

FCC PART 15E TEST REPORT FOR CERTIFICATION

On Behalf of

IAdea Corporation

Room Booking Panel

Model No.: IAD-18010A; IAD-18010L

FCC ID: Y9E-IAD18010A

Prepared for : IAdea Corporation

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Appendix A. Photograph of Test

Appendix B. Photo of the EUT

TEST REPORT CERTIFICATION

Applicant : IAdea Corporation
 Manufacturer : IAdea Corporation
 Product : Room Booking Panel
 FCC ID : Y9E-IAD18010A
 (A) Model No. : IAD-18010A; IAD-18010L
 (B) Serial No. : N/A
 (C) Test Voltage : AC 120V/60Hz

Tested for comply with:
 FCC CFR47 Part 15 Subpart E

Test procedure used:
 ANSI C63.10: 2013
 KDB789033D01

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart E requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Dec.04~20,2020 Report of date: Jan.14,2021

Prepared by : Brave Zhang / Assistant
 Reviewed by : Sunny Lu / Deputy Manager

 信華科技(深圳)有限公司
 Audix Technology (Shenzhen) Co., Ltd.
 EMC 部門報告專用章

Stamp only for EMC Dept. Report

Approved & Authorized Signer : David Jin
 David Jin / Deputy General Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 FCC Part 15: 15.407(b)(6)	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.205 FCC Part 15.407(b)	PASS
Band Edge Compliance	FCC Part 15: 15.407(b) FCC Part 15.205	PASS
6dB&26dB&99% Bandwidth Test	FCC Part 15: 15.407(e)	PASS
Output Power Test	FCC Part 15: 15.407(a)(5)	PASS
Equivalent Isotropic Radiated Power Test	FCC Part 15: 15.407(h)(1)	PASS
Power Spectral Density Test	FCC Part 15: 15.407(a)	PASS
Frequency Stability	FCC Part 15: 15.407(a)	PASS
Antenna requirement	FCC Part 15: 15.407(g)	PASS

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	IAddea Corporation
Applicant Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Manufacturer	IAddea Corporation
Manufacturer Address	3F, No.21, Lane 168, Xingshan Road, Neihu Dist. Taipei, 114 Taiwan
Product	Room Booking Panel
Model No.	IAD-18010A; IAD-18010L
FCC ID	Y9E-IAD18010A
AC Adapter	Manufacturer: Asian Power Devices Inc. Model No.: WB-24J12R Input: 100-240V~50-60Hz, 0.7A Max Output: DC 12V, 2.0A, 24W DC Cable: Unshielded, Undetachable, 1.8m.
Sample Type	Prototype production
Date of Receipt	Nov.23,2020
Date of Test	Dec.04~20,2020
Remark: This report only for WIFI 5GHz.	

2.2.Feature of Equipment Under Test

Product Feature & Specification		
Product	Room Booking Panel	
Model No.	IAD-18010A; IAD-18010L	
Radio	IEEE802.11 a/b/g/n/ac	
Power Source	<input checked="" type="checkbox"/> Commercial Power	AC 100 ~ 240V, 50/60Hz, 0.7A
	<input checked="" type="checkbox"/> External Power Source	DC 12V, 2.0A, 24W
	<input type="checkbox"/> Lithium battery	DC V, mAh
	<input type="checkbox"/> UM battery	DC V
2.4GHz Wi-Fi		
Support Modes	802.11b/g/n20	
Frequency Range	2412-2462MHz	
Type of Modulation	802.11b(DSSS): CCK, QPSK, BPSK; 802.11g/n(OFDM): 64QAM,16QAM, QPSK, BPSK	
Data Rate	802.11b: 1/2/5.5/11 Mbps; 802.11g: 6/9/12/18/24/36/48/54 Mbps; 802.11n: up to 150Mbps	
Channel Separation	5MHz	
5GHz Wi-Fi		
Support Modes	802.11a/n20/n40/ac20/ac40/ac80	
Frequency Range	5180-5240MHz, 5745-5825MHz	
Type of Modulation	802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM 802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM	
Data Rate	802.11a: 6/9/12/18/24/36/48/54 Mbps; 802.11n/ac: up to 433Mbps	
Channel Separation	5MHz	
Antenna System		
Type of Antenna	FPC Antenna	
Antenna Peak Gain	DTS Band (2400-2483.5MHz) Peak Gain: 2.3dBi. U-NII-1 Band (5150-5250MHz) Peak Gain: 3.5dBi. U-NII-3 Band (5725-5850MHz) Peak Gain: 5.1dBi.	

2.3. Test Information

A special test software(Ampak RFTTestTool) was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

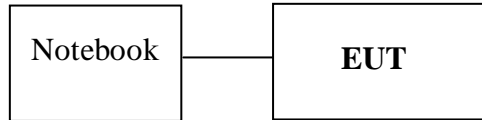
Tested mode, channel, power setting and data rate information				
Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)	Power setting
IEEE 802.11a	6	Low :CH36	5180	55
	6	Middle: CH40	5200	55
	6	High: CH48	5240	55
	6	Low :CH149	5745	50
	6	Middle: CH157	5785	50
	6	High: CH165	5825	50
IEEE 802.11nHT20	MCS0	Low :CH36	5180	55
	MCS0	Middle: CH40	5200	55
	MCS0	High: CH48	5240	55
	MCS0	Low :CH149	5745	50
	MCS0	Middle: CH157	5785	50
	MCS0	High: CH165	5825	50
IEEE 802.11nHT40	MCS0	Low :CH38	5190	55
	MCS0	High: CH46	5230	55
	MCS0	Low :CH151	5755	50
	MCS0	High: CH159	5795	50
IEEE 802.11acVHT20	MCS0	Low :CH36	5180	55
	MCS0	Middle: CH40	5200	55
	MCS0	High: CH48	5240	55
	MCS0	Low :CH149	5745	50
	MCS0	Middle: CH157	5785	50
	MCS0	High: CH165	5825	50
IEEE 802.11acVHT40	MCS0	Low :CH38	5190	55
	MCS0	High: CH46	5230	55
	MCS0	Low :CH151	5755	50
	MCS0	High: CH159	5795	50
IEEE 802.11acVHT80	MCS0	CH42	5210	55
	MCS0	CH155	5775	50

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.4. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	acer	ZOW	NVX7C
USB Cable: Shielded, Detachable, 1.0m					

2.5. Block diagram of connection between the EUT and simulators



(EUT: Room Booking Panel)

2.6. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

: No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Accredited by Industry Canada
: Registration Number: IC 5183A-1
Valid Date: Mar.31, 2021

: Accredited by DAkkS, Germany
: Registration No: D-PL-12151-01-00
Valid Date: Dec.07, 2021

: Accredited by NVLAP, USA
: NVLAP Code: 200372-0
Valid Date: Mar.31, 2021

: Certificated by FCC USA.
: Designation No.: CN5022
Valid Date: Mar.31, 2021

2.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB(150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.6dB(30~200MHz, Polarization: H)
	4.0dB(30~200MHz, Polarization: V)
	3.6dB(200M~1GHz, Polarization: H)
	3.8dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber(1GHz-25GHz)	4.6dB(1~6GHz, Distance: 3m)
	4.6dB(6~25GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.7dB(30MHz~1000MHz)
	3.3dB(1~26.5GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	1.9%
Uncertainty for test site temperature and humidity	0.6°C
	3%

Note: EMI uncertainty is evaluated by CISPR16-4-2.

The value of measurement uncertainty of EMI is less than U_{CISPR} .

The value is not calculated in the test results.

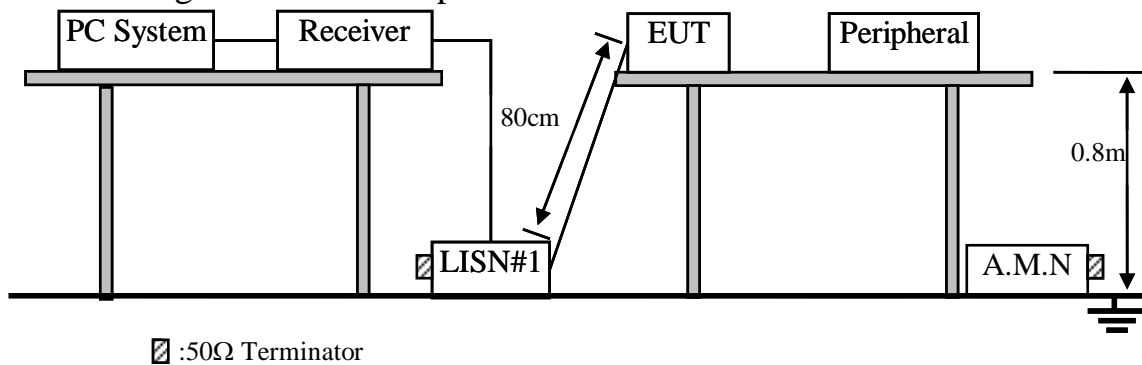
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	3 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.12,20	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.11,20	1 Year
4.	A.M.N	Kyoritsu	KNW-403D	8-1750-2	Apr.12,20	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.12,20	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.12,20	1 Year
7.	RF Cable	EMCI	EMCCFD300-BM-NM-2000	190422	Apr.12,20	1 Year
8.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

- Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Room Booking Panel (EUT)

Model No. : IAD-18010A
Serial No. : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT as shown as Section 3.2.
- 3.5.2. Turn on the power of EUT.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6. Test Procedure

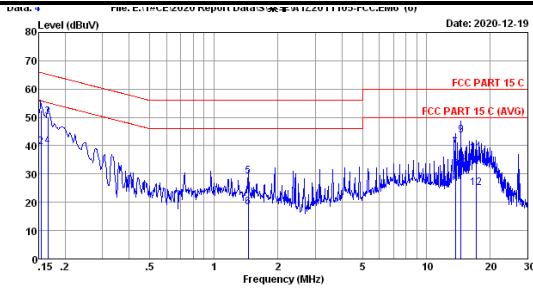
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Test Results

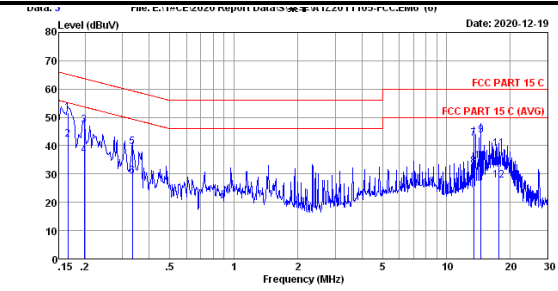
PASS. (All emissions not reported below are too low against the prescribed limits.)



Site no :1# Conduction Data No :4
 Dis./Lisn :2020 ENV216-L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power rating : AC 120V/60Hz
 Test Mode :WIFI 5G Band1 TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.70	0.01	42.70	52.41	65.78	13.37	QP
2	0.154	9.70	0.01	29.80	39.51	55.78	16.27	Average
3	0.166	9.70	0.01	40.62	50.33	65.16	14.83	QP
4	0.166	9.70	0.01	30.20	39.91	55.16	15.25	Average
5	1.449	9.70	0.02	19.48	29.20	56.00	26.80	QP
6	1.449	9.70	0.02	8.50	18.22	46.00	27.78	Average
7	13.695	9.80	0.07	29.30	39.17	60.00	20.83	QP
8	13.695	9.80	0.07	17.98	27.85	50.00	22.15	Average
9	14.517	9.80	0.08	33.73	43.61	60.00	16.39	QP
10	14.517	9.80	0.08	22.10	31.98	50.00	18.02	Average
11	17.199	9.84	0.09	27.70	37.63	60.00	22.37	QP
12	17.199	9.84	0.09	15.10	25.03	50.00	24.97	Average

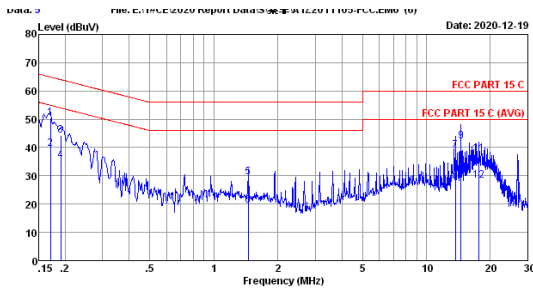
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# Conduction Data No :3
 Dis./Lisn :2020 ENV216-N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power rating : AC 120V/60Hz
 Test Mode :WIFI 5G Band1 TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.166	9.70	0.01	41.90	51.61	65.16	13.55	QP
2	0.166	9.70	0.01	32.60	42.31	55.16	12.85	Average
3	0.198	9.70	0.01	37.63	47.34	63.71	16.37	QP
4	0.198	9.70	0.01	26.90	36.61	53.71	17.10	Average
5	0.334	9.70	0.01	29.73	39.44	59.35	19.91	QP
6	0.334	9.70	0.01	19.50	29.21	49.35	20.14	Average
7	13.408	9.80	0.07	32.70	42.57	60.00	17.43	QP
8	13.408	9.80	0.07	22.80	32.67	50.00	17.33	Average
9	14.517	9.80	0.08	33.85	43.73	60.00	16.27	QP
10	14.517	9.80	0.08	24.70	34.58	50.00	15.42	Average
11	17.661	9.85	0.09	29.00	38.94	60.00	21.06	QP
12	17.661	9.85	0.09	17.90	27.84	50.00	22.16	Average

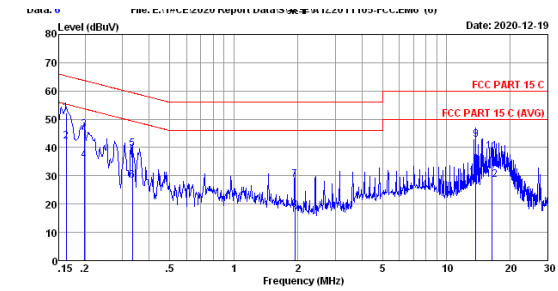
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# Conduction Data No :5
 Dis./Lisn :2020 ENV216-L LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power rating : AC 120V/60Hz
 Test Mode :WIFI 5G Band4 TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.170	9.70	0.01	40.84	50.55	64.94	14.39	QP
2	0.170	9.70	0.01	29.80	39.51	54.94	15.43	Average
3	0.190	9.70	0.01	34.61	44.32	64.02	19.70	QP
4	0.190	9.70	0.01	25.60	35.31	54.02	18.71	Average
5	1.449	9.70	0.02	19.33	29.05	56.00	26.95	QP
6	1.449	9.70	0.02	9.70	19.42	46.00	26.58	Average
7	13.695	9.80	0.07	29.02	38.89	60.00	21.11	QP
8	13.695	9.80	0.07	18.50	28.37	50.00	21.63	Average
9	14.517	9.80	0.08	32.34	42.22	60.00	17.78	QP
10	14.517	9.80	0.08	20.80	30.68	50.00	19.32	Average
11	17.661	9.85	0.09	27.95	37.89	60.00	22.11	QP
12	17.661	9.85	0.09	18.50	28.44	50.00	21.56	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no :1# Conduction Data No :6
 Dis./Lisn :2020 ENV216-N LISN phase:
 Limit :FCC PART 15 C
 Env./Ins. :23.8°C/51% Engineer :Allen
 Power rating : AC 120V/60Hz
 Test Mode :WIFI 5G Band4 TX

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.162	9.70	0.01	42.60	52.31	65.34	13.03	QP
2	0.162	9.70	0.01	32.60	42.31	55.34	13.03	Average
3	0.198	9.70	0.01	36.65	46.36	63.71	17.35	QP
4	0.198	9.70	0.01	25.80	35.51	53.71	18.20	Average
5	0.334	9.70	0.01	29.71	39.42	59.35	19.93	QP
6	0.334	9.70	0.01	18.50	28.21	49.35	21.14	Average
7	1.939	9.70	0.03	18.79	28.52	56.00	27.48	QP
8	1.939	9.70	0.03	8.20	17.93	46.00	28.07	Average
9	13.768	9.80	0.08	33.02	42.90	60.00	17.10	QP
10	13.768	9.80	0.08	19.50	29.38	50.00	20.62	Average
11	16.398	9.85	0.09	28.77	38.69	60.00	21.31	QP
12	16.398	9.85	0.09	18.69	28.61	50.00	21.39	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipment

4.1.1. For frequency range 30 MHz ~1000MHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(NSA)	AUDIX	N/A	N/A	May.03,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.12,20	1 Year
5.	Amplifier	HP	8447D	2648A04738	Apr.11,20	1 Year
6.	Bi log Antenna	TESEQ	CBL6112D	25237	Dec.22,20	1 Year
7.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.11,20	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.11,20	1 Year
9.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

Note: N/A means Not applicable.

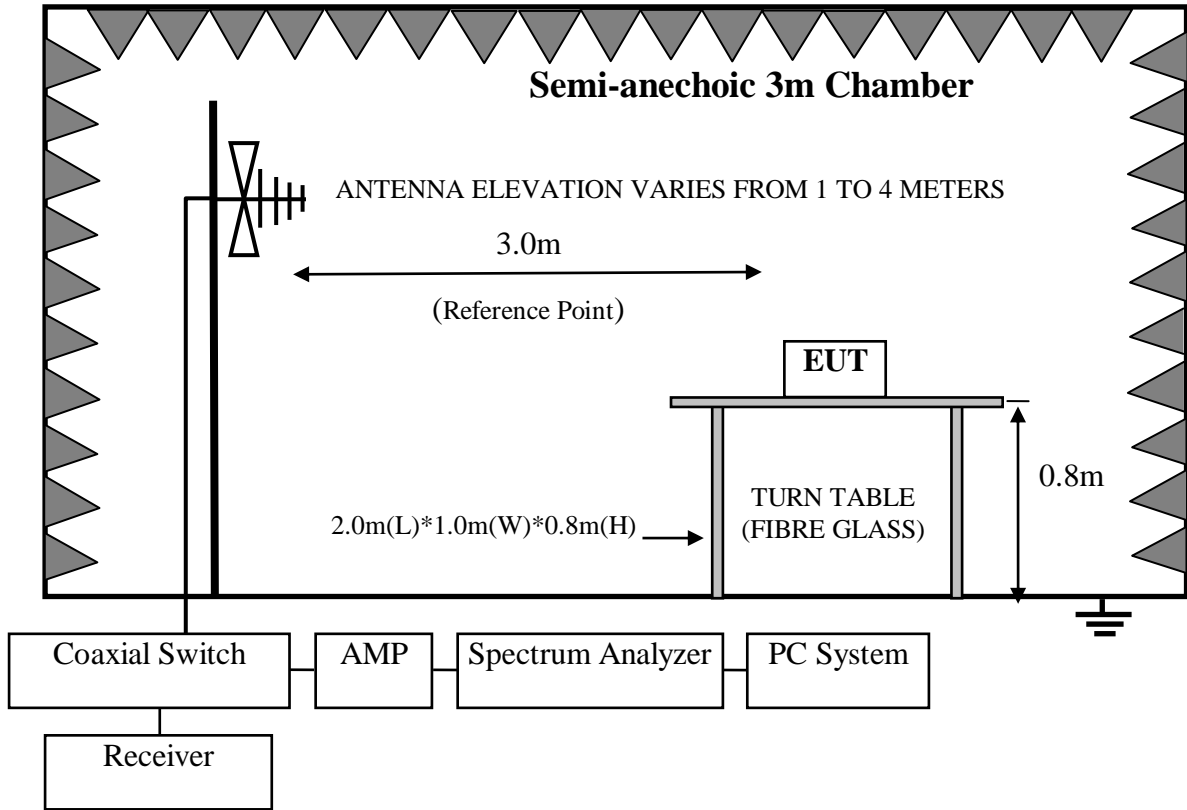
4.1.2. For frequency range 1GHz~40GHz (In 3m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(Svswr)	AUDIX	N/A	N/A	Apr.15,20	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	3 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Apr.11,20	1 Year
4.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jul.30,20	1 Year
5.	Horn Antenna	ETS	3116	00060089	Dec.09,20	1 Year
6.	Amplifier	Agilent	83017A	MY53270084	Oct.11,20	1 Year
7.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.11,20	1 Year
8.	Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A	N/A

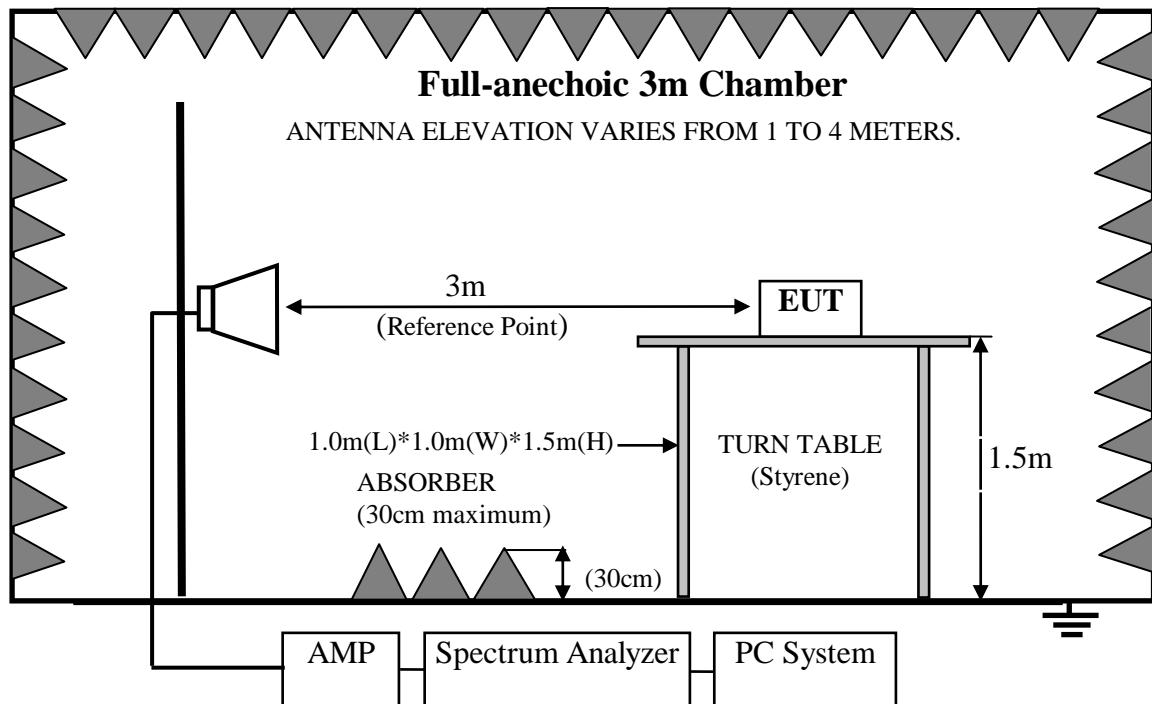
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.3. Radiated Emission Limit

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

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz and those emissions appearing within 15.205 restricted frequency bands must comply with the general field strength limits set forth in Section 15.209.

4.3.1. 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remarks : (1) Emission level dBµV = 20 log Emission level µV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3.2. 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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	(²)

4.4.EUT Configuration on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

4.4.1. Room Booking Panel (EUT)

Model No. : IAD-18010A

Serial No. : N/A

4.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx mode.

4.6.Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground . The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2013 on radiated emission Test.

For emissions below 1GHz and those emissions appearing within 15.205 restricted frequency bands use below procedure:

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

Maximum Peak emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW \geq 3 MHz.
- (c) Detector = Peak.
- (d) Sweep time = auto.
- (e) Trace mode = max hold.
- (f) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

Maximum Average emission levels are measured by setting the analyzer as follows:

- (a) RBW = 1 MHz.
- (b) VBW \geq 3 MHz.
- (c) Detector = power averaging (rms), if $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.
- (d) Averaging type = power averaging (rms)
As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
- (e) Sweep time = auto.
- (f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of $1/x$, where x is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)
- (g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.
 - If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.
 - If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

For the emissions above 1GHz and not appearing within 15.205 restricted frequency bands use below procedure:

- (1).The maximum emission at 3m distance was measured and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (2).The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (3). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (4).Repeated step 4 with both antenna polarizations
- (5).The spurious emissions is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna. or use procedure (6).
- (6). Per KDB789033 clause H 2)d).if the test distance is 3m,the $EIRP(dBm)=E(dB\mu v/m)-95.2$
Get the result of all unwanted emission outside the restricted band is less than the $-27dBm/MHz$.

We had checked frequency range that is 30MHz to 10th harmonic (40GHz) and no any emissions were found from 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

4.7.Radiated Emission Test Results

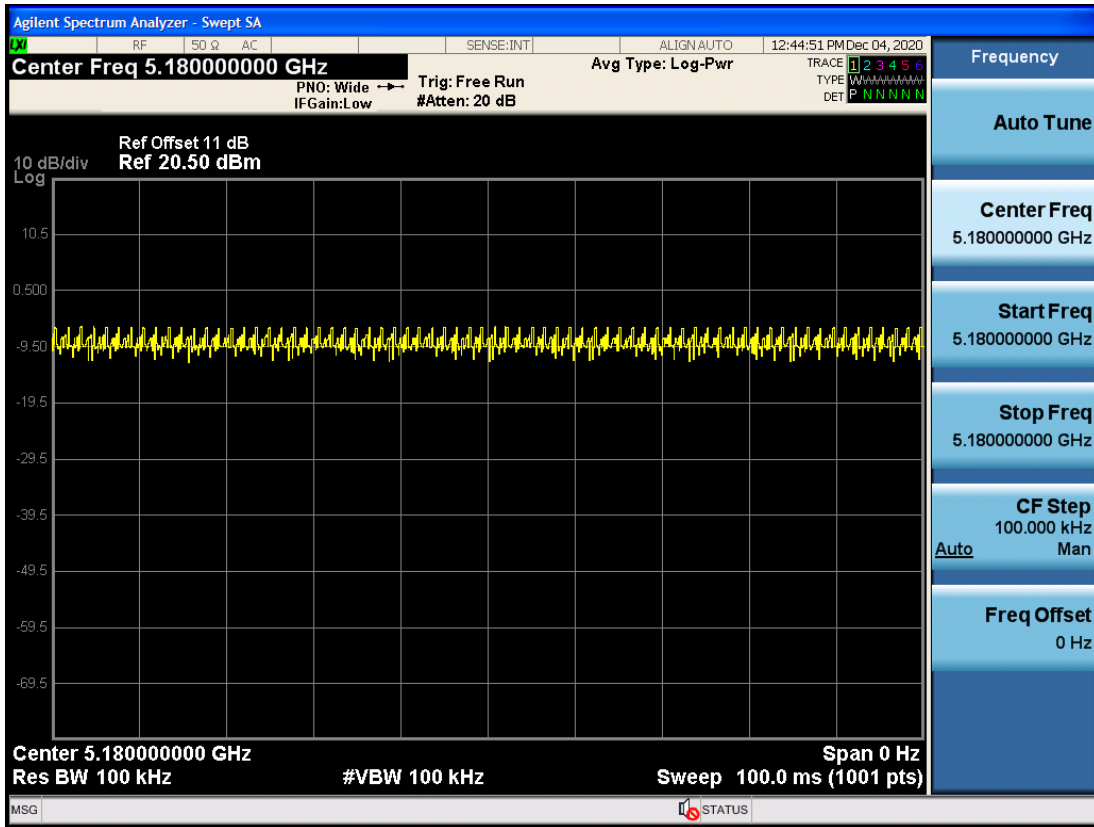
PASS.

All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.

All other emission comply with 15.407 (b)(1) requirements.

