

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

TCL Communication Ltd.

Tablet PC

8188X

FCC ID: 2ACCJB225

Prepared for : TCL Communication Ltd.

5/F, Building 22E, 22 Science Park East Avenue, Hong Kong
Science Park, Shatin, NT, Hong Kong

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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

Tel: (0755) 26639496



Report Number : ACS-F24117

Date of Test : May.28~Jul.01, 2024

Date of Report : Jul.17, 2024

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Appendix A. Photograph of Test
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TEST REPORT

Applicant : TCL Communication Ltd.
Manufacturer : TCL Communication Ltd.
Product : Tablet PC
FCC ID : 2ACCB225
(A) Model No. : 8188X
(B) Test Voltage : DC 3.85V
DC 5V From Adapter Input AC 120V/60Hz

Tested for comply with:
FCC CFR47 Part 15 Subpart E

Test procedure used:
ANSI C63.10:2020+Cor1:2023
KDB 789033 D02 General UNII Test Procedures New Rules v01r04

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 2.1074. No modifications were required during testing to bring this product into compliance.

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

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : May.28~Jul.01, 2024 Date of Report: Jul.17, 2024

Prepared by : Crush Liu Reviewed by : Thomas Chen
Crush Liu / Assistant Thomas Chen / Assistant Manager



Approved & Authorized Signer :

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)	N/A
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
Note 1: Measurement uncertainty affection to the result is not considered, the EUT is technically compliant with standard requirements.		
Note 2:N/A is an abbreviation for Not Applicable		

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	TCL Communication Ltd.
Applicant Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer	TCL Communication Ltd.
Manufacturer Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Factory	Huizhou TCL Mobile Communication Co., Ltd.
Factory Address	No.86, Hechang 7th West Road, Zhong Kai Hi-tech Development District, Hui Zhou, Guang Dong
Product	Tablet PC
Model No.	8188X
FCC ID	2ACCJB225
Sample Type	Prototype production
Date of Receipt	May.21, 2024
Date of Test	May.28~Jul.01, 2024

2.2.Feature of Equipment Under Test

Product Feature & Specification		
Product	Tablet PC	
Model No.	8188X	
Power Source	☒ Commercial Power	AC 100-240V~50/60Hz
	☒ External Power Source	DC 5.0V, 2.0A
	☒ Li-ion Battery	DC 3.85V
	☐ UM battery	DC V
5GHz Wi-Fi		
Support Modes	802.11a/n20/n40/ac20/ac40/ac80	
Frequency Range	5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 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: up to 300Mbps; 802.11ac: up to 867Mbps	
Channel Separation	5MHz	
Antenna System		
Type of Antenna & Antenna Peak Gain	Antenna Type : PIFA Antenna Antenna Gain: 0.58dBi	
Remark: This report is for Wi-Fi 5GHz radio specification only. EUT also supports other radio specification as below listed: BDR+EDR (Test report No. ACS-F24114) BLE (Test report No. ACS-F24115) Wi-Fi 2.4GHz (Test report No. ACS-F24116) DFS (Test report No. ACS-F24123)		

2.3.Tested Supporting System Details

None

2.4.Block diagram of connection between the EUT and simulators



(EUT: Tablet PC)

2.5. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Nov.09,22	3 Year
2.	3m Chamber(NSA)	AUDIX	N/A	N/A	Aug.11,22	3Year
3.	3m Chamber(SE)	AUDIX	N/A	N/A	Sep.16,22	3 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Mar.16,24	1 Year
5.	EMI Test Receiver	Rohde & Schwarz	ESR3	101931	Mar.17,24	1 Year
6.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.07,23	1 Year
7.	Signal Analyzer	Rohde & Schwarz	FSV30	104050	Mar.17,24	1 Year
8.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Jun.19,24	1 Year
9.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	Mar.16,24	1 Year
10.	RF Cable	Eastsheep	RG223	190424	Sep.15,23	1Year
11.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	429	Oct.10,23	1 Year
12.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Aug.23,23	1 Year
13.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3+190411	Sep.20,23	1 Year
14.	RF Cable	TIMES MICROWAVE	SFT205-NMSM-1 0.00M	689241	Aug.25,23	1 Year
15.	RF Cable	EMCI	EMC104-SM-SM-15000	190407	Jun.25,23	1 Year
16.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	190423	Mar.16,24	1 Year
17.	Coaxial Switch	Anritsu	MP59B	6201397223	Mar.17,24	1 Year
18.	Terminator	Hubersuhner	50Ω	No.1	Mar.16,24	1 Year
19.	Amplifier	HP	8447D	2944A11159	Mar.17,24	1 Year
20.	Amplifier	EMCI	EMC0518A45SE	980965	Aug.25,23	1 Year
21.	Amplifier	Agilent	83017A	MY53270084	Sep.20,23	1 Year
22.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Mar.16,24	1 Year
23.	Test Software	AUDIX	e3	6.100913a	N/A	N/A
24.	Attenuator(10dB)	Agilent	8491B	MY39269201	Mar.16,24	1 Year
25.	Power meter	Anritsu	ML2487A	6K00003262	Jun.19,24	1 Year
26.	Power sensor	Anritsu	MA2491A	032516	Jun.19,24	1 Year

Note: N/A means Not applicable.

2.6. Test Information

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

Mode	data rate (Mbps)(see Note)	Channel	Frequency (MHz)	Power setting
IEEE 802.11a	6	CH36	5180	15
	6	CH40	5200	15
	6	CH48	5240	15
	6	CH52	5260	15
	6	CH60	5300	15
	6	CH64	5320	15
	6	CH100	5500	15
	6	CH120	5600	15
	6	CH140	5700	15
	6	CH149	5745	15
	6	CH157	5785	15
	6	CH165	5825	15
IEEE 802.11nHT20	MCS0	CH36	5180	15
	MCS0	CH40	5200	15
	MCS0	CH48	5240	15
	MCS0	CH52	5260	15
	MCS0	CH60	5300	15
	MCS0	CH64	5320	15
	MCS0	CH100	5500	15
	MCS0	CH120	5600	15
	MCS0	CH140	5700	15
	MCS0	CH149	5745	15
	MCS0	CH157	5785	15
	MCS0	CH165	5825	15
IEEE 802.11nHT40	MCS0	CH38	5190	15
	MCS0	CH46	5230	15
	MCS0	CH54	5270	15
	MCS0	CH62	5310	15
	MCS0	CH102	5510	15
	MCS0	CH118	5590	15
	MCS0	CH134	5670	15
	MCS0	CH151	5755	15
	MCS0	CH159	5795	15

IEEE 802.11acVHT20	MCS0	CH36	5180	15
	MCS0	CH40	5200	15
	MCS0	CH48	5240	15
	MCS0	CH52	5260	15
	MCS0	CH60	5300	15
	MCS0	CH64	5320	15
	MCS0	CH100	5500	15
	MCS0	CH120	5600	15
	MCS0	CH140	5700	15
	MCS0	CH149	5745	15
	MCS0	CH157	5785	15
	MCS0	CH165	5825	15
IEEE 802.11acVHT40	MCS0	CH38	5190	17
	MCS0	CH46	5230	17
	MCS0	CH54	5270	17
	MCS0	CH62	5310	17
	MCS0	CH102	5510	17
	MCS0	CH118	5590	17
	MCS0	CH134	5670	17
	MCS0	CH151	5755	17
	MCS0	CH159	5795	17
IEEE 802.11acVHT80	MCS0	CH42	5210	17
	MCS0	CH58	5290	17
	MCS0	CH106	5530	17
	MCS0	CH122	5610	17
	MCS0	CH138	5690	17
	MCS0	CH155	5775	17

Note 1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.7. 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. : Certificated by ISED, Canada
Company Number: 5183A
CAB identifier: CN0034
Valid Date: Mar.31, 2025

Certificated by FCC, USA
Designation No.: CN5022
Valid Date: Mar.31, 2025

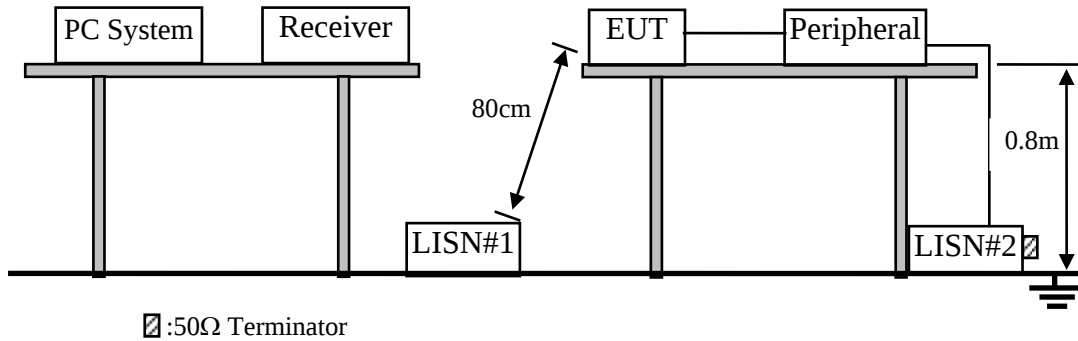
Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2025

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

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	$\pm 2.6\text{dB}$ (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: H)
	$\pm 3.8\text{dB}$ (30~200MHz, Polarization: V)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: H)
	$\pm 4.0\text{dB}$ (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber	$\pm 4.0\text{dB}$ (1~6GHz, Distance: 3m)
	$\pm 4.0\text{dB}$ (6~40GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	$\pm 3.7\text{dB}$ (30MHz~1000MHz)
	$\pm 3.3\text{dB}$ (1GHz~26.5MHz)
Uncertainty for Power density test	$\pm 2.0\text{dB}$
Uncertainty for Output power test	$\pm 0.8\text{dB}$
Uncertainty for Bandwidth test	$\pm 4.6\%$
Uncertainty for DC power test	$\pm 0.1\%$
Uncertainty for test site temperature and humidity	$\pm 0.6^{\circ}\text{C}$
	$\pm 3\%$

3. POWER LINE CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. 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:
- * Decreasing linearly with logarithm of frequency.
 - The lower limits shall apply at the transition frequencies.
 - Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB) + Reading (Receiver) (dBμV)

3.3.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.

3.3.1.Tablet PC (EUT)

Model No. : 8188X

Serial No. : N/A

3.3.2.Support Equipment: As Tested Supporting System Details, in Section 2.4.

3.4.Operating Condition of EUT

3.4.1.Setup the EUT and simulator as shown as Section 3.1.

3.4.2.Turn on the power of all equipments.

3.4.3.PC run test software to control EUT work in Tx mode.

3.5.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via Adapter connected to the power mains through a line impedance stabilization network (L.I.S.N.). 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 on Conducted Emission Test.

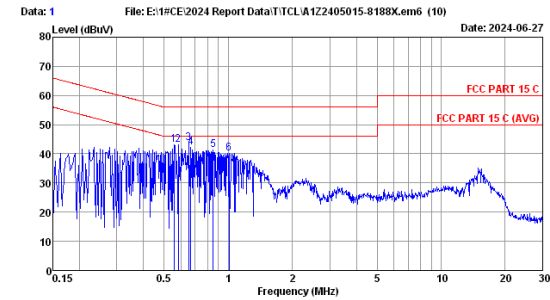
The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

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

3.6.Power Line Conducted Emission Test Results

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

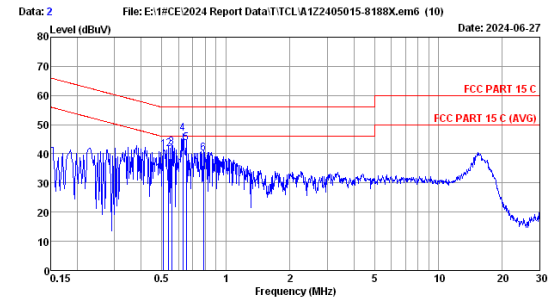
FCC ID: 2ACCJB225



Site no :1# CE Data No :1
Dis./Lism :2023 ENV216-L
Limit :FCC PART 15 C
Env./Ins. :22.9°C/52% Engineer :Hongjie
Power Rating :AC 120V/60Hz
Test Mode :WIFI5G TX Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.555	9.58	0.02	33.46	43.06	56.00	12.94	QP
2	0.582	9.58	0.02	33.56	43.16	56.00	12.84	QP
3	0.651	9.57	0.02	34.11	43.70	56.00	12.30	QP
4	0.668	9.57	0.02	32.56	42.15	56.00	13.85	QP
5	0.848	9.57	0.02	31.71	41.30	56.00	14.70	QP
6	1.010	9.56	0.02	30.71	40.29	56.00	15.71	QP

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# CE Data No :2
Dis./Lism :2023 ENV216-N
Limit :FCC PART 15 C
Env./Ins. :22.9°C/52% Engineer :Hongjie
Power Rating :AC 120V/60Hz
Test Mode :WIFI5G TX Mode

