 2024
19	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS668	Dec. 20,2022	Dec.19,2023

Conducted Emission						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 14, 2023	April 13, 2024
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Thermo meter	JINCHUANG	GSP-8A	GTS639	April 18, 2023	April 17, 2024
7	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	April 14, 2023	April 13, 2024
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 14, 2023	April 13, 2024
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 14, 2023	April 13, 2024
10	Antenna end assembly	Weinschel	1870A	GTS560	April 14, 2023	April 13, 2024

RF Conducted Test:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 14, 2023	April 13, 2024
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 14, 2023	April 13, 2024
3	Spectrum Analyzer	KEYSIGHT	N9010A-44	MY51440158	April 14, 2023	April 13, 2024
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 14, 2023	April 13, 2024
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 14, 2023	April 13, 2024
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 14, 2023	April 13, 2024
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 14, 2023	April 13, 2024
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 14, 2023	April 13, 2024

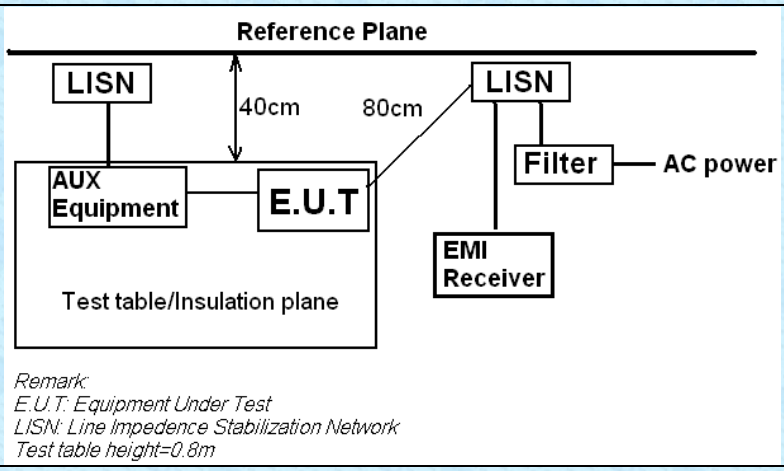
General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	April 18, 2023	April 17, 2024
2	Barometer	KUMAO	SF132	GTS647	April 19, 2023	April 18, 2024

7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
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.	
E.U.T Antenna:	
The antenna is Internal antenna, reference to the appendix II for details	

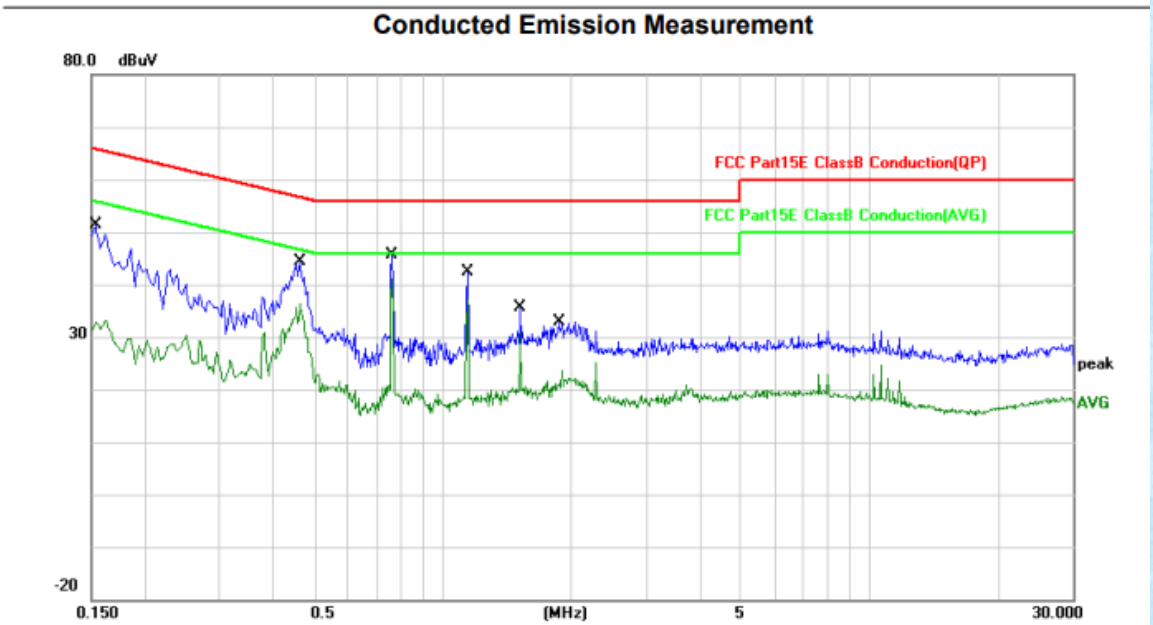
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Class / Severity:	Class B
Receiver setup:	RBW=9KHz, VBW=30KHz
Limit:	Frequency range (MHz) / Limit (dBuV): 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.
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test environment:	Temp.: 23.9 °C / Humid.: 52% / Press.: 1012mbar
Test voltage:	AC 120V, 60Hz
Test results:	Pass