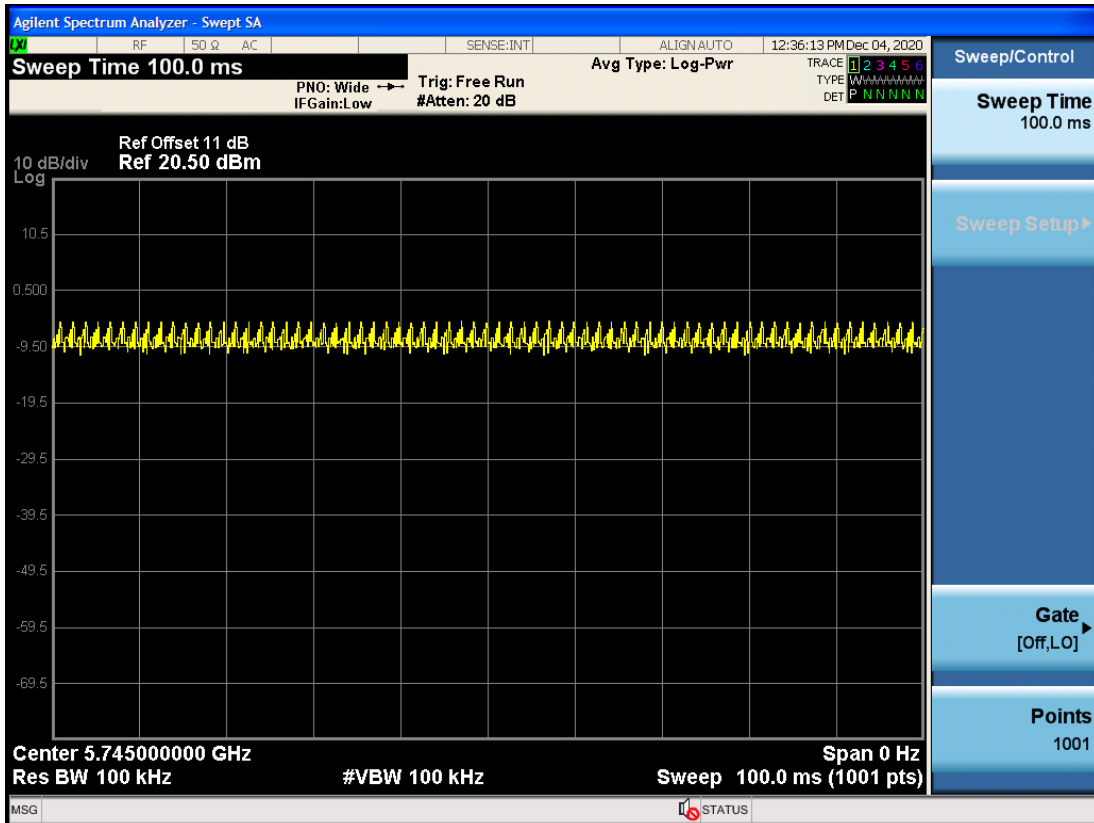
Note: The emissions (9kHz~30MHz) not reported for there is no emission be found.

Duty cycle
U-NII-1 Band:



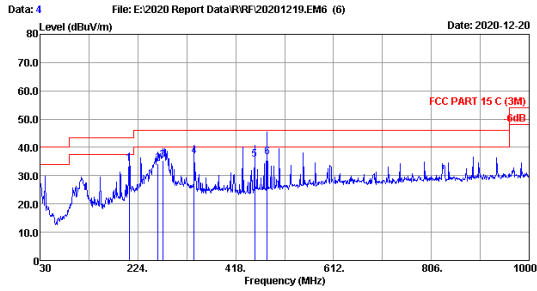
Note: The duty cycle of the test signal is 100%.

U-NII-3 Band:



Note: The duty cycle of the test signal is 100%.

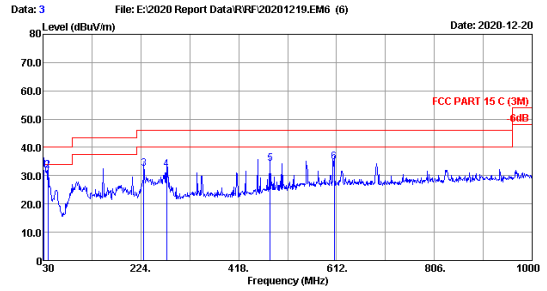
Frequency: 30MHz~1GHz



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 5G Band1 TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	206.540	14.93	1.49	17.69	34.11	43.50	9.39	QP
2	263.770	19.25	1.62	13.39	34.26	46.00	11.74	QP
3	273.470	18.87	1.65	15.03	35.55	46.00	10.45	QP
4	335.550	19.70	1.84	15.31	36.85	46.00	9.15	QP
5	455.830	22.53	2.20	11.12	35.85	46.00	10.15	QP
6	480.080	23.06	2.28	11.12	36.46	46.00	9.54	QP

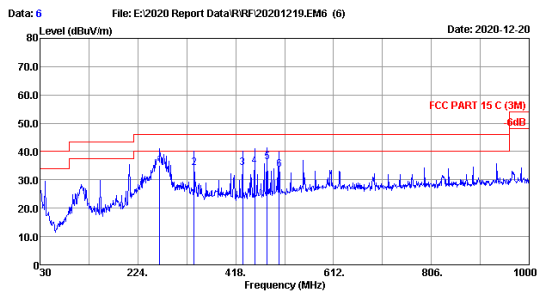
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 5G Band1 TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	23.18	0.64	8.48	32.30	40.00	7.70	QP
2	39.700	19.10	0.69	12.21	32.00	40.00	8.00	QP
3	229.820	16.05	1.51	14.77	32.33	46.00	13.67	QP
4	275.410	18.79	1.66	11.87	32.32	46.00	13.68	QP
5	480.080	23.06	2.28	8.94	34.28	46.00	11.72	QP
6	607.150	24.91	2.59	7.32	34.82	46.00	11.18	QP

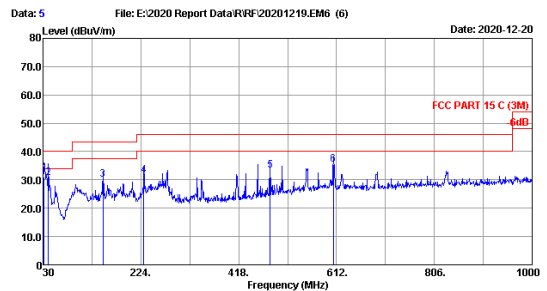
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 5G Band4 TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	267.650	19.10	1.63	14.35	35.08	46.00	10.92	QP
2	335.550	19.70	1.84	12.75	34.29	46.00	11.71	QP
3	431.580	22.00	2.13	10.05	34.18	46.00	11.82	QP
4	455.830	22.53	2.20	10.18	34.91	46.00	11.09	QP
5	480.080	23.06	2.28	10.99	36.33	46.00	9.67	QP
6	504.330	23.55	2.35	7.85	33.75	46.00	12.25	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

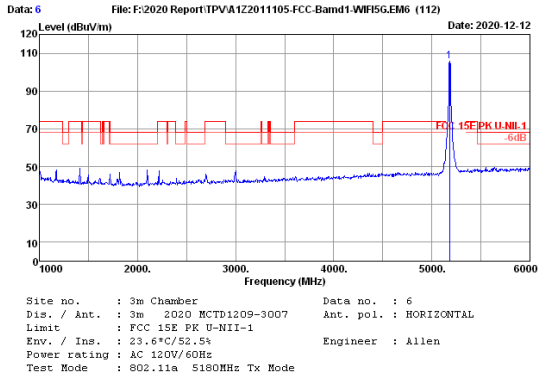


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2019 CBL6112D-25237 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 23.4°C/54% Engineer : Cote
 Power rating : AC 120V/60Hz
 Test Mode : WIFI 5G Band4 TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	23.18	0.64	7.26	31.08	40.00	8.92	QP
2	40.670	18.65	0.70	11.22	30.57	40.00	9.43	QP
3	149.310	16.39	1.23	12.39	30.01	43.50	13.49	QP
4	229.820	16.05	1.51	14.16	31.72	46.00	14.28	QP
5	480.080	23.06	2.28	8.06	33.40	46.00	12.60	QP
6	606.180	24.91	2.58	7.87	35.36	46.00	10.64	QP

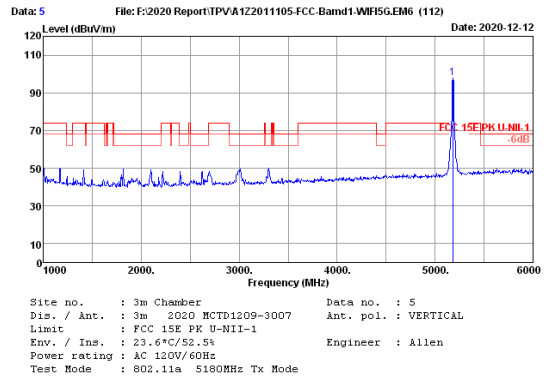
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz U-NII-1 Band:



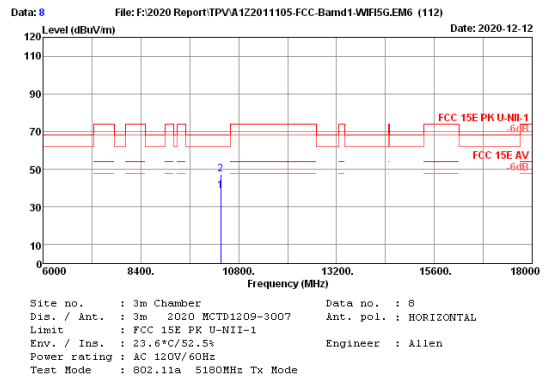
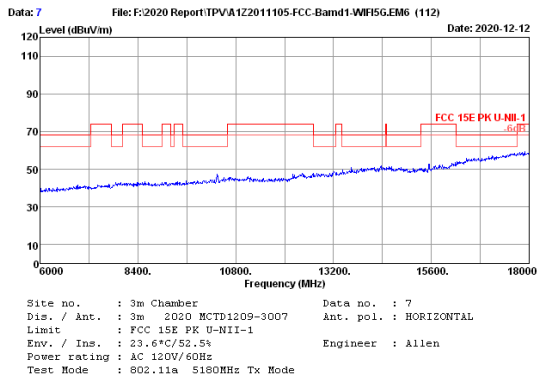
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	104.19	33.13	105.75			Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



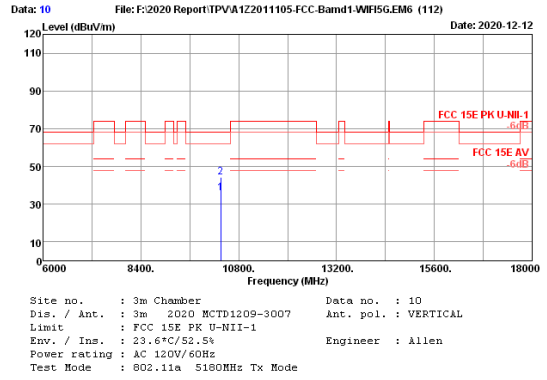
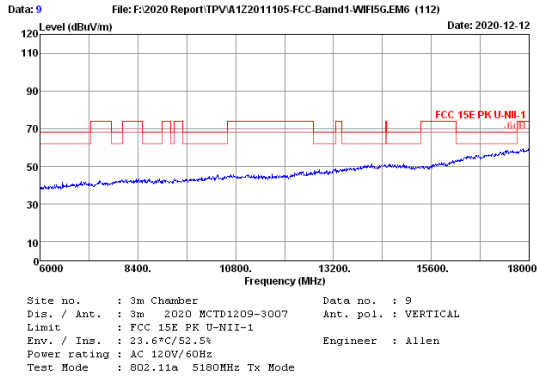
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	96.25	33.13	97.81			Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



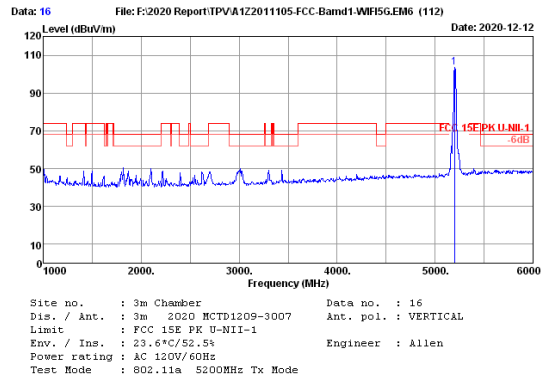
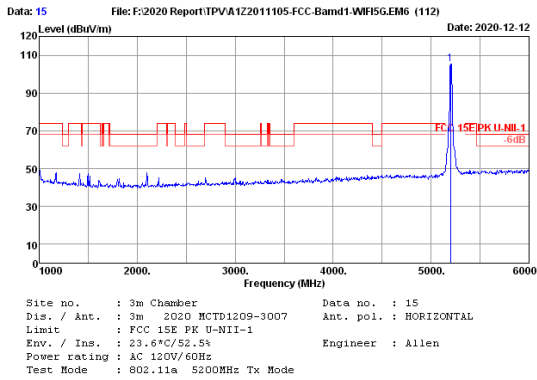
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10360.00	38.21	2.24	31.20	33.30	38.35			Average
2	10360.00	38.21	2.24	40.35	33.30	47.50	68.20	20.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10960.00	38.21	2.24	28.50	33.30	35.65	-----	-----	Average
2	10960.00	38.21	2.24	37.25	33.30	44.40	68.20	23.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

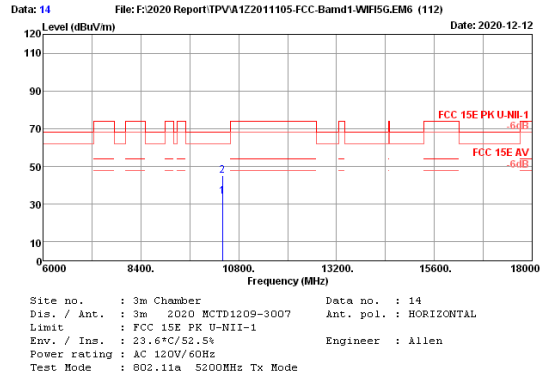
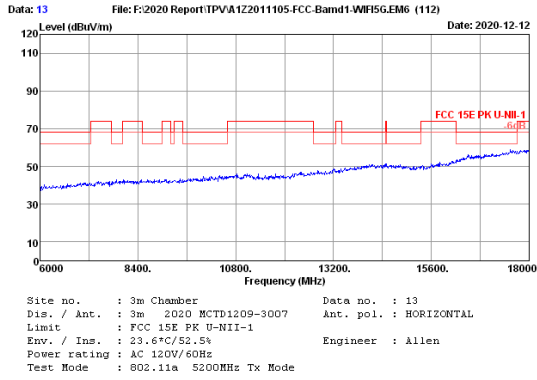


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	103.97	33.12	105.61	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

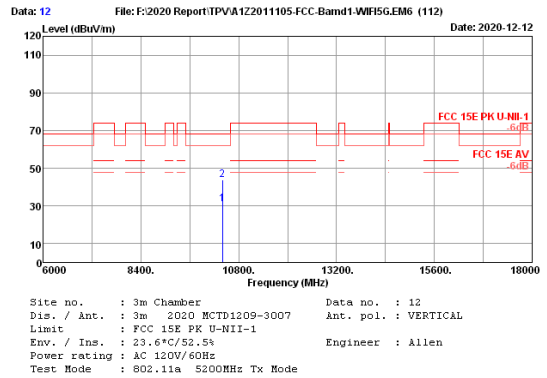
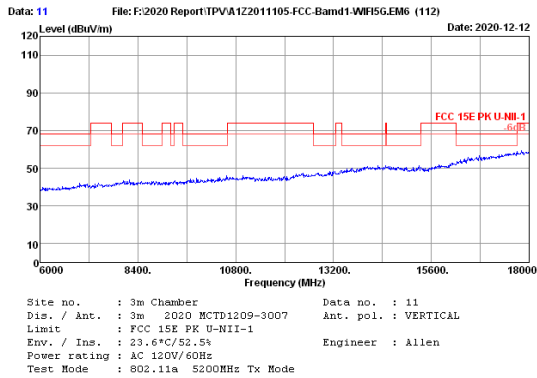
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	101.89	33.12	103.53	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



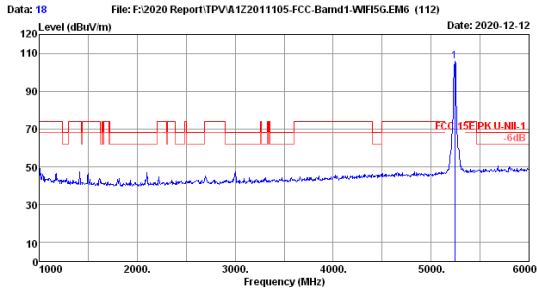
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.00	38.26	2.24	26.80	33.27	34.03	-----	-----	Average
2	10400.00	38.26	2.24	38.00	33.27	45.23	68.20	22.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.00	38.26	2.24	23.90	33.27	31.13	-----	-----	Average
2	10400.00	38.26	2.24	36.81	33.27	44.04	68.20	24.16	Peak

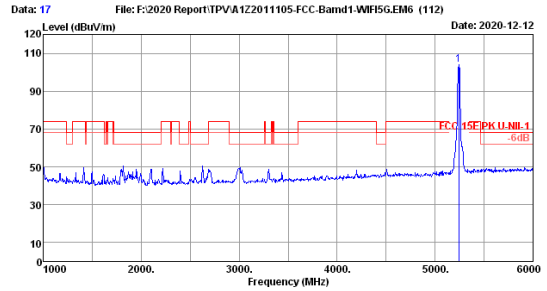
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	104.00	33.11	105.78			Peak

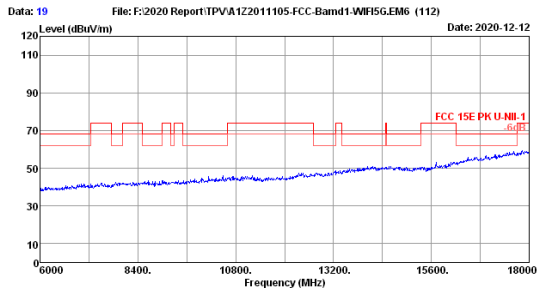
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	102.16	33.11	103.94			Peak

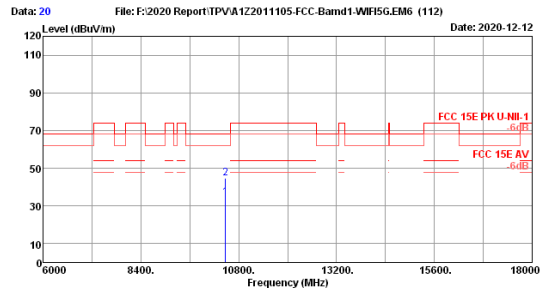
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5240MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.00	38.38	2.25	26.90	33.21	34.32			Average
2	10480.00	38.38	2.25	37.11	33.21	44.53	66.20	23.67	Peak

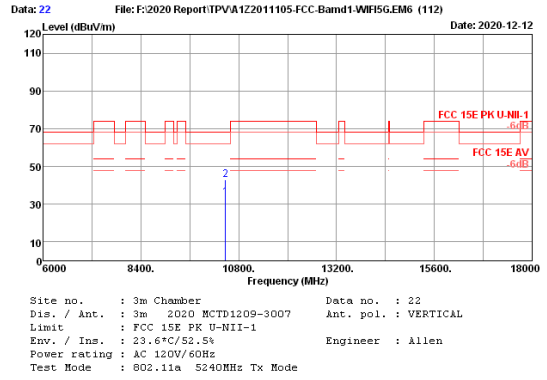
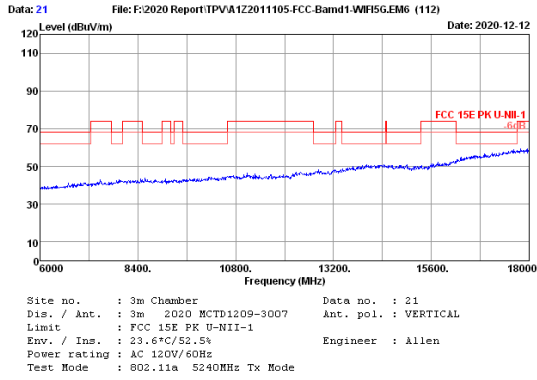
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5240MHz Tx Mode

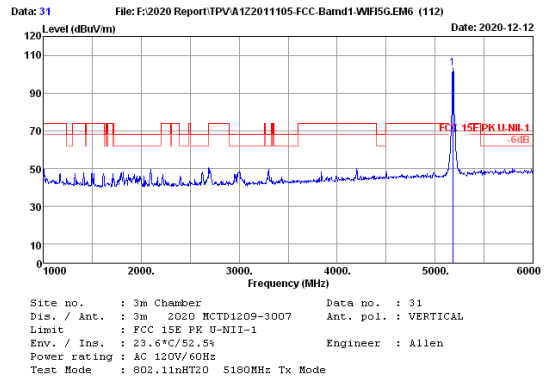
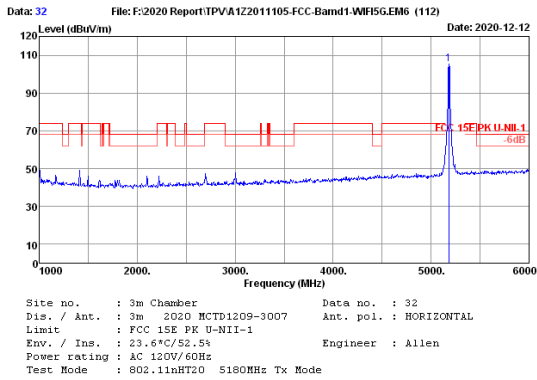
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.00	38.38	2.25	26.90	33.21	34.32			Average
2	10480.00	38.38	2.25	37.11	33.21	44.53	66.20	23.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.00	38.38	2.25	26.40	33.21	33.82	-----	-----	Average
2	10480.00	38.38	2.25	35.59	33.21	49.01	68.20	25.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

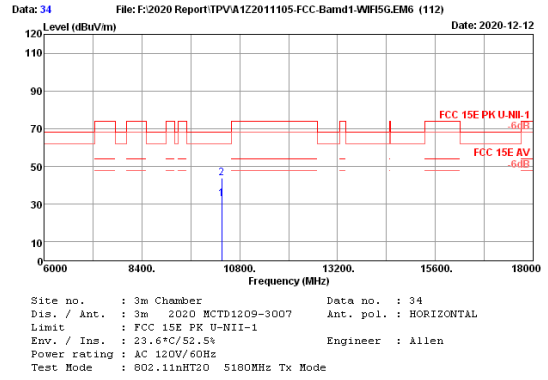
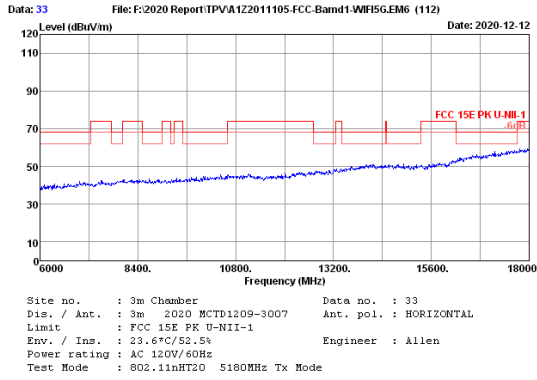


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	103.77	33.13	105.33	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

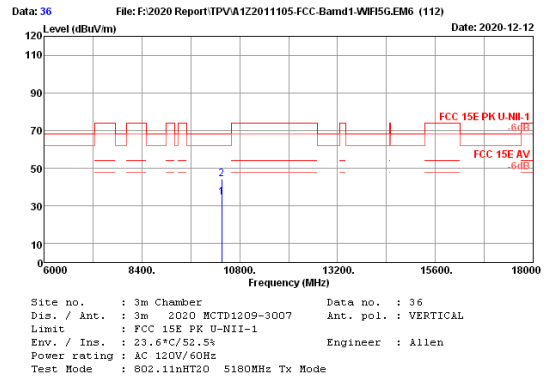
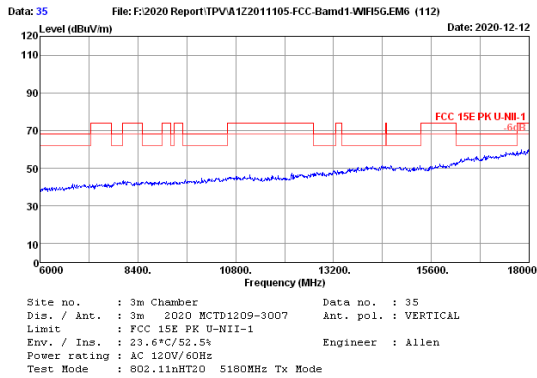
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	101.54	33.13	103.10	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



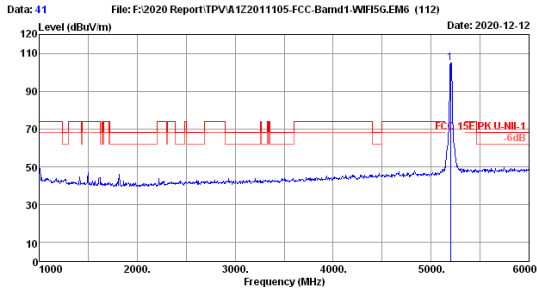
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10960.00	38.21	2.24	25.80	33.30	32.95	68.20	24.48	Average
2	10960.00	38.21	2.24	36.57	33.30	49.72	68.20	24.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10960.00	38.21	2.24	27.50	33.30	34.65	68.20	23.89	Average
2	10960.00	38.21	2.24	37.16	33.30	44.31	68.20	23.89	Peak

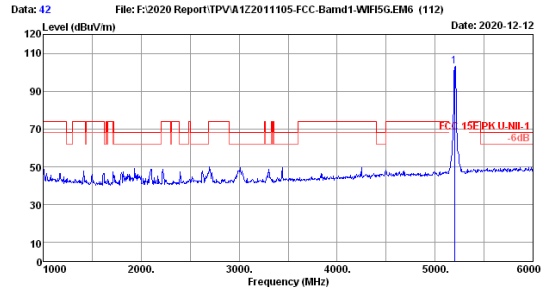
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	103.31	33.12	104.95			Peak

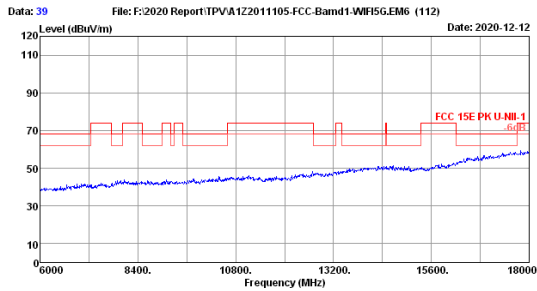
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	101.67	33.12	103.31			Peak

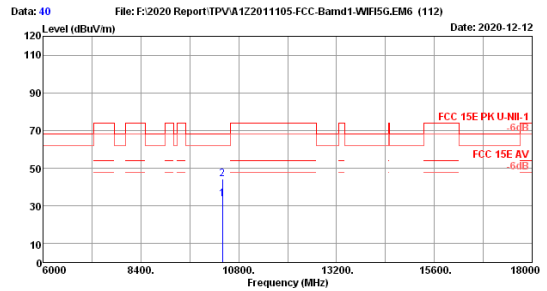
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 39
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5200MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.00	38.26	2.24	26.30	33.27	33.53			Average
2	10400.00	38.26	2.24	37.26	33.27	44.49	68.20	23.71	Peak