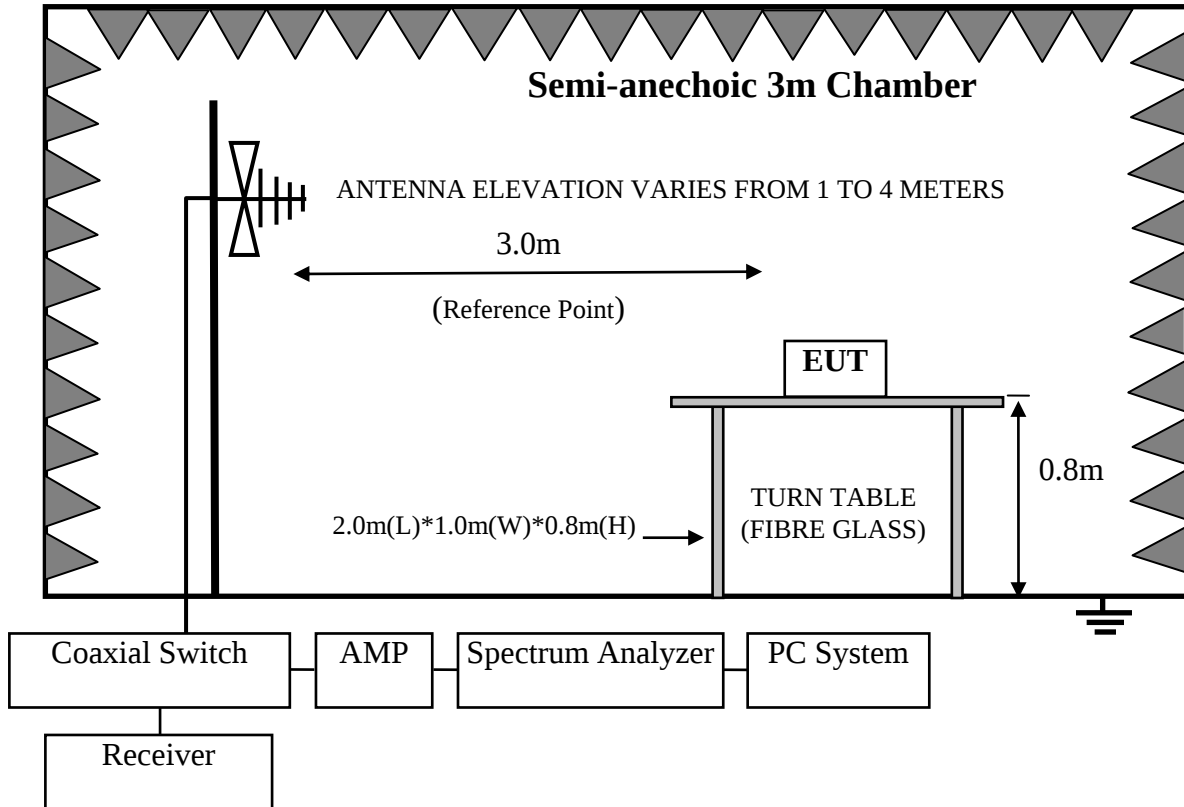
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.510	9.73	0.02	31.50	41.25	56.00	14.75	QP
2	0.538	9.73	0.02	31.88	41.63	56.00	14.37	QP
3	0.555	9.73	0.02	32.58	42.33	56.00	13.67	QP
4	0.627	9.74	0.02	37.16	46.92	56.00	9.08	QP
5	0.651	9.74	0.02	33.87	43.63	56.00	12.37	QP
6	0.783	9.74	0.02	30.27	40.03	56.00	15.97	QP

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.

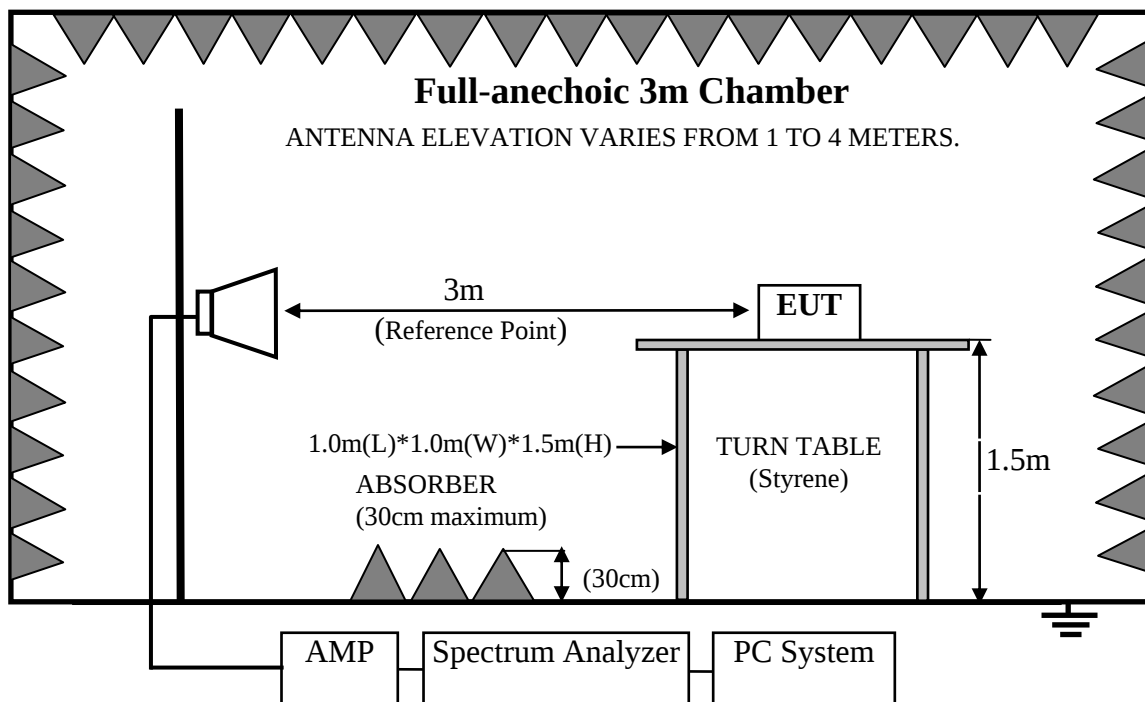
4. RADIATED EMISSION TEST

4.1. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-40GHz



4.2. Radiated Emission Limits

For transmitters operating in the 5.15-5.25 GHz; 5.25-5.35GHz; 5.47-5.725GHz, 5.725-5.850GHz band: all emissions outside of those band shall not exceed an EIRP of -27 dBm/MHz. 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

4.2.1.15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remarks : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Receiver) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) + Cable Loss (dB)(Below 1000MHz)

Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Spectrum) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(Above 1000MHz)

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

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

4.2.2.15.205 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)

4.3.EUT Configuration on Test

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

4.3.1.Tablet PC (EUT)

Model No. : 8188X

Serial No. : N/A

4.3.2.Support Equipment: As Tested Supporting System Details, in Section 2.4.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipments.

4.4.3.Let EUT work in Tx mode.

4.5.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 regulation.

Frequency above 30MHz:

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 on radiated emission Test.

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

The bandwidth of the EMI test receiver (R&S ESR3) 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(dBuv/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.

4.6.Radiated Emission Test Results

PASS.

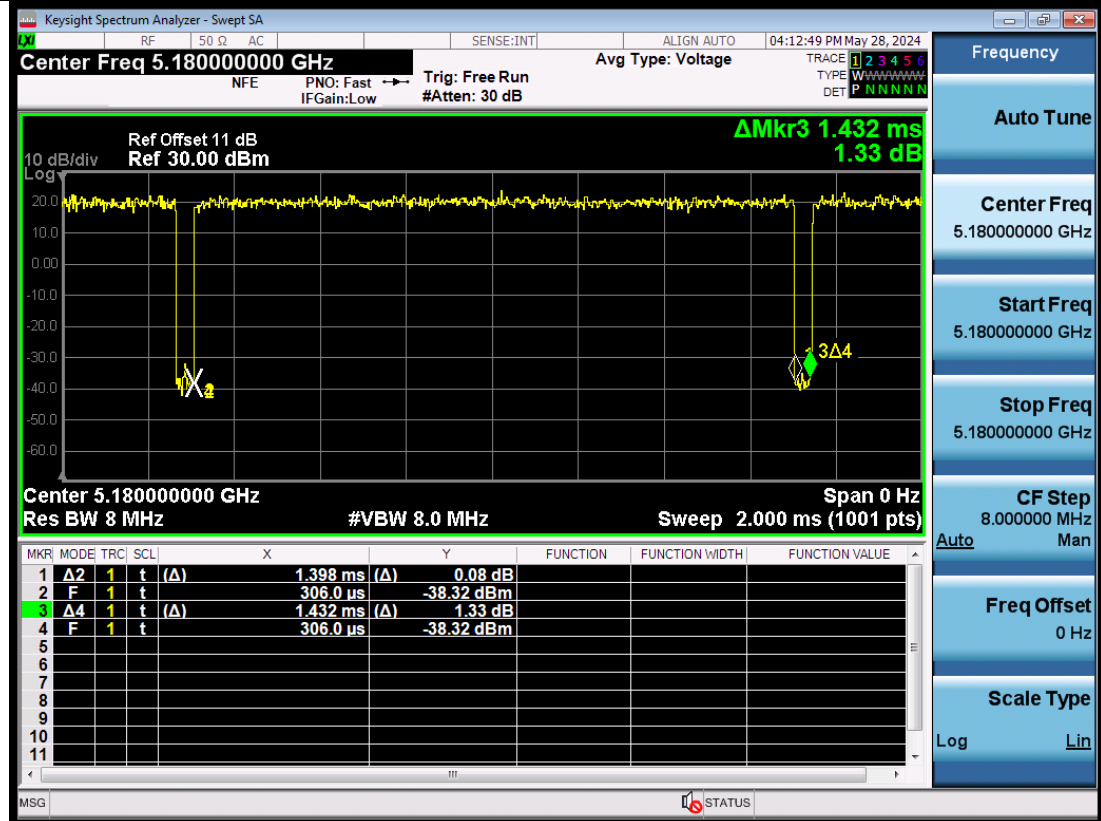
All the emissions from 30MHz to 1 GHz were comply with 15.209 limits.