Measurement data:

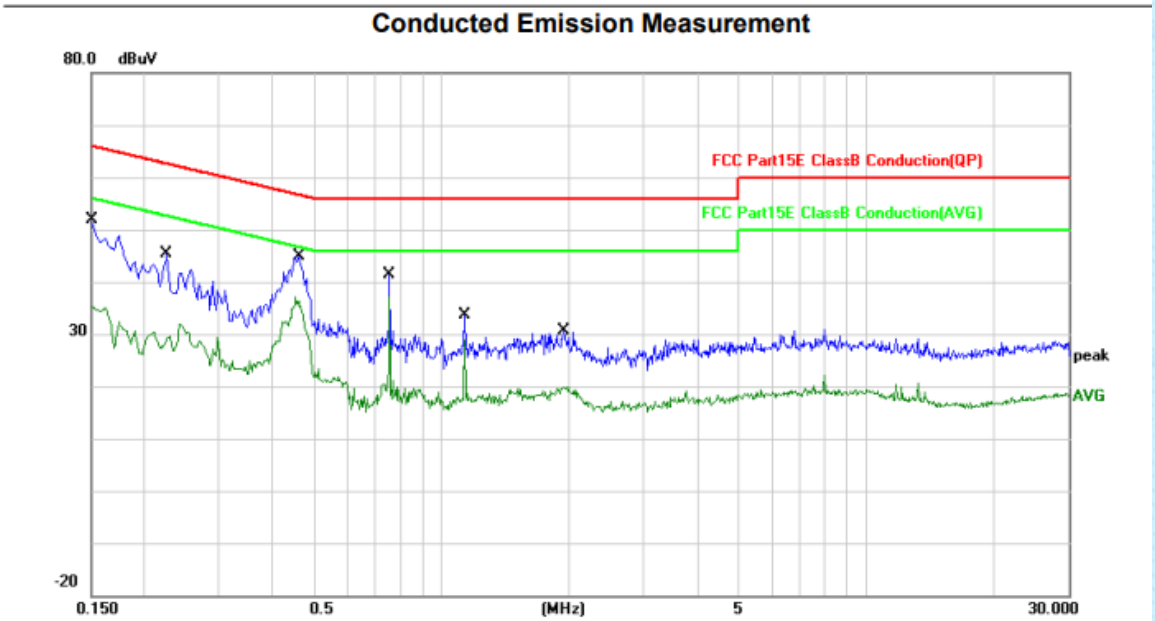
We only recorded the data of the worst mode. Please see the following:

Line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	26.01	19.88	45.89	65.78	-19.89	QP	
2		0.1540	10.92	19.88	30.80	55.78	-24.98	AVG	
3		0.4620	22.28	19.88	42.16	56.66	-14.50	QP	
4		0.4620	14.61	19.88	34.49	46.66	-12.17	AVG	
5		0.7620	22.81	19.88	42.69	56.00	-13.31	QP	
6		0.7620	12.80	19.88	32.68	46.00	-13.32	AVG	
7		1.1420	19.50	19.89	39.39	56.00	-16.61	QP	
8	*	1.1420	21.77	19.89	41.66	46.00	-4.34	AVG	
9		1.5220	12.12	19.90	32.02	56.00	-23.98	QP	
10		1.5220	3.21	19.90	23.11	46.00	-22.89	AVG	
11		1.8700	6.09	19.90	25.99	56.00	-30.01	QP	
12		1.8700	0.36	19.90	20.26	46.00	-25.74	AVG	

