

FCC RADIO TEST REPORT

FCC ID: 2AU9S-X4C-US19

Product: AILA Sit & Play™

Trade Mark: Animal Island Learning Adventure™

Model No.: X4C-US19

Family Model: X4C-01-01, X4C-01-01B, X4C-01-01G,
X4C-01-01P

Report No.: S19112504703001

Issue Date: 23 Dec. 2019

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name : DMAI (Guangzhou) Co, Ltd.

Address : 16/F, No.37, Jinlong Road, Nansha District, Guangzhou City, China.

Manufacturer's Name : Hunan Yuning Electronic Co.,Ltd

Address : (the new western industrial town)Baota community, Tongshan street, NingYuan County, Hunan province,China

Product description AILA Sit & Play™

Product name : AILA Sit & Play™

Model and/or type reference : X4C-US19

Family Model..... : X4C-01-01, X4C-01-01B, X4C-01-01G, X4C-01-01P

Standards : FCC Part15.407

Test procedure ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements.. And it is applicable only to the tested sample identified in the report.

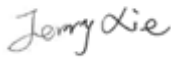
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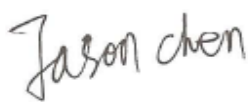
Date of Test

Date (s) of performance of tests 25 Nov. 2019 ~ 23 Dec, 2019

Date of Issue..... 23 Dec, 2019

Test Result..... **Pass**

Testing Engineer : 
(Jerry Xie)

Technical Manager : 
(Jason Chen)

Authorized Signatory : 
(Sam Chen)

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Revision History

[illegible]

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407 (b)(6)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) This device operates with a duty cycle greater than 99%

1.1 FACILITIES AND ACCREDITATIONS**FACILITIES**

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen
518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and
CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS**Site Description**

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized
International Standard ISO/IEC 17025:2005 General requirements for the
competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined
scope and the operation of a laboratory quality management system
(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,
Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^\circ\text{C}$
8	Humidity	$\pm 2\%$

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	AILA Sit & Play™	
Trade Mark	Animal Island Learning Adventure™	
Model Name	X4C-US19	
Family Model	X4C-01-01, X4C-01-01B, X4C-01-01G, X4C-01-01P	
Model Difference	All models are the same circuit and RF module, except the model name and colours.	
FCC ID	2AU9S-X4C-US19	
Product Description	Mode Supported	☒ 802.11a ☒ 802.11n(HT20) ☒ 802.11n(HT40) ☒ 802.11ac(HT20) ☒ 802.11ac(HT40) ☒ 802.11ac(HT80)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Type	Antenna : PCB Print Antenna
	Antenna Gain	Antenna : 2dBi
	Smart system	☒ SISO for 802.11a ☒ MIMO for 802.11n/ac
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Ratings	DC 3.7V from Battery or DC 5V from Adapter	
Adapter	☒ Adapter supply: Model: FX2U-050200U Input: 100-240V AC~50/60Hz 0.4A Max Output: 5V---2A	
Battery	DC 3.7V	
Connecting I/O Port(s)	Please refer to the User's Manual	
HW Version	6222B-SRC C07022	
SW Version	v5.7.3_33726.20190522_COEX20190403-0c0c	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-2C	100	5500 MHz	102	5510 MHz	106	5530 MHz
	104	5520 MHz	110	5550 MHz	122	5610 MHz
	108	5540 MHz	118	5590 MHz		
	112	5560 MHz	126	5630 MHz		
	116	5580 MHz	134	5670 MHz		
	120	5600 MHz				
	124	5620 MHz				
	128	5640 MHz				
	132	5660 MHz				
	140	5700 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

1.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 4	802.11 ac80 CH 42/CH 155

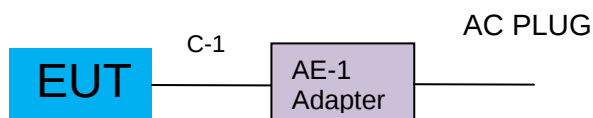
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 4	802.11 ac80 CH 42/CH 155

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

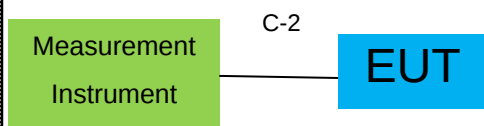
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

1. EUT built-in battery-powered, the battery is fully-charged.

1.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	FX2U-050200U	N/A	-

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	RF Cable	YES	NO	0.1m	C-1

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2019.08.28	2020.08.27	1 year
4	Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2019.04.15	2020.04.14	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2018.12.11	2019.12.10	1 year
9	Amplifier	EMC	EMC051835SE	980246	2019.08.06	2020.08.05	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2018.12.11	2019.12.10	1 year
11	Power Meter	DARE	RPR3006W	15100041SN084	2019.08.06	2020.08.05	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
18	MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2019.03.28	2020.03.27	1 year

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

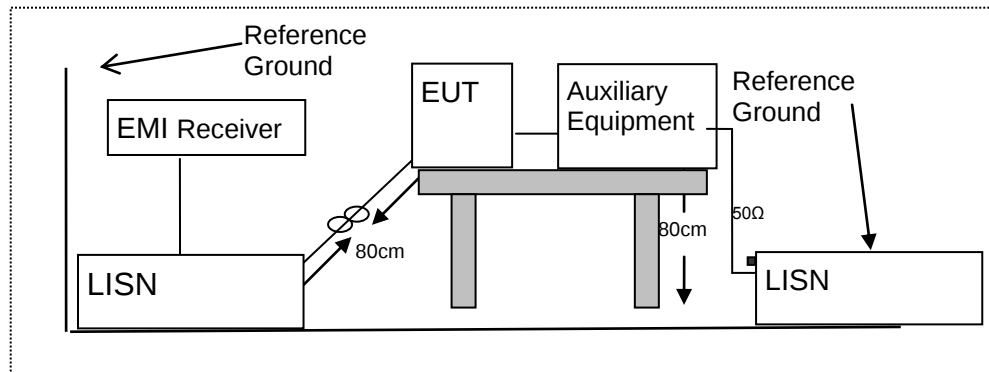
According to FCC Part 15.207(a)