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

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

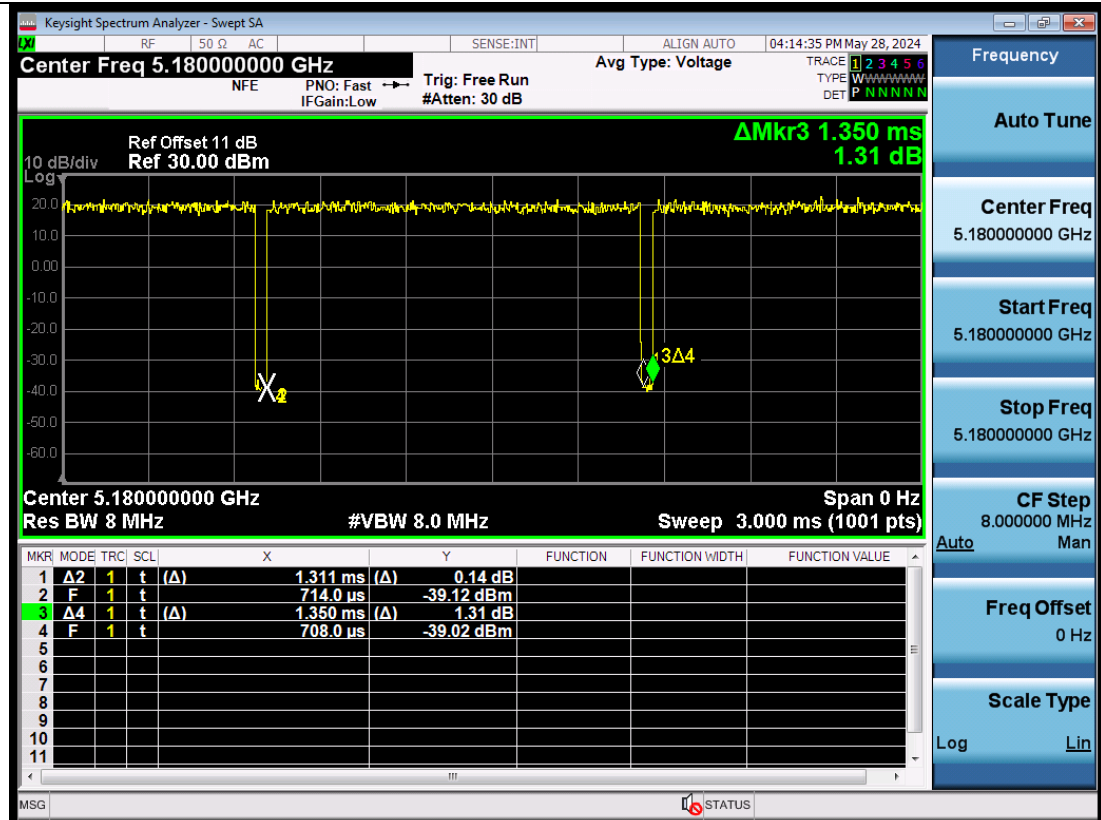
Duty cycle

11 a



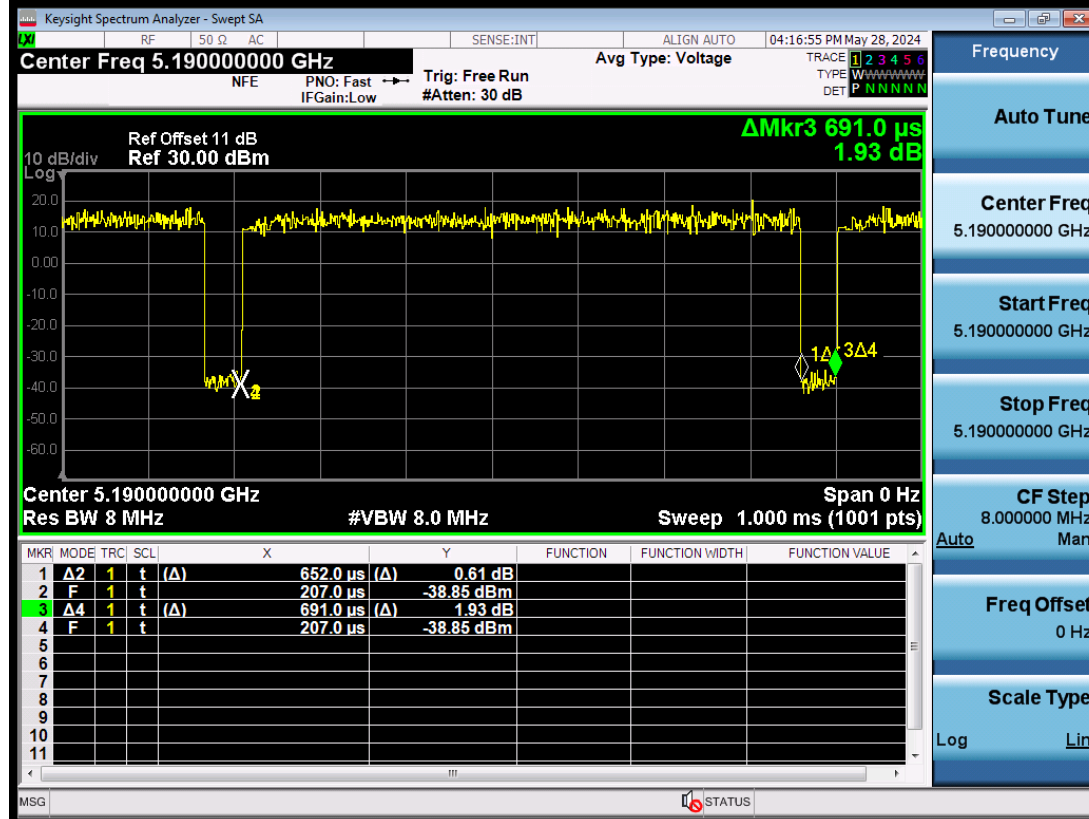
Note: The duty cycle factor is 0.11

11n HT20



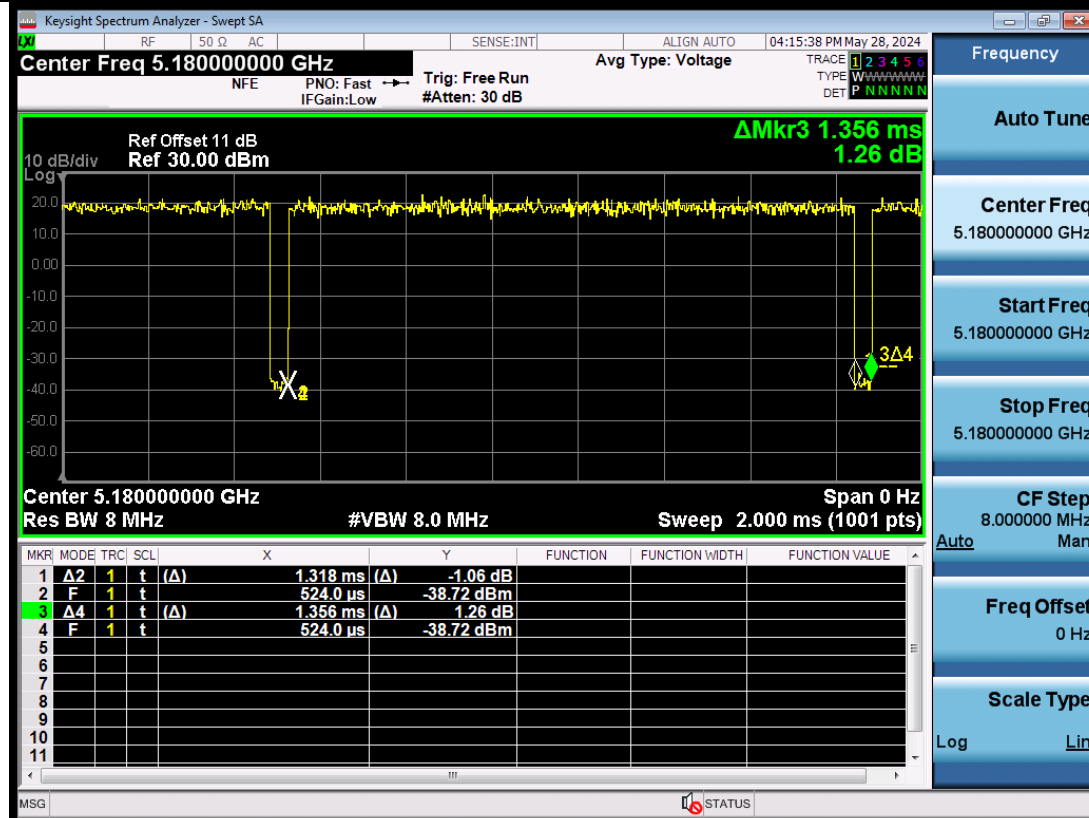
Note: The duty cycle factor is 0.13

11n HT40



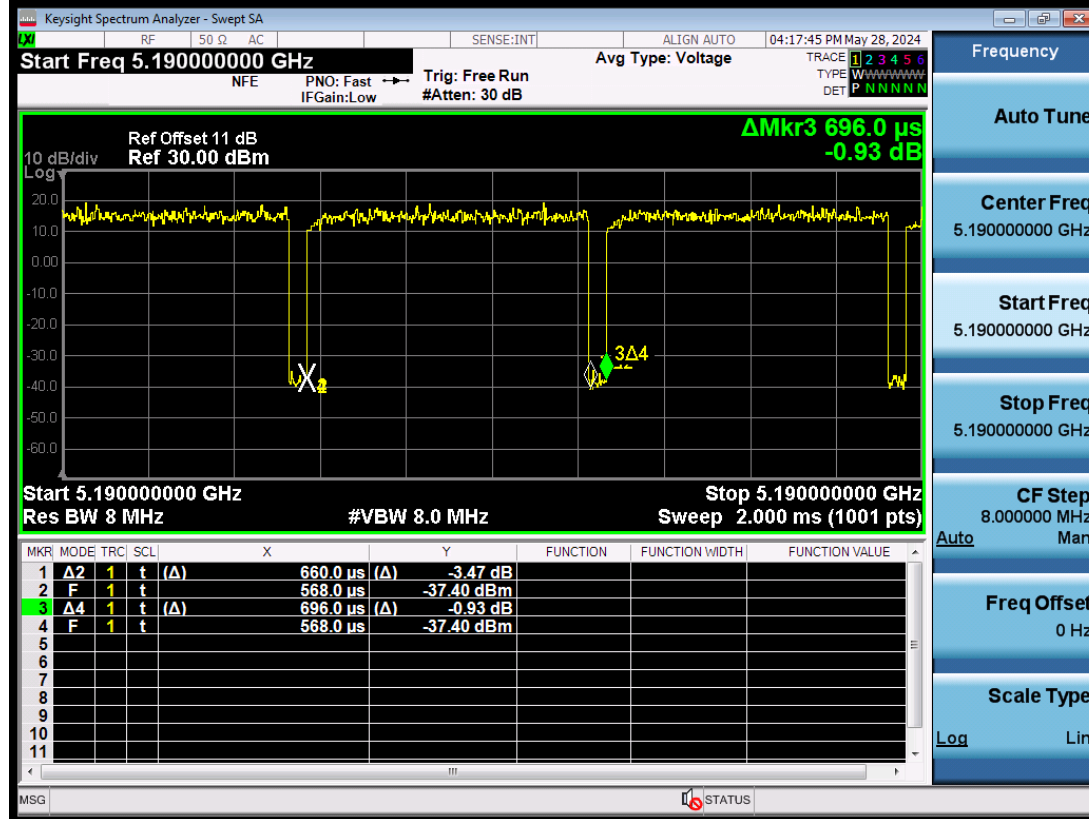
Note: The duty cycle factor is 0.25

11ac VHT20



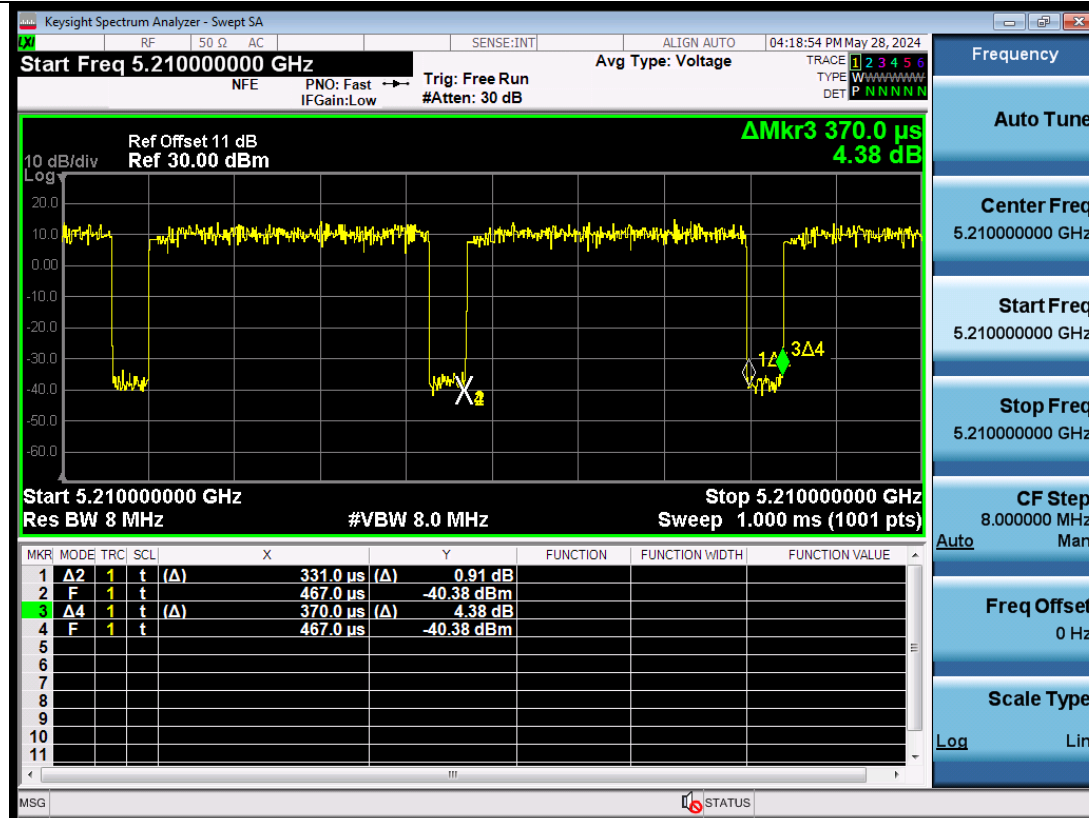
Note: The duty cycle factor is 0.12

11ac VHT40



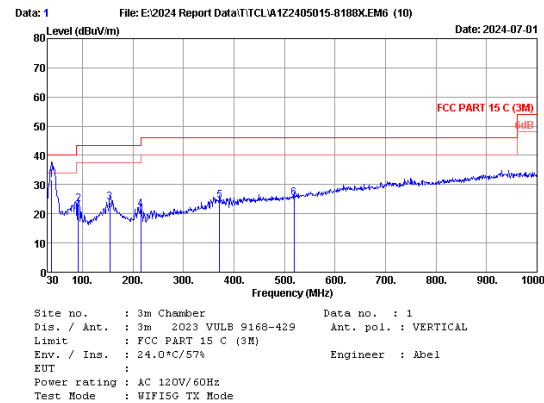
Note: The duty cycle factor is 0.23

11ac VHT80



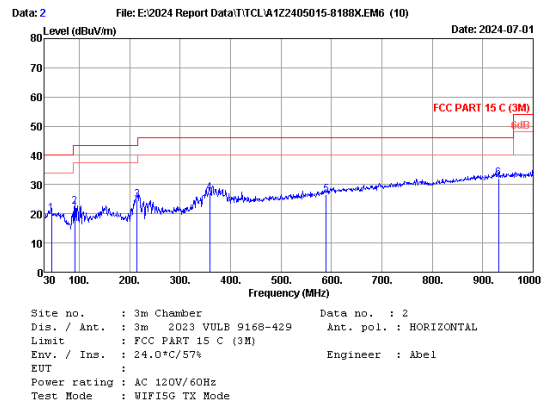
Note: The duty cycle factor is 0.48

Frequency: 30MHz~1GHz



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	38.730	19.20	0.56	42.29	31.65	40.00	8.35	QP
2	92.080	14.11	0.64	38.43	23.30	43.50	20.20	QP
3	154.160	19.40	1.03	33.03	23.83	43.50	19.67	QP
4	215.270	15.61	1.23	33.87	21.56	43.50	21.94	QP
5	371.440	21.06	1.57	30.89	24.41	46.00	21.59	QP
6	518.880	24.00	1.87	29.38	25.31	46.00	20.69	QP

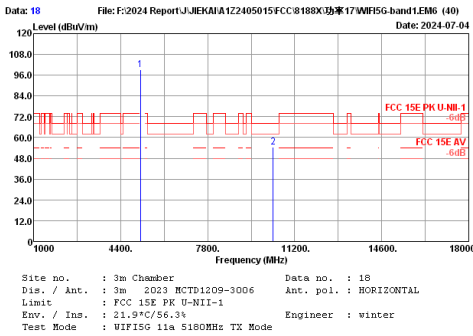
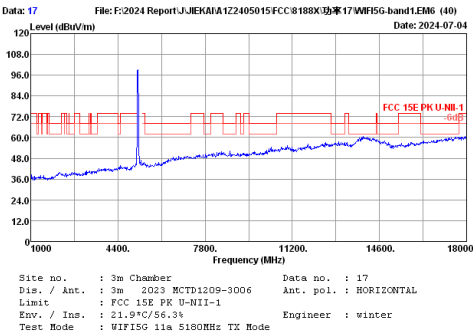
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.550	19.58	0.61	30.10	19.94	40.00	20.06	QP
2	91.110	14.01	0.83	37.60	22.37	43.50	21.13	QP
3	214.300	15.60	1.22	37.09	24.77	43.50	18.73	QP
4	358.830	20.63	1.54	34.21	27.30	46.00	18.70	QP
5	589.690	25.39	2.03	28.75	26.44	46.00	19.56	QP
6	931.130	29.92	2.70	27.92	32.30	46.00	13.70	QP