Neutral:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	26.19	19.88	46.07	66.00	-19.93	QP	
2		0.1500	11.36	19.88	31.24	56.00	-24.76	AVG	
3		0.2260	17.87	19.88	37.75	62.60	-24.85	QP	
4		0.2260	7.72	19.88	27.60	52.60	-25.00	AVG	
5		0.4620	23.26	19.88	43.14	56.66	-13.52	QP	
6	*	0.4620	15.61	19.88	35.49	46.66	-11.17	AVG	
7		0.7580	20.06	19.88	39.94	56.00	-16.06	QP	
8		0.7580	10.39	19.88	30.27	46.00	-15.73	AVG	
9		1.1380	11.62	19.89	31.51	56.00	-24.49	QP	
10		1.1380	3.91	19.89	23.80	46.00	-22.20	AVG	
11		1.9460	3.65	19.91	23.56	56.00	-32.44	QP	
12		1.9460	-0.73	19.91	19.18	46.00	-26.82	AVG	

Note:

Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.

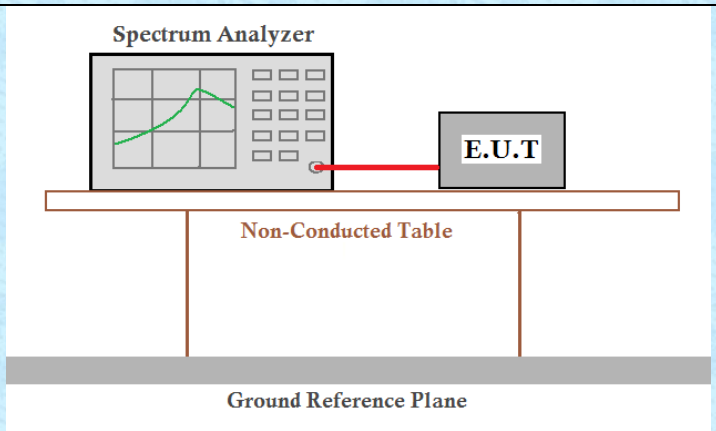
Measurement = Reading + Correct Factor.

Over = Measurement – Limit

Simultaneous transmitting: 2.4G Wifi transmitting + 5G Wifi transmitting

Worst Case Operating Mode: Simultaneous transmitting

7.3 Emission Bandwidth

Test Requirement :	FCC Part15 E Section 15.407
Test Method :	ANSI C63.10:2013 & KDB 789033 D02 v02r01
Limit:	N/A
Test setup:	
Test procedure:	According to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data:

26 dB Bandwidth

Test Mode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	19.200	5170.040	5189.240	---	---
	Ant2	5180	19.360	5170.080	5189.440	---	---
	Ant1	5200	18.120	5190.880	5209.000	---	---
	Ant2	5200	18.400	5190.640	5209.040	---	---
	Ant1	5240	18.520	5230.720	5249.240	---	---
	Ant2	5240	18.720	5230.440	5249.160	---	---
	Ant1	5260	18.280	5251.000	5269.280	---	---
	Ant2	5260	18.880	5250.560	5269.440	---	---
	Ant1	5280	18.000	5271.120	5289.120	---	---
	Ant2	5280	18.120	5271.120	5289.240	---	---
	Ant1	5320	18.520	5310.680	5329.200	---	---
	Ant2	5320	18.120	5310.960	5329.080	---	---
	Ant1	5500	18.200	5490.840	5509.040	---	---
	Ant2	5500	18.960	5490.600	5509.560	---	---
	Ant1	5580	19.160	5570.600	5589.760	---	---
	Ant2	5580	18.960	5570.280	5589.240	---	---
	Ant1	5700	18.760	5690.560	5709.320	---	---
	Ant2	5700	18.520	5690.480	5709.000	---	---
	Ant1	5745	18.240	5735.840	5754.080	---	---
	Ant2	5745	19.120	5735.280	5754.400	---	---
	Ant1	5785	17.960	5776.000	5793.960	---	---
	Ant2	5785	18.720	5775.760	5794.480	---	---
	Ant1	5825	19.880	5815.120	5835.000	---	---
	Ant2	5825	19.320	5815.240	5834.560	---	---
11N20MIMO	Ant1	5180	19.720	5170.040	5189.760	---	---