2.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
 2. The lower limit shall apply at the transition frequencies
 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

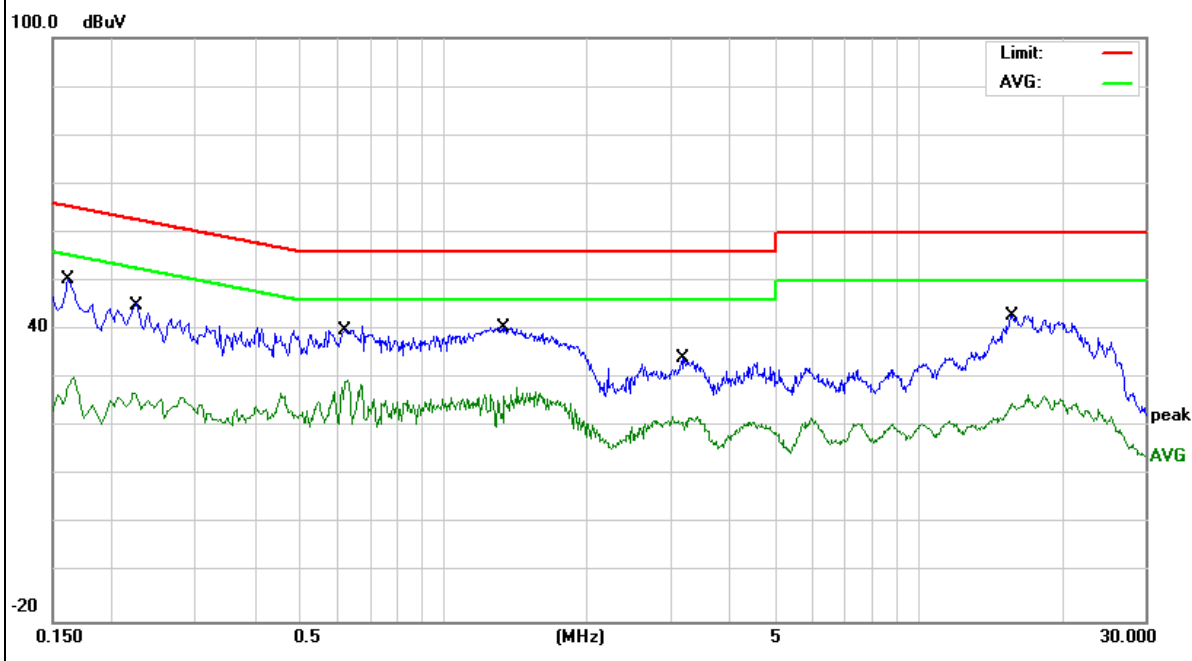
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	40.70	9.76	50.46	65.36	-14.90	QP
0.1620	20.59	9.76	30.35	55.36	-25.01	AVG
0.2220	35.90	9.76	45.66	62.74	-17.08	QP
0.2220	17.31	9.76	27.07	52.74	-25.67	AVG
0.6300	30.22	9.74	39.96	56.00	-16.04	QP
0.6300	19.87	9.74	29.61	46.00	-16.39	AVG
1.3420	30.84	9.75	40.59	56.00	-15.41	QP
1.3420	18.40	9.75	28.15	46.00	-17.85	AVG
3.1899	24.20	9.83	34.03	56.00	-21.97	QP
3.1899	12.21	9.83	22.04	46.00	-23.96	AVG
15.7898	32.85	10.12	42.97	60.00	-17.03	QP
15.7898	14.78	10.12	24.90	50.00	-25.10	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