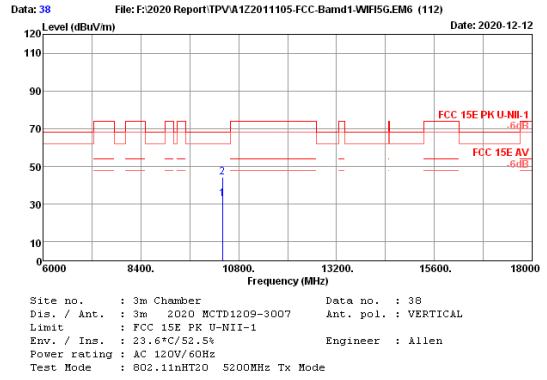
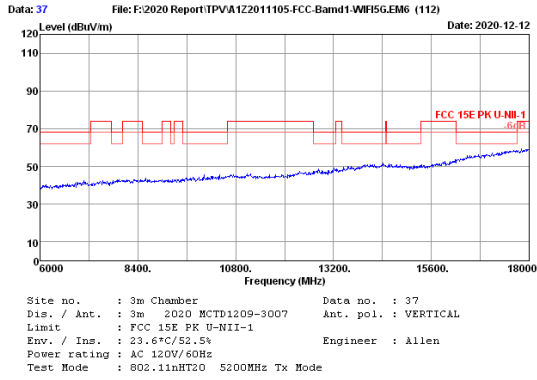
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 40
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5200MHz Tx Mode

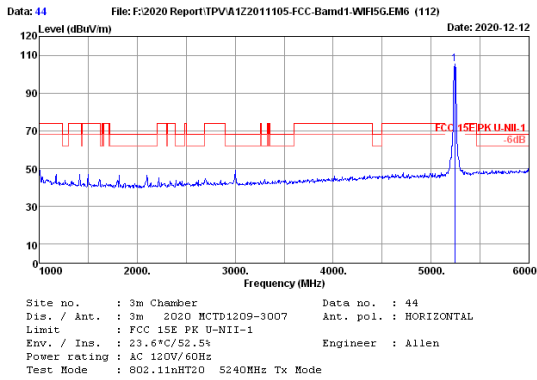
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.00	38.26	2.24	26.30	33.27	33.53			Average
2	10400.00	38.26	2.24	37.26	33.27	44.49	68.20	23.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



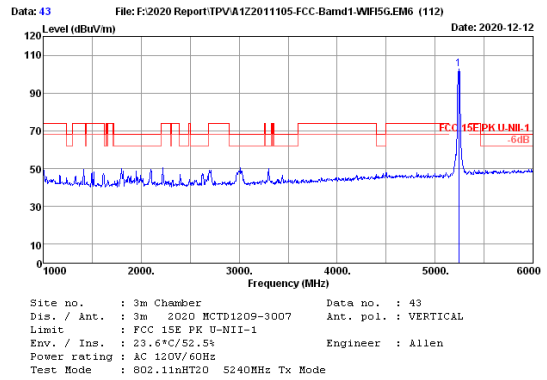
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10400.00	38.26	2.24	25.60	33.27	32.83	-----	-----	Average
2	10400.00	38.26	2.24	36.98	33.27	44.21	68.20	23.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



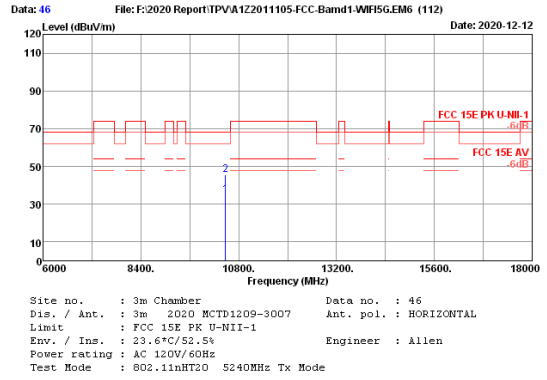
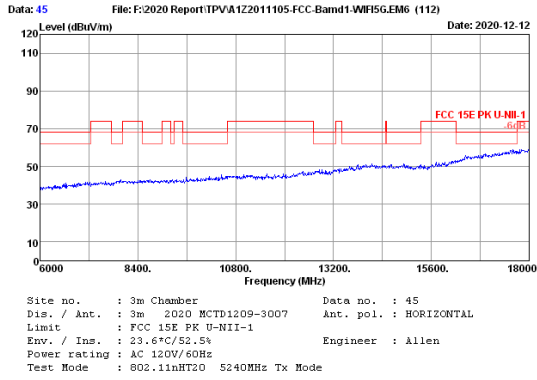
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	103.50	33.11	105.28	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



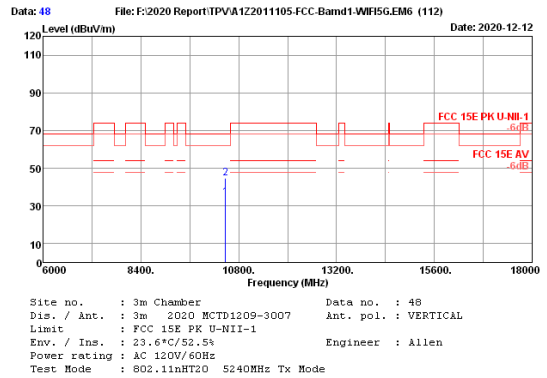
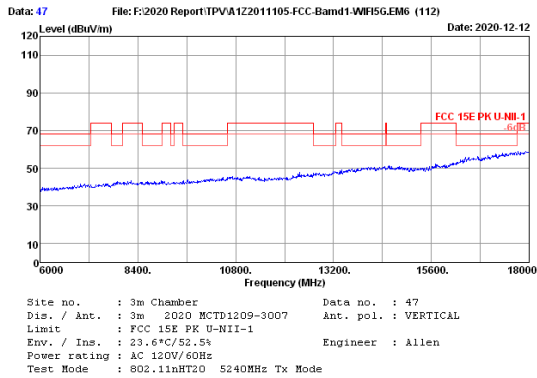
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	100.87	33.11	102.65	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



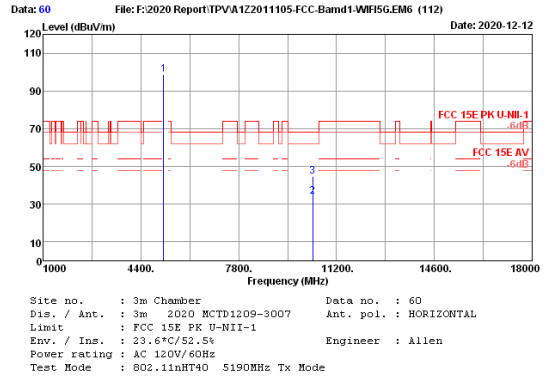
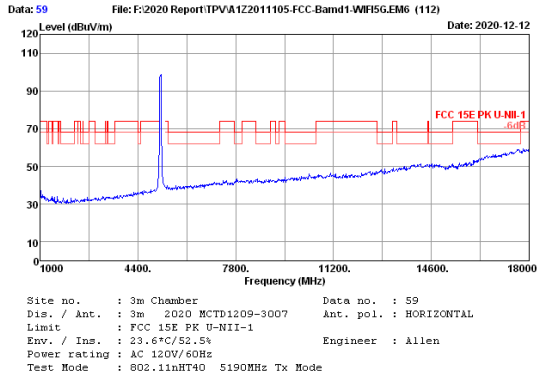
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.00	38.38	2.25	27.50	33.21	34.92	-----	-----	Average
2	10480.00	38.38	2.25	38.08	33.21	45.50	68.20	22.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



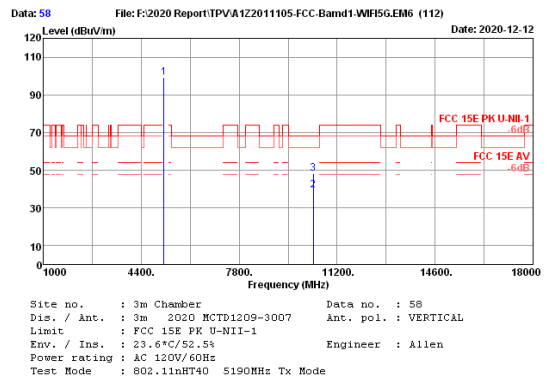
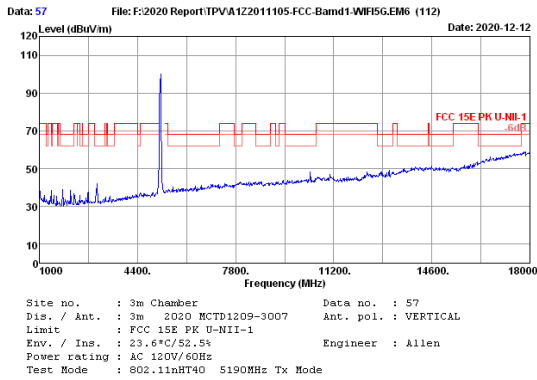
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10480.00	38.38	2.25	26.90	33.21	34.32	-----	-----	Average
2	10480.00	38.38	2.25	37.47	33.21	44.89	68.20	23.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



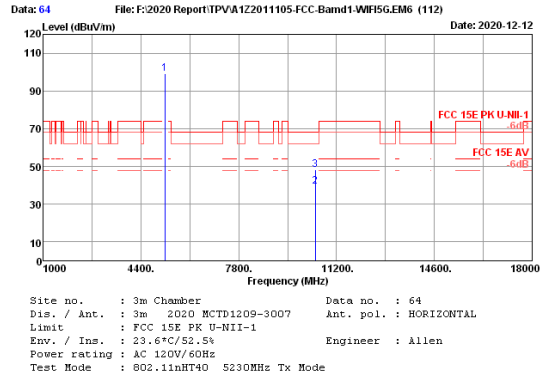
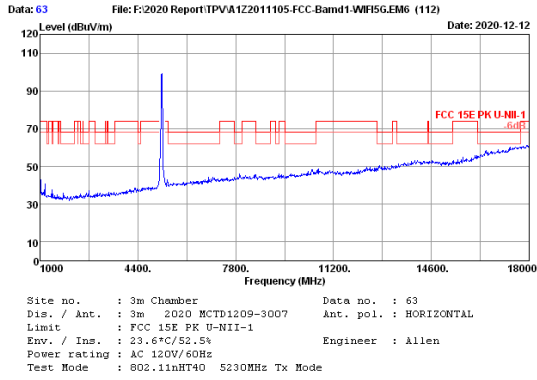
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.26	1.44	97.20	33.13	98.77	-----	-----	Peak
2	10380.00	38.24	2.24	26.90	33.29	34.09	-----	-----	Average
3	10380.00	38.24	2.24	37.37	33.29	44.56	68.20	23.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



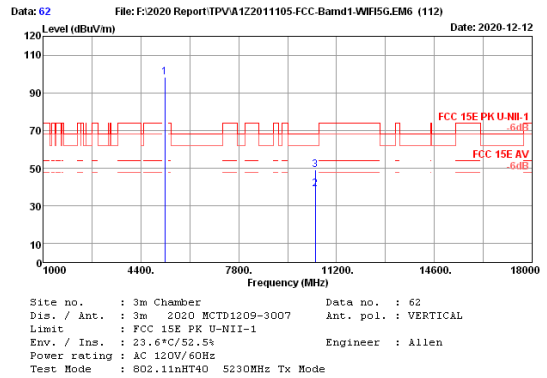
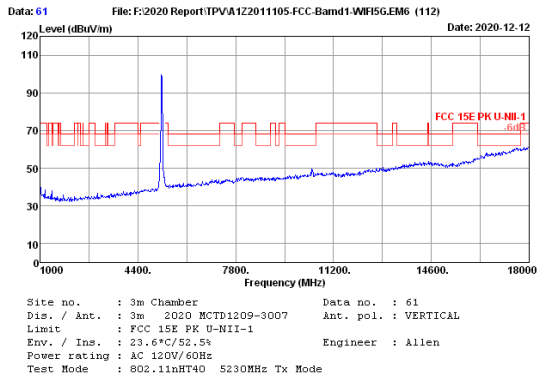
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.26	1.44	97.57	33.13	99.14	-----	-----	Peak
2	10380.00	38.24	2.24	32.20	33.29	39.39	-----	-----	Average
3	10380.00	38.24	2.24	41.02	33.29	48.21	68.20	19.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



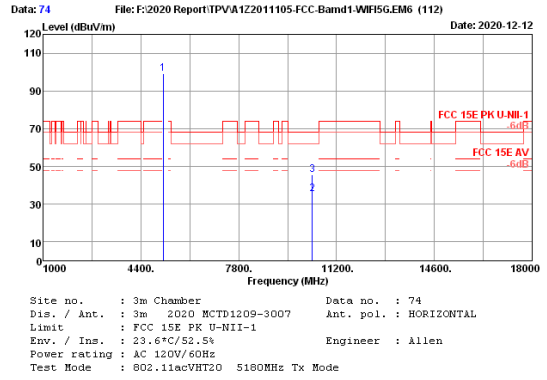
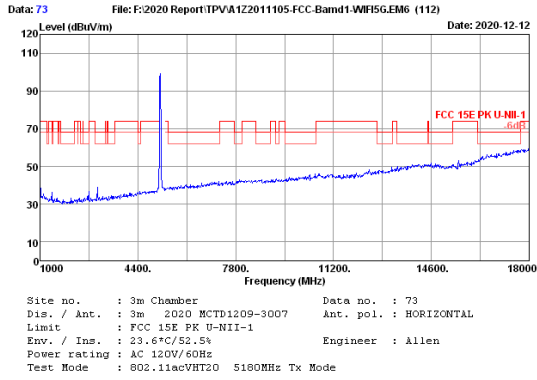
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.44	1.45	97.35	33.11	99.13	-----	-----	Peak
2	10460.00	38.33	2.25	32.09	33.23	39.44	-----	-----	Average
3	10460.00	38.33	2.25	41.14	33.23	48.49	68.20	19.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



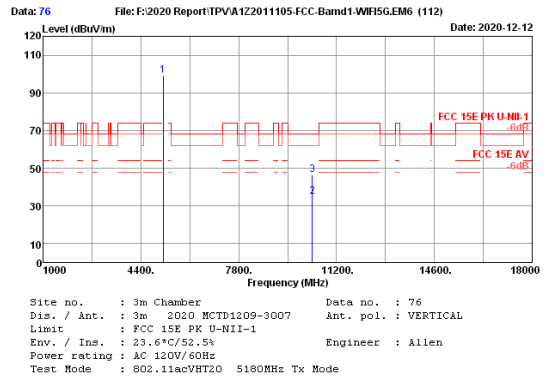
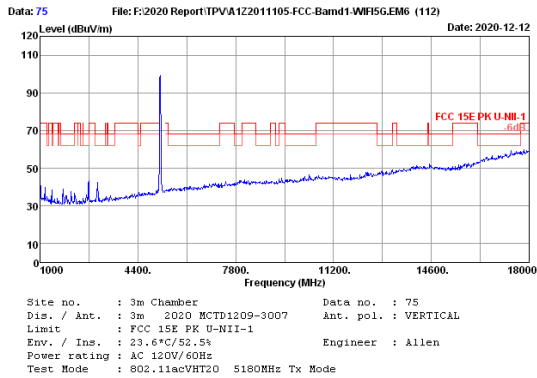
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.44	1.45	96.72	33.11	98.50	-----	-----	Peak
2	10460.00	38.33	2.25	31.69	33.23	39.04	-----	-----	Average
3	10460.00	38.33	2.25	41.60	33.23	48.95	68.20	19.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



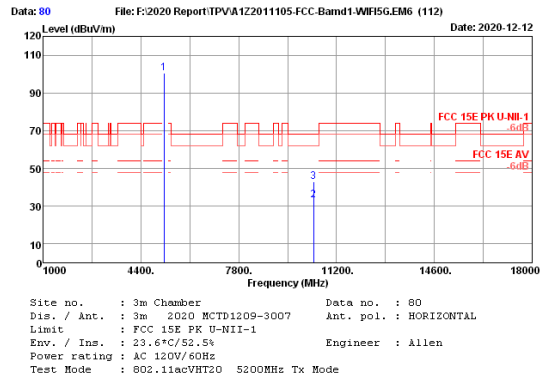
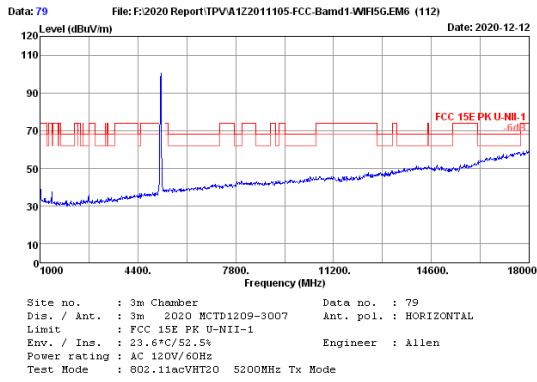
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	97.73	33.13	99.29	-----	-----	Peak
2	10360.00	38.21	2.24	28.10	33.30	35.25	-----	-----	Average
3	10360.00	38.21	2.24	38.64	33.30	45.79	68.20	22.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



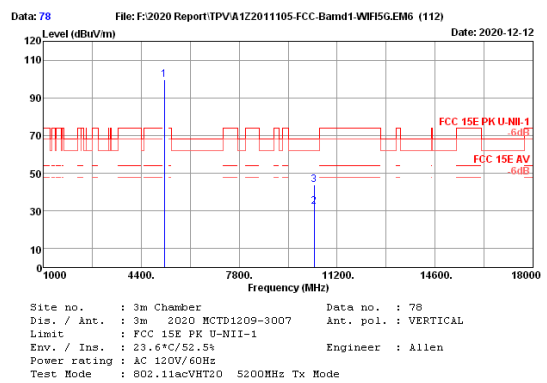
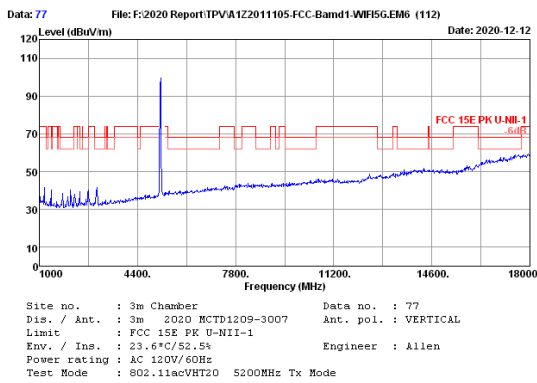
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.26	1.43	97.56	33.13	99.12	-----	-----	Peak
2	10360.00	38.21	2.24	27.80	33.30	34.95	-----	-----	Average
3	10360.00	38.21	2.24	39.21	33.30	46.36	68.20	21.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



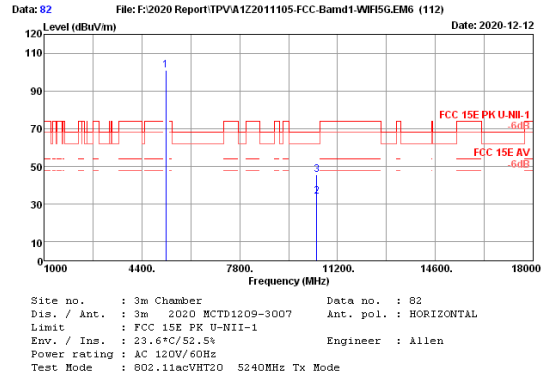
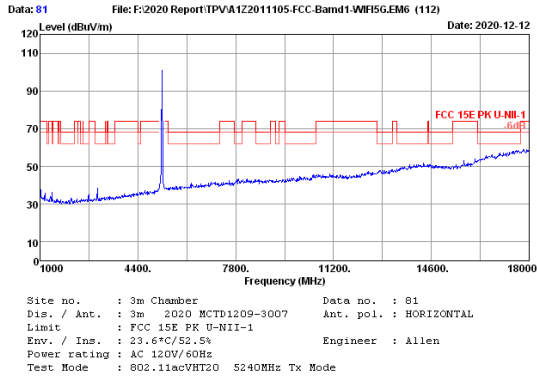
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	99.00	33.12	100.64	-----	-----	Peak
2	10400.00	38.26	2.24	26.20	33.27	33.43	-----	-----	Average
3	10400.00	38.26	2.24	35.55	33.27	42.78	68.20	25.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



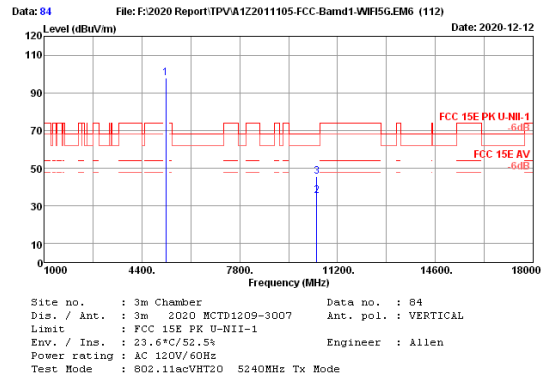
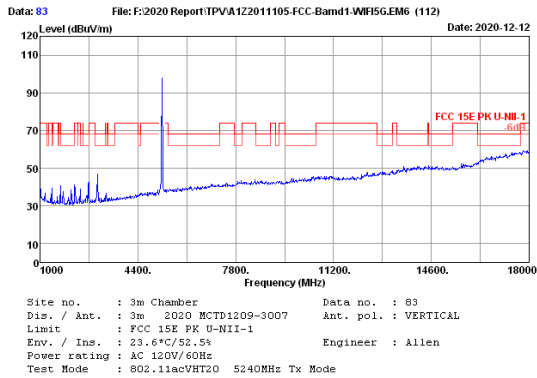
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5200.00	33.32	1.44	98.15	33.12	99.79	-----	-----	Peak
2	10400.00	38.26	2.24	25.20	33.27	32.43	-----	-----	Average
3	10400.00	38.26	2.24	36.72	33.27	43.95	68.20	24.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



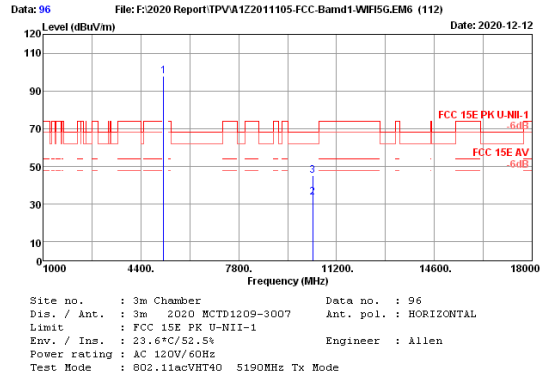
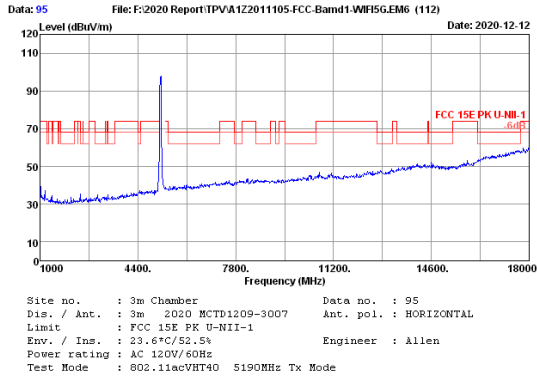
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	99.39	33.11	101.11	-----	-----	Peak
2	10480.00	38.38	2.25	26.50	33.21	33.92	-----	-----	Average
3	10480.00	38.38	2.25	38.32	33.21	45.74	68.20	22.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



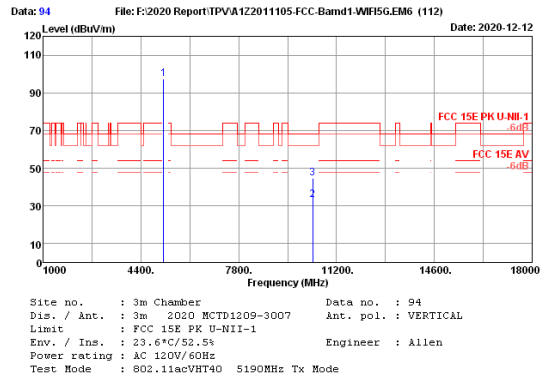
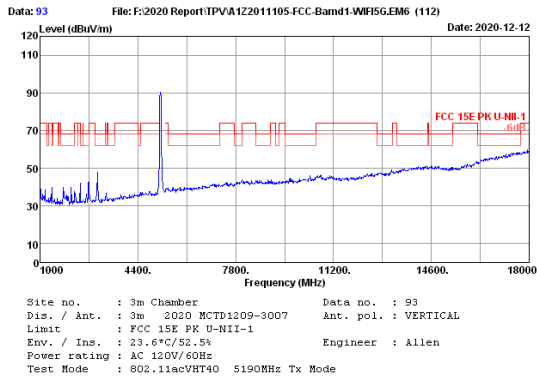
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.00	33.44	1.45	96.15	33.11	97.95	-----	-----	Peak
2	10480.00	38.38	2.25	27.90	33.21	35.32	-----	-----	Average
3	10480.00	38.38	2.25	38.18	33.21	45.60	68.20	22.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



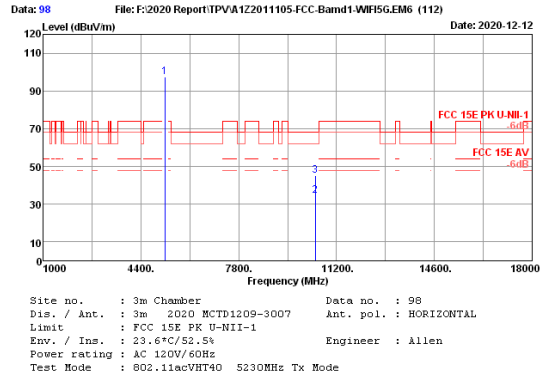
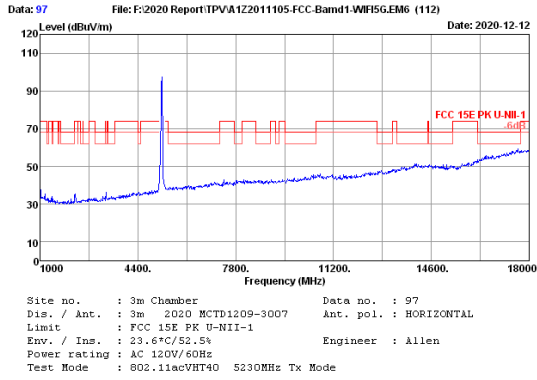
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.26	1.44	96.44	33.13	98.01	-----	-----	Peak
2	10380.00	38.24	2.24	26.50	33.29	33.69	-----	-----	Average
3	10380.00	38.24	2.24	37.82	33.29	45.01	68.20	23.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



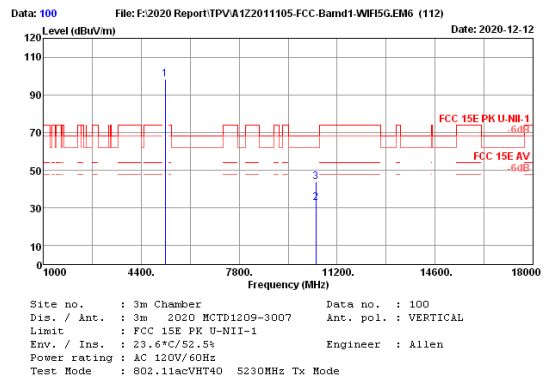
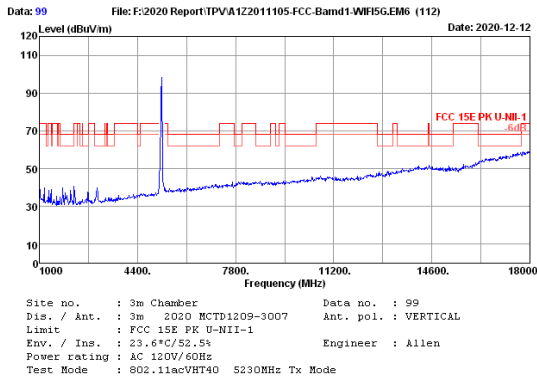
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5190.00	33.26	1.44	95.06	33.13	97.43	-----	-----	Peak
2	10380.00	38.24	2.24	25.90	33.29	33.09	-----	-----	Average
3	10380.00	38.24	2.24	37.40	33.29	44.59	68.20	23.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