	Ant2	5180	19.680	5170.160	5189.840	---	---
	Ant1	5200	19.240	5190.160	5209.400	---	---
	Ant2	5200	19.880	5189.880	5209.760	---	---
	Ant1	5240	20.000	5229.800	5249.800	---	---
	Ant2	5240	19.320	5230.240	5249.560	---	---
	Ant1	5260	19.680	5250.040	5269.720	---	---
	Ant2	5260	19.480	5250.000	5269.480	---	---
	Ant1	5280	20.000	5270.160	5290.160	---	---
	Ant2	5280	19.800	5270.120	5289.920	---	---
	Ant1	5320	19.480	5310.240	5329.720	---	---
	Ant2	5320	20.560	5309.840	5330.400	---	---
	Ant1	5500	19.640	5490.320	5509.960	---	---
	Ant2	5500	19.360	5490.280	5509.640	---	---
	Ant1	5580	19.840	5569.960	5589.800	---	---
	Ant2	5580	19.640	5570.160	5589.800	---	---
	Ant1	5700	19.080	5690.520	5709.600	---	---
	Ant2	5700	19.840	5690.080	5709.920	---	---
	Ant1	5745	19.440	5735.320	5754.760	---	---
	Ant2	5745	19.400	5735.280	5754.680	---	---
	Ant1	5785	20.080	5775.040	5795.120	---	---
	Ant2	5785	19.720	5775.040	5794.760	---	---
	Ant1	5825	20.280	5814.920	5835.200	---	---
	Ant2	5825	20.040	5814.920	5834.960	---	---
11N40MIMO	Ant1	5190	39.200	5170.160	5209.360	---	---
	Ant2	5190	38.960	5170.240	5209.200	---	---
	Ant1	5230	38.960	5210.480	5249.440	---	---
	Ant2	5230	38.960	5210.320	5249.280	---	---
	Ant1	5270	38.800	5250.400	5289.200	---	---
	Ant2	5270	39.440	5250.400	5289.840	---	---
	Ant1	5310	38.880	5290.560	5329.440	---	---
	Ant2	5310	38.640	5290.480	5329.120	---	---
	Ant1	5510	38.560	5490.800	5529.360	---	---
	Ant2	5510	38.720	5490.240	5528.960	---	---
	Ant1	5550	38.960	5530.480	5569.440	---	---
	Ant2	5550	38.320	5530.960	5569.280	---	---
	Ant1	5670	39.280	5650.560	5689.840	---	---
	Ant2	5670	38.480	5650.720	5689.200	---	---
	Ant1	5755	38.880	5735.400	5774.280	---	---
	Ant2	5755	38.400	5735.720	5774.120	---	---
	Ant1	5795	38.960	5775.640	5814.600	---	---
	Ant2	5795	38.640	5775.880	5814.520	---	---
11AC20MIMO	Ant1	5180	19.600	5170.040	5189.640	---	---
	Ant2	5180	19.960	5169.840	5189.800	---	---
	Ant1	5200	19.680	5190.160	5209.840	---	---
	Ant2	5200	20.160	5189.880	5210.040	---	---
	Ant1	5240	19.880	5229.880	5249.760	---	---
	Ant2	5240	19.520	5230.200	5249.720	---	---
	Ant1	5260	20.000	5249.840	5269.840	---	---
	Ant2	5260	19.440	5250.280	5269.720	---	---
	Ant1	5280	19.240	5270.440	5289.680	---	---
	Ant2	5280	19.760	5270.080	5289.840	---	---
	Ant1	5320	20.600	5309.880	5330.480	---	---
	Ant2	5320	19.240	5310.360	5329.600	---	---
	Ant1	5500	19.600	5490.040	5509.640	---	---
	Ant2	5500	19.640	5490.120	5509.760	---	---
	Ant1	5580	19.520	5570.240	5589.760	---	---
	Ant2	5580	20.160	5569.840	5590.000	---	---
	Ant1	5700	20.240	5689.640	5709.880	---	---
	Ant2	5700	20.280	5689.920	5710.200	---	---
	Ant1	5745	20.040	5735.080	5755.120	---	---
	Ant2	5745	19.520	5735.480	5755.000	---	---
	Ant1	5785	19.600	5775.120	5794.720	---	---
	Ant2	5785	19.760	5775.000	5794.760	---	---