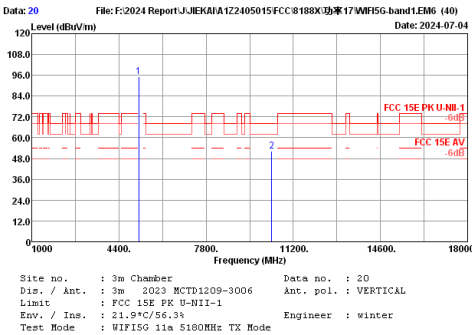
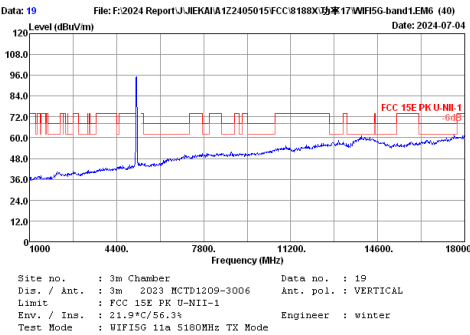
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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	32.50	4.11	93.31	30.63	99.29	-----	-----	Peak
2	10360.00	38.36	5.61	41.97	31.35	54.59	68.20	13.61	Peak

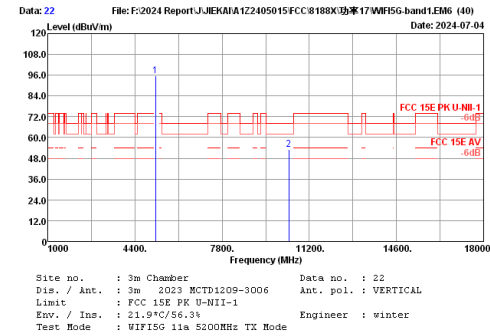
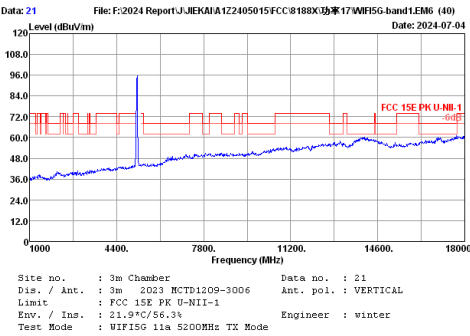
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5180.00	32.50	4.11	89.34	30.63	95.32	-----	-----	Peak
2	10360.00	38.36	5.61	39.62	31.35	52.24	68.20	15.96	Peak

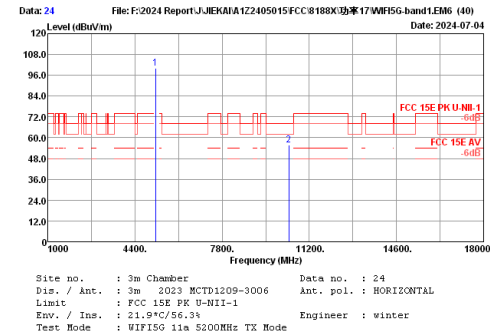
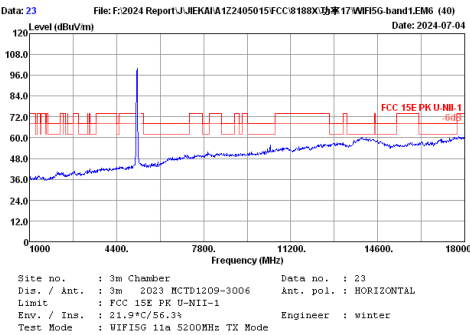
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.50	4.11	89.62	30.66	95.57	-----	-----	Peak
2	10400.00	38.40	5.62	40.26	31.28	53.00	68.20	15.20	Peak

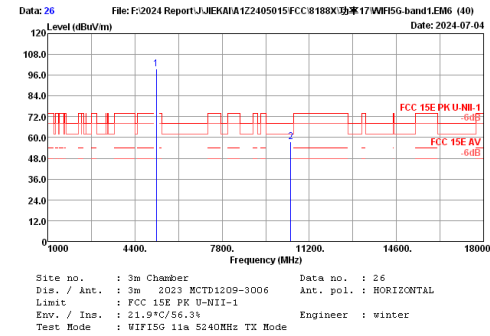
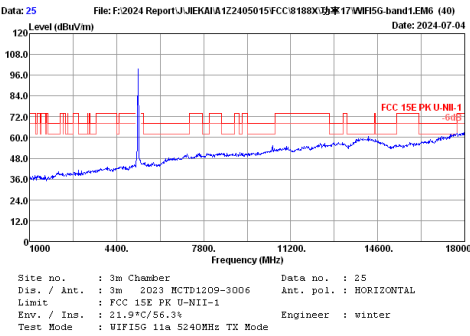
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5200.00	32.50	4.11	93.98	30.66	99.93	-----	-----	Peak
2	10400.00	38.40	5.62	42.83	31.28	55.57	68.20	12.63	Peak

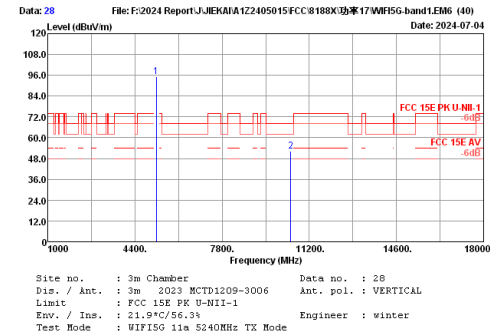
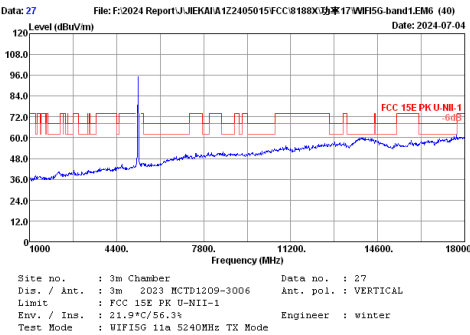
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.66	4.13	93.75	30.71	99.83	-----	-----	Peak
2	10480.00	38.40	5.65	44.47	31.14	57.38	68.20	10.82	Peak

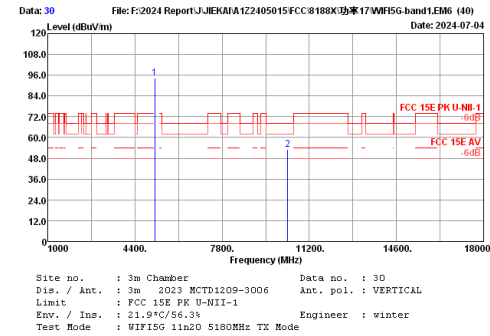
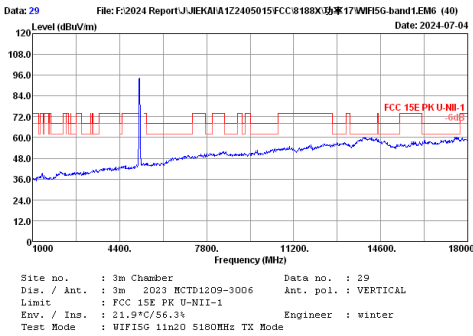
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



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	5240.00	32.66	4.13	88.91	30.71	94.99	-----	-----	Peak
2	10480.00	38.40	5.65	39.25	31.14	52.16	68.20	16.04	Peak

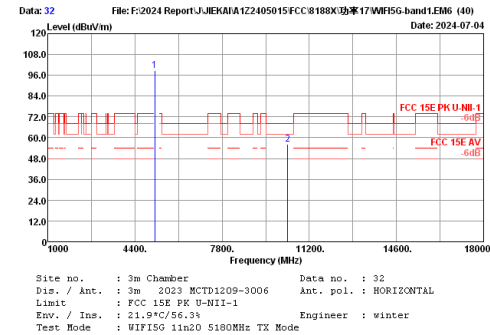
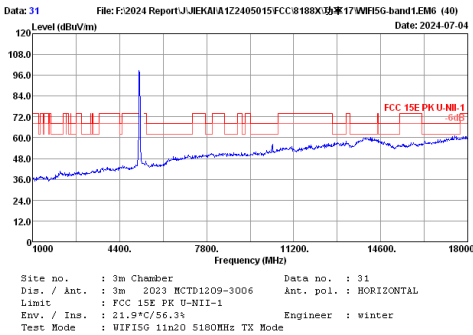
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.50	4.11	88.41	30.63	94.39	68.20	15.07	Peak
2	10360.00	38.36	5.61	40.51	31.35	53.13	68.20	15.07	Peak

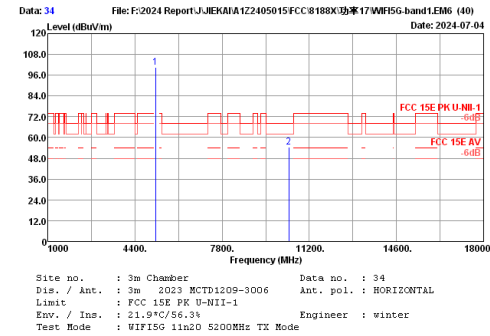
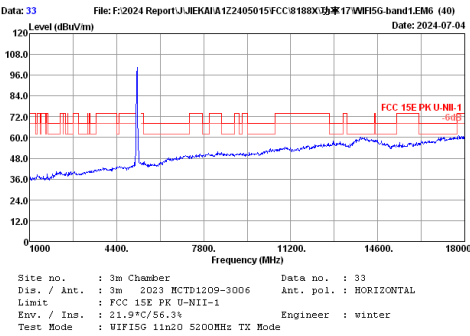
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	32.50	4.11	92.72	30.63	98.70	68.20	12.13	Peak
2	10360.00	38.36	5.61	43.45	31.35	56.07	68.20	12.13	Peak

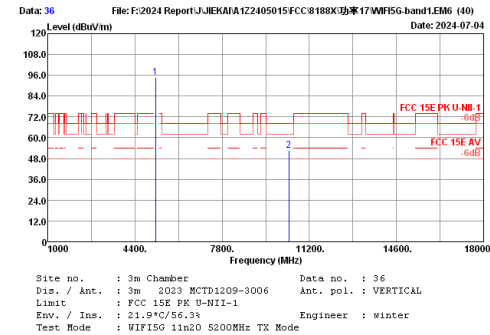
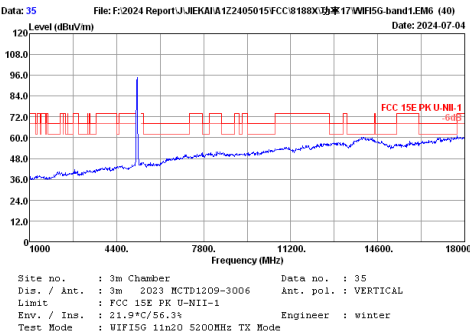
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.50	4.11	94.39	30.66	100.34	-----	-----	Peak
2	10400.00	38.40	5.62	41.91	31.28	54.65	68.20	13.55	Peak

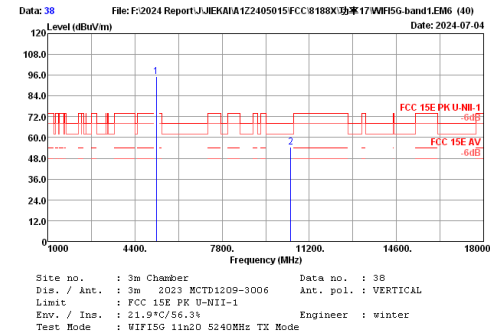
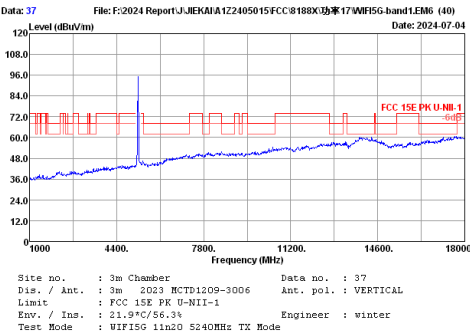
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



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	5200.00	32.50	4.11	88.95	30.66	94.90	-----	-----	Peak
2	10400.00	38.40	5.62	39.91	31.28	52.65	68.20	15.55	Peak

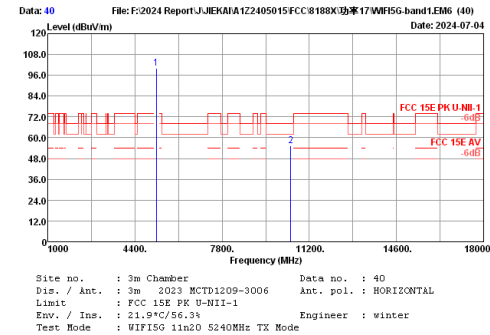
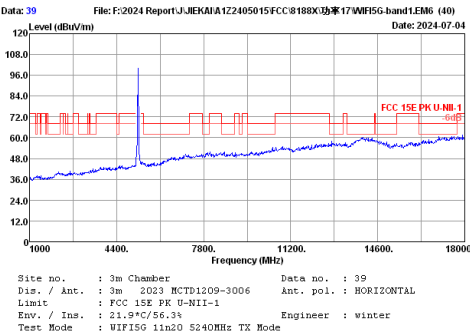
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.66	4.13	89.18	30.71	95.26	-----	-----	Peak
2	10480.00	38.40	5.65	41.38	31.14	54.29	68.20	13.91	Peak