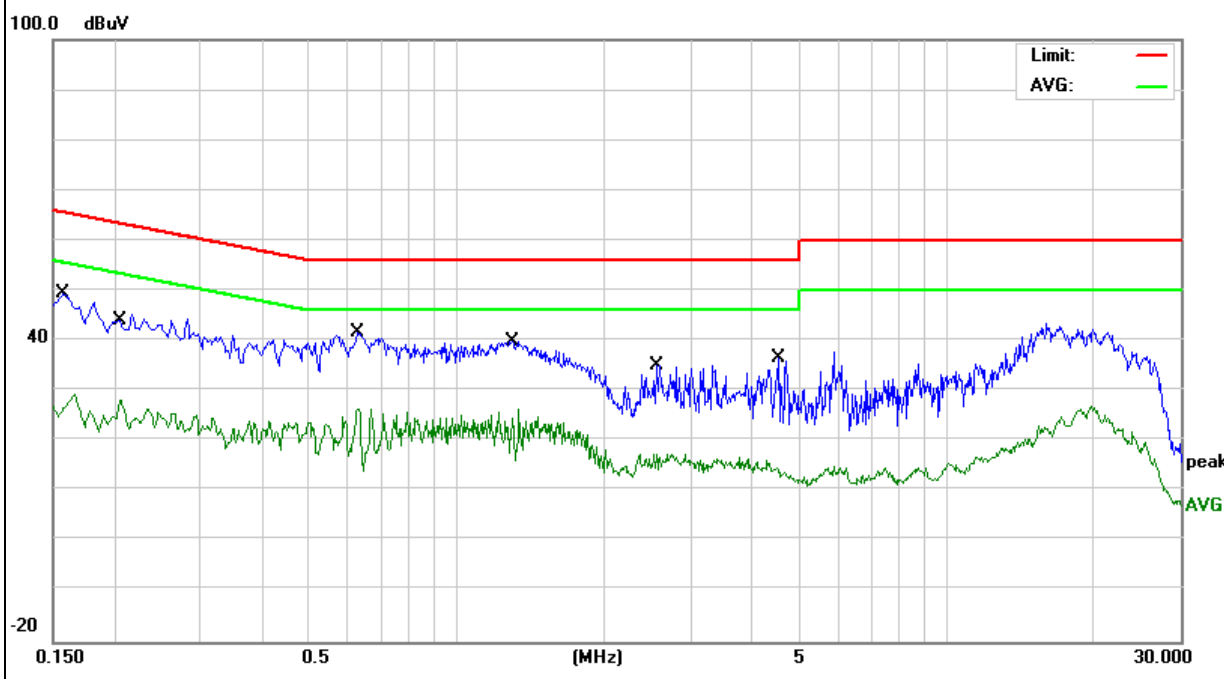


EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	39.71	9.74	49.45	65.56	-16.11	QP
0.1580	19.66	9.74	29.40	55.56	-26.16	AVG
0.2059	35.56	9.73	45.29	63.37	-18.08	QP
0.2059	18.53	9.73	28.26	53.37	-25.11	AVG
0.6300	31.92	9.75	41.67	56.00	-14.33	QP
0.6300	16.68	9.75	26.43	46.00	-19.57	AVG
1.3020	30.23	9.76	39.99	56.00	-16.01	QP
1.3020	16.57	9.76	26.33	46.00	-19.67	AVG
2.5659	25.24	9.83	35.07	56.00	-20.93	QP
2.5659	7.58	9.83	17.41	46.00	-28.59	AVG
4.5058	26.74	9.93	36.67	56.00	-19.33	QP
4.5058	4.60	9.93	14.53	46.00	-31.47	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	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)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

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

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

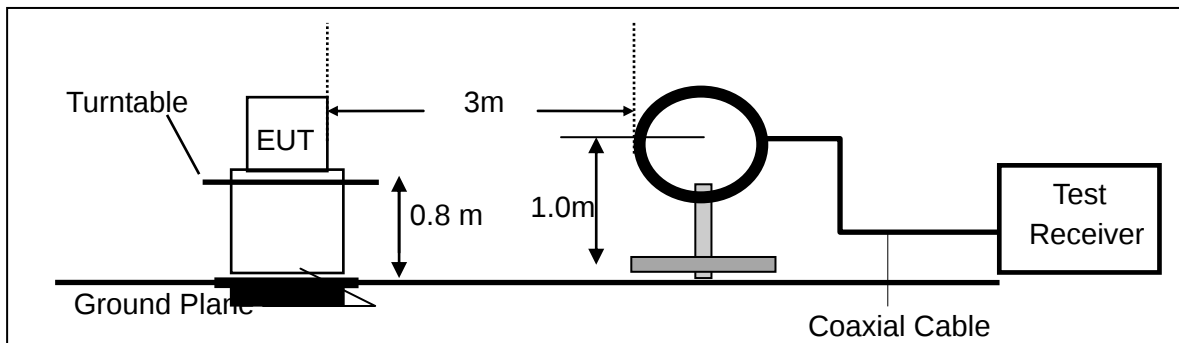
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.2.3 MEASURING INSTRUMENTS

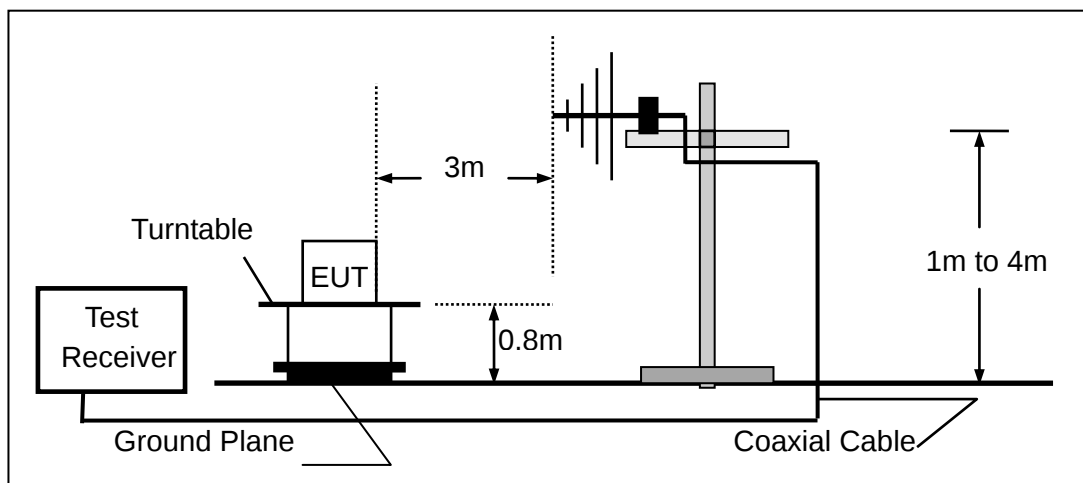
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

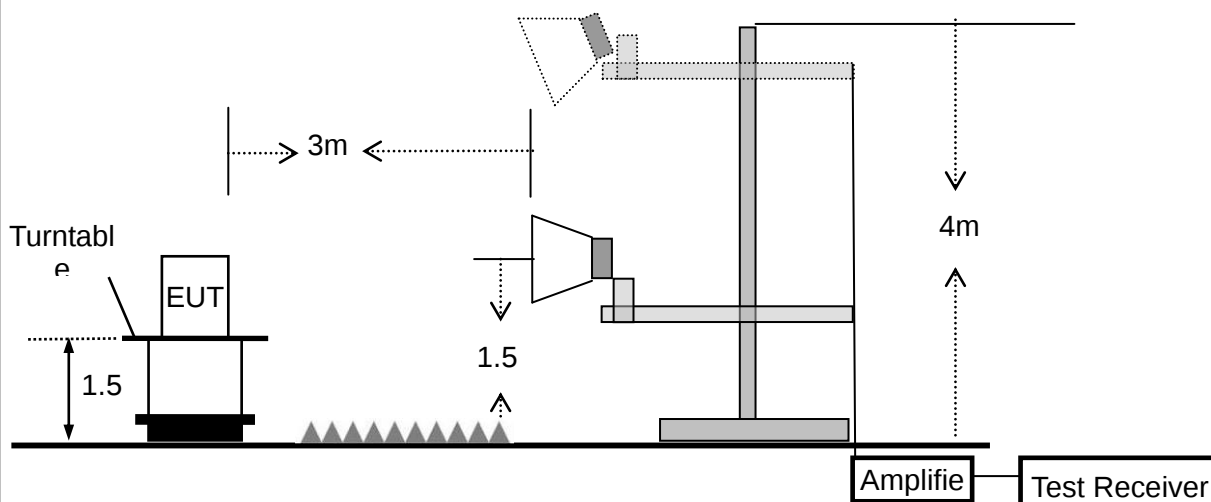
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