	Ant1	5825	20.200	5814.920	5835.120	---	---
	Ant2	5825	19.000	5815.520	5834.520	---	---
11AC40MIMO	Ant1	5190	38.960	5170.240	5209.200	---	---
	Ant2	5190	38.720	5170.240	5208.960	---	---
	Ant1	5230	38.320	5210.720	5249.040	---	---
	Ant2	5230	38.080	5210.960	5249.040	---	---
	Ant1	5270	38.880	5250.480	5289.360	---	---
	Ant2	5270	38.400	5250.720	5289.120	---	---
	Ant1	5310	39.040	5290.160	5329.200	---	---
	Ant2	5310	38.640	5290.720	5329.360	---	---
	Ant1	5510	39.040	5490.400	5529.440	---	---
	Ant2	5510	38.960	5490.480	5529.440	---	---
	Ant1	5550	38.880	5530.560	5569.440	---	---
	Ant2	5550	39.040	5530.640	5569.680	---	---
	Ant1	5670	38.560	5650.400	5688.960	---	---
	Ant2	5670	38.480	5650.640	5689.120	---	---
	Ant1	5755	39.120	5735.400	5774.520	---	---
	Ant2	5755	39.840	5735.400	5775.240	---	---
	Ant1	5795	39.120	5775.640	5814.760	---	---
	Ant2	5795	37.840	5775.960	5813.800	---	---
11AC80MIMO	Ant1	5210	79.520	5170.160	5249.680	---	---
	Ant2	5210	80.160	5169.840	5250.000	---	---
	Ant1	5290	79.840	5249.840	5329.680	---	---
	Ant2	5290	78.880	5250.640	5329.520	---	---
	Ant1	5530	79.840	5490.480	5570.320	---	---
	Ant2	5530	80.000	5490.160	5570.160	---	---
	Ant1	5610	80.160	5570.320	5650.480	---	---
	Ant2	5610	79.360	5570.480	5649.840	---	---
	Ant1	5775	80.000	5735.320	5815.320	---	---
	Ant2	5775	80.640	5734.520	5815.160	---	---
11AX20MIMO	Ant1	5180	20.240	5169.760	5190.000	---	---
	Ant2	5180	20.280	5169.840	5190.120	---	---
	Ant1	5200	20.400	5189.680	5210.080	---	---
	Ant2	5200	20.800	5189.680	5210.480	---	---
	Ant1	5240	19.920	5230.200	5250.120	---	---
	Ant2	5240	20.240	5230.120	5250.360	---	---
	Ant1	5260	20.480	5249.600	5270.080	---	---
	Ant2	5260	20.280	5249.960	5270.240	---	---
	Ant1	5280	19.640	5270.200	5289.840	---	---
	Ant2	5280	20.520	5269.760	5290.280	---	---
	Ant1	5320	20.480	5309.840	5330.320	---	---
	Ant2	5320	20.800	5309.600	5330.400	---	---
	Ant1	5500	20.760	5489.520	5510.280	---	---
	Ant2	5500	19.800	5489.960	5509.760	---	---
	Ant1	5580	19.800	5570.080	5589.880	---	---
	Ant2	5580	19.960	5570.040	5590.000	---	---
	Ant1	5700	20.080	5690.080	5710.160	---	---
	Ant2	5700	19.920	5689.880	5709.800	---	---
	Ant1	5745	20.120	5735.000	5755.120	---	---
	Ant2	5745	20.160	5735.160	5755.320	---	---
	Ant1	5785	20.480	5774.760	5795.240	---	---
	Ant2	5785	20.000	5774.960	5794.960	---	---
	Ant1	5825	20.440	5814.600	5835.040	---	---
	Ant2	5825	20.600	5814.680	5835.280	---	---
11AX40MIMO	Ant1	5190	39.680	5170.240	5209.920	---	---
	Ant2	5190	39.440	5170.160	5209.600	---	---
	Ant1	5230	39.760	5210.000	5249.760	---	---
	Ant2	5230	39.200	5210.320	5249.520	---	---
	Ant1	5270	39.920	5250.000	5289.920	---	---
	Ant2	5270	39.440	5250.400	5289.840	---	---
	Ant1	5310	39.520	5290.000	5329.520	---	---
	Ant2	5310	39.120	5290.480	5329.600	---	---
	Ant1	5510	39.760	5489.920	5529.680	---	---