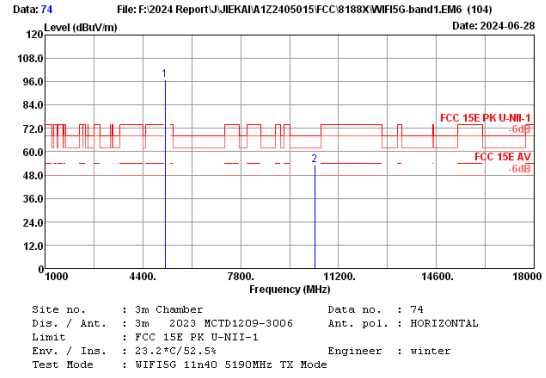
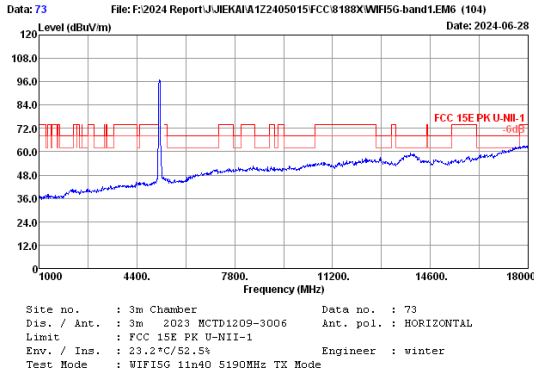
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



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	5240.00	32.66	4.13	93.85	30.71	99.93	-----	-----	Peak
2	10480.00	38.40	5.65	42.46	31.14	55.37	68.20	12.83	Peak

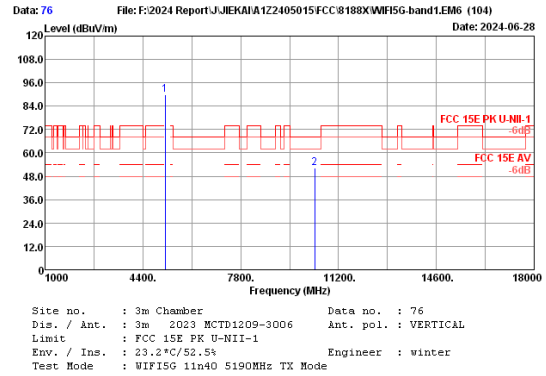
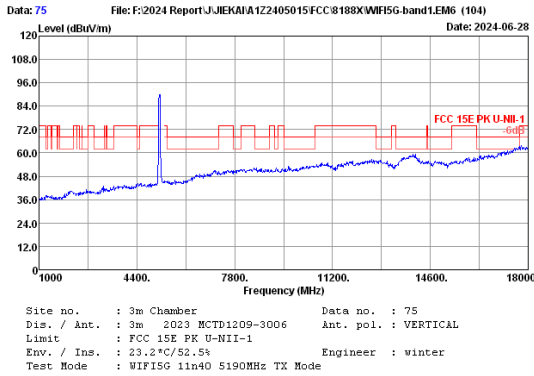
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.50	4.11	90.81	30.63	96.79	68.20	15.09	Peak
2	10380.00	38.38	5.62	40.43	31.32	53.11	68.20	15.09	Peak

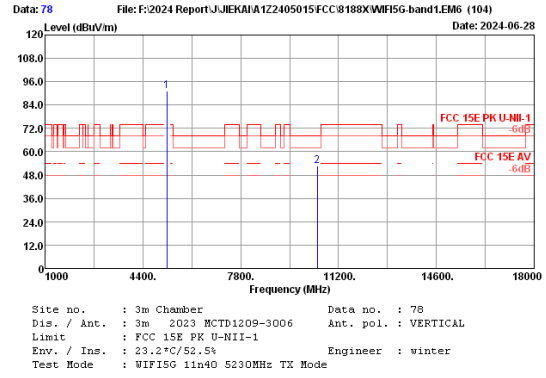
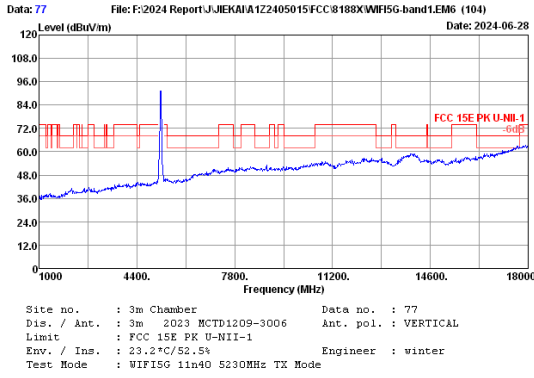
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	32.50	4.11	84.10	30.63	90.08	68.20	16.08	Peak
2	10380.00	38.38	5.62	39.44	31.32	52.12	68.20	16.08	Peak

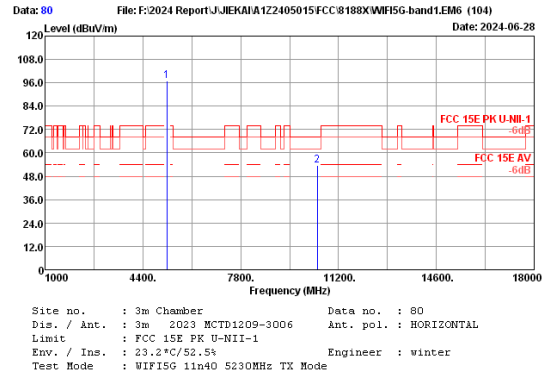
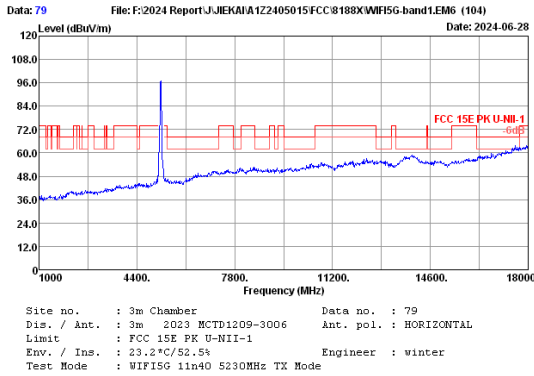
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.66	4.13	85.27	30.71	91.35	68.20	15.42	Peak
2	10460.00	38.40	5.64	39.91	31.17	52.78	68.20	15.42	Peak

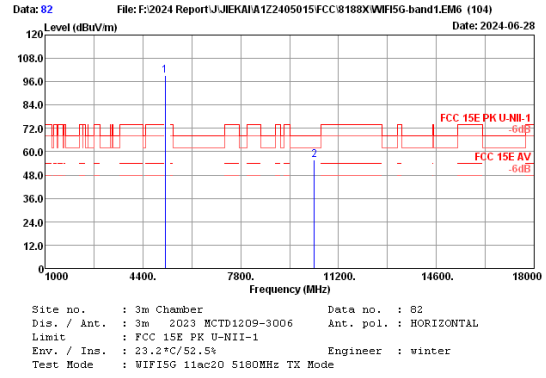
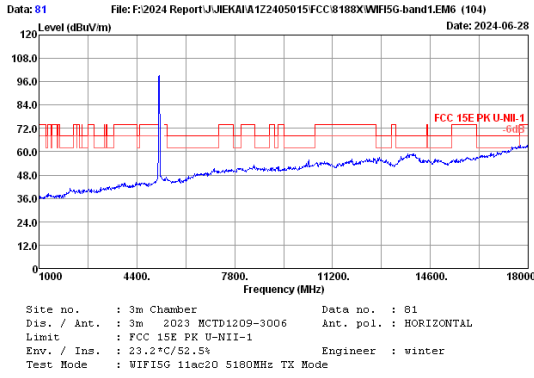
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5240.00	32.66	4.13	90.94	30.71	97.02	68.20	14.79	Peak
2	10460.00	38.40	5.64	40.54	31.17	53.41	68.20	14.79	Peak

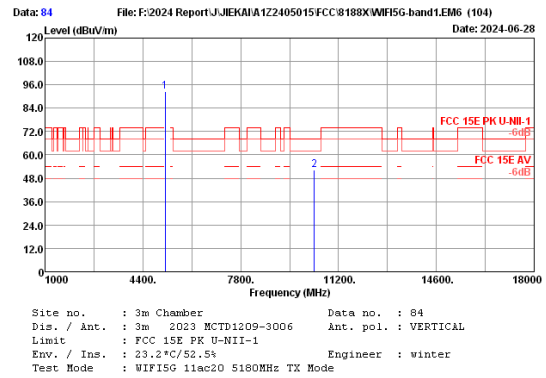
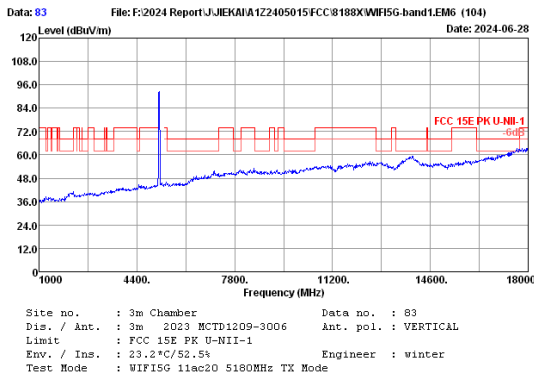
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.50	4.11	93.16	30.63	99.14	68.20	12.47	Peak
2	10360.00	38.36	5.61	43.11	31.35	55.73	68.20	12.47	Peak

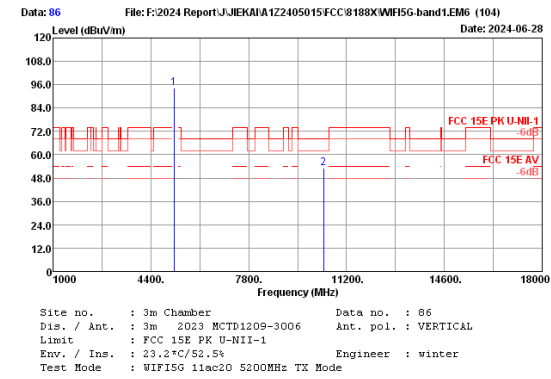
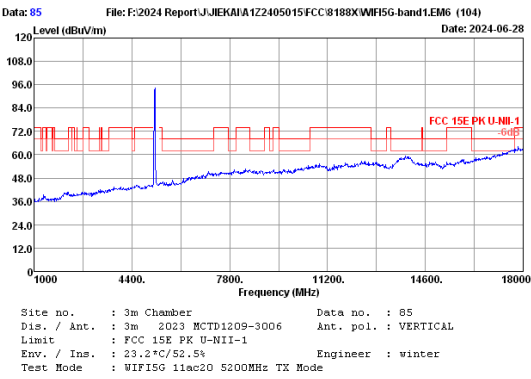
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	32.50	4.11	86.70	30.63	92.68	68.20	15.97	Peak
2	10360.00	38.36	5.61	39.61	31.35	52.23	68.20	15.97	Peak

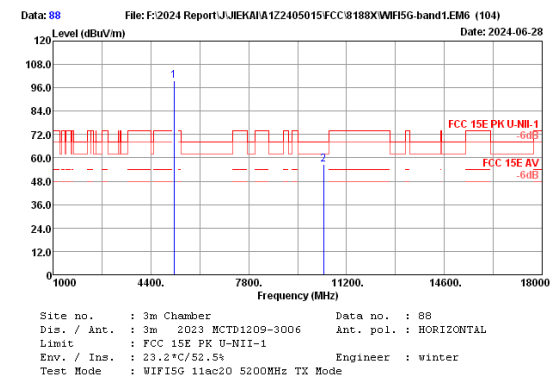
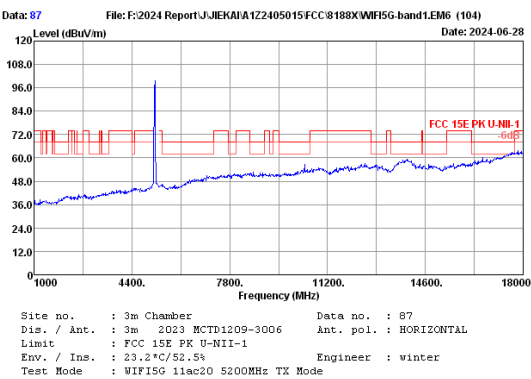
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.50	4.11	88.16	30.66	94.11	68.20	15.23	Peak
2	10400.00	38.40	5.62	40.23	31.28	52.97	68.20	15.23	Peak

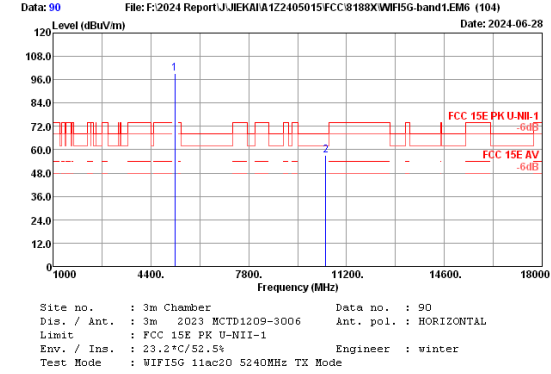
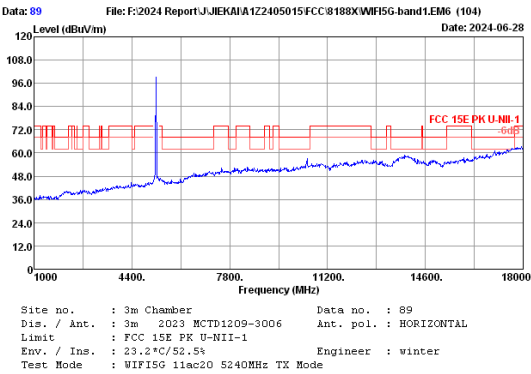
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5200.00	32.50	4.11	93.55	30.66	99.50	68.20	11.42	Peak
2	10400.00	38.40	5.62	44.04	31.28	56.78	68.20	11.42	Peak