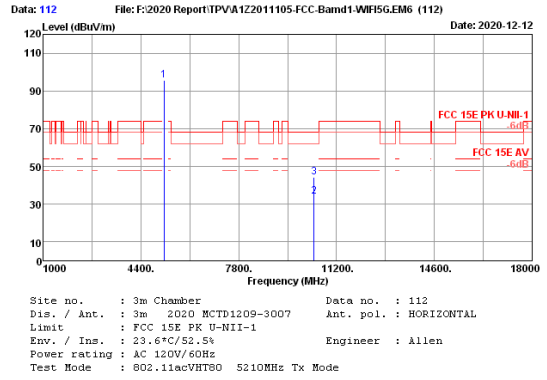
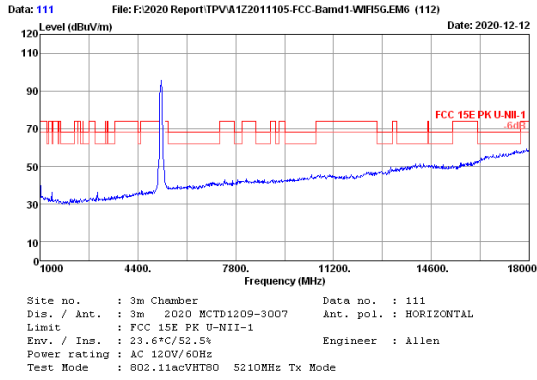
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.44	1.45	95.51	33.11	97.29	-----	-----	Peak
2	10460.00	38.33	2.25	27.19	33.23	34.54	-----	-----	Average
3	10460.00	38.33	2.25	37.98	33.23	45.33	68.20	22.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



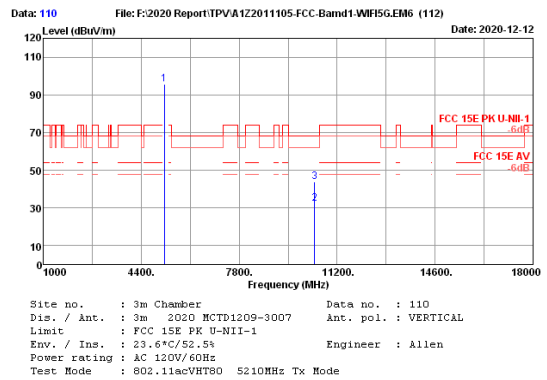
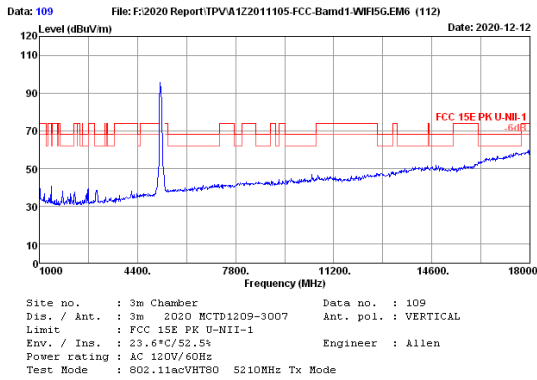
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5230.00	33.44	1.45	96.46	33.11	98.24	-----	-----	Peak
2	10460.00	38.33	2.25	25.29	33.23	32.64	-----	-----	Average
3	10460.00	38.33	2.25	36.40	33.23	43.75	68.20	24.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5210.00	33.38	1.44	93.76	33.11	95.47	-----	-----	Peak
2	10420.00	38.28	2.24	26.70	33.26	33.96	-----	-----	Average
3	10420.00	38.28	2.24	37.17	33.26	44.43	68.20	23.77	Peak

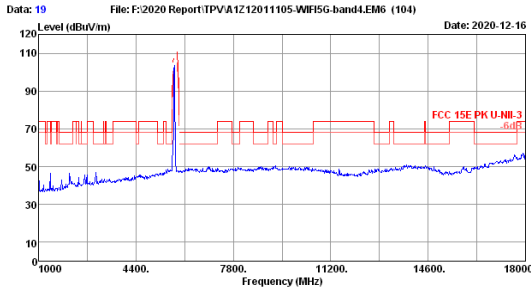
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



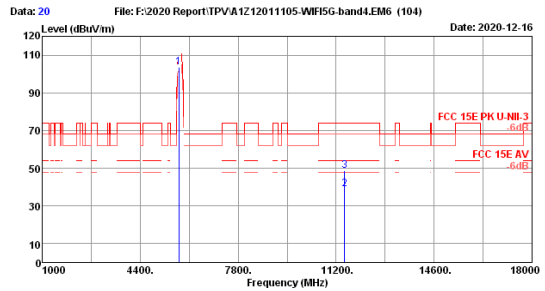
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5210.00	33.38	1.44	93.93	33.11	95.64	-----	-----	Peak
2	10420.00	38.28	2.24	24.90	33.26	32.16	-----	-----	Average
3	10420.00	38.28	2.24	36.62	33.26	43.88	68.20	24.32	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.

U-NII-3 Band:



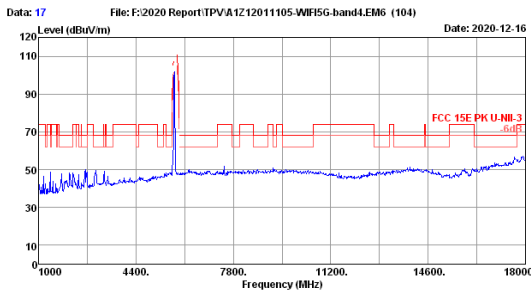
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9µ Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode



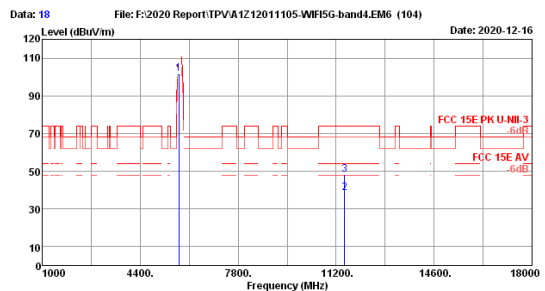
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9µ Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	101.17	34.25	103.52			Peak
2	11490.00	38.32	2.45	32.79	34.40	39.16	54.00	14.84	Average
3	11490.00	38.32	2.45	42.54	34.40	48.91	74.00	25.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



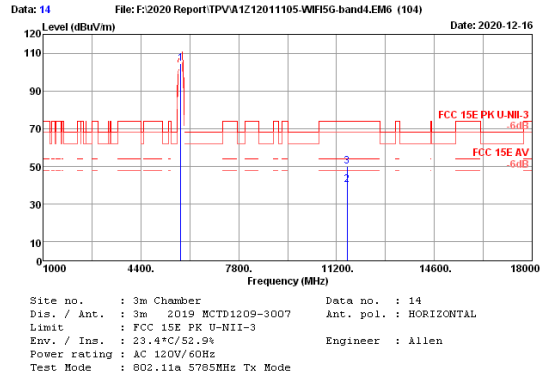
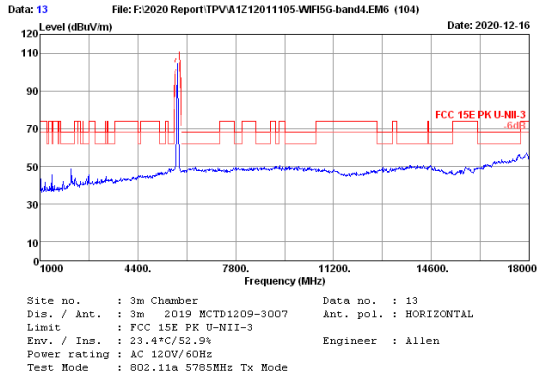
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9µ Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9µ Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode

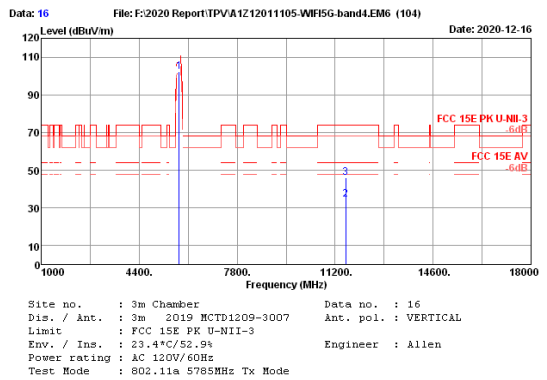
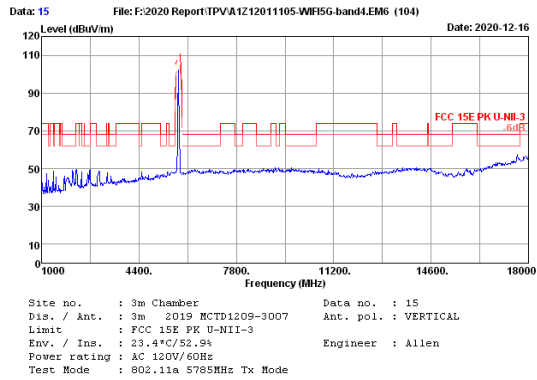
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	99.46	34.25	101.81			Peak
2	11490.00	38.32	2.45	32.19	34.40	38.56	54.00	15.44	Average
3	11490.00	38.32	2.45	41.95	34.40	48.32	74.00	25.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



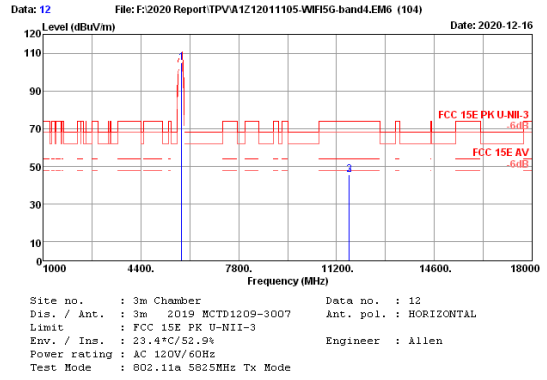
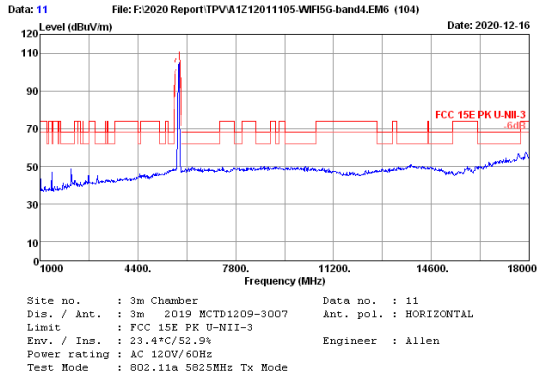
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	102.05	34.24	104.39	-----	-----	Peak
2	11570.00	38.30	2.47	33.80	34.40	40.17	54.00	13.83	Average
3	11570.00	38.30	2.47	43.62	34.40	49.99	74.00	24.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



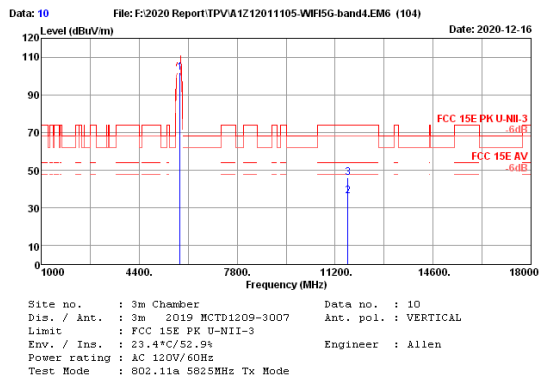
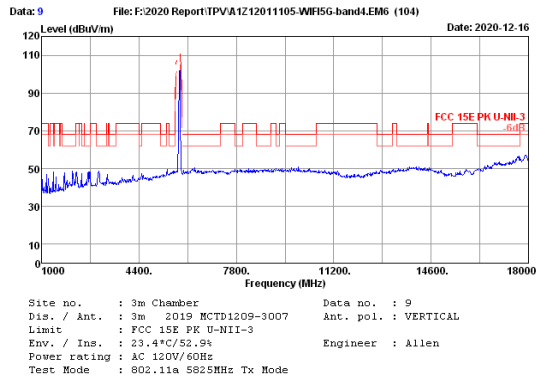
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	99.96	34.24	102.30	-----	-----	Peak
2	11570.00	38.30	2.47	28.30	34.40	34.87	54.00	19.33	Average
3	11570.00	38.30	2.47	39.58	34.40	45.95	74.00	28.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



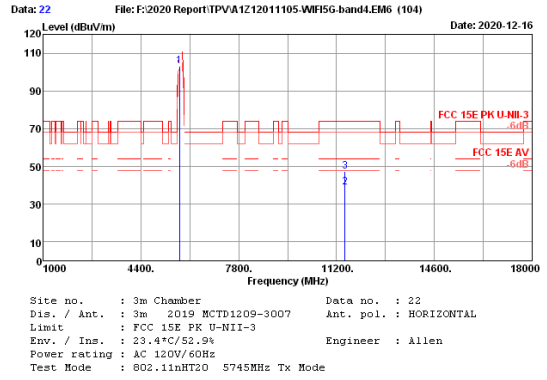
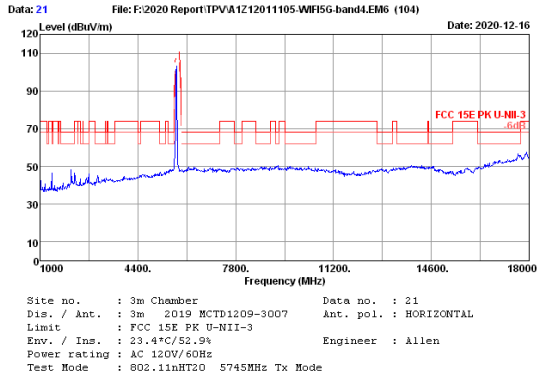
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	102.68	34.23	104.92	74.00	28.19	Peak
2	11650.00	38.30	2.50	39.41	34.40	45.81	74.00	28.19	Peak
3	11650.00	38.30	2.50	39.41	34.40	45.81	74.00	28.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



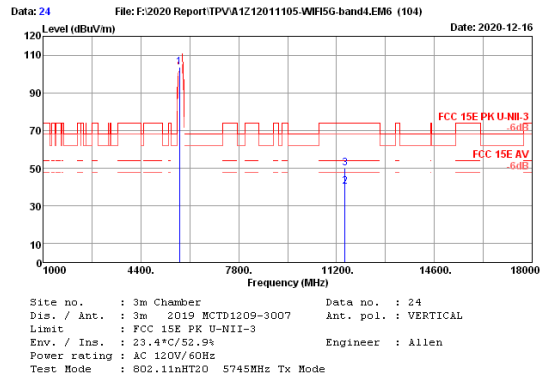
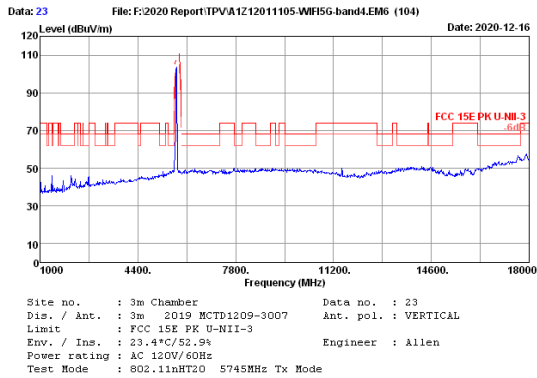
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Emission Level (dB)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	99.74	34.23	101.95	74.00	27.90	Peak
2	11650.00	38.30	2.50	29.90	34.40	36.30	54.00	17.70	Average
3	11650.00	38.30	2.50	39.70	34.40	46.10	74.00	27.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant factor.
 2. The emission levels that are 20dB below the official limit are not reported.



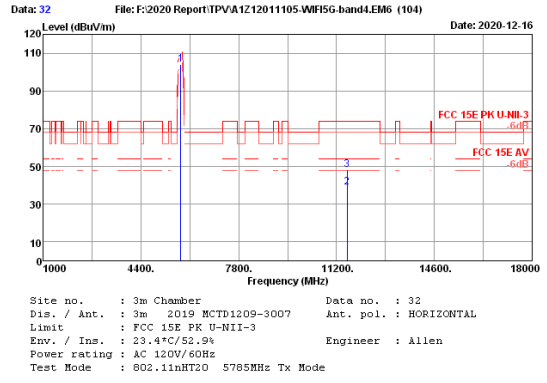
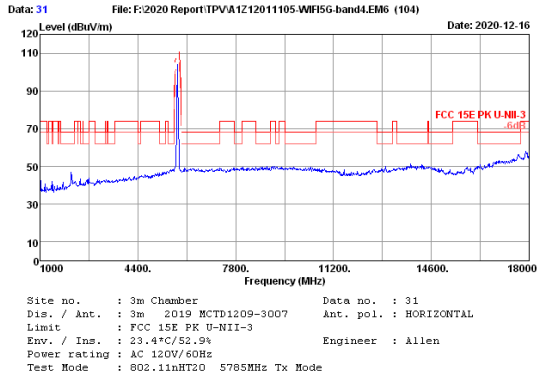
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	100.79	34.25	103.08	-----	-----	Peak
2	11490.00	38.32	2.45	32.59	34.40	38.96	54.00	15.04	Average
3	11490.00	38.32	2.45	41.05	34.40	47.42	74.00	26.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



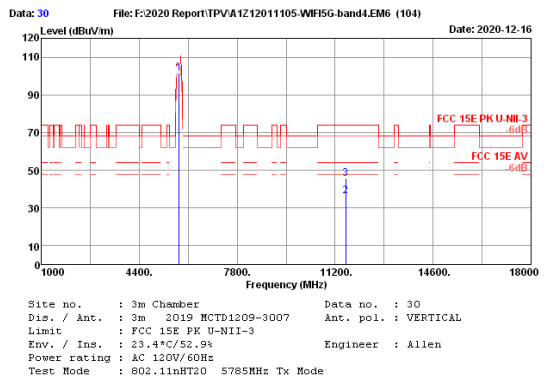
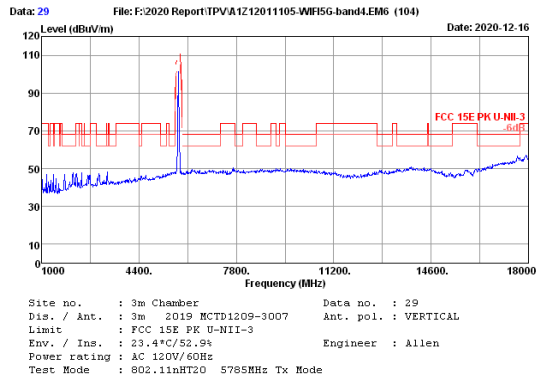
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	101.09	34.25	103.44	-----	-----	Peak
2	11490.00	38.32	2.45	33.79	34.40	40.16	54.00	13.84	Average
3	11490.00	38.32	2.45	43.58	34.40	49.95	74.00	24.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



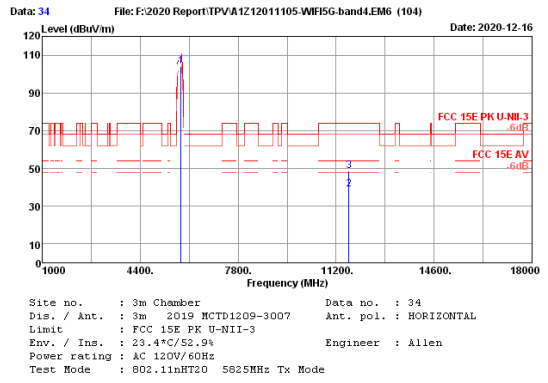
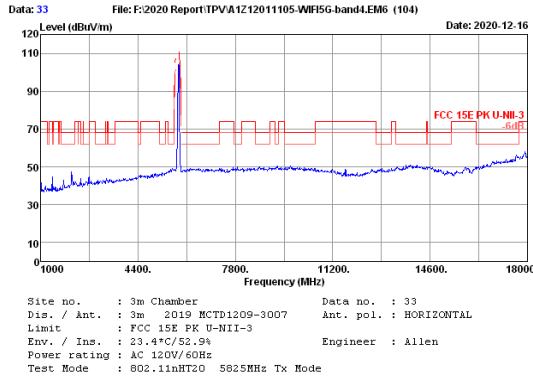
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	101.84	34.24	104.18	-----	-----	Peak
2	11570.00	38.30	2.47	32.50	34.40	38.87	54.00	15.13	Average
3	11570.00	38.30	2.47	42.09	34.40	48.46	74.00	25.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



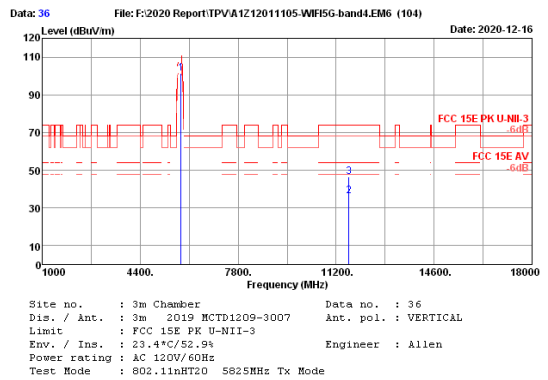
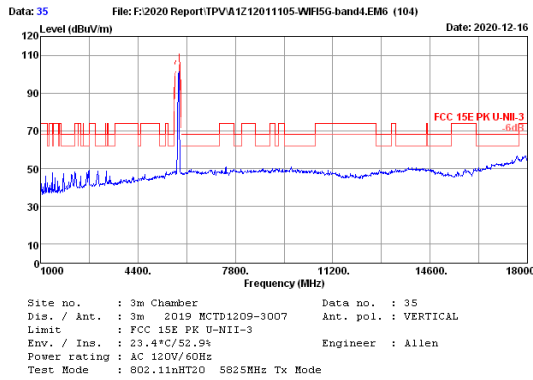
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	98.91	34.24	101.25	-----	-----	Peak
2	11570.00	38.30	2.47	29.80	34.40	36.17	54.00	17.83	Average
3	11570.00	38.30	2.47	39.43	34.40	45.80	74.00	28.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



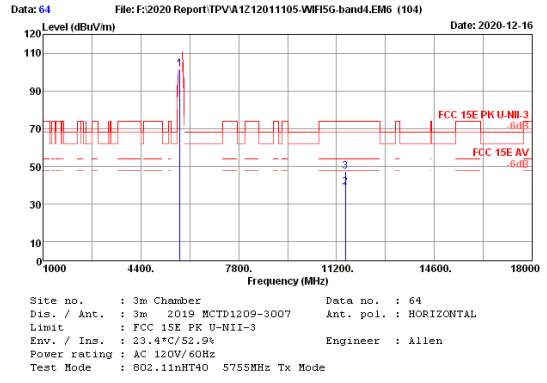
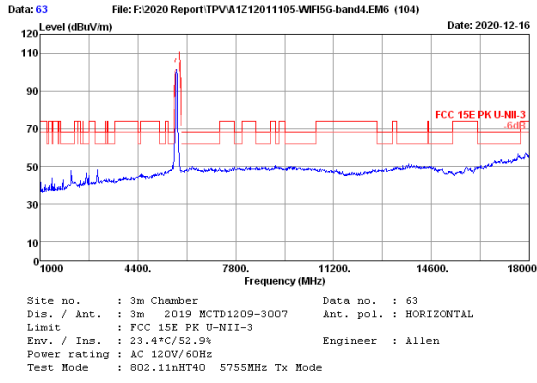
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	101.64	34.23	103.88	70.00	15.00	Peak
2	11650.00	38.30	2.50	32.60	34.40	39.00	54.00	17.90	Average
3	11650.00	38.30	2.50	42.39	34.40	48.79	74.00	25.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



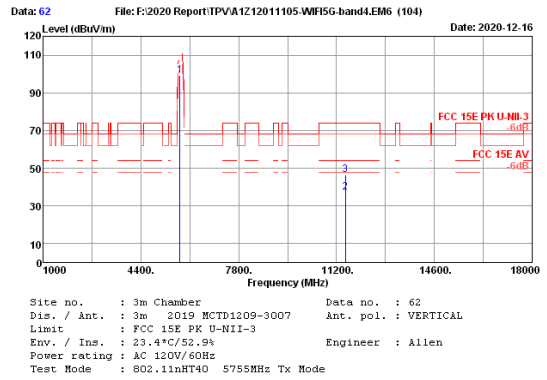
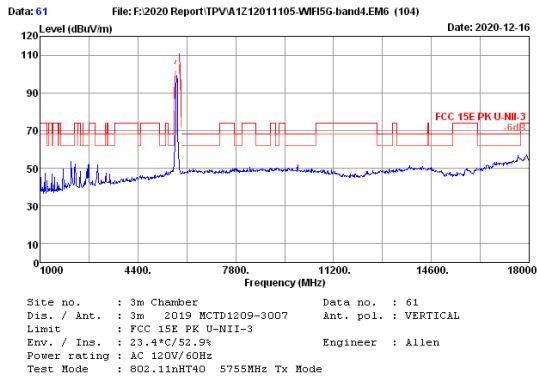
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	99.10	34.23	101.34	70.00	17.90	Peak
2	11650.00	38.30	2.50	29.70	34.40	36.10	54.00	17.90	Average
3	11650.00	38.30	2.50	39.89	34.40	46.29	74.00	27.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



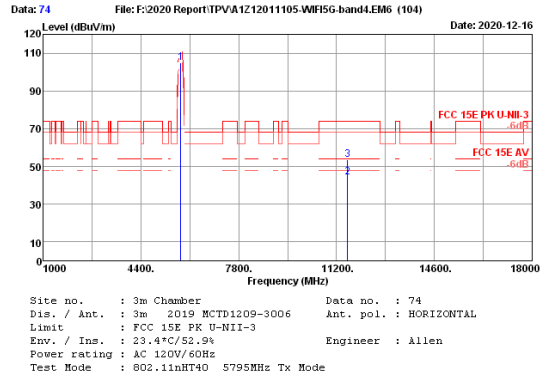
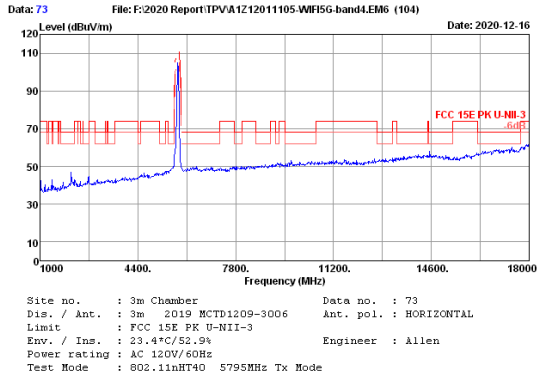
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	1.55	99.10	34.25	101.43	-----	-----	Peak
2	11510.00	38.30	2.45	32.50	34.40	38.85	54.00	15.15	Average
3	11510.00	38.30	2.45	41.15	34.40	47.50	74.00	26.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



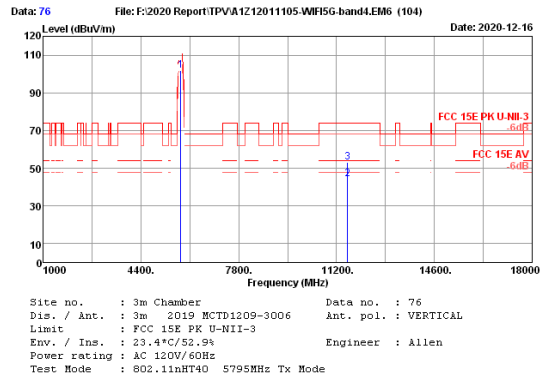
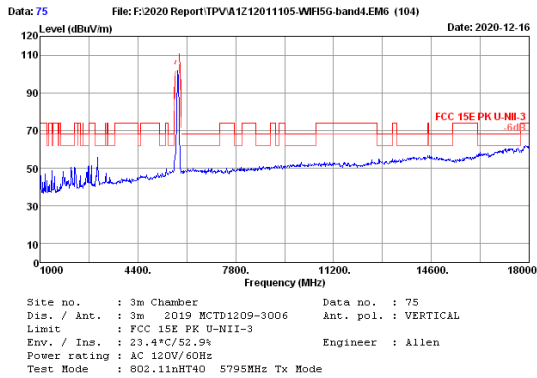
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	1.55	97.02	34.25	99.35	-----	-----	Peak
2	11510.00	38.30	2.45	30.80	34.40	37.15	54.00	16.85	Average
3	11510.00	38.30	2.45	40.19	34.40	46.54	74.00	27.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



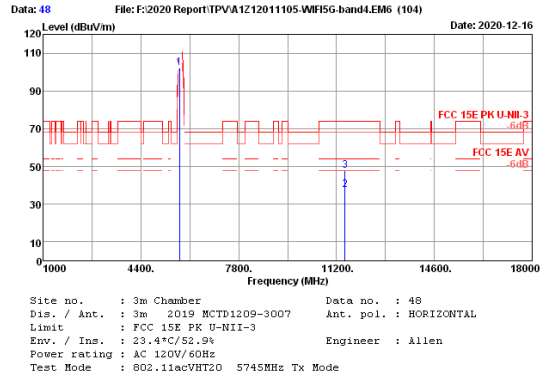
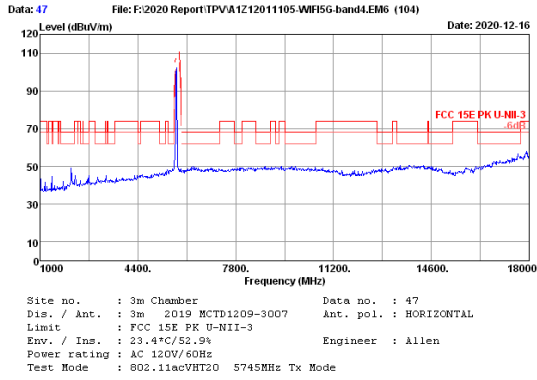
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	1.56	102.44	34.24	104.76	-----	-----	Peak
2	11590.00	38.30	2.48	37.80	34.40	44.18	54.00	9.82	Average
3	11590.00	38.30	2.48	47.31	34.40	53.69	74.00	20.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant. factor.
 2. The emission levels that are 20dB below the official limit are not reported.