	Ant2	5510	39.920	5490.240	5530.160	---	---
	Ant1	5550	39.680	5530.240	5569.920	---	---
	Ant2	5550	39.760	5530.000	5569.760	---	---
	Ant1	5670	39.200	5650.400	5689.600	---	---
	Ant2	5670	39.360	5650.160	5689.520	---	---
	Ant1	5755	39.360	5735.160	5774.520	---	---
	Ant2	5755	39.120	5735.400	5774.520	---	---
	Ant1	5795	39.600	5775.080	5814.680	---	---
	Ant2	5795	39.600	5775.240	5814.840	---	---
11AX80MIMO	Ant1	5210	80.960	5169.040	5250.000	---	---
	Ant2	5210	80.480	5169.520	5250.000	---	---
	Ant1	5290	80.160	5249.680	5329.840	---	---
	Ant2	5290	80.160	5250.160	5330.320	---	---
	Ant1	5530	79.840	5490.000	5569.840	---	---
	Ant2	5530	80.000	5490.000	5570.000	---	---
	Ant1	5610	80.000	5570.000	5650.000	---	---
	Ant2	5610	80.160	5570.160	5650.320	---	---
	Ant1	5775	80.320	5734.680	5815.000	---	---
	Ant2	5775	81.120	5734.360	5815.480	---	---
11AX160MIMO	Ant1	5250	162.560	5168.080	5330.640	---	---
	Ant2	5250	161.920	5168.720	5330.640	---	---
	Ant1	5250_UNII-1	81.92	5168.080	5250	---	---
	Ant2	5250_UNII-1	81.28	5168.720	5250	---	---
	Ant1	5250_UNII-2A	80.64	5250	5330.640	---	---
	Ant2	5250_UNII-2A	80.64	5250	5330.640	---	---
	Ant1	5570	162.240	5488.400	5650.640	---	---
	Ant2	5570	161.600	5489.040	5650.640	---	---