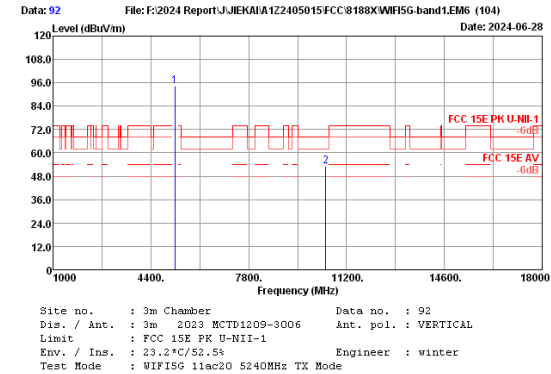
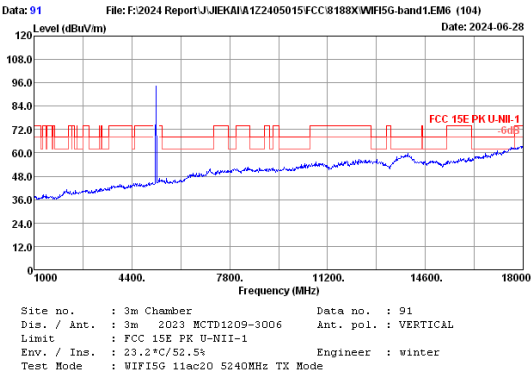
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	32.66	4.13	93.05	30.71	99.13	68.20	11.11	Peak
2	10480.00	38.40	5.65	44.18	31.14	57.09	68.20	11.11	Peak

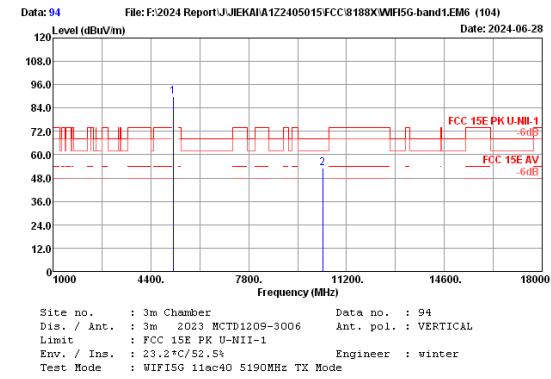
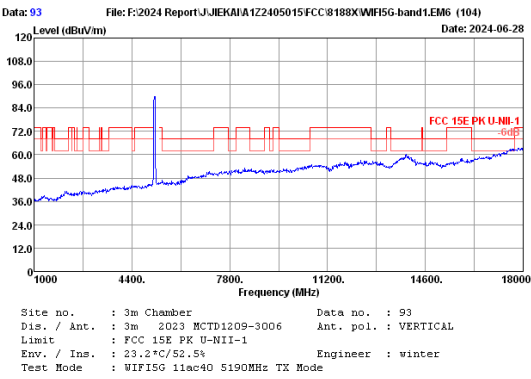
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5240.00	32.66	4.13	88.25	30.71	94.33	68.20	15.27	Peak
2	10480.00	38.40	5.65	40.02	31.14	52.93	68.20	15.27	Peak

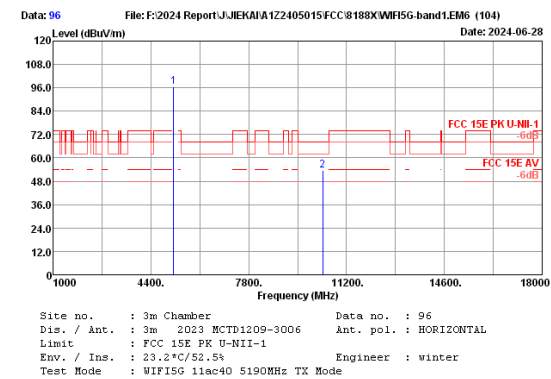
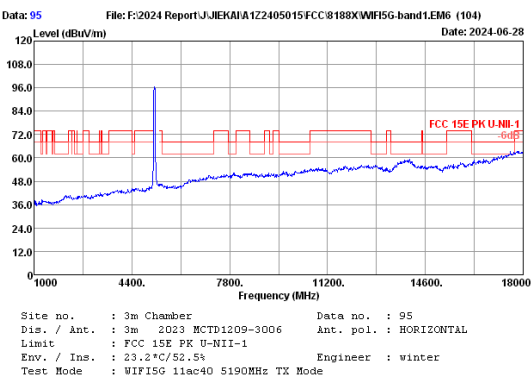
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.50	4.11	83.98	30.63	89.96	68.20	15.09	Peak
2	10380.00	38.38	5.62	40.43	31.32	53.11	68.20	15.09	Peak

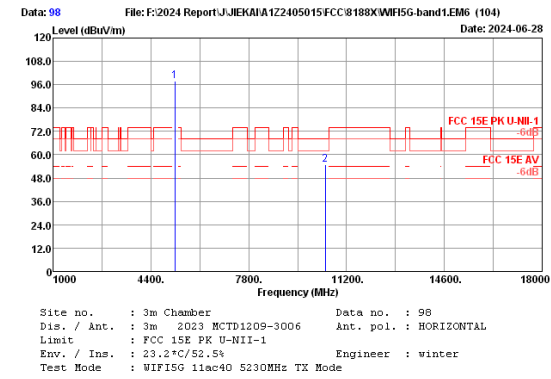
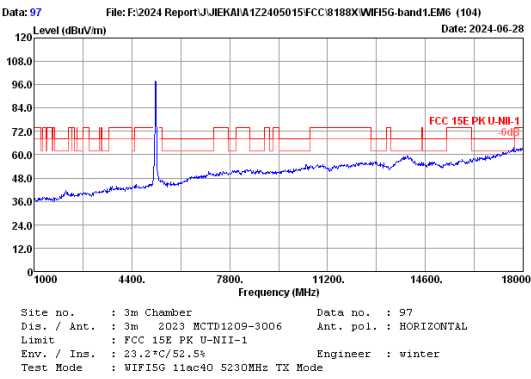
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	32.50	4.11	90.79	30.65	96.75	68.20	14.79	Peak
2	10380.00	38.38	5.62	40.73	31.32	53.41	68.20	14.79	Peak

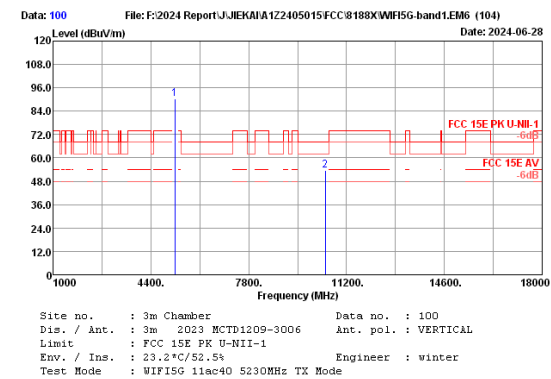
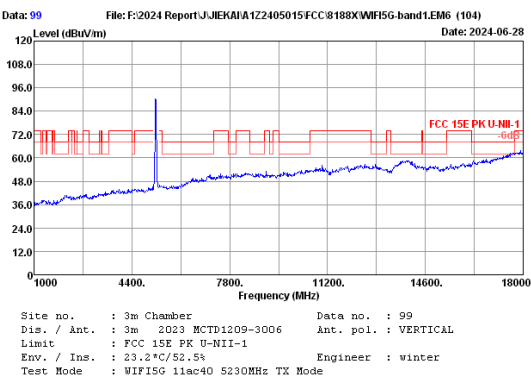
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	32.62	4.13	91.67	30.70	97.72	68.20	13.49	Peak
2	10460.00	38.40	5.64	41.84	31.17	54.71	68.20	13.49	Peak

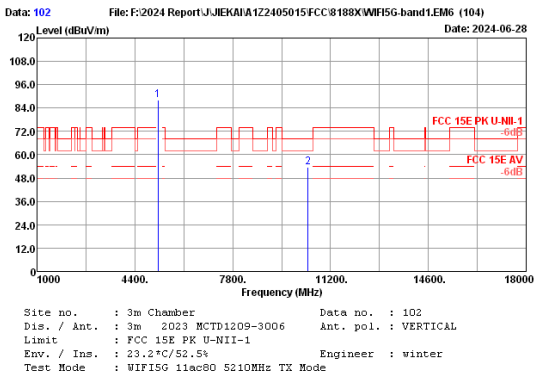
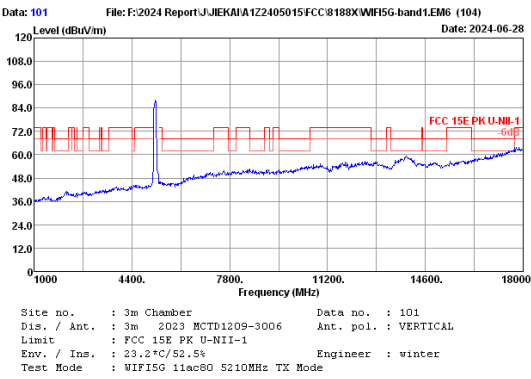
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	32.62	4.13	84.39	30.70	90.44	68.20	14.55	Peak
2	10460.00	38.40	5.64	40.78	31.17	53.65	68.20	14.55	Peak

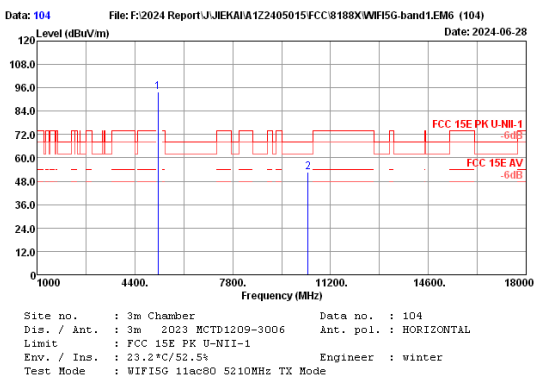
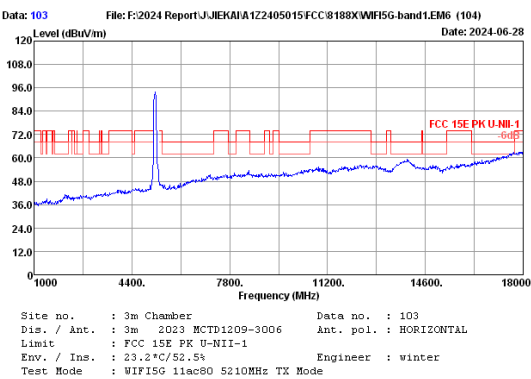
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	5210.00	32.54	4.12	81.98	30.67	87.97	68.20	14.79	Peak
2	10420.00	38.40	5.63	40.62	31.24	53.41	68.20	14.79	Peak

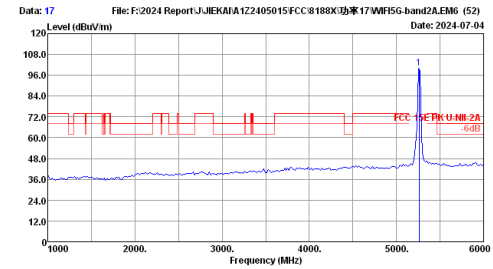
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5210.00	32.54	4.12	87.67	30.67	93.66	68.20	15.29	Peak
2	10420.00	38.40	5.63	40.12	31.24	52.91	68.20	15.29	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.

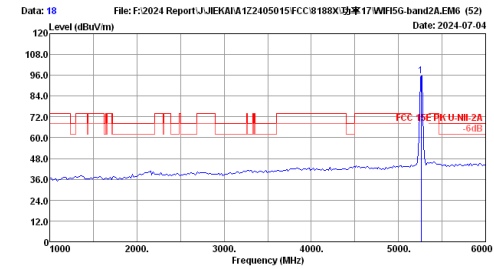
U-NII-2A Band:



Site no. : 3m Chamber Data no. : 17
Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15E PK U-NII-2A
Env. / Ins. : 21.9°C/56.5% Engineer : winter
Test Mode : WiFi5G 11a 5260MHz 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	32.74	4.14	93.84	30.74	99.98			Peak

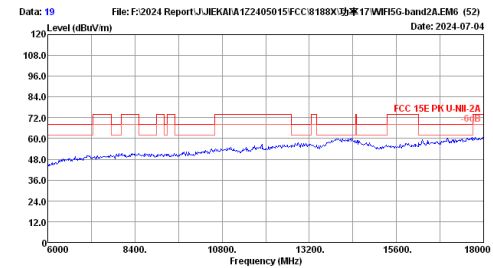
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
Limit : FCC 15E PK U-NII-2A
Env. / Ins. : 21.9°C/56.5% Engineer : winter
Test Mode : WiFi5G 11a 5260MHz 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	32.74	4.14	89.47	30.74	95.61			Peak

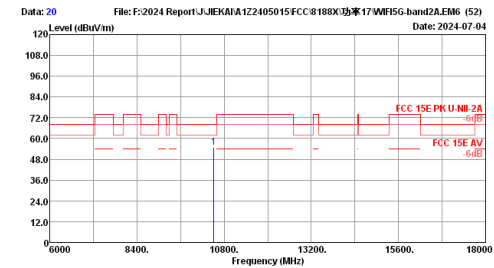
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15E PK U-NII-2A
Env. / Ins. : 21.9°C/56.5% Engineer : winter
Test Mode : WiFi5G 11a 5260MHz 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	10520.00	38.38	5.66	41.93	31.06	54.91	68.20	13.29	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.