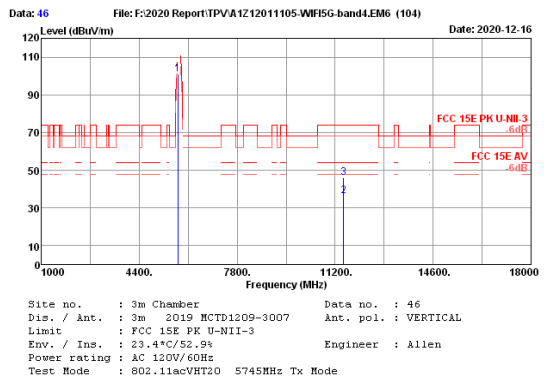
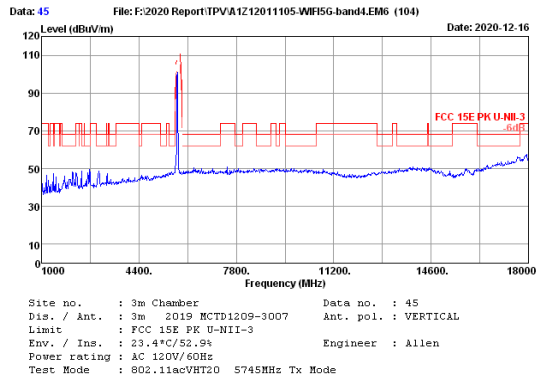
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Ant. Factor (dB)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	1.56	99.52	34.24	101.94	-----	-----	Peak
2	11590.00	38.30	2.48	37.80	34.40	44.18	54.00	9.82	Average
3	11590.00	38.30	2.48	46.79	34.40	53.17	74.00	20.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Ant. factor.
 2. The emission levels that are 20dB below the official limit are not reported.



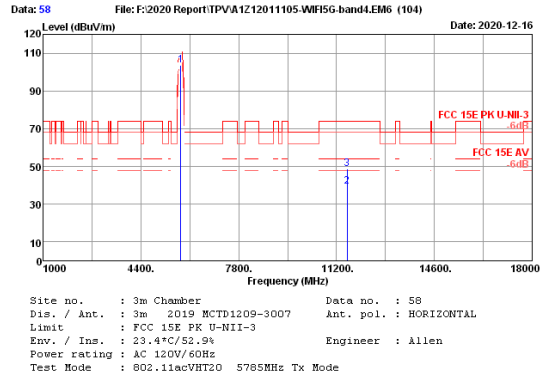
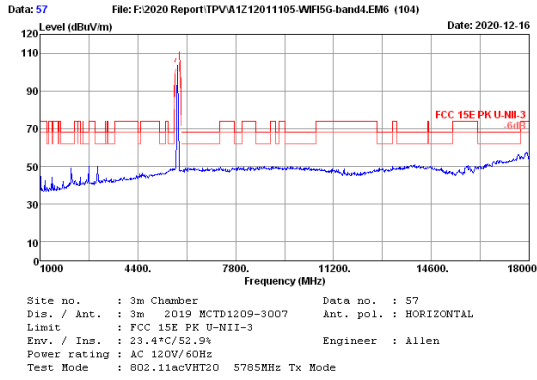
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	99.76	34.25	102.11	-----	-----	Peak
2	11490.00	38.32	2.45	31.09	34.40	37.45	54.00	16.54	Average
3	11490.00	38.32	2.45	41.35	34.40	47.72	74.00	26.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



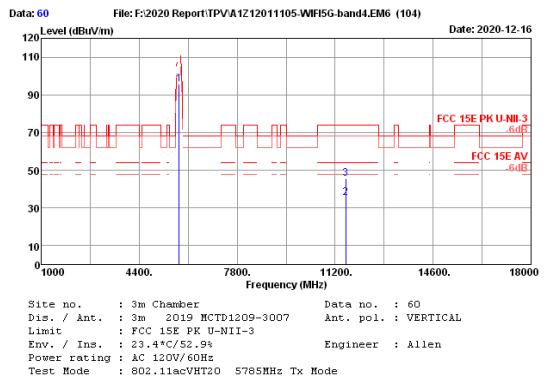
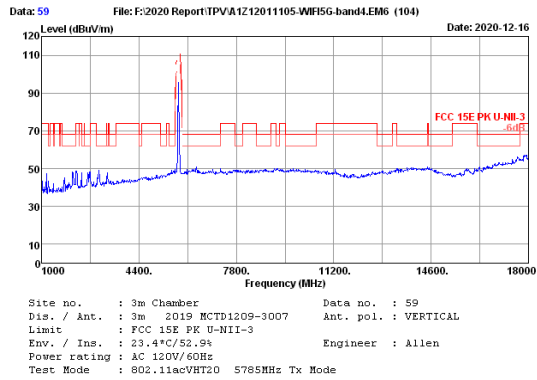
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5745.00	35.05	1.55	98.77	34.25	101.12	-----	-----	Peak
2	11490.00	38.32	2.45	29.89	34.40	36.26	54.00	17.74	Average
3	11490.00	38.32	2.45	39.64	34.40	46.01	74.00	27.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



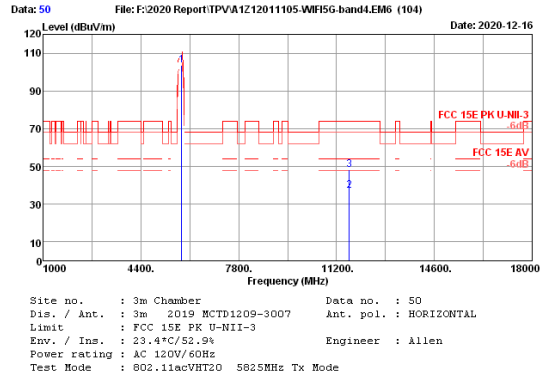
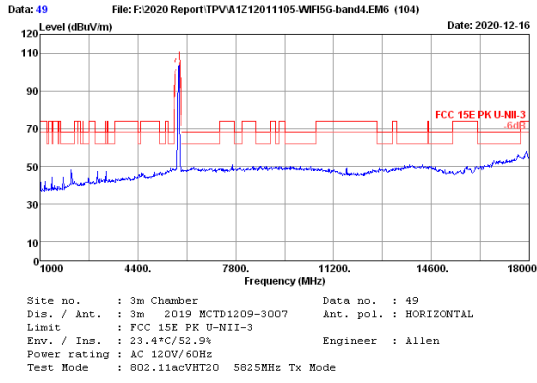
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	101.40	34.24	103.74	-----	-----	Peak
2	11570.00	38.30	2.47	33.20	34.40	39.57	54.00	14.43	Average
3	11570.00	38.30	2.47	42.22	34.40	48.59	74.00	25.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



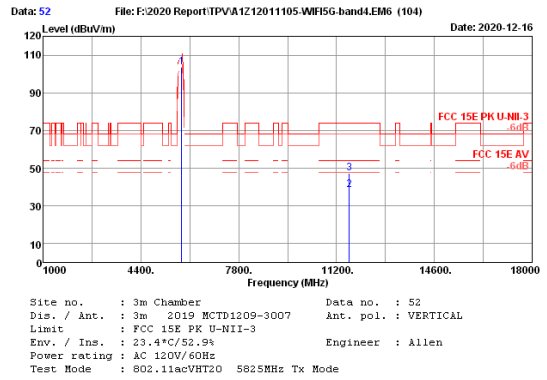
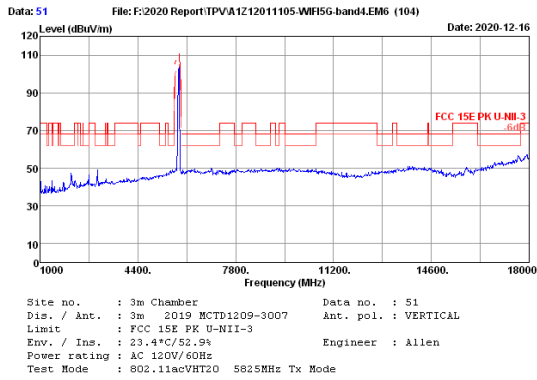
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.00	35.02	1.56	99.10	34.24	95.44	-----	-----	Peak
2	11570.00	38.30	2.47	28.90	34.40	35.27	54.00	18.73	Average
3	11570.00	38.30	2.47	39.40	34.40	45.77	74.00	28.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



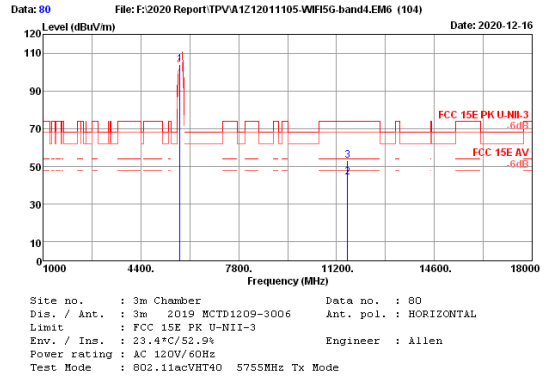
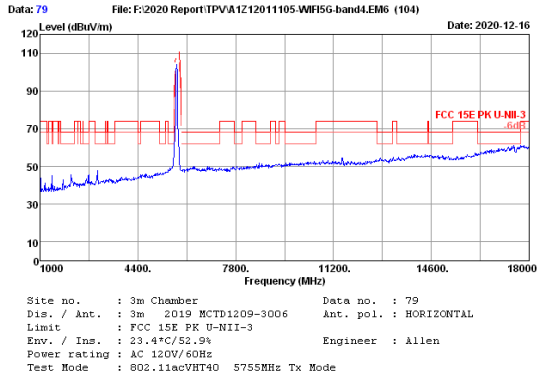
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	101.34	34.23	103.58	-----	-----	Peak
2	11650.00	38.30	2.50	30.70	34.40	37.10	54.00	16.90	Average
3	11650.00	38.30	2.50	41.73	34.40	48.13	74.00	25.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



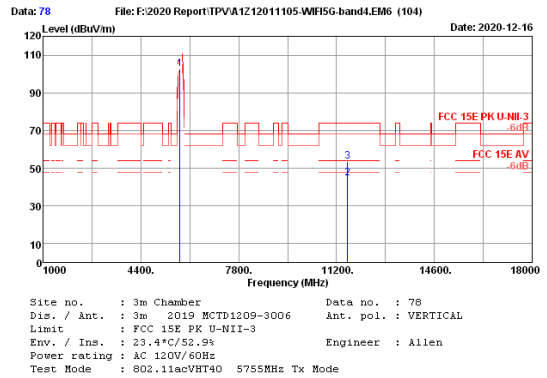
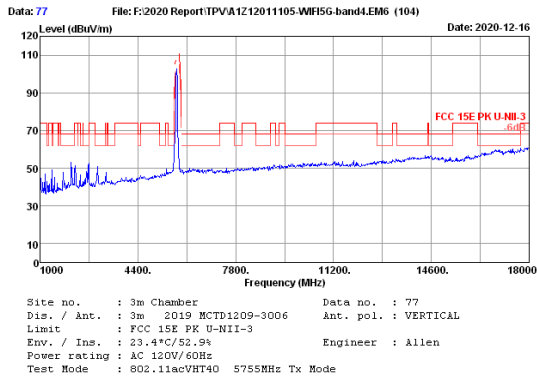
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5825.00	34.90	1.57	101.50	34.23	103.74	-----	-----	Peak
2	11650.00	38.30	2.50	32.00	34.40	38.40	54.00	15.60	Average
3	11650.00	38.30	2.50	41.12	34.40	47.52	74.00	26.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



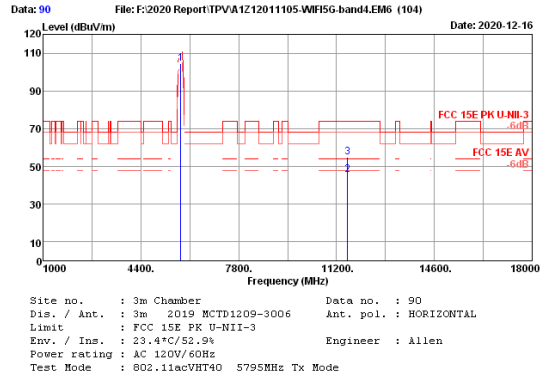
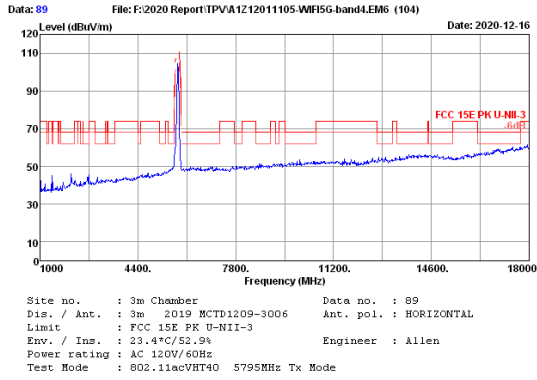
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	1.55	101.65	34.25	103.98	-----	-----	Peak
2	11590.00	38.30	2.48	37.80	34.40	44.18	54.00	9.82	Average
3	11590.00	38.30	2.48	46.65	34.40	53.03	74.00	20.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



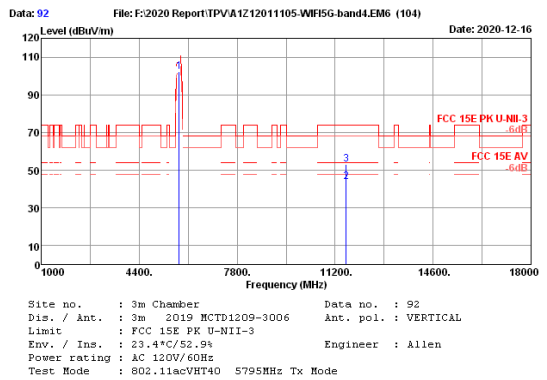
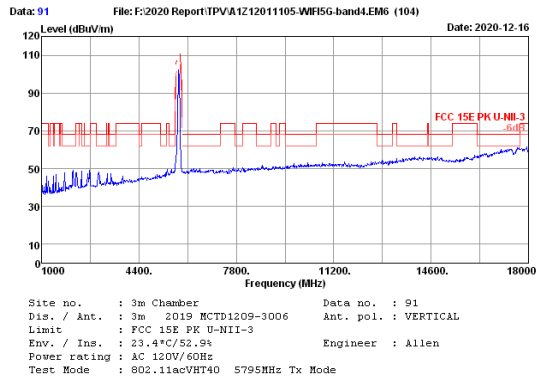
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5755.00	35.03	1.55	100.47	34.25	102.80	-----	-----	Peak
2	11590.00	38.30	2.48	38.50	34.40	44.88	54.00	9.12	Average
3	11590.00	38.30	2.48	47.08	34.40	53.46	74.00	20.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



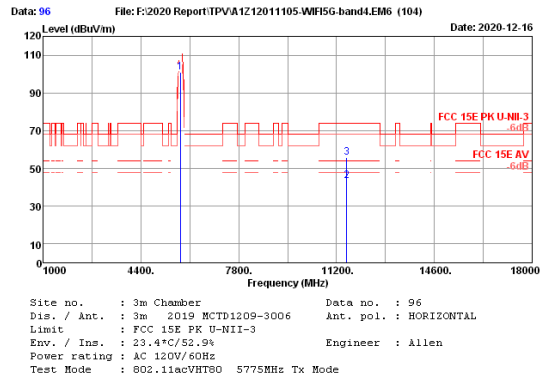
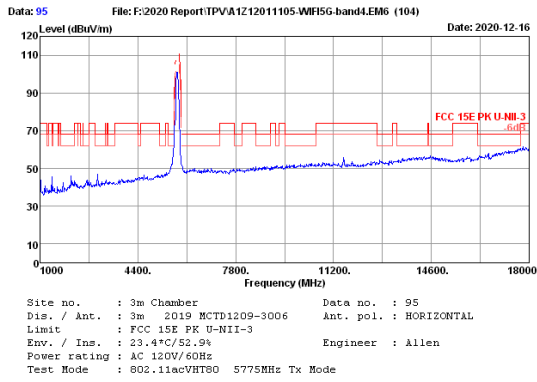
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	1.56	102.16	34.24	104.48	74.00	8.42	Peak
2	11590.00	38.30	2.48	39.20	34.40	45.58	54.00	10.12	Average
3	11590.00	38.30	2.48	46.59	34.40	54.97	74.00	19.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



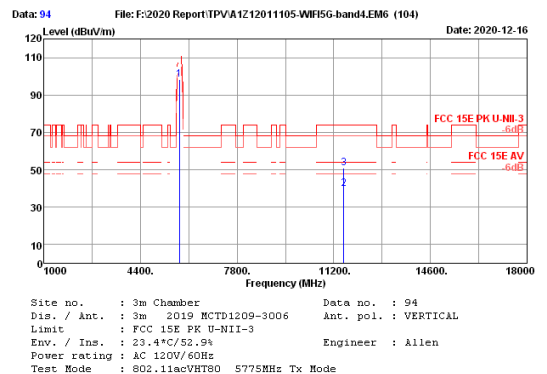
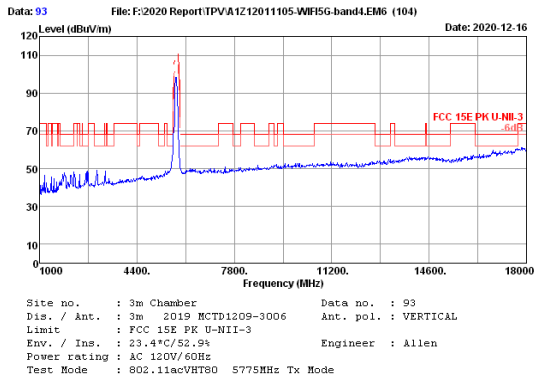
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5795.00	35.00	1.56	100.05	34.24	102.37	74.00	8.42	Peak
2	11590.00	38.30	2.48	37.50	34.40	49.68	54.00	10.12	Average
3	11590.00	38.30	2.48	46.88	34.40	53.26	74.00	20.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5775.00	35.02	1.55	98.65	34.24	100.98	-----	-----	Peak
2	11550.00	38.30	2.46	36.90	34.40	43.25	54.00	10.74	Average
3	11550.00	38.30	2.46	49.42	34.40	55.78	74.00	18.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5775.00	35.02	1.55	96.17	34.24	98.50	-----	-----	Peak
2	11550.00	38.30	2.46	33.70	34.40	40.05	54.00	13.94	Average
3	11550.00	38.30	2.46	44.56	34.40	50.92	74.00	23.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

5. BAND EDGE COMPLIANCE TEST

5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Amplifier	Agilent	8449B	3008A02495	Apr.11,20	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Jul.30,20	1 Year
4.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

5.2. Limit

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5250 MHz shall not exceed -27 dBm/MHz e.i.r.p.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge..

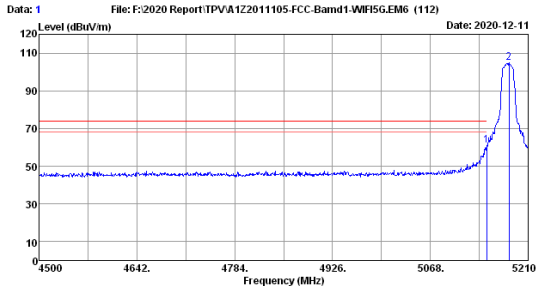
5.3. Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO
5. Per KDB789033 clause H 2)d).if the test distance is 3m,the EIRP(dBm)=E(dBuv/m)-95.2
Get the final compare with limit.

5.4. Test Results

Pass (The testing data was attached in the next pages.)

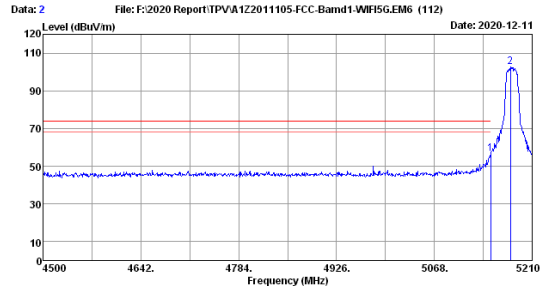
U-NII-1 Band:



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	59.71	33.14	61.14	74.00	12.86	Peak
2	5182.31	33.26	1.43	103.20	33.13	104.76	-----	-----	Peak

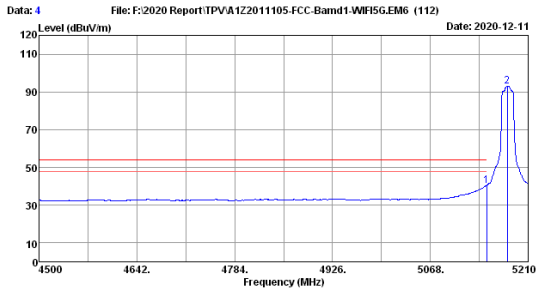
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	55.28	33.14	56.71	74.00	17.29	Peak
2	5178.76	33.26	1.43	101.37	33.13	102.93	-----	-----	Peak

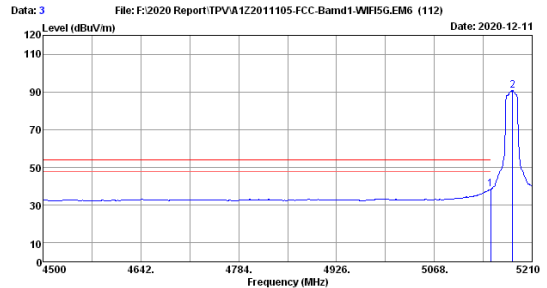
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	39.00	33.14	40.43	54.00	13.57	Average
2	5179.47	33.26	1.43	91.52	33.13	93.08	-----	-----	Average

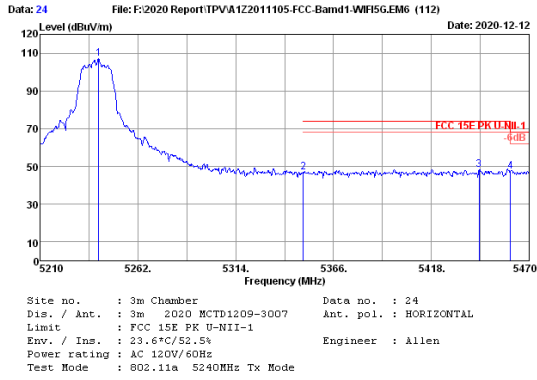
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5180MHz Tx Mode

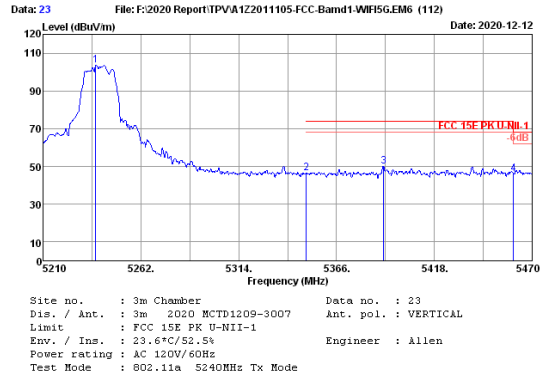
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	36.97	33.14	38.40	54.00	15.60	Average
2	5181.60	33.26	1.43	89.18	33.13	90.74	-----	-----	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



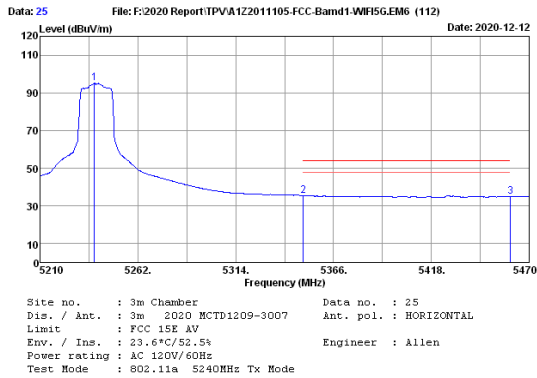
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.20	33.44	1.45	105.20	33.11	106.98	74.00	27.27	Peak
2	5350.00	33.86	1.47	44.46	33.06	46.73	74.00	25.78	Peak
3	5445.48	34.16	1.49	45.59	33.02	48.22	74.00	25.78	Peak
4	5460.00	34.22	1.49	44.54	33.02	47.23	68.20	20.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



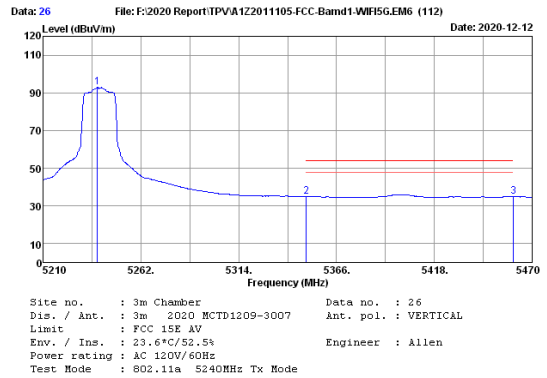
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.08	33.44	1.45	101.70	33.11	103.48	74.00	27.63	Peak
2	5350.00	33.86	1.47	44.10	33.06	46.37	74.00	24.10	Peak
3	5390.96	33.98	1.48	47.48	33.04	49.90	74.00	24.10	Peak
4	5460.00	34.22	1.49	43.32	33.02	46.01	68.20	22.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