11A-CDD_Ant1_5180

11A-CDD_Ant2_5180

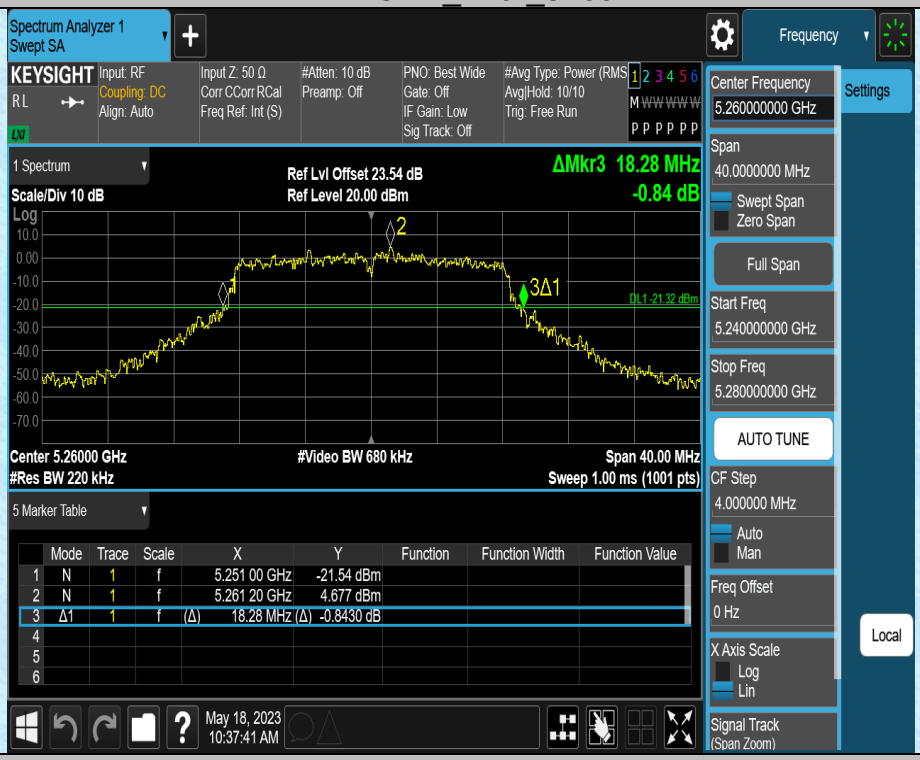
11A-CDD_Ant1_5200

11A-CDD_Ant2_5200

11A-CDD_Ant1_5240

11A-CDD_Ant2_5240

11A-CDD_Ant1_5260



11A-CDD_Ant2_5260

11A-CDD_Ant1_5280

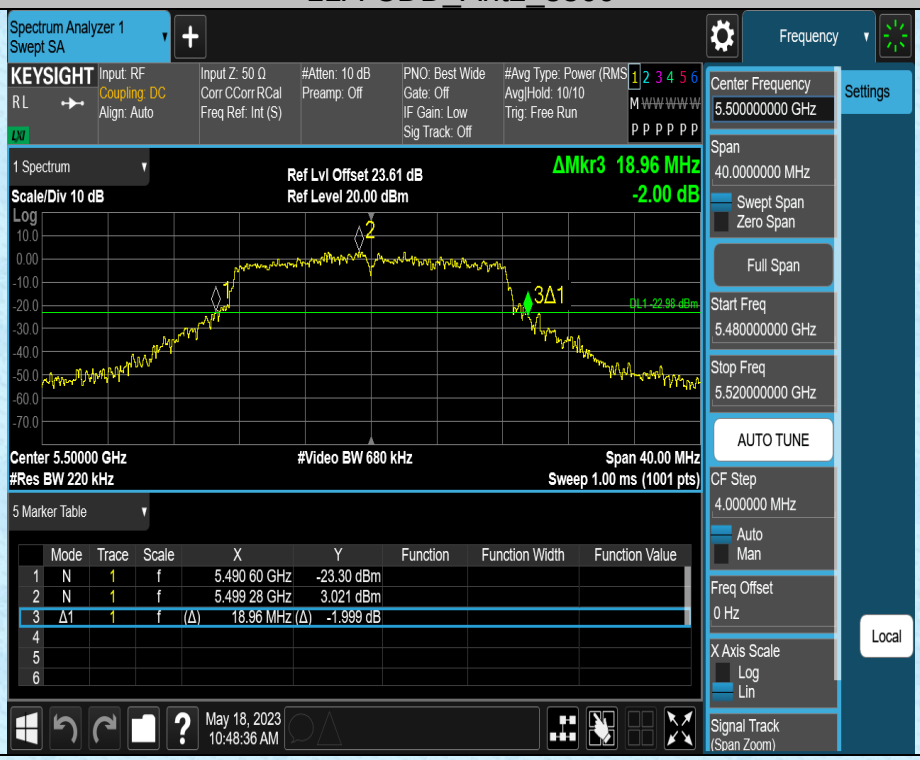
11A-CDD_Ant2_5280

11A-CDD_Ant1_5320

11A-CDD_Ant2_5320

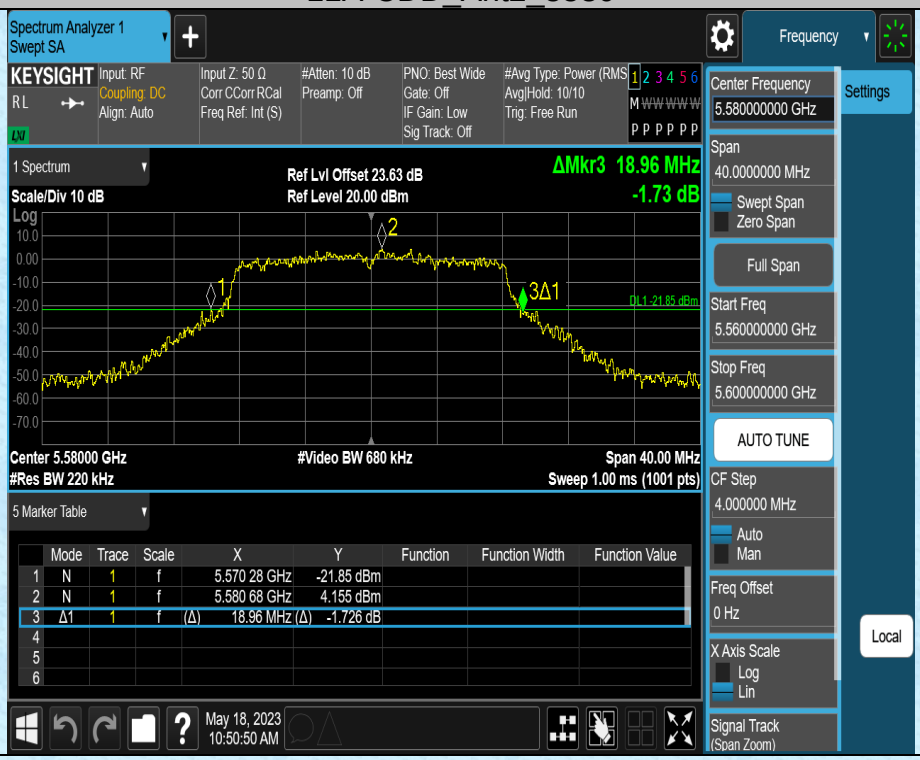