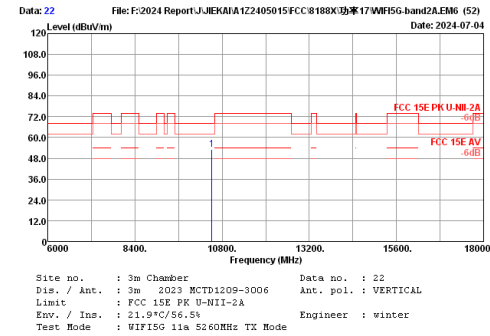
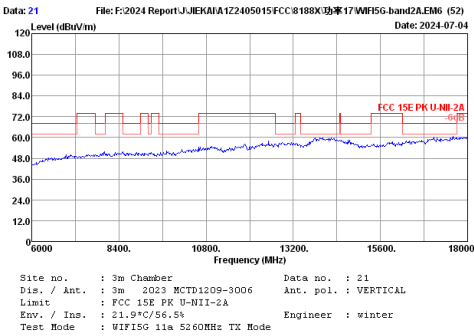


Site no. : 3m Chamber Data no. : 20
Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
Limit : FCC 15E PK U-NII-2A
Env. / Ins. : 21.9°C/56.5% Engineer : winter
Test Mode : WiFi5G 11a 5260MHz TX Mode

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	10520.00	38.38	5.66	41.93	31.06	54.91	68.20	13.29	Peak

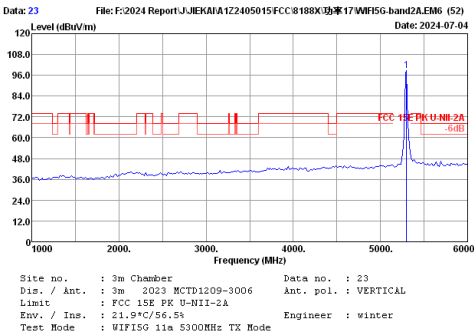
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



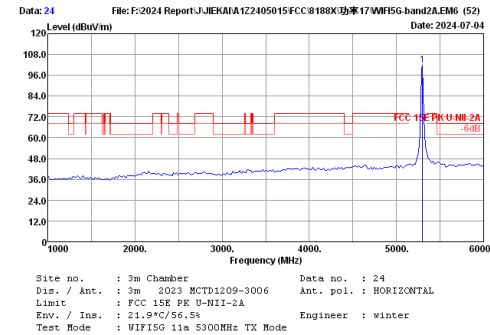
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Antenna factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10520.00	38.38	5.66	39.94	31.06	52.92	68.20	15.28	Peak

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)	Antenna factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.00	32.90	4.16	92.65	30.79	98.92	-----	-----	Peak

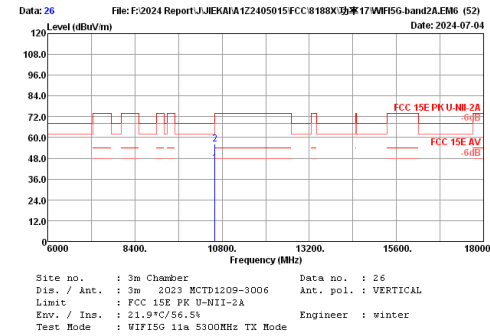
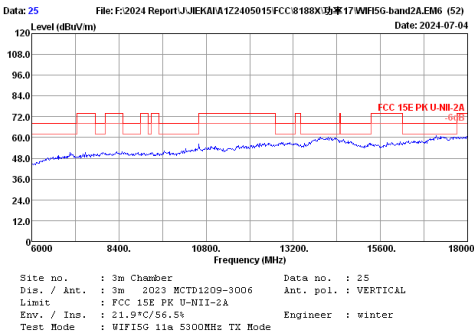
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Ant factor.
2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Antenna factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5300.00	32.90	4.16	95.37	30.79	101.64	-----	-----	Peak

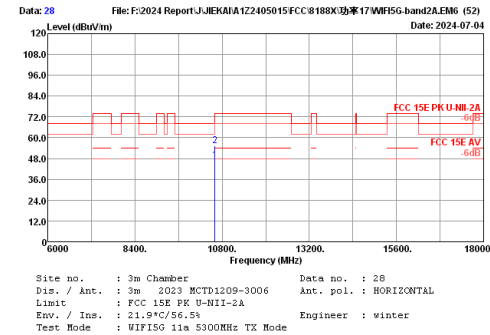
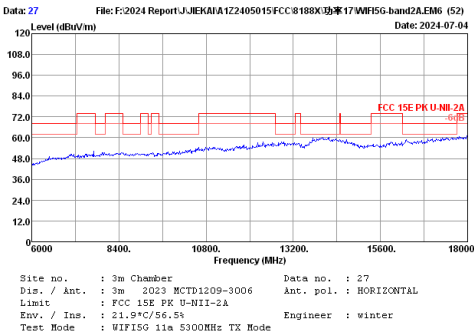
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Ant factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCB225



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	10600.00	38.30	5.69	32.11	30.92	45.18	54.00	8.82	Average
2	10600.00	38.30	5.69	43.07	30.92	56.14	68.20	12.06	Peak

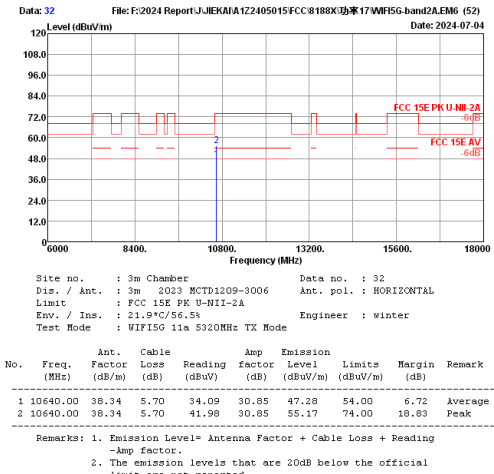
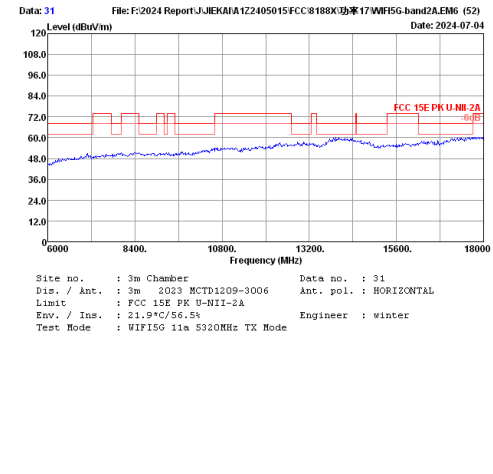
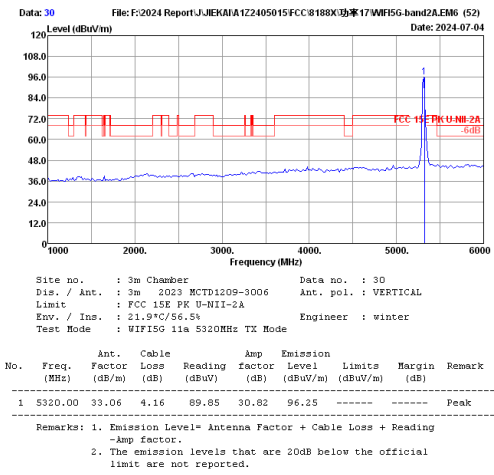
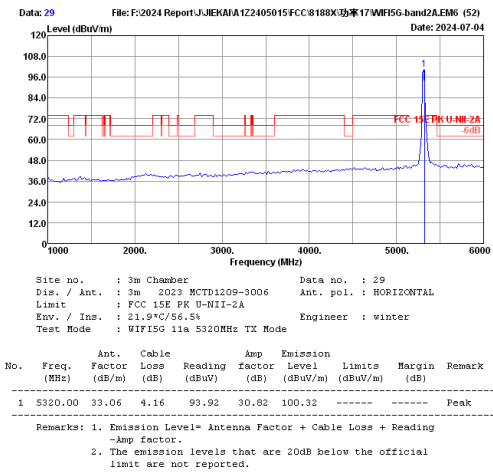
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



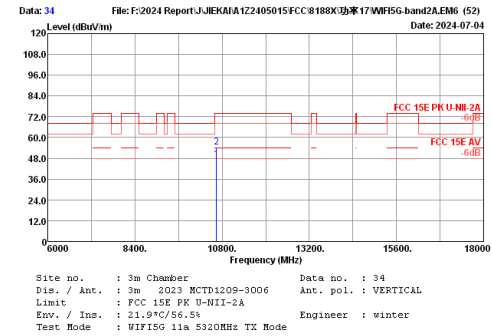
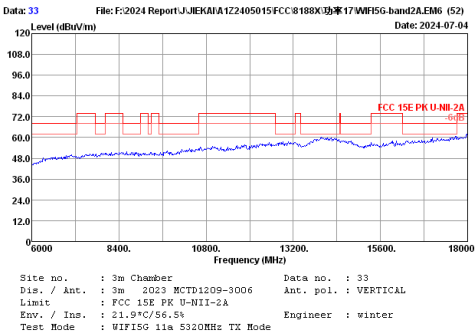
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10600.00	38.30	5.69	34.01	30.92	47.08	54.00	6.92	Average
2	10600.00	38.30	5.69	42.27	30.92	55.34	68.20	12.86	Peak

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.

FCC ID: 2ACCJB225

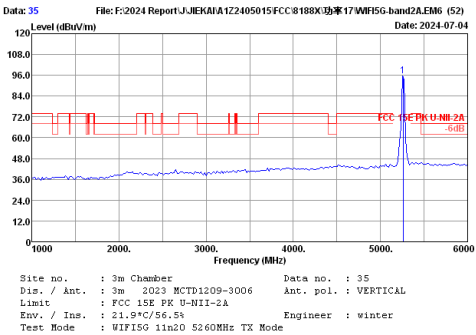


FCC ID: 2ACCJB225



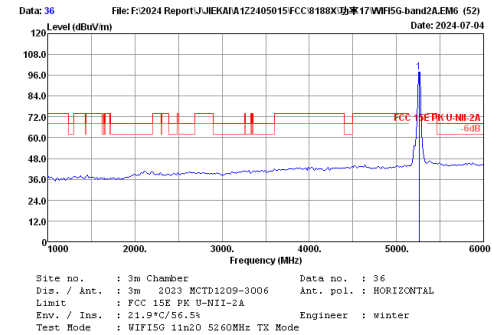
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10640.00	38.34	5.70	34.05	30.85	47.24	54.00	6.76	Average
2	10640.00	38.34	5.70	41.41	30.85	54.60	74.00	19.40	Peak

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	5260.00	32.74	4.14	89.54	30.74	95.68	-----	-----	Peak

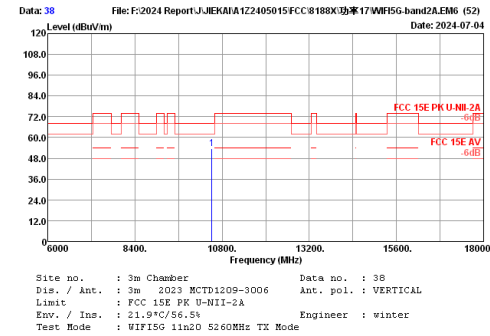
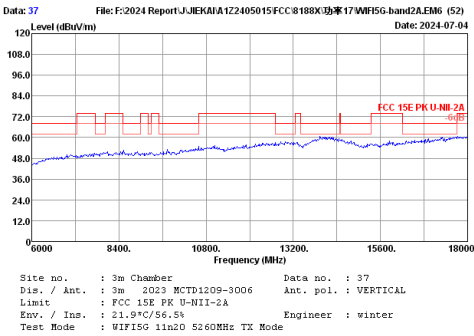
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	5260.00	32.74	4.14	91.77	30.74	97.91	-----	-----	Peak

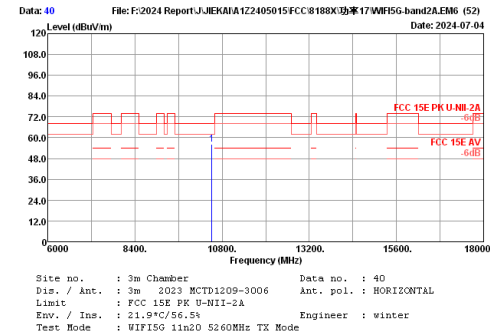
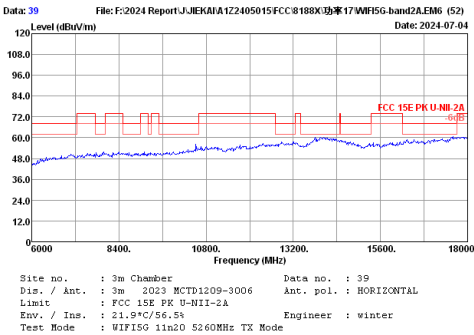
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	10520.00	38.38	5.66	40.62	31.06	53.60	68.20	14.60	Peak