2.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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

Note:

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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

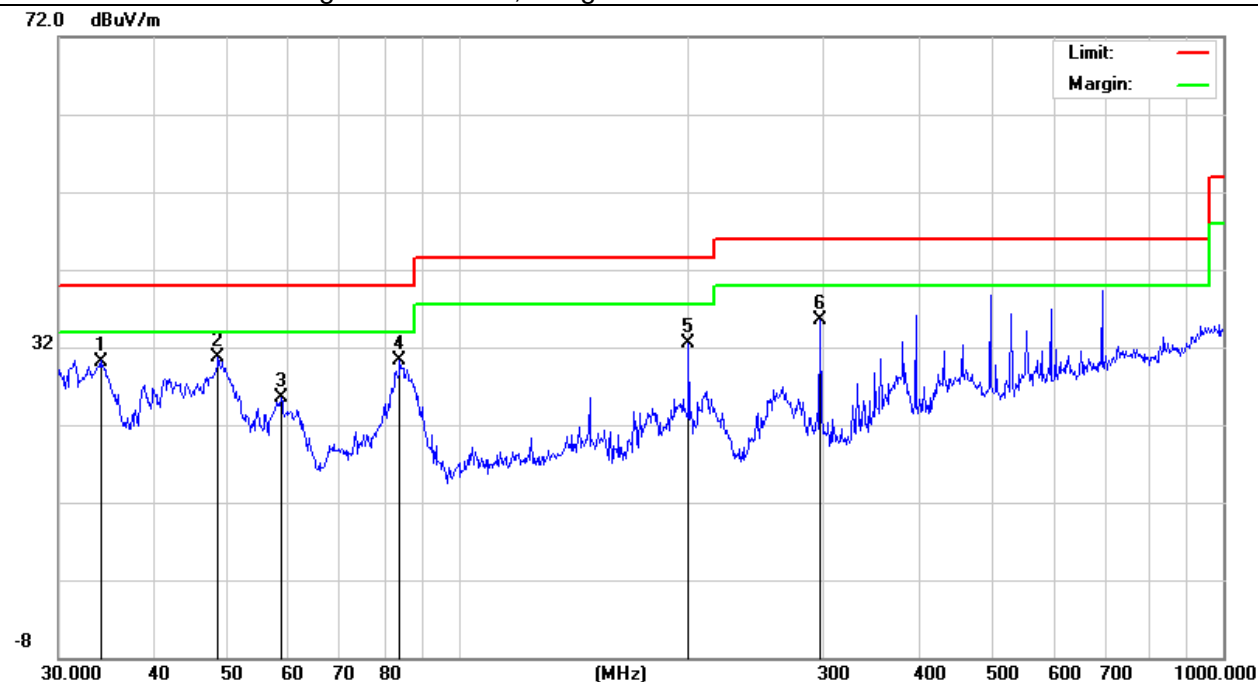
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.2G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	34.0363	13.50	16.70	30.20	40.00	-9.80	QP
V	48.5016	20.27	10.38	30.65	40.00	-9.35	QP
V	58.6126	19.27	6.18	25.45	40.00	-14.55	QP
V	83.8156	21.61	8.63	30.24	40.00	-9.76	QP
V	199.9856	24.04	8.55	32.59	43.50	-10.91	QP
V	297.2241	21.26	14.32	35.58	46.00	-10.42	QP

Remark:

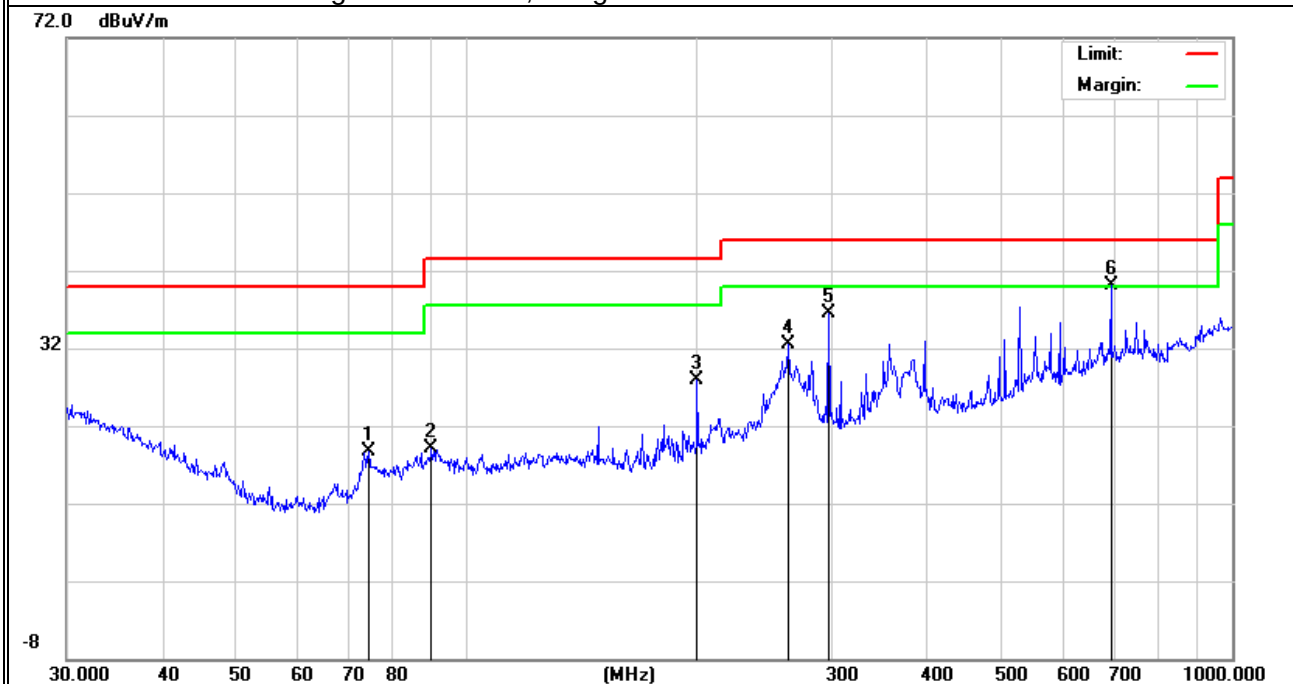
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	85.8983	19.97	9.32	29.29	40.00	-10.71	QP
H	130.8369	18.61	12.55	31.16	43.50	-12.34	QP
H	148.4410	19.83	11.90	31.73	43.50	-11.77	QP
H	222.9499	21.80	10.74	32.54	46.00	-13.46	QP
H	463.9696	12.35	18.88	31.23	46.00	-14.77	QP
H	595.1326	11.24	21.48	32.72	46.00	-13.28	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