11A-CDD_Ant1_5500

11A-CDD_Ant2_5500



11A-CDD_Ant1_5580

11A-CDD_Ant2_5580



11A-CDD_Ant1_5700

11A-CDD_Ant2_5700

11A-CDD_Ant1_5745

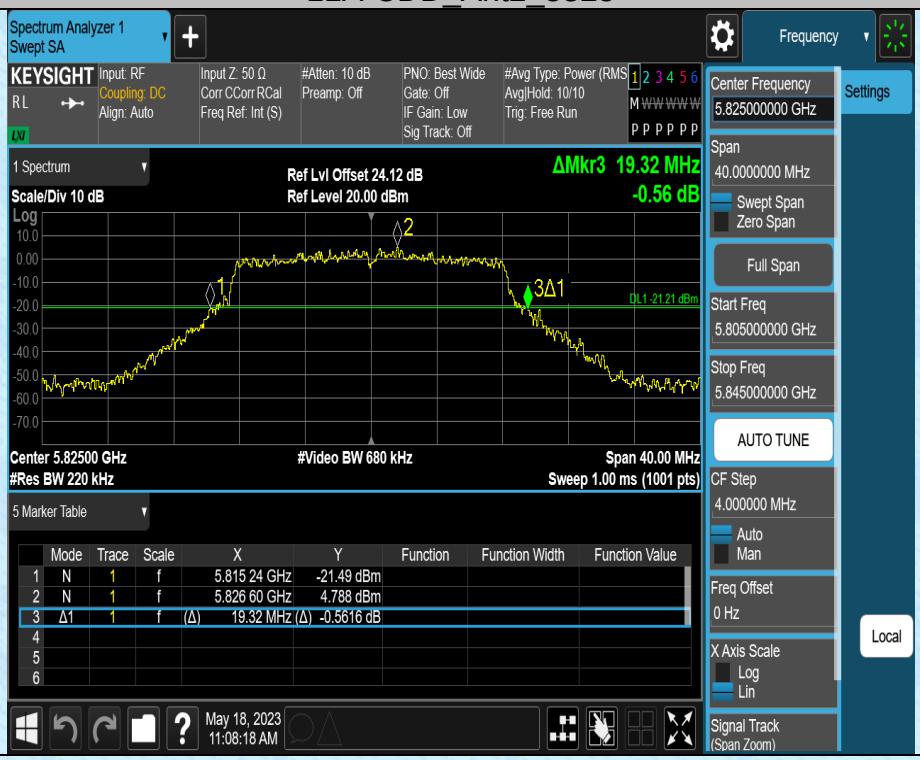
11A-CDD_Ant2_5745

11A-CDD_Ant1_5785

11A-CDD_Ant2_5785

11A-CDD_Ant1_5825

11A-CDD_Ant2_5825



11N20MIMO_Ant1_5180

11N20MIMO_Ant2_5180