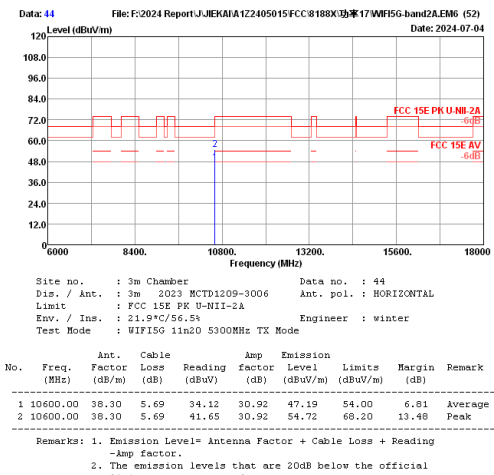
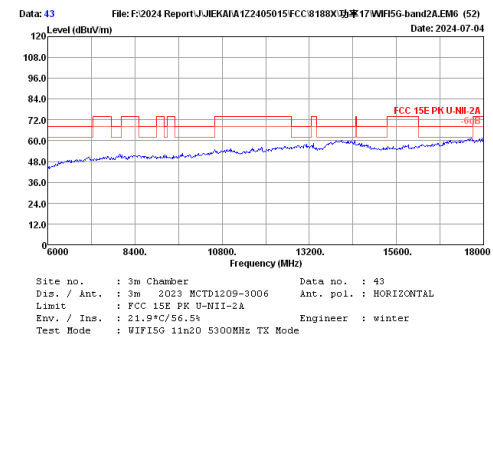
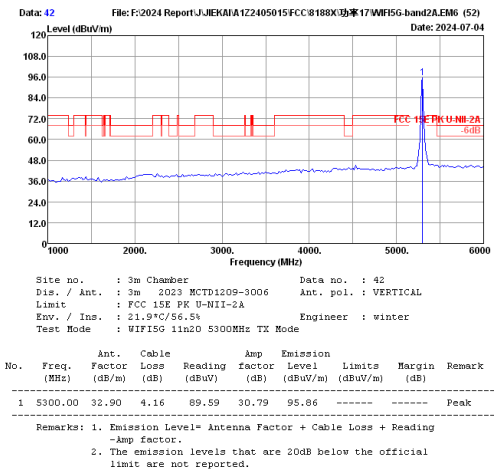
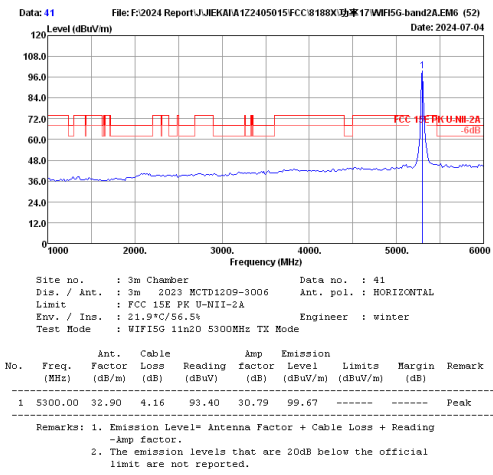
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



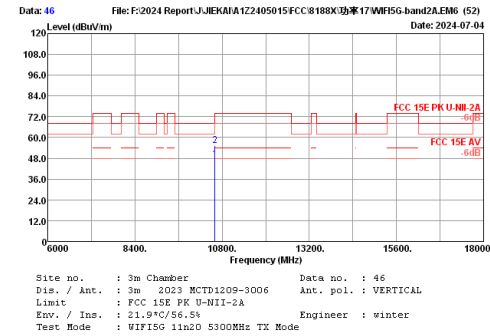
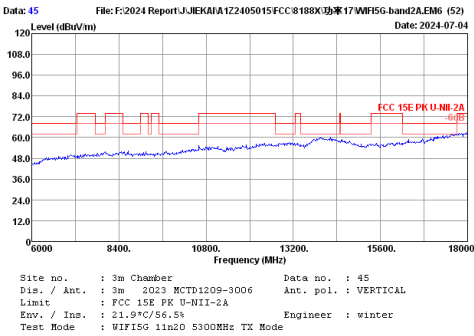
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10520.00	38.38	5.66	43.28	31.06	56.26	68.20	11.94	Peak

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.

FCC ID: 2ACCJB225

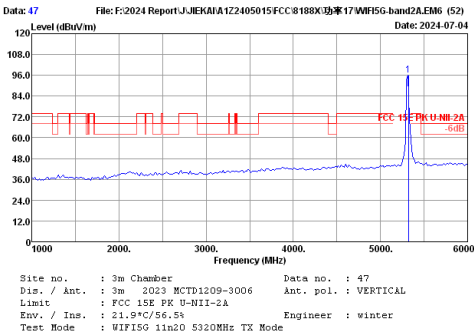


FCC ID: 2ACCJB225



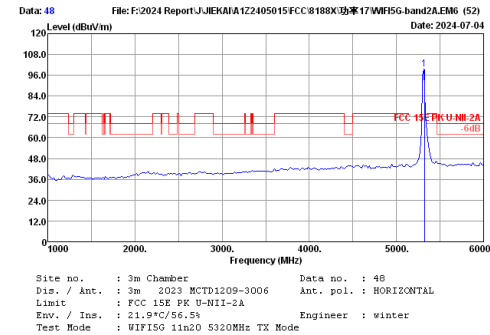
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10600.00	38.30	5.69	34.25	30.92	47.32	54.00	6.68	Average
2	10600.00	38.30	5.69	42.07	30.92	55.14	58.20	13.06	Peak

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	5320.00	33.06	4.16	89.79	30.82	96.19	-----	-----	Peak

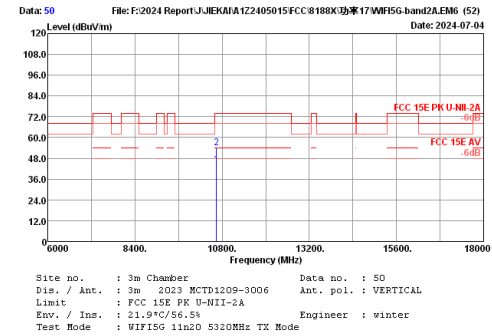
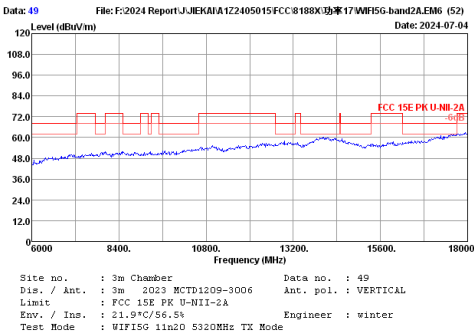
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.



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	5320.00	33.06	4.16	93.08	30.82	99.48	-----	-----	Peak

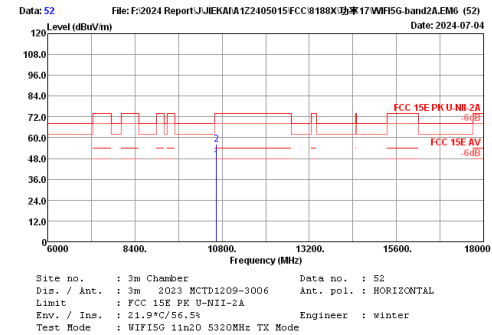
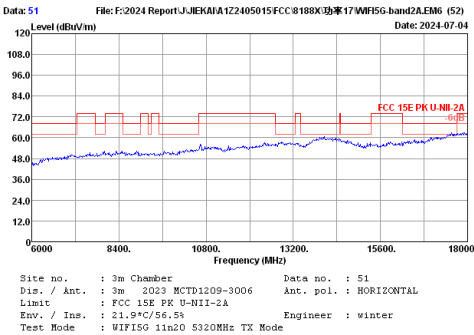
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp factor.
2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



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	10640.00	38.34	5.70	31.22	30.85	44.41	54.00	9.59	Average
2	10640.00	38.34	5.70	40.69	30.85	53.88	74.00	20.12	Peak

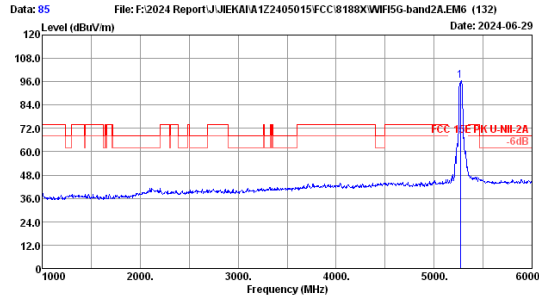
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



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	10640.00	38.34	5.70	34.15	30.85	47.34	54.00	6.66	Average
2	10640.00	38.34	5.70	42.03	30.85	56.02	74.00	17.98	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.

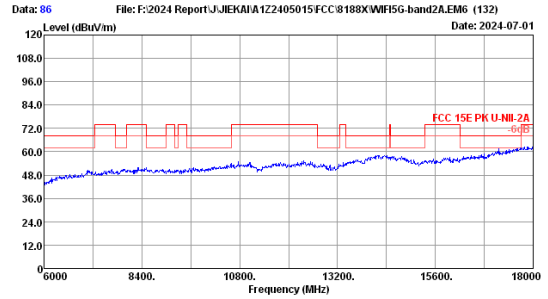
FCC ID: 2ACCJB225



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-2A
 Env. / Ins. : 23.2°C/52.5% Engineer : winter
 Test Mode : WIFI5G 11n40 5270MHz 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	5270.00	32.78	4.14	90.20	30.75	96.37	-----	-----	Peak

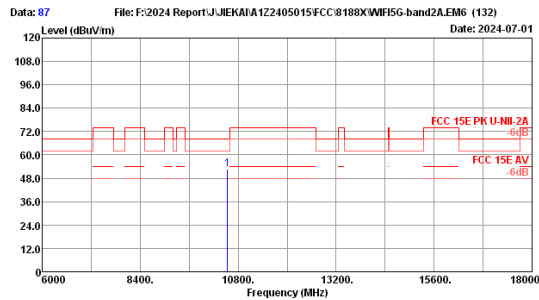
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-2A
 Env. / Ins. : 23.2°C/52.5% Engineer : winter
 Test Mode : WIFI5G 11n40 5270MHz 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	5270.00	32.78	4.14	90.20	30.75	96.37	-----	-----	Peak

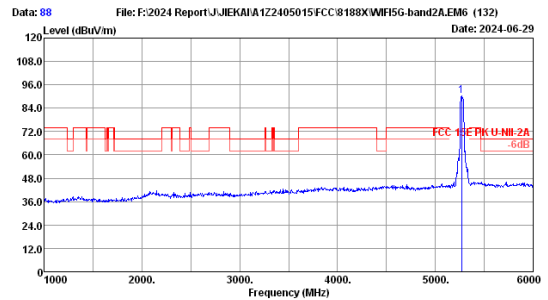
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 87
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC 15E PK U-NII-2A
 Env. / Ins. : 23.2°C/52.5% Engineer : winter
 Test Mode : WIFI5G 11n40 5270MHz 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	10540.00	38.36	5.67	39.56	31.03	52.56	68.20	15.64	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.

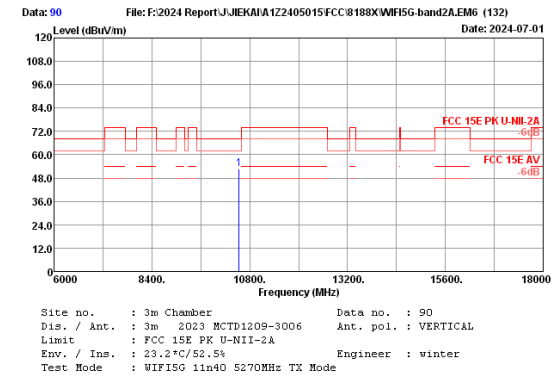
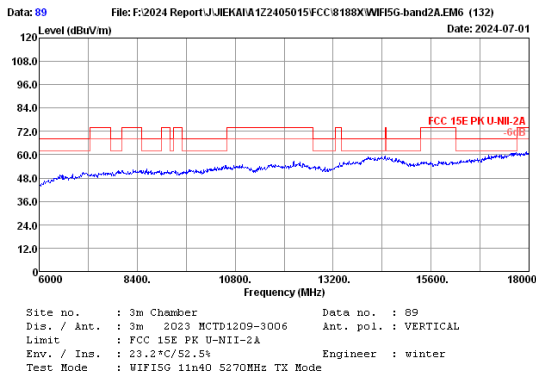


Site no. : 3m Chamber Data no. : 88
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC 15E PK U-NII-2A
 Env. / Ins. : 23.2°C/52.5% Engineer : winter
 Test Mode : WIFI5G 11n40 5270MHz TX Mode

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	5270.00	32.78	4.14	84.15	30.75	90.32	-----	-----	Peak

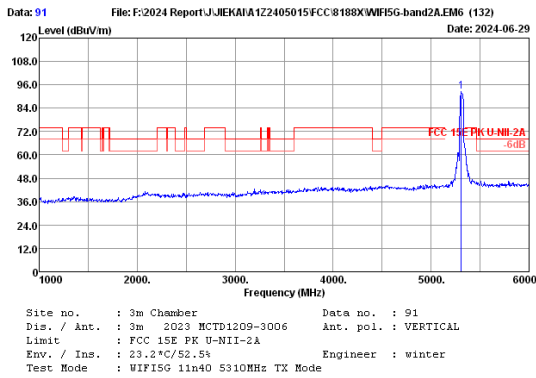
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

FCC ID: 2ACCJB225



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading factor (dB)	Amp Level (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10540.00	38.36	5.67	39.85	31.03	52.85	68.20	15.35	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 (dB)	Amp Level (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5310.00	32.98	4.16	86.02	30.80	92.36	-----	-----	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.