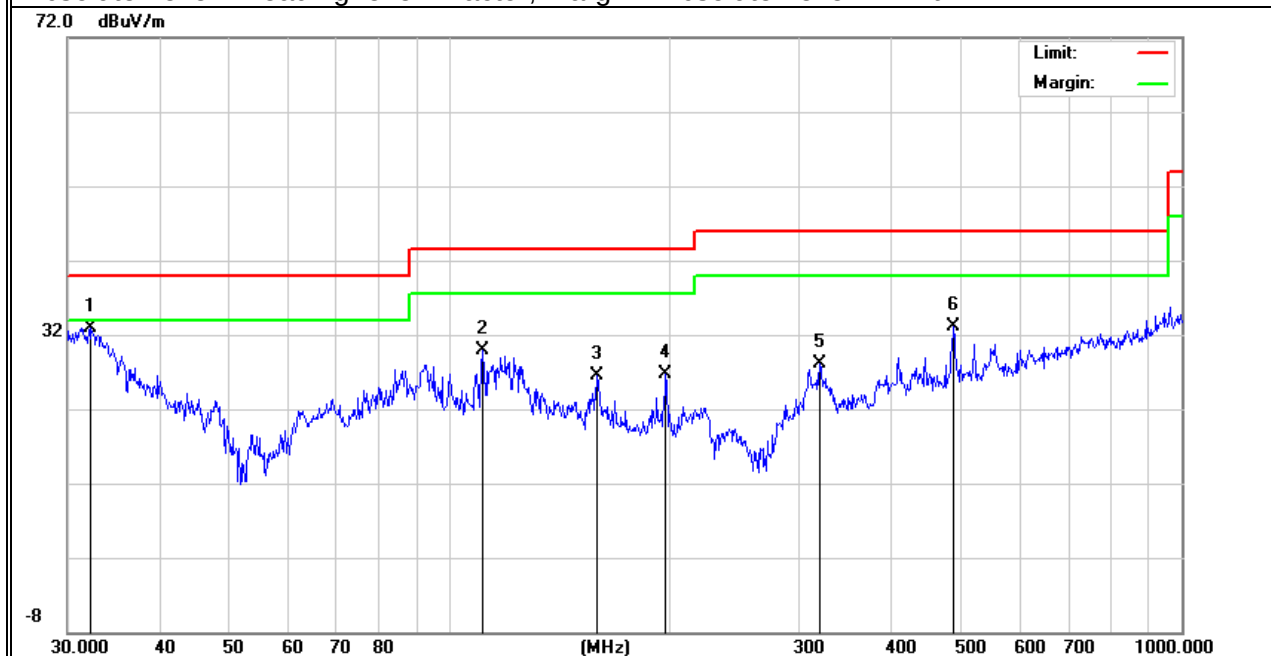


EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.3G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.2924	15.17	17.68	32.85	40.00	-7.15	QP
V	110.9569	18.15	11.67	29.82	43.50	-13.68	QP
V	158.6673	15.49	10.96	26.45	43.50	-17.05	QP
V	197.1999	18.14	8.58	26.72	43.50	-16.78	QP
V	319.9370	13.13	14.97	28.10	46.00	-17.90	QP
V	487.3149	13.54	19.60	33.14	46.00	-12.86	QP

Remark:

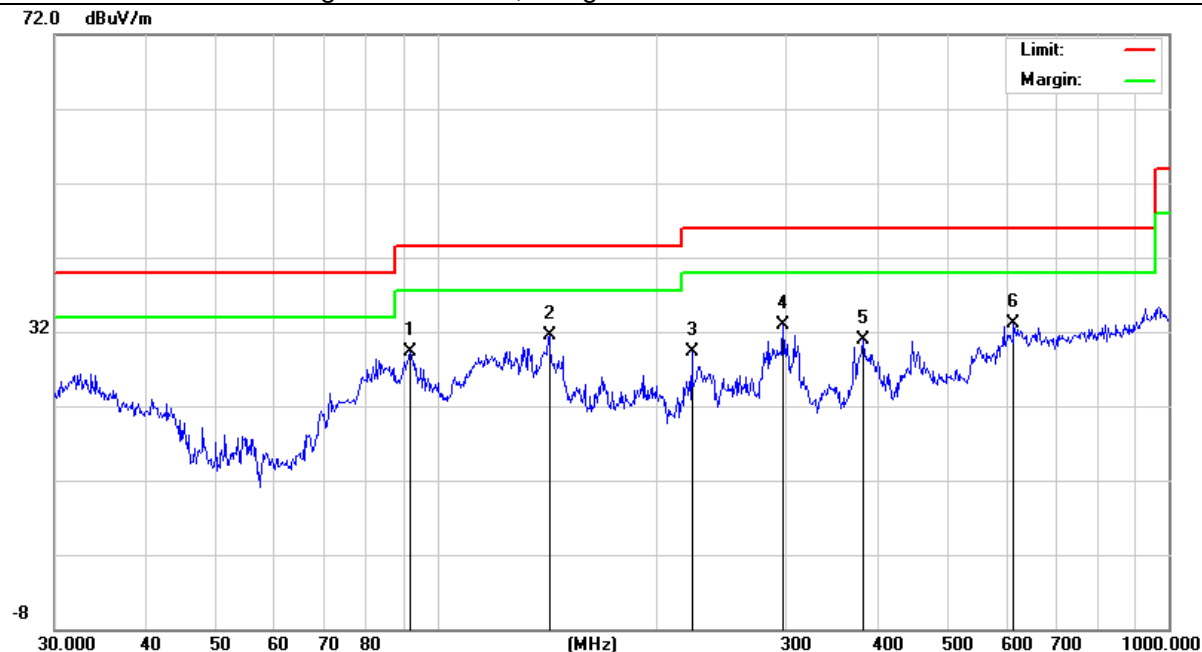
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	91.8161	19.29	10.05	29.34	43.50	-14.16	QP
H	142.3240	19.14	12.27	31.41	43.50	-12.09	QP
H	222.9499	18.60	10.74	29.34	46.00	-16.66	QP
H	297.2241	18.64	14.32	32.96	46.00	-13.04	QP
H	382.5878	13.92	17.02	30.94	46.00	-15.06	QP
H	614.2142	10.75	22.38	33.13	46.00	-12.87	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.6G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.2924	16.17	17.68	33.85	40.00	-6.15	QP
V	47.6584	15.12	10.88	26.00	40.00	-14.00	QP
V	92.7870	18.27	10.22	28.49	43.50	-15.01	QP
V	119.0180	16.72	12.33	29.05	43.50	-14.45	QP
V	197.1999	18.14	8.58	26.72	43.50	-16.78	QP
V	410.3824	12.21	18.22	30.43	46.00	-15.57	QP

Remark:

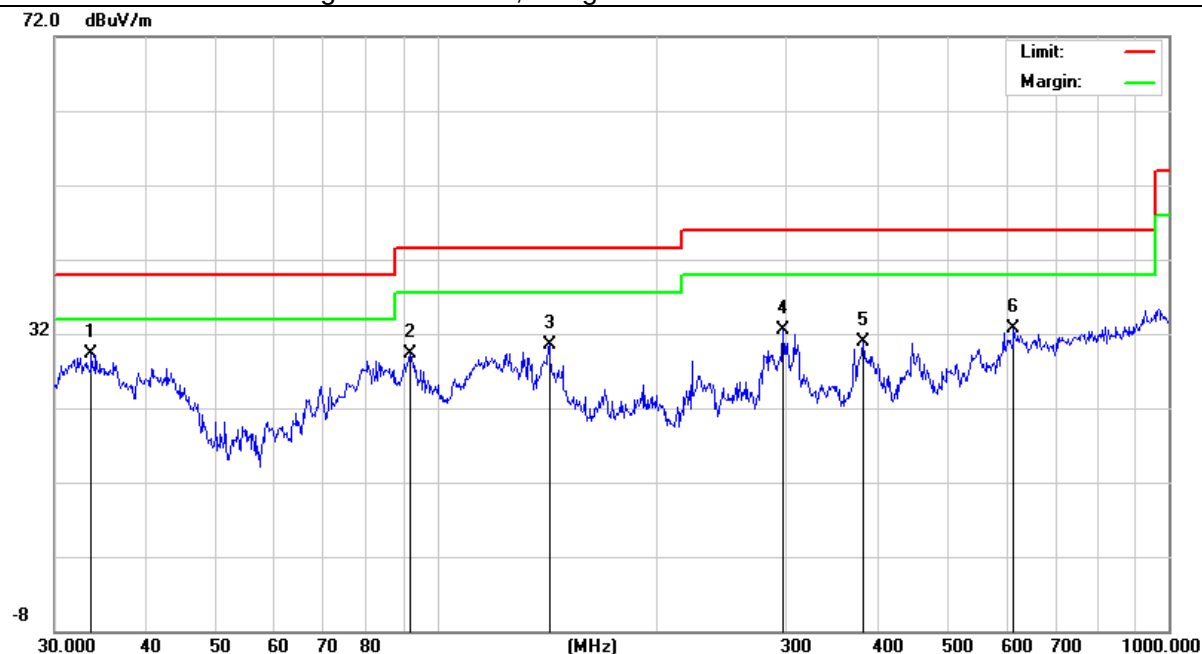
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	33.6802	12.34	16.90	29.24	40.00	-10.76	QP
H	91.8161	19.29	10.05	29.34	43.50	-14.16	QP
H	142.3240	18.14	12.27	30.41	43.50	-13.09	QP
H	297.2241	18.14	14.32	32.46	46.00	-13.54	QP
H	382.5878	13.92	17.02	30.94	46.00	-15.06	QP
H	614.2142	10.25	22.38	32.63	46.00	-13.37	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