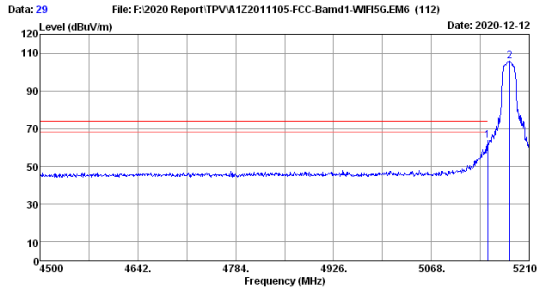
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.86	33.44	1.45	93.33	33.11	95.11	54.00	18.49	Average
2	5350.00	33.86	1.47	33.24	33.06	35.51	54.00	19.00	Average
3	5460.00	34.22	1.49	32.31	33.02	35.00	54.00	19.00	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.86	33.44	1.45	91.11	33.11	92.89	54.00	18.98	Average
2	5350.00	33.86	1.47	32.75	33.06	35.02	54.00	19.14	Average
3	5460.00	34.22	1.49	32.17	33.02	34.86	54.00	19.14	Average

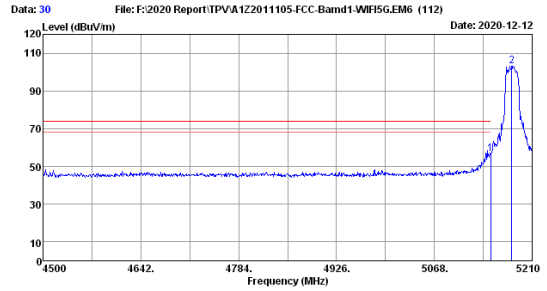
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.14	1.43	62.16	33.14	63.59	74.00	10.41	Peak
2	5181.60	33.26	1.43	104.08	33.13	105.64	-----	-----	Peak

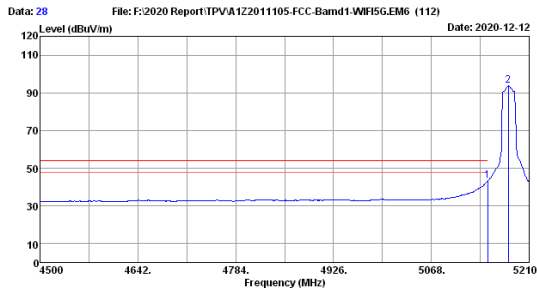
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.14	1.43	55.32	33.14	56.75	74.00	17.25	Peak
2	5180.18	33.26	1.43	101.73	33.13	103.29	-----	-----	Peak

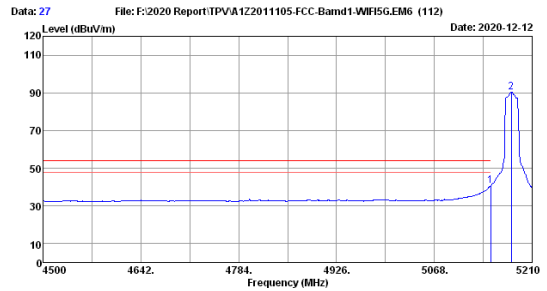
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.14	1.43	41.76	33.14	43.19	54.00	10.81	Average
2	5179.47	33.26	1.43	92.11	33.13	93.67	-----	-----	Average

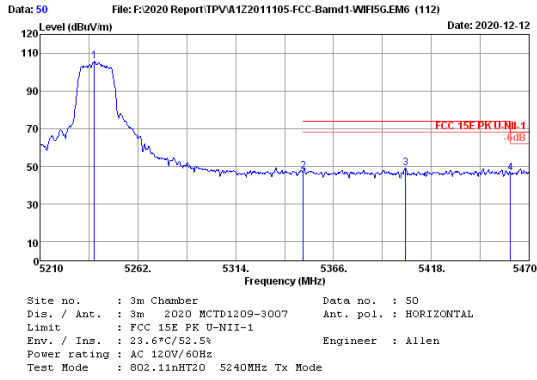
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT20 5180MHz Tx Mode

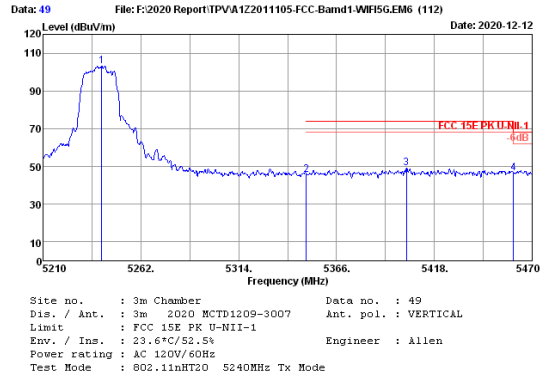
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	33.14	1.43	39.23	33.14	40.66	54.00	13.34	Average
2	5179.47	33.26	1.43	88.76	33.13	90.32	-----	-----	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



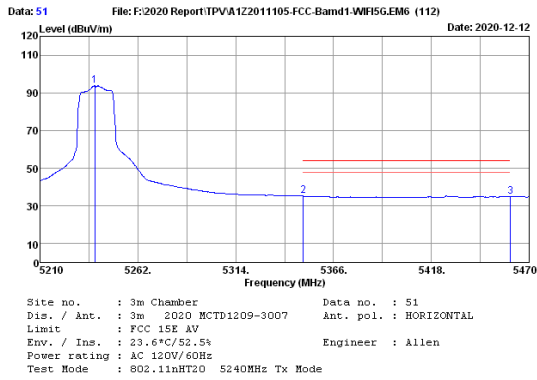
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.86	33.44	1.45	103.89	33.11	105.67	-----	-----	Peak
2	5350.00	33.86	1.47	45.16	33.06	47.43	74.00	26.57	Peak
3	5404.22	34.04	1.48	46.57	33.04	49.05	74.00	24.95	Peak
4	5460.00	34.22	1.49	43.77	33.02	46.46	68.20	21.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor.
 2. The emission levels that are 20dB below the official limit are not reported.



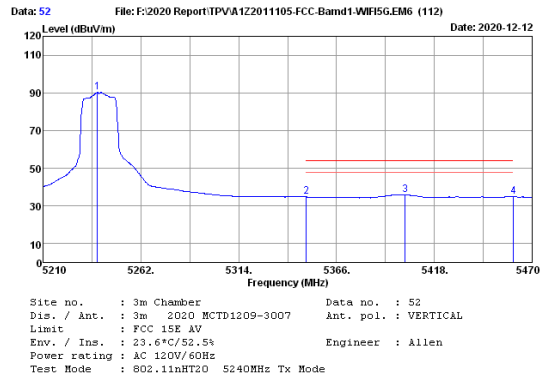
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.20	33.44	1.45	101.42	33.11	103.20	-----	-----	Peak
2	5350.00	33.86	1.47	43.43	33.06	45.70	74.00	28.30	Peak
3	5403.18	34.04	1.48	46.75	33.04	49.23	74.00	24.77	Peak
4	5460.00	34.22	1.49	43.99	33.02	46.68	68.20	21.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor.
 2. The emission levels that are 20dB below the official limit are not reported.



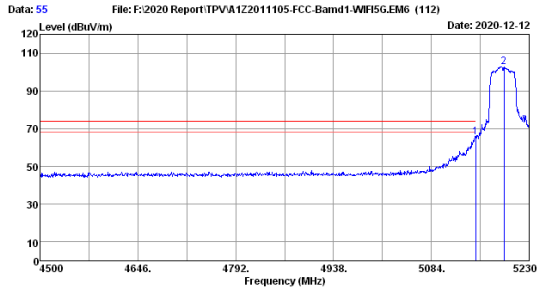
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5239.12	33.44	1.45	91.94	33.11	93.72	-----	-----	Average
2	5350.00	33.86	1.47	32.95	33.06	35.22	54.00	18.78	Average
3	5460.00	34.22	1.49	32.28	33.02	34.97	54.00	19.03	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5239.86	33.44	1.45	88.41	33.11	90.19	-----	-----	Average
2	5350.00	33.86	1.47	32.55	33.06	34.82	54.00	19.18	Average
3	5402.40	34.04	1.48	33.59	33.04	36.07	54.00	17.93	Average
4	5460.00	34.22	1.49	32.17	33.02	34.86	54.00	19.14	Average

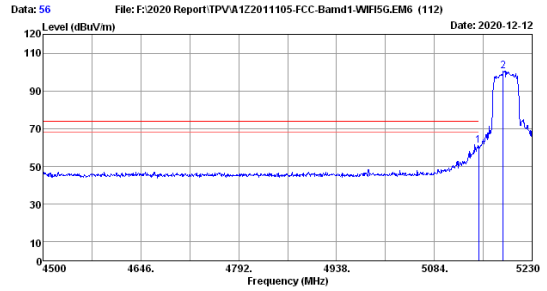
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp Factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	64.04	33.14	65.47	74.00	8.53	Peak
2	5192.77	33.32	1.44	101.25	33.12	102.89	-----	-----	Peak

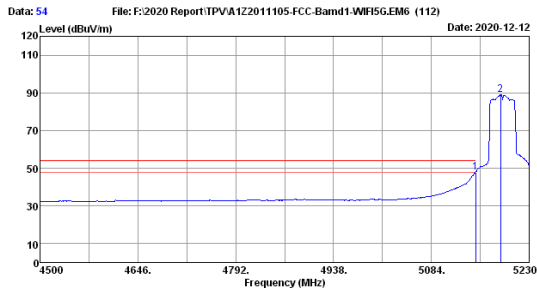
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	59.46	33.14	60.89	74.00	13.11	Peak
2	5196.93	33.26	1.43	99.12	33.13	100.68	-----	-----	Peak

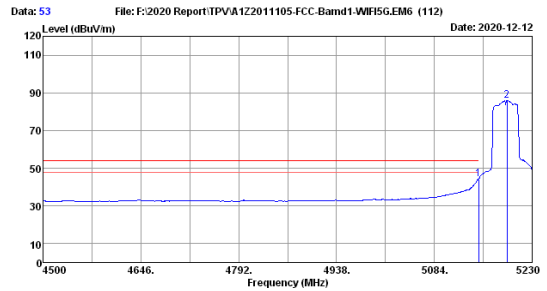
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	46.37	33.14	47.80	54.00	6.20	Average
2	5187.66	33.26	1.43	87.48	33.13	89.04	-----	-----	Average

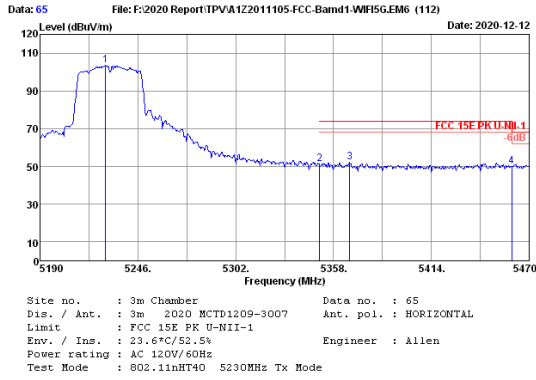
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5190MHz Tx Mode

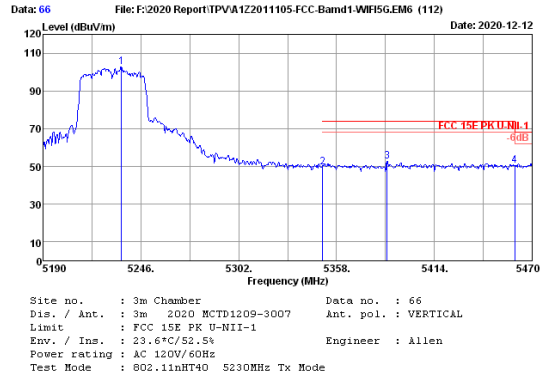
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	42.62	33.14	44.25	54.00	9.75	Average
2	5192.77	33.32	1.44	84.37	33.12	86.01	-----	-----	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



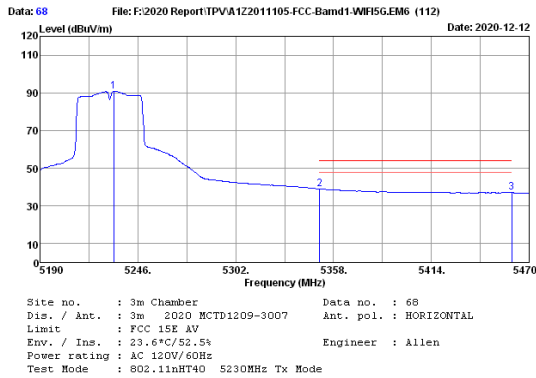
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5227.52	33.44	1.45	101.63	33.11	103.41	-----	-----	Peak
2	5350.00	33.86	1.47	49.29	33.06	51.56	74.00	22.44	Peak
3	5367.24	33.92	1.47	49.70	33.05	52.04	74.00	21.96	Peak
4	5460.00	34.22	1.49	47.18	33.02	49.87	68.20	18.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



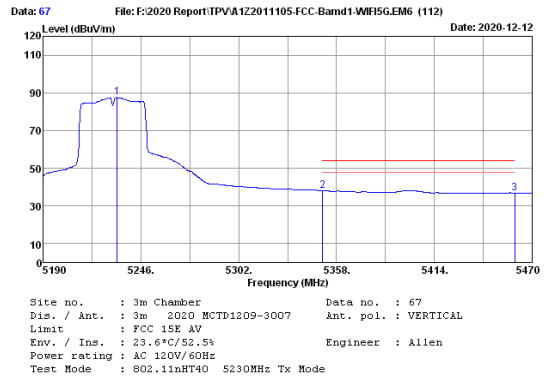
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5234.80	33.44	1.45	100.91	33.11	102.69	-----	-----	Peak
2	5350.00	33.86	1.47	47.50	33.06	49.77	74.00	24.23	Peak
3	5366.84	33.98	1.48	50.20	33.04	52.62	74.00	21.38	Peak
4	5460.00	34.22	1.49	47.63	33.02	50.32	68.20	17.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



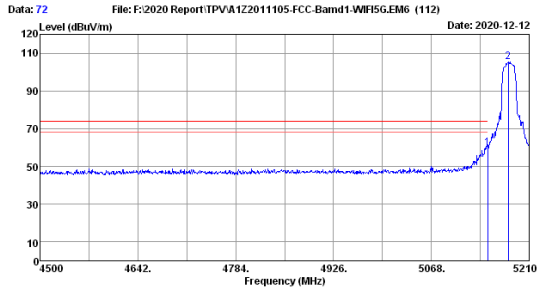
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5232.28	33.44	1.45	89.16	33.11	90.94	-----	-----	Average
2	5350.00	33.86	1.47	36.75	33.06	39.02	54.00	14.98	Average
3	5460.00	34.22	1.49	34.37	33.02	37.06	54.00	16.94	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5232.56	33.44	1.45	85.68	33.11	87.46	-----	-----	Average
2	5350.00	33.86	1.47	35.70	33.06	37.97	54.00	16.03	Average
3	5460.00	34.22	1.49	34.20	33.02	36.89	54.00	17.11	Average

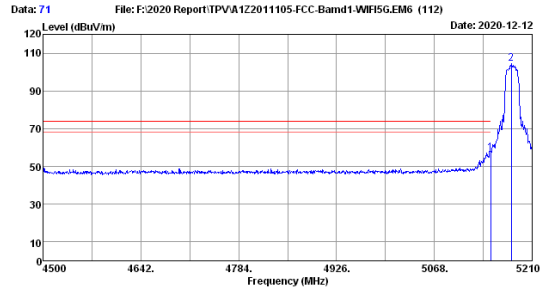
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	58.42	33.14	59.85	74.00	14.15	Peak
2	5179.47	33.26	1.43	105.83	33.13	105.39	-----	-----	Peak

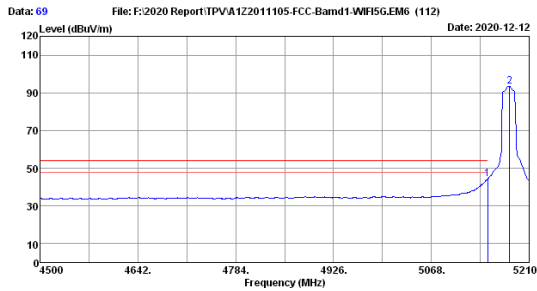
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	55.74	33.14	57.17	74.00	16.83	Peak
2	5179.47	33.26	1.43	102.74	33.13	104.30	-----	-----	Peak

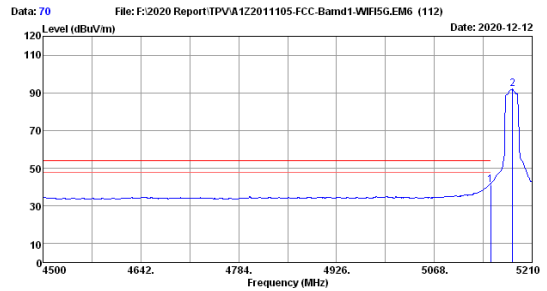
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5180MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	42.90	33.14	44.33	54.00	9.67	Average
2	5181.60	33.26	1.43	92.08	33.13	93.64	-----	-----	Average

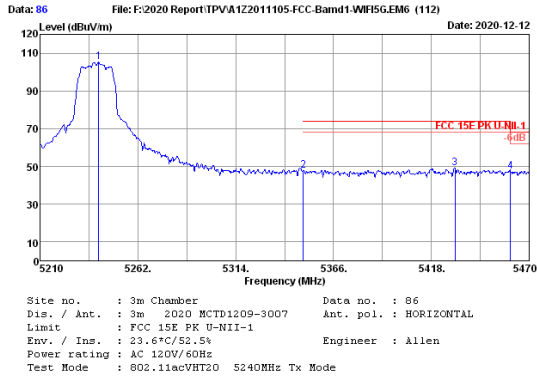
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5180MHz Tx Mode

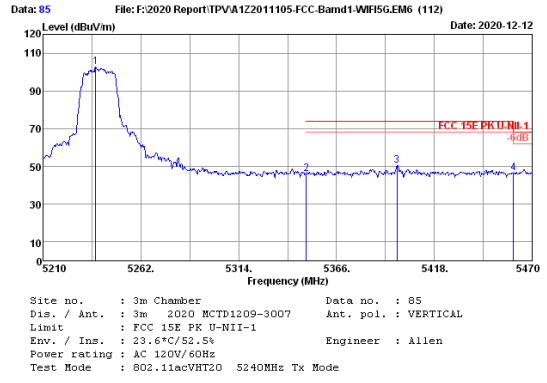
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	39.90	33.14	41.33	54.00	12.67	Average
2	5181.60	33.26	1.43	90.39	33.13	91.95	-----	-----	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



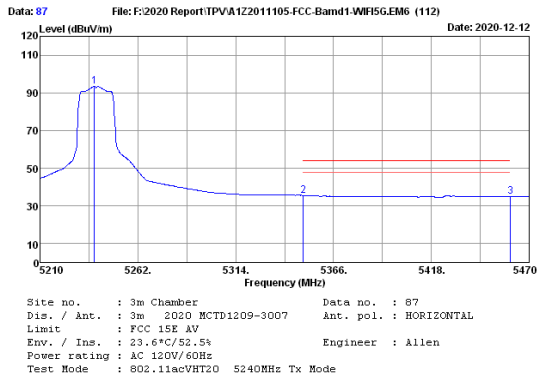
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.20	33.44	1.45	103.45	33.11	105.23	-----	-----	Peak
2	5350.00	33.86	1.47	45.35	33.06	47.62	74.00	26.38	Peak
3	5430.48	34.16	1.48	46.48	33.02	49.10	74.00	24.90	Peak
4	5460.00	34.22	1.49	44.83	33.02	47.52	68.20	20.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



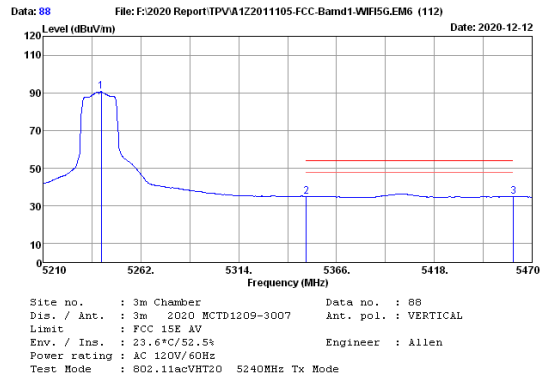
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.08	33.44	1.45	101.11	33.11	102.89	-----	-----	Peak
2	5350.00	33.86	1.47	43.96	33.06	46.23	74.00	27.77	Peak
3	5398.24	34.04	1.48	48.14	33.04	50.62	74.00	23.38	Peak
4	5460.00	34.22	1.49	43.79	33.02	46.48	68.20	21.72	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



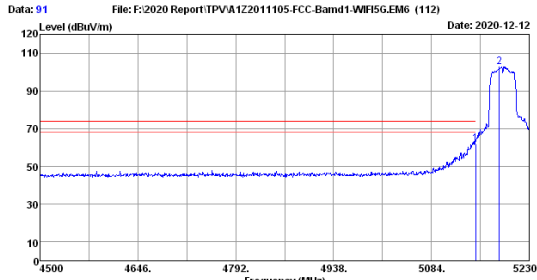
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5238.86	33.44	1.45	91.70	33.11	93.51	-----	-----	Average
2	5350.00	33.86	1.47	33.31	33.06	35.58	54.00	18.42	Average
3	5460.00	34.22	1.49	32.33	33.02	35.02	54.00	18.98	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5240.94	33.44	1.45	88.81	33.11	90.59	-----	-----	Average
2	5350.00	33.86	1.47	32.76	33.06	35.03	54.00	18.97	Average
3	5460.00	34.22	1.49	32.24	33.02	34.93	54.00	19.07	Average

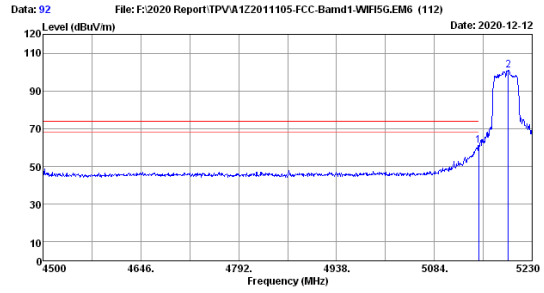
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 91
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	60.72	33.14	62.15	74.00	11.85	Peak
2	5185.47	33.26	1.43	101.37	33.13	102.93			Peak

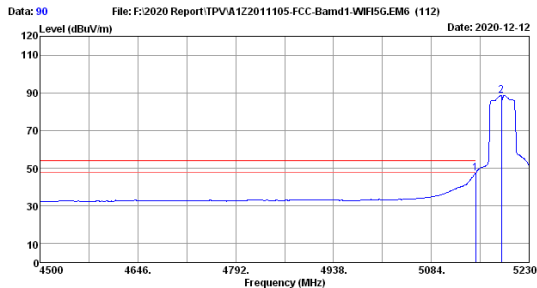
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 92
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	59.78	33.14	61.21	74.00	12.79	Peak
2	5194.23	33.32	1.44	99.48	33.12	101.12			Peak

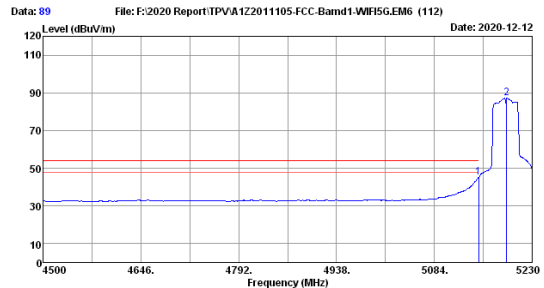
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 90
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5190MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	45.85	33.14	47.28	54.00	6.72	Average
2	5186.39	33.26	1.43	87.19	33.13	88.75			Average

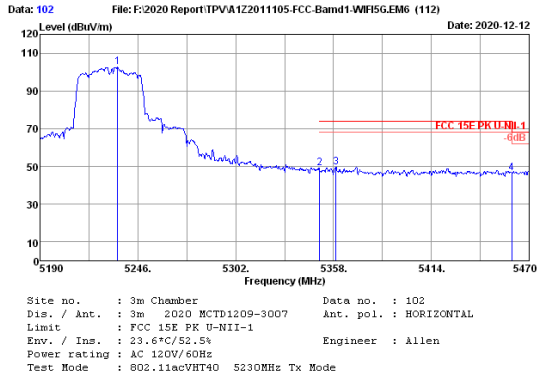
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12
 Site no. : 3m Chamber Data no. : 89
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5190MHz Tx Mode

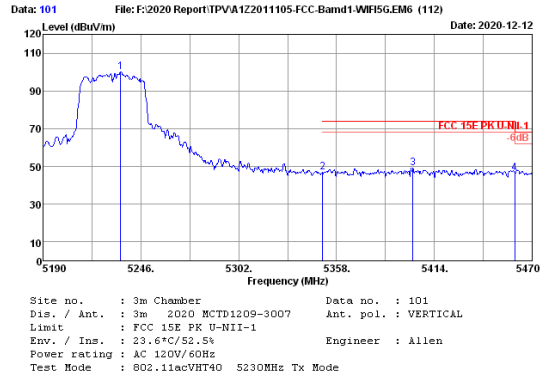
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	43.67	33.14	45.10	54.00	8.90	Average
2	5192.04	33.32	1.44	85.47	33.12	87.11			Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



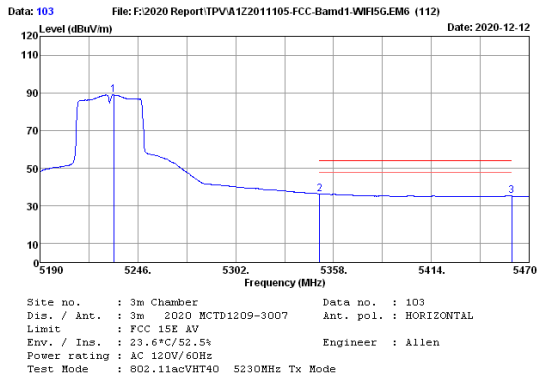
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5234.52	33.44	1.45	100.77	33.11	102.55	-----	-----	Peak
2	5350.00	33.86	1.47	46.72	33.06	48.99	74.00	25.01	Peak
3	5359.40	33.86	1.47	47.54	33.06	49.81	74.00	24.19	Peak
4	5460.00	34.22	1.49	43.73	33.02	46.42	68.20	21.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



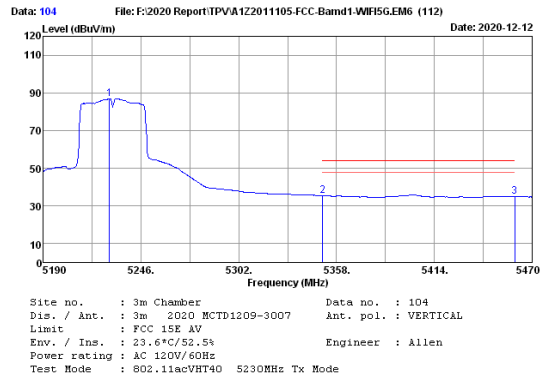
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5234.52	33.44	1.45	98.30	33.11	100.08	-----	-----	Peak
2	5350.00	33.86	1.47	44.81	33.06	47.08	74.00	26.92	Peak
3	5401.68	34.04	1.48	46.61	33.04	49.09	74.00	24.91	Peak
4	5460.00	34.22	1.49	43.64	33.02	46.33	68.20	21.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



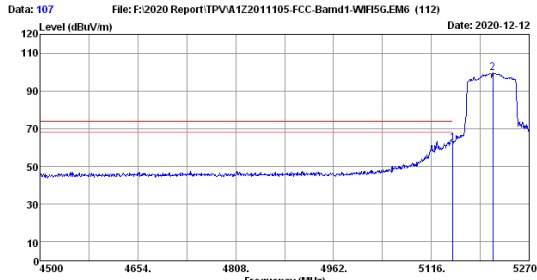
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5232.28	33.44	1.45	87.09	33.11	88.87	-----	-----	Average
2	5350.00	33.86	1.47	34.21	33.06	36.48	54.00	17.52	Average
3	5460.00	34.22	1.49	32.54	33.02	35.23	54.00	18.77	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5228.08	33.44	1.45	85.08	33.11	86.06	-----	-----	Average
2	5350.00	33.86	1.47	33.08	33.06	35.35	54.00	18.65	Average
3	5460.00	34.22	1.49	32.36	33.02	35.05	54.00	18.95	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

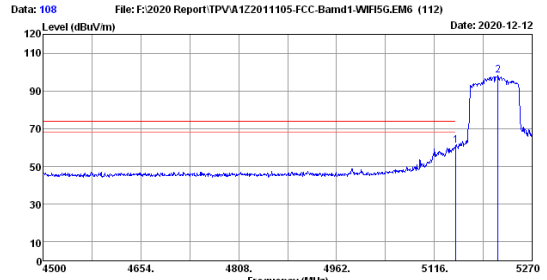


File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12

Site no. : 3m Chamber Data no. : 107
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	60.95	33.14	62.38	74.00	11.62	Peak
2	5213.02	33.38	1.44	97.68	33.11	99.59	---	---	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

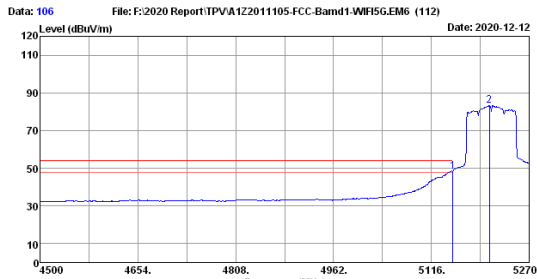


File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12

Site no. : 3m Chamber Data no. : 108
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-1
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	59.85	33.14	61.28	74.00	12.72	Peak
2	5213.10	33.38	1.44	96.50	33.11	98.21	---	---	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

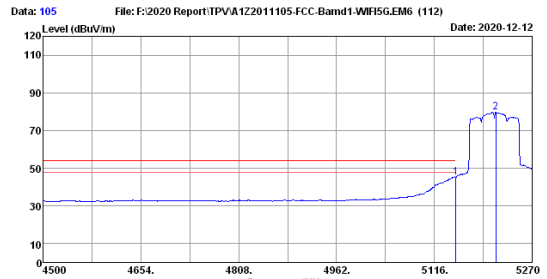


File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12

Site no. : 3m Chamber Data no. : 106
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5210MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	47.01	33.14	49.44	54.00	5.56	Average
2	5207.63	33.38	1.44	81.49	33.11	83.20	---	---	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



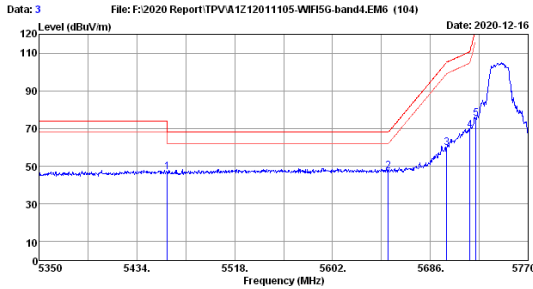
File: F:\2020 Report\TPVA122011105-FCC-Band1-WFH5GEM6 (112) Date: 2020-12-12

Site no. : 3m Chamber Data no. : 105
 Dis. / Ant. : 3m 2020 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.6°C/52.5% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5210MHz Tx Mode

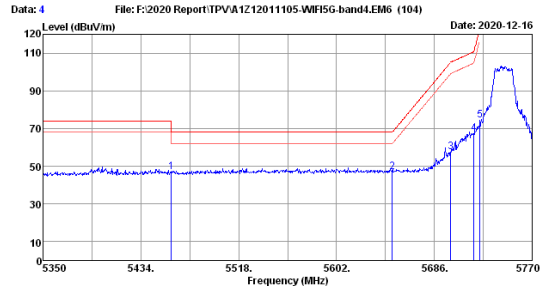
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.14	1.43	49.70	33.14	49.13	54.00	6.87	Average
2	5213.02	33.38	1.44	77.97	33.11	79.68	---	---	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

U-NII-3 Band:



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode



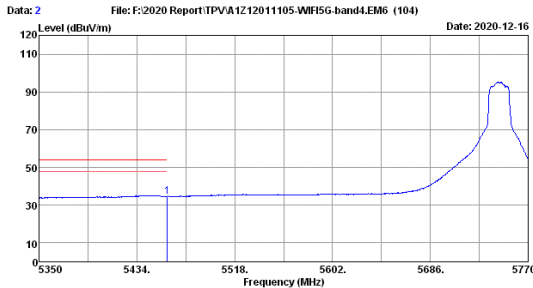
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.35	34.31	46.98	68.20	21.22	Peak
2	5650.00	35.14	1.53	44.77	34.27	47.17	68.20	21.03	Peak
3	5700.00	35.10	1.54	57.36	34.26	59.74	105.20	45.46	Peak
4	5720.00	35.07	1.54	66.78	34.25	69.14	110.80	41.66	Peak
5	5725.00	35.07	1.55	73.09	34.25	75.46	122.80	47.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.18	34.31	46.81	68.20	21.39	Peak
2	5650.00	35.14	1.53	44.47	34.27	46.87	68.20	21.33	Peak
3	5700.00	35.10	1.54	55.35	34.26	57.73	105.20	47.47	Peak
4	5720.00	35.07	1.54	64.82	34.25	67.18	110.80	43.62	Peak
5	5725.00	35.07	1.55	72.17	34.25	74.54	122.80	48.26	Peak

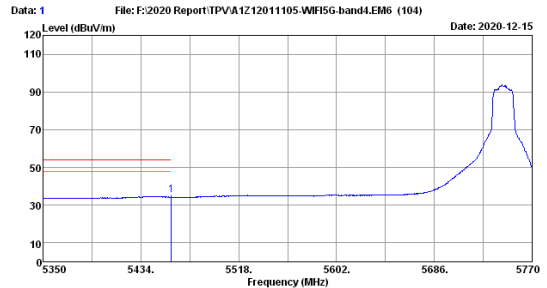
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	32.99	34.31	34.62	54.00	19.38	Average

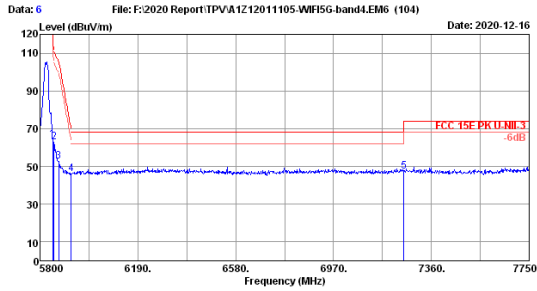
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5745MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	32.56	33.02	35.48	54.00	18.52	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

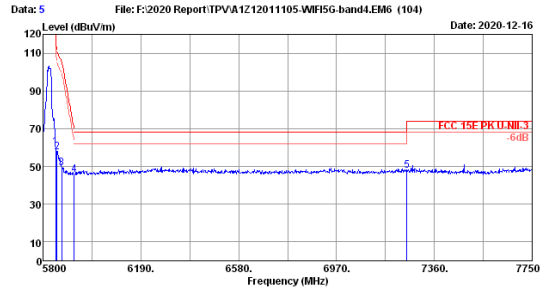


File: F:\2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5880.00	34.85	1.57	61.95	34.23	64.14	122.20	58.06	Peak
2	5855.00	34.80	1.57	60.52	34.23	62.66	110.80	49.14	Peak
3	5875.00	34.75	1.58	50.75	34.22	52.86	105.20	52.34	Peak
4	5925.00	34.70	1.58	43.93	34.21	46.00	68.20	22.20	Peak
5	7250.00	36.25	1.92	43.61	34.55	47.23	68.20	20.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

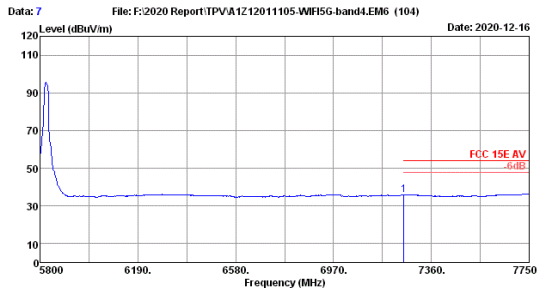


File: F:\2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5880.00	34.85	1.57	57.85	34.23	60.04	122.20	62.16	Peak
2	5855.00	34.80	1.57	55.57	34.23	57.71	110.80	53.09	Peak
3	5875.00	34.75	1.58	46.87	34.22	48.98	105.20	56.22	Peak
4	5925.00	34.70	1.58	43.68	34.21	45.75	68.20	22.45	Peak
5	7250.00	36.25	1.92	44.01	34.55	47.63	68.20	20.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

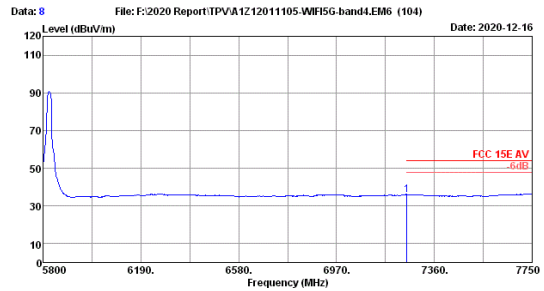


File: F:\2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.34	34.55	35.96	54.00	18.04	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

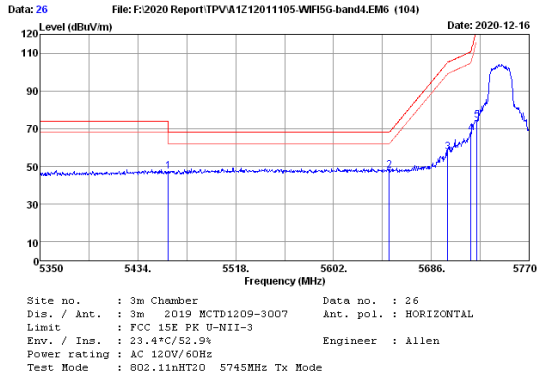


File: F:\2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11a 5825MHz Tx Mode

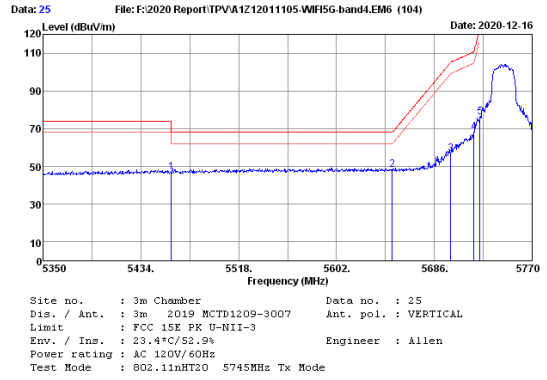
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.40	34.55	36.02	54.00	17.98	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



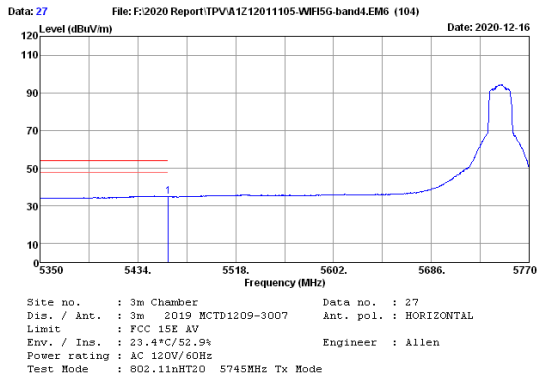
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.62	34.31	47.25	68.20	20.95	Peak
2	5650.00	35.14	1.53	45.48	34.27	47.68	68.20	20.32	Peak
3	5700.00	35.10	1.54	55.33	34.26	57.71	105.20	47.49	Peak
4	5720.00	35.07	1.54	64.88	34.25	67.24	110.80	43.56	Peak
5	5725.00	35.07	1.55	72.06	34.25	74.43	122.80	48.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



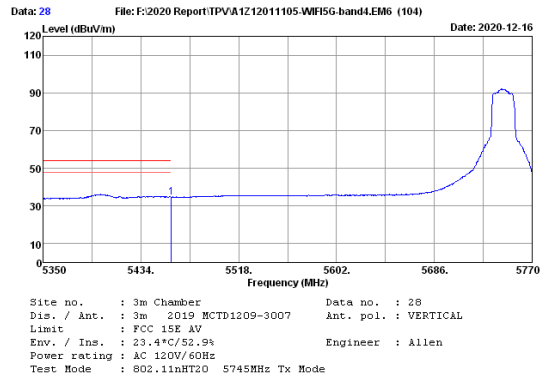
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.14	34.31	46.77	68.20	21.43	Peak
2	5650.00	35.14	1.53	45.73	34.27	48.13	68.20	20.07	Peak
3	5700.00	35.10	1.54	54.34	34.26	56.72	105.20	48.48	Peak
4	5720.00	35.07	1.54	65.77	34.25	68.13	110.80	42.67	Peak
5	5725.00	35.07	1.55	73.97	34.25	76.34	122.80	46.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



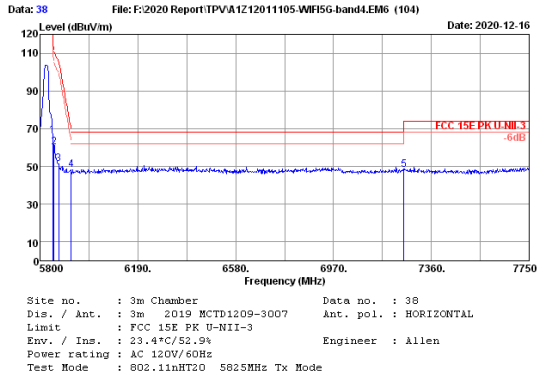
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.15	34.31	34.78	54.00	19.22	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



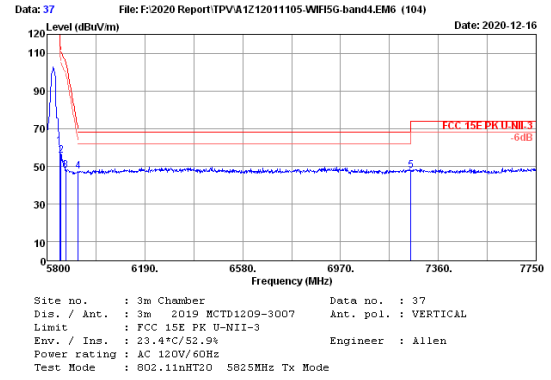
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.01	34.31	34.64	54.00	19.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



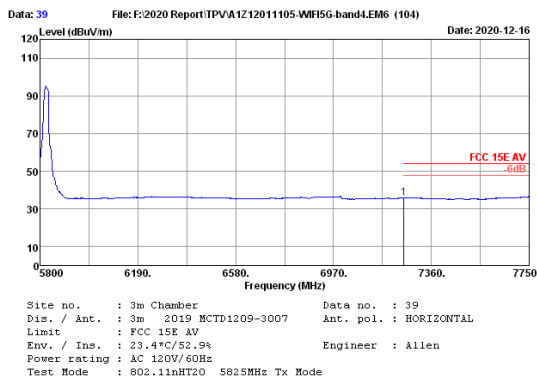
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	64.28	34.23	66.47	122.20	55.73	Peak
2	5855.00	34.80	1.57	58.24	34.23	60.38	110.80	50.42	Peak
3	5875.00	34.75	1.58	49.40	34.22	51.51	105.20	53.69	Peak
4	5925.00	34.70	1.58	46.21	34.21	48.28	68.20	19.92	Peak
5	7250.00	36.25	1.92	44.69	34.55	48.31	68.20	19.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



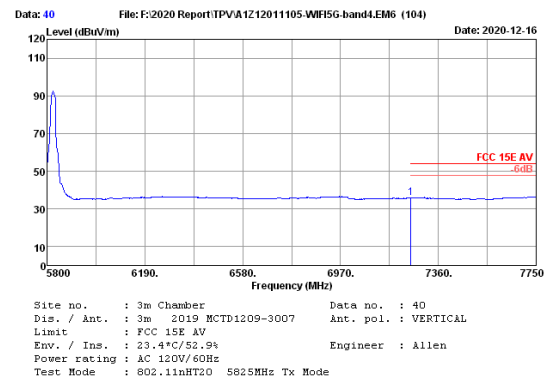
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	58.51	34.23	60.70	122.20	61.50	Peak
2	5855.00	34.80	1.57	53.48	34.23	55.62	110.80	55.18	Peak
3	5875.00	34.75	1.58	45.49	34.22	47.60	105.20	57.60	Peak
4	5925.00	34.70	1.58	45.33	34.21	47.40	68.20	20.80	Peak
5	7250.00	36.25	1.92	44.21	34.55	47.83	68.20	20.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



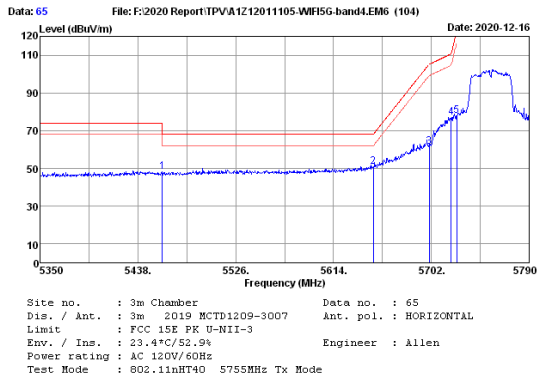
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.36	34.55	35.98	54.00	18.02	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



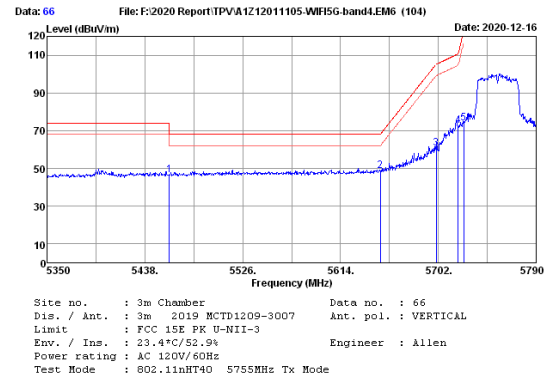
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.41	34.55	36.03	54.00	17.97	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



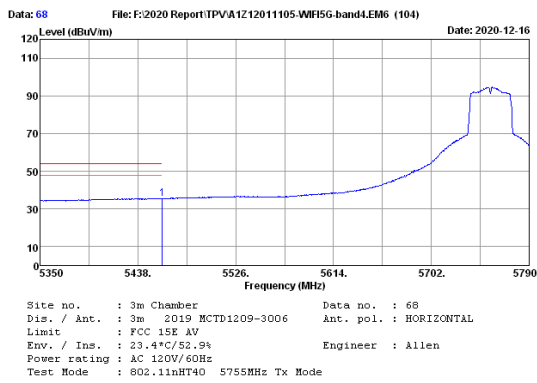
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	46.66	34.31	48.29	68.20	19.91	Peak
2	5650.00	35.14	1.53	48.34	34.27	50.74	68.20	17.46	Peak
3	5700.00	35.10	1.54	59.07	34.26	61.45	105.20	43.75	Peak
4	5720.00	35.07	1.54	74.75	34.25	77.11	110.80	33.69	Peak
5	5725.00	35.07	1.55	75.52	34.25	77.89	122.80	44.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



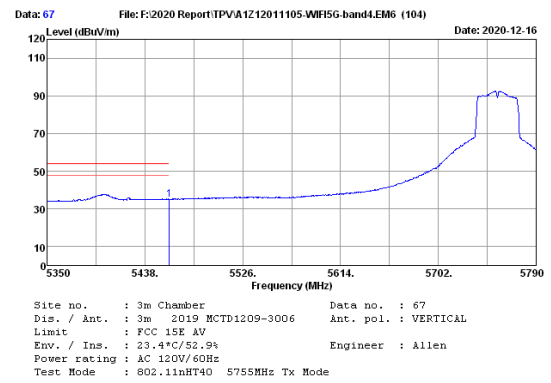
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	44.79	34.31	46.42	68.20	21.78	Peak
2	5650.00	35.14	1.53	46.43	34.27	48.83	68.20	19.37	Peak
3	5700.00	35.10	1.54	58.20	34.26	60.58	105.20	44.62	Peak
4	5720.00	35.07	1.54	70.27	34.25	72.63	110.80	38.17	Peak
5	5725.00	35.07	1.55	71.72	34.25	74.09	122.80	48.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



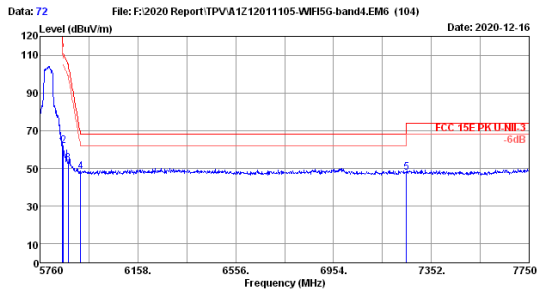
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.83	34.31	35.46	54.00	18.54	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.40	34.31	35.03	54.00	18.97	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

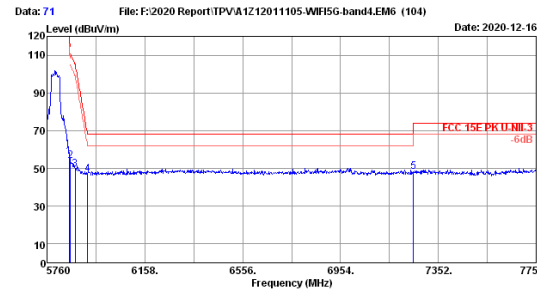


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	59.31	34.23	61.50	122.20	60.70	Peak
2	5855.00	34.80	1.57	60.04	34.23	62.18	110.80	48.62	Peak
3	5875.00	34.75	1.58	50.66	34.22	52.77	105.20	52.43	Peak
4	5925.00	34.70	1.58	46.03	34.21	48.10	68.20	20.10	Peak
5	7250.00	36.25	1.92	44.04	34.55	47.66	68.20	20.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

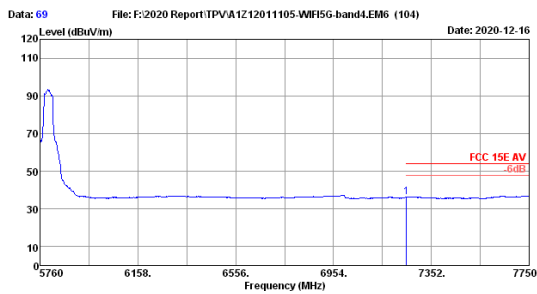


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	53.88	34.23	56.07	122.20	66.13	Peak
2	5855.00	34.80	1.57	51.82	34.23	53.96	110.80	56.84	Peak
3	5875.00	34.75	1.58	47.33	34.22	49.44	105.20	55.76	Peak
4	5925.00	34.70	1.58	44.91	34.21	46.98	68.20	21.22	Peak
5	7250.00	36.25	1.92	44.43	34.55	48.05	68.20	20.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

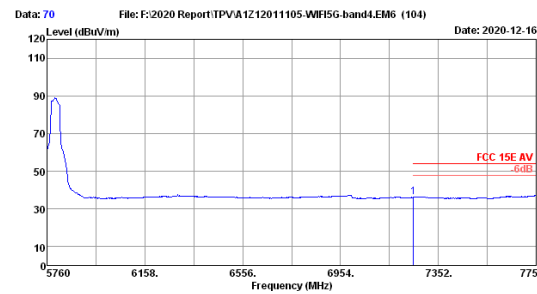


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Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.58	34.55	36.20	54.00	17.80	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

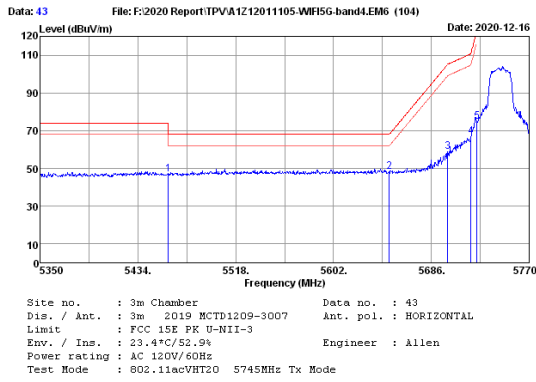


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11nHT40 5795MHz Tx Mode

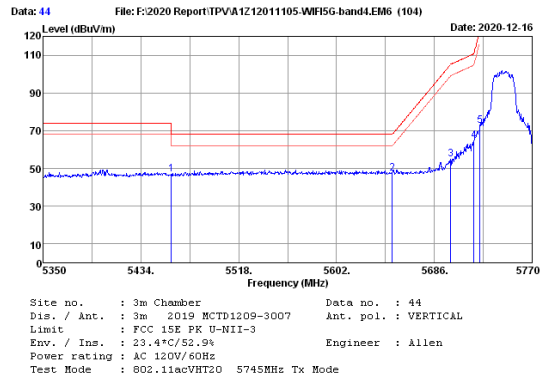
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.54	34.55	36.16	54.00	17.84	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



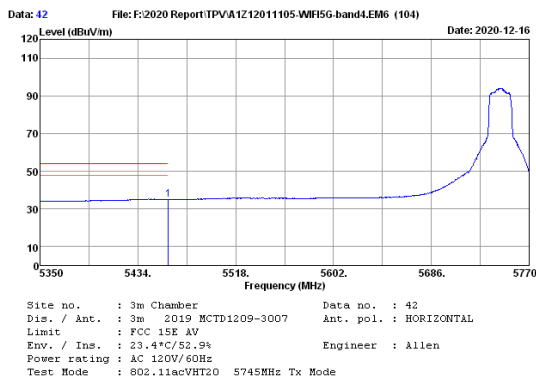
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.27	34.31	46.90	68.20	21.30	Peak
2	5650.00	35.14	1.53	45.66	34.27	48.26	68.20	19.94	Peak
3	5700.00	35.10	1.54	56.41	34.26	58.79	105.20	46.41	Peak
4	5720.00	35.07	1.54	64.54	34.25	66.90	110.80	43.90	Peak
5	5725.00	35.07	1.55	72.53	34.25	74.90	122.80	47.90	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



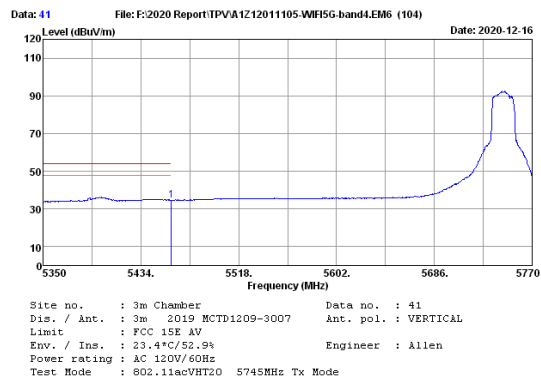
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.30	34.31	46.93	68.20	21.27	Peak
2	5650.00	35.14	1.53	44.79	34.27	47.19	68.20	21.01	Peak
3	5700.00	35.10	1.54	52.34	34.26	54.72	105.20	50.48	Peak
4	5720.00	35.07	1.54	62.14	34.25	64.50	110.80	46.30	Peak
5	5725.00	35.07	1.55	70.19	34.25	72.56	122.80	50.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