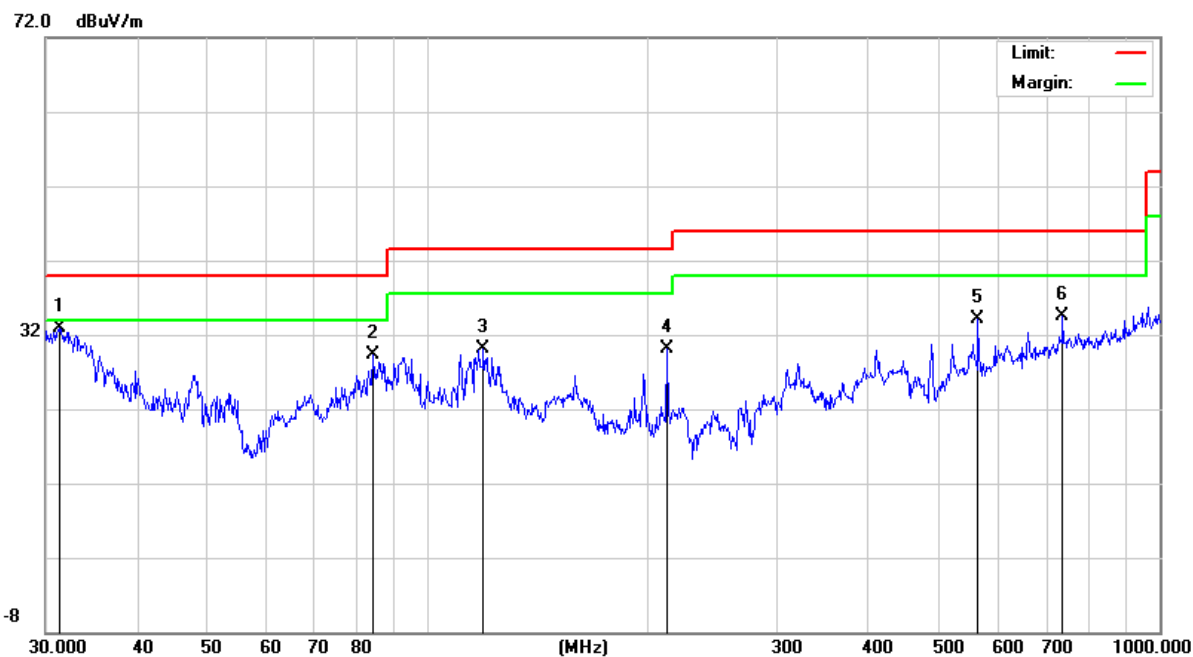


EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.8G) - 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.2893	14.82	18.11	32.93	40.00	-7.07	QP
V	84.1098	20.59	8.71	29.30	40.00	-10.70	QP
V	119.0180	17.72	12.33	30.05	43.50	-13.45	QP
V	212.2692	20.45	9.69	30.14	43.50	-13.36	QP
V	564.6389	12.20	21.89	34.09	46.00	-11.91	QP
V	737.0714	9.50	25.02	34.52	46.00	-11.48	QP

Remark:

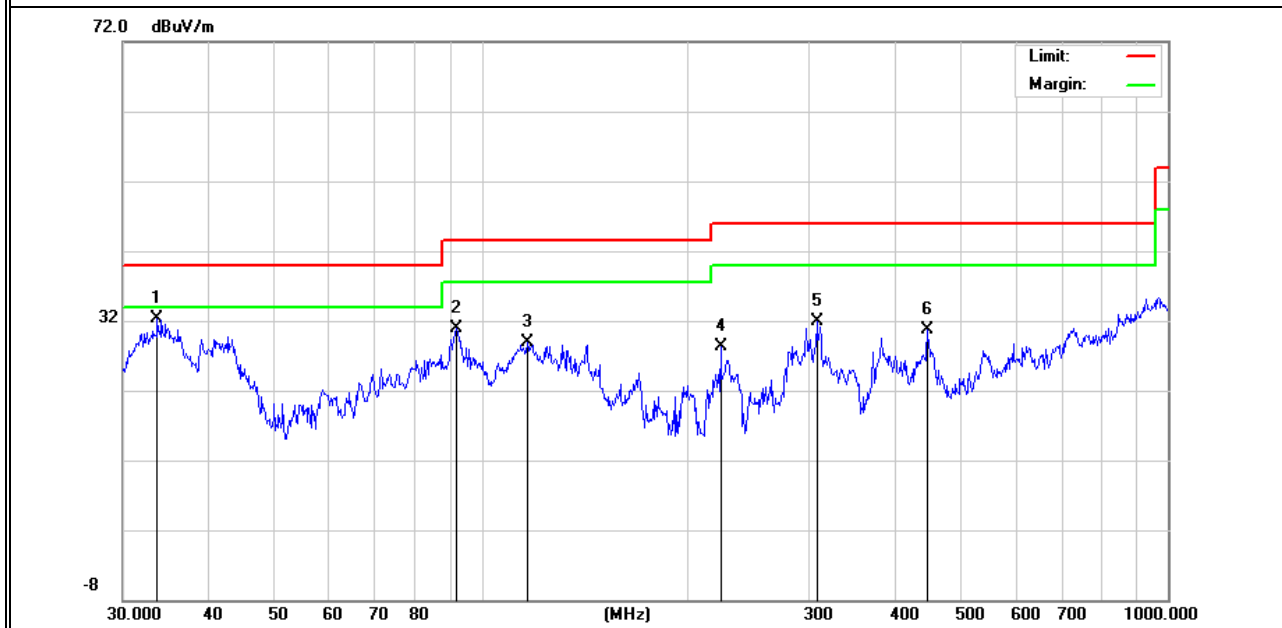
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	33.6802	15.34	16.90	32.24	40.00	-7.76	QP
H	91.8161	20.79	10.05	30.84	43.50	-12.66	QP
H	116.5400	16.51	12.38	28.89	43.50	-14.61	QP
H	222.9499	17.60	10.74	28.34	46.00	-17.66	QP
H	307.8312	17.19	14.79	31.98	46.00	-14.02	QP
H	446.4141	12.37	18.42	30.79	46.00	-15.21	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



2.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.2G) - 802.11a _5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	5150.00	67.88	5.94	35.40	44.00	65.22	74.00	-8.78	Pk
Vertical	5150.00	50.43	5.94	35.40	44.00	47.77	54.00	-6.23	AV
Horizontal	5150.00	60.58	5.94	35.18	44.00	57.70	74.00	-16.30	Pk
Horizontal	5150.00	44.78	5.94	35.18	44.00	41.90	54.00	-12.10	AV