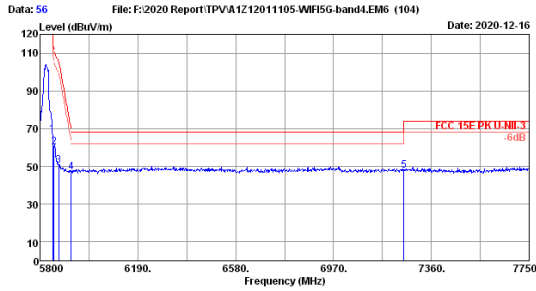
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.25	34.31	34.88	54.00	19.12	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.06	34.31	34.69	54.00	19.31	Average

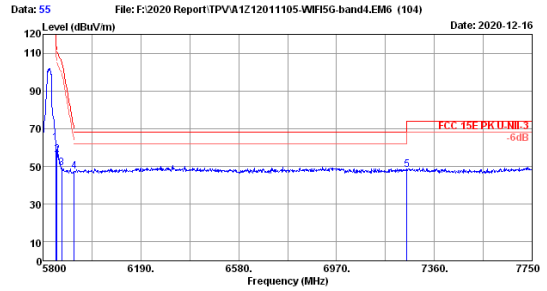
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16
 Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5880.00	34.85	1.57	64.85	34.23	67.04	122.20	55.16	Peak
2	5885.00	34.80	1.57	58.15	34.23	60.29	110.80	50.51	Peak
3	5875.00	34.75	1.58	48.16	34.22	50.27	105.20	54.93	Peak
4	5925.00	34.70	1.58	45.09	34.21	47.16	68.20	21.04	Peak
5	7250.00	36.25	1.92	44.33	34.55	47.95	68.20	20.25	Peak

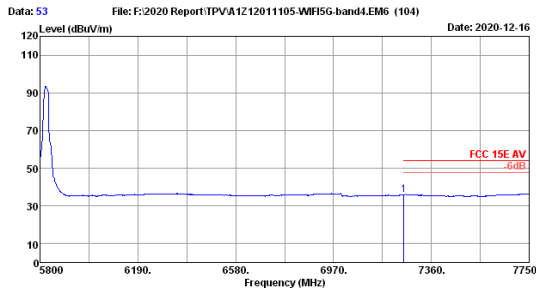
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16
 Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5880.00	34.85	1.57	60.28	34.23	62.47	122.20	59.73	Peak
2	5885.00	34.80	1.57	53.97	34.23	56.11	110.80	54.69	Peak
3	5875.00	34.75	1.58	47.08	34.22	49.19	105.20	56.01	Peak
4	5925.00	34.70	1.58	45.42	34.21	47.49	68.20	20.71	Peak
5	7250.00	36.25	1.92	44.62	34.55	48.24	68.20	19.96	Peak

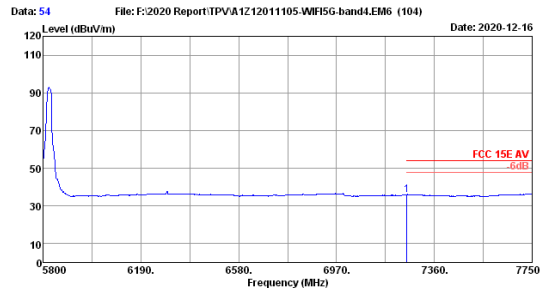
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16
 Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5825MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.35	34.55	35.97	54.00	18.03	Average

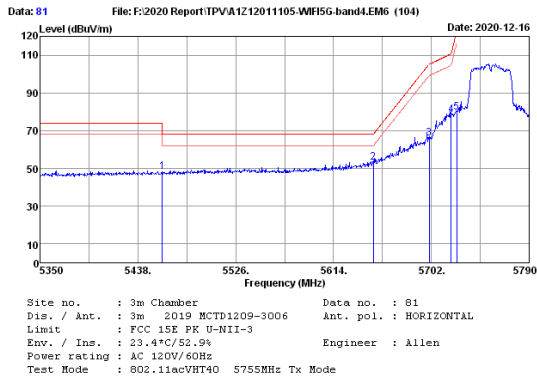
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16
 Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT20 5825MHz Tx Mode

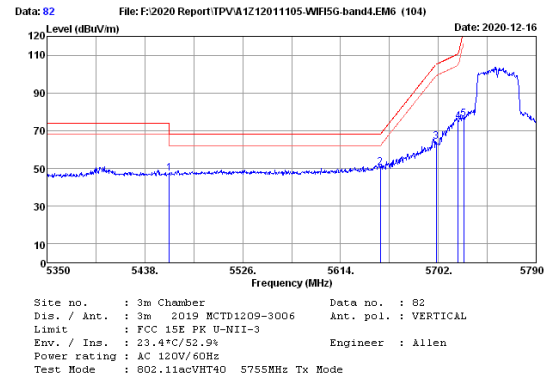
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.38	34.55	36.00	54.00	18.00	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



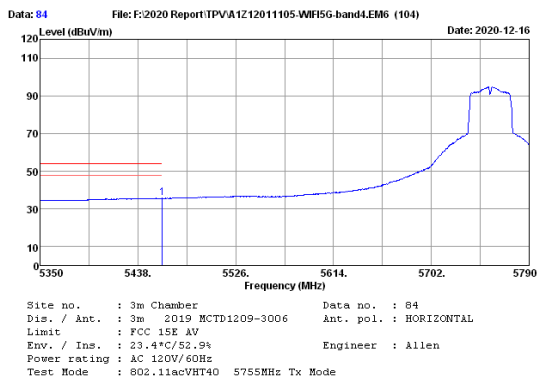
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	46.55	34.31	48.18	68.20	20.02	Peak
2	5650.00	35.14	1.53	50.63	34.27	53.03	68.20	15.17	Peak
3	5700.00	35.10	1.54	63.43	34.26	65.81	105.20	39.39	Peak
4	5720.00	35.07	1.54	75.88	34.25	78.24	110.80	32.56	Peak
5	5725.00	35.07	1.55	77.25	34.25	79.62	122.80	43.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



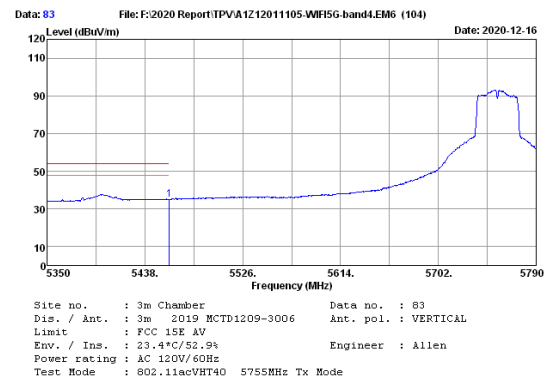
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.53	34.31	47.16	68.20	21.04	Peak
2	5650.00	35.14	1.53	48.22	34.27	50.62	68.20	17.58	Peak
3	5700.00	35.10	1.54	61.65	34.26	64.03	105.20	41.17	Peak
4	5720.00	35.07	1.54	72.46	34.25	74.82	110.80	35.98	Peak
5	5725.00	35.07	1.55	73.93	34.25	76.30	122.80	46.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



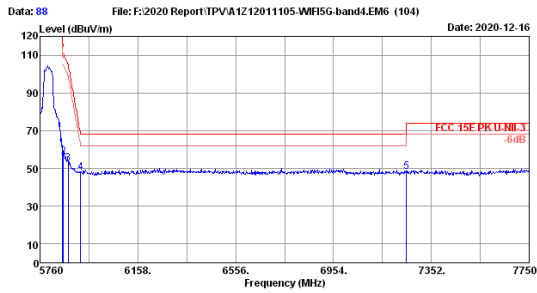
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	34.02	34.31	35.65	54.00	18.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	33.44	34.31	35.07	54.00	18.93	Average

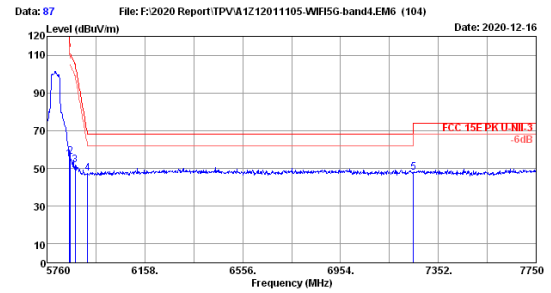
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	58.37	34.23	60.56	122.20	61.64	Peak
2	5855.00	34.80	1.57	54.21	34.23	56.35	110.80	54.45	Peak
3	5875.00	34.75	1.58	50.50	34.22	52.61	105.20	52.59	Peak
4	5925.00	34.70	1.58	45.71	34.21	47.78	68.20	20.42	Peak
5	7250.00	36.25	1.92	44.78	34.55	48.40	68.20	19.80	Peak

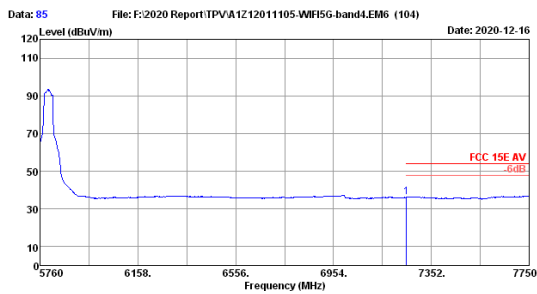
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	52.62	34.23	54.81	122.20	67.39	Peak
2	5855.00	34.80	1.57	53.91	34.23	56.05	110.80	54.75	Peak
3	5875.00	34.75	1.58	49.90	34.22	52.01	105.20	53.19	Peak
4	5925.00	34.70	1.58	45.15	34.21	47.22	68.20	20.98	Peak
5	7250.00	36.25	1.92	44.02	34.55	47.64	68.20	20.56	Peak

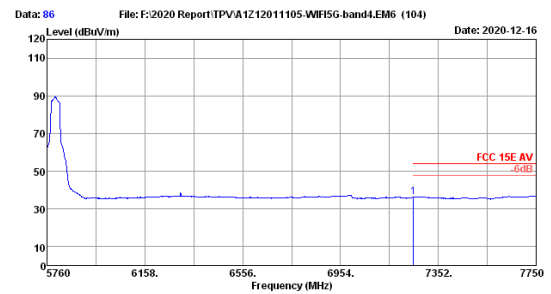
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5795MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.52	34.55	36.14	54.00	17.86	Average

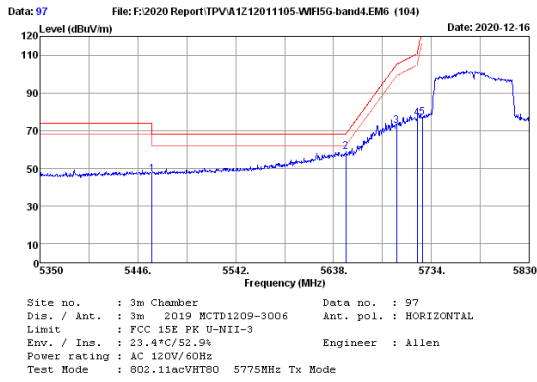
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT40 5795MHz Tx Mode

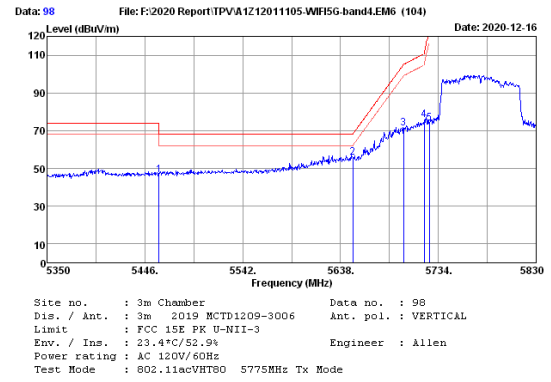
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.50	34.55	36.12	54.00	17.88	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



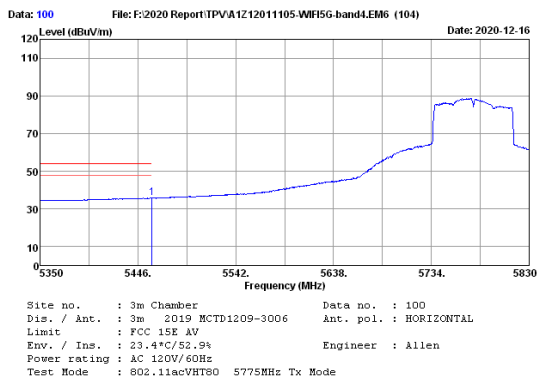
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.34	34.31	46.97	68.20	21.23	Peak
2	5650.00	35.14	1.53	56.59	34.27	58.99	68.20	9.21	Peak
3	5700.00	35.10	1.54	70.16	34.26	72.54	105.20	32.66	Peak
4	5720.00	35.07	1.54	74.12	34.25	76.48	110.80	34.32	Peak
5	5725.00	35.07	1.55	74.64	34.25	77.01	122.80	45.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



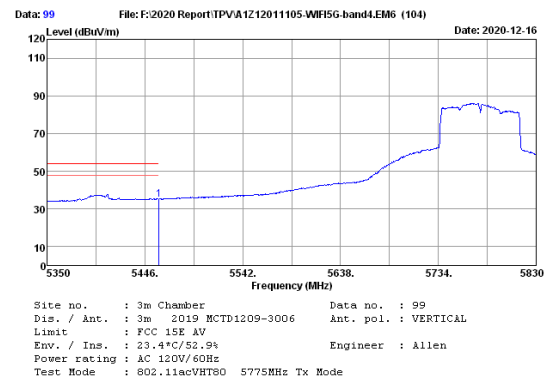
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	45.06	34.31	46.69	68.20	21.51	Peak
2	5650.00	35.14	1.53	53.36	34.27	55.76	68.20	12.44	Peak
3	5700.00	35.10	1.54	69.06	34.26	71.44	105.20	33.76	Peak
4	5720.00	35.07	1.54	73.55	34.25	75.91	110.80	34.89	Peak
5	5725.00	35.07	1.55	71.70	34.25	74.07	122.80	48.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



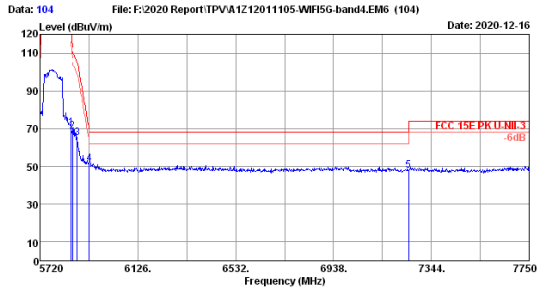
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	34.45	1.49	34.18	34.31	35.81	54.00	18.19	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.92	34.45	1.49	33.55	34.31	35.18	54.00	18.82	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

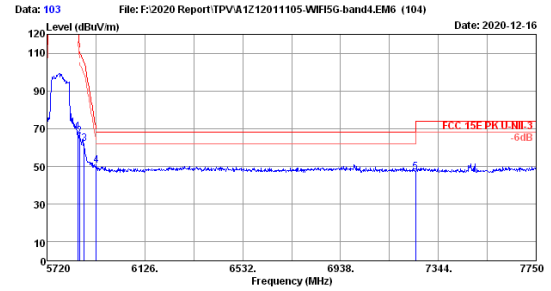


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (104) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 104
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	68.23	34.23	70.42	122.20	51.78	Peak
2	5855.00	34.80	1.57	66.32	34.23	68.46	110.80	42.34	Peak
3	5875.00	34.75	1.58	62.86	34.22	64.97	105.20	40.23	Peak
4	5925.00	34.70	1.58	49.34	34.21	51.41	68.20	16.79	Peak
5	7250.00	36.25	1.92	44.41	34.55	48.03	68.20	20.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

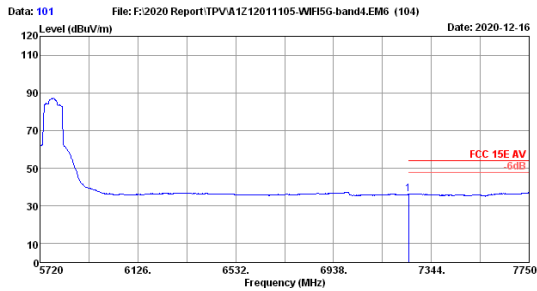


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (103) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 103
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-3
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5850.00	34.85	1.57	66.01	34.23	68.20	122.20	54.00	Peak
2	5855.00	34.80	1.57	63.99	34.23	66.13	110.80	44.67	Peak
3	5875.00	34.75	1.58	59.88	34.22	61.99	105.20	43.21	Peak
4	5925.00	34.70	1.58	48.60	34.21	50.67	68.20	17.53	Peak
5	7250.00	36.25	1.92	43.40	34.55	47.02	68.20	21.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

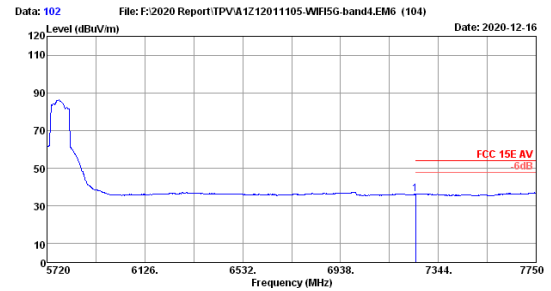


File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (101) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.49	34.55	36.11	54.00	17.89	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



File: F:2020 Report\TPVA1212011105-WIFI5G-band4.EM6 (102) Date: 2020-12-16

Site no. : 3m Chamber Data no. : 102
 Dis. / Ant. : 3m 2019 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E AV
 Env. / Ins. : 23.4°C/52.9% Engineer : Allen
 Power rating : AC 120V/60Hz
 Test Mode : 802.11acVHT80 5775MHz Tx Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7250.00	36.25	1.92	32.50	34.55	36.12	54.00	17.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

6. 6dB & 26dB & 99% Bandwidth Test

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.12,20	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	EMCI	EMC102-KM-KM 3500	170702	Apr.12,20	1 Year

6.2. Limit

6dB Bandwidth should be not less than 500kHz

6.3. Test Procedure

26dB Bandwidth:

Use the test method described in ANSI C63.10 clause 12.4.1:

- (a) Set RBW = approximately 1% of the emission bandwidth.
- (b) Set the VBW > RBW.
- (c) Detector = Peak.
- (d) Trace mode = max hold.
- (e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6dB Bandwidth:

Use the test method described in 789033 D02 v02r01:

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- (a) Set RBW = 100 kHz.
- (b) Set the video bandwidth (VBW) ≥ 3 RBW.
- (c) Detector = Peak.
- (d) Trace mode = max hold
- (e) Sweep = auto couple
- (f) Allow the trace to stabilize
- (g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied bandwidth:

Use the test method described in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

6.4. Test Results

U-NII-1 Band:

EUT: Room Booking Panel		
M/N: IAD-18010A		
Test date: 2020-12-04	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Allen	Test site: RF site	Temperature: 25.5±0.6 °C

26dB bandwidth:

Test Mode	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (kHz)
11a	5180	22.90	N/A
	5200	21.34	N/A
	5240	21.10	N/A
11n HT20	5180	21.50	N/A
	5200	21.16	N/A
	5240	21.13	N/A
11n HT40	5190	45.24	N/A
	5230	46.79	N/A
11ac VHT20	5180	21.32	N/A
	5200	21.31	N/A
	5240	21.11	N/A
11ac VHT40	5190	48.25	N/A
	5230	47.45	N/A
11ac VHT80	5210	96.56	N/A
Conclusion: PASS			

99% Occupied bandwidth:

Test Mode	Frequency (MHz)	99% bandwidth (MHz)	Limit (kHz)
11a	5180	16.560	N/A
	5200	16.534	N/A
	5240	16.509	N/A
11n HT20	5180	17.699	N/A
	5200	17.691	N/A
	5240	17.693	N/A
11n HT40	5190	36.259	N/A
	5230	36.253	N/A
11ac VHT20	5180	17.684	N/A
	5200	17.696	N/A
	5240	17.677	N/A
11ac VHT40	5190	36.254	N/A
	5230	36.252	N/A
11ac VHT80	5210	75.719	N/A
Conclusion: PASS			

U-NII-3 Band:

EUT: Room Booking Panel		
M/N: IAD-18010A		
Test date: 2020-12-04	Pressure: 102.3±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Allen	Test site: RF site	Temperature: 25.5±0.6 °C

6dB bandwidth:

Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)
11a	5745	16.48	≥ 500
	5785	16.48	≥ 500
	5825	16.49	≥ 500
11n HT20	5745	17.72	≥ 500
	5785	17.71	≥ 500
	5825	17.73	≥ 500
11n HT40	5755	36.48	≥ 500
	5795	36.48	≥ 500
11ac VHT20	5745	17.72	≥ 500
	5785	17.72	≥ 500
	5825	17.71	≥ 500
11ac VHT40	5755	36.253	≥ 500
	5795	36.248	≥ 500
11ac VHT80	5775	75.588	≥ 500

Conclusion: PASS

26dB bandwidth:

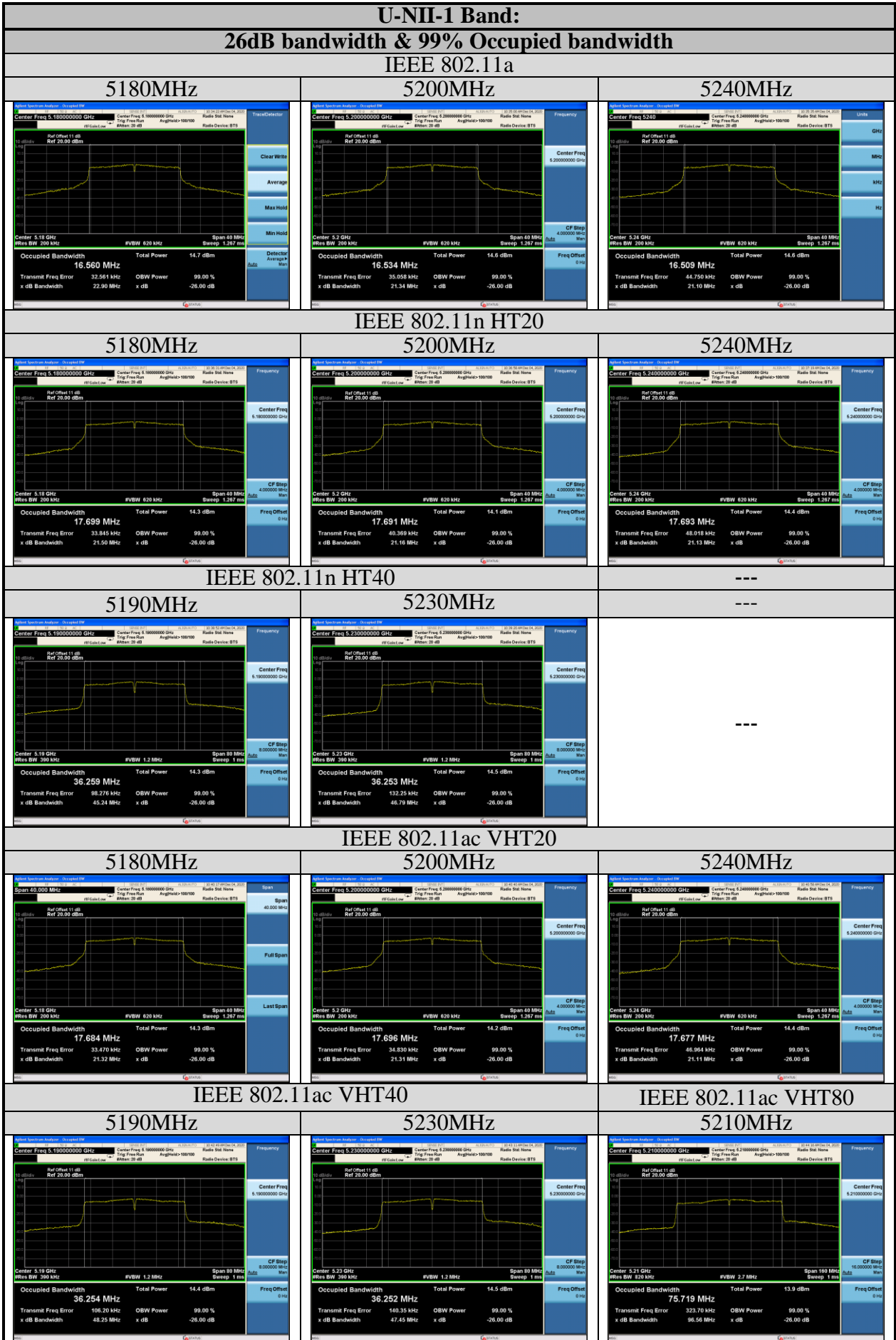
Test Mode	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (kHz)
11a	5745	21.35	N/A
	5785	21.94	N/A
	5825	21.54	N/A
11n HT20	5745	21.21	N/A
	5785	21.37	N/A
	5825	21.37	N/A
11n HT40	5755	42.15	N/A
	5795	43.08	N/A
11ac VHT20	5745	21.36	N/A
	5785	21.50	N/A
	5825	21.35	N/A
11ac VHT40	5755	42.76	N/A
	5795	45.40	N/A
11ac VHT80	5775	81.68	N/A

Conclusion: PASS

99% Occupied bandwidth:

Test Mode	Frequency (MHz)	99% bandwidth (MHz)	Limit (kHz)
11a	5745	16.513	N/A
	5785	16.538	N/A
	5825	16.520	N/A
11n HT20	5745	17.693	N/A
	5785	17.687	N/A
	5825	17.685	N/A
11n HT40	5755	36.213	N/A
	5795	36.240	N/A
11ac VHT20	5745	17.692	N/A
	5785	17.689	N/A
	5825	17.699	N/A
11ac VHT40	5755	36.220	N/A
	5795	36.224	N/A
11ac VHT80	5775	75.604	N/A

Conclusion: PASS



U-NII-3 Band: 6dB bandwidth IEEE 802.11a		
5745MHz	5785MHz	5825MHz
<p>Center Freq 5.74500000 GHz Occupied Bandwidth 16.476 MHz Total Power 15.5 dBm</p>	<p>Center Freq 5.78500000 GHz Occupied Bandwidth 16.494 MHz Total Power 15.4 dBm</p>	<p>Center Freq 5.82500000 GHz Occupied Bandwidth 16.479 MHz Total Power 15.2 dBm</p>
IEEE 802.11n HT20		
5745MHz	5785MHz	5825MHz
<p>Center Freq 5.745 GHz Occupied Bandwidth 17.660 MHz Total Power 15.3 dBm</p>	<p>Center Freq 5.785 GHz Occupied Bandwidth 17.658 MHz Total Power 15.2 dBm</p>	<p>Center Freq 5.825 GHz Occupied Bandwidth 17.662 MHz Total Power 14.8 dBm</p>
IEEE 802.11n HT40		
5755MHz	5795MHz	---
<p>Center Freq 5.755 GHz Occupied Bandwidth 36.241 MHz Total Power 15.5 dBm</p>	<p>Center Freq 5.795 GHz Occupied Bandwidth 36.226 MHz Total Power 15.3 dBm</p>	---
IEEE 802.11ac VHT20		
5745MHz	5785MHz	5825MHz
<p>Center Freq 5.745 GHz Occupied Bandwidth 17.658 MHz Total Power 15.3 dBm</p>	<p>Center Freq 5.785 GHz Occupied Bandwidth 17.663 MHz Total Power 15.1 dBm</p>	<p>Center Freq 5.825 GHz Occupied Bandwidth 17.664 MHz Total Power 15.0 dBm</p>
IEEE 802.11ac VHT40		
5755MHz	5795MHz	5775MHz
<p>Center Freq 5.755 GHz Occupied Bandwidth 36.253 MHz Total Power 15.6 dBm</p>	<p>Center Freq 5.795 GHz Occupied Bandwidth 36.248 MHz Total Power 15.3 dBm</p>	<p>Center Freq 5.775 GHz Occupied Bandwidth 75.588 MHz Total Power 14.7 dBm</p>