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.3G) - 802.11a _5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel (5320 MHz)-Above 1G									
Vertical	5350.00	66.76	6.96	37.24	43.50	67.46	74.00	-6.54	Pk
Vertical	5350.00	44.94	7.07	37.24	43.50	45.75	54.00	-8.25	AV
Horizontal	5350.00	67.06	7.05	37.24	43.50	67.85	74.00	-6.15	Pk
Horizontal	5350.00	44.82	7.05	37.24	43.50	45.61	54.00	-8.39	AV

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX (5.6G) -- 802.11a _5500~5700MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	5460.00	61.09	5.61	35.40	44.00	58.11	74.00	-15.89	Pk
Vertical	5460.00	44.25	5.76	35.40	44.00	41.41	54.00	-12.59	AV
Horizontal	5460.00	58.69	5.78	35.18	44.00	55.65	74.00	-18.35	Pk
Horizontal	5460.00	41.87	5.66	35.18	44.00	38.72	54.00	-15.28	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.2G) - 802.11a_5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	10360.15	58.81	8.46	39.75	44.50	62.52	74.00	-11.48	Pk
Vertical	10360.15	39.98	8.46	39.75	44.50	43.69	54.00	-10.31	AV
Vertical	15540.22	57.44	10.12	38.80	44.10	62.26	74.00	-11.74	Pk
Vertical	15540.22	41.61	10.12	38.80	42.70	47.83	54.00	-6.17	AV
Vertical	10360.15	58.81	8.46	39.75	44.50	62.52	74.00	-11.48	Pk
Vertical	10360.15	39.98	8.46	39.75	44.50	43.69	54.00	-10.31	AV
Vertical	15540.22	57.44	10.12	38.80	44.10	62.26	74.00	-11.74	Pk
Vertical	15540.22	41.61	10.12	38.80	42.70	47.83	54.00	-6.17	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	10400.09	55.58	8.47	37.88	44.51	57.42	74.00	-16.58	Pk
Vertical	10400.09	36.20	8.47	37.88	44.51	38.04	54.00	-15.96	AV
Vertical	15600.15	57.75	10.12	38.80	44.10	62.57	74.00	-11.43	Pk
Vertical	15600.15	37.86	10.12	38.80	42.70	44.08	54.00	-9.92	AV
Horizontal	10400.14	57.41	8.47	38.64	44.50	60.02	74.00	-13.98	Pk
Horizontal	10400.14	42.13	8.47	38.64	44.50	44.74	54.00	-9.26	AV
Horizontal	15600.51	61.27	10.12	38.38	44.10	65.67	74.00	-8.33	Pk
Horizontal	15600.51	37.78	10.12	38.38	44.10	42.18	54.00	-11.82	AV
High Channel (5240 MHz)-Above 1G									
Vertical	10480.23	56.13	8.46	37.68	44.50	57.77	74.00	-16.23	Pk
Vertical	10480.23	43.37	8.46	37.68	44.50	45.01	54.00	-8.99	AV
Vertical	15720.15	60.11	10.12	38.80	44.10	64.93	74.00	-9.07	Pk
Vertical	15720.15	41.69	10.12	38.80	42.70	47.91	54.00	-6.09	AV
Horizontal	10480.59	58.85	8.46	38.57	44.50	61.38	74.00	-12.62	Pk
Horizontal	10480.59	39.61	8.46	38.57	44.50	42.14	54.00	-11.86	AV
Horizontal	15720.18	58.20	10.12	38.38	44.10	62.60	74.00	-11.40	Pk
Horizontal	15720.18	39.69	10.12	38.38	44.10	44.09	54.00	-9.91	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX(5.3G) - 802.11a _5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	10520.12	63.71	8.26	39.75	44.50	67.22	74.00	-6.78	Pk
Vertical	10520.12	41.78	8.01	39.75	44.50	45.04	54.00	-8.96	AV
Vertical	15780.34	63.85	10.12	38.80	44.10	68.67	74.00	-5.33	Pk
Vertical	15780.34	42.90	9.62	38.80	42.70	48.62	54.00	-5.38	AV
Horizontal	10520.26	58.71	8.38	38.71	44.50	61.30	74.00	-12.70	Pk
Horizontal	10520.26	41.00	8.45	38.71	44.50	43.67	54.00	-10.33	AV
Horizontal	15780.34	57.88	9.88	38.38	44.10	62.04	74.00	-11.96	Pk
Horizontal	15780.34	43.15	9.94	38.38	44.10	47.37	54.00	-6.63	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	10560.19	59.32	8.28	37.88	44.51	60.97	74.00	-13.03	Pk
Vertical	10560.19	40.27	7.99	37.88	44.51	41.64	54.00	-12.36	AV
Vertical	15840.36	61.02	9.79	38.8	44.10	65.51	74.00	-8.49	Pk
Vertical	15840.36	37.93	9.70	38.8	42.70	43.73	54.00	-10.27	AV
Horizontal	10560.74	59.83	8.33	38.64	44.50	62.29	74.00	-11.71	Pk
Horizontal	10560.74	41.40	8.07	38.64	44.50	43.61	54.00	-10.39	AV
Horizontal	15840.37	61.00	9.99	38.38	44.10	65.27	74.00	-8.73	Pk
Horizontal	15840.37	40.36	9.81	38.38	44.10	44.45	54.00	-9.55	AV
High Channel (5320 MHz)-Above 1G									
Vertical	10640.58	62.98	8.14	37.68	44.50	64.30	74.00	-9.70	Pk
Vertical	10640.58	39.73	8.35	37.68	44.50	41.27	54.00	-12.73	AV
Vertical	15960.41	58.97	10.11	38.8	44.10	63.78	74.00	-10.22	Pk
Vertical	15960.41	39.64	9.64	38.8	42.70	45.39	54.00	-8.61	AV
Horizontal	10640.24	60.85	8.20	38.57	44.50	63.12	74.00	-10.88	Pk
Horizontal	10640.24	40.67	8.03	38.57	44.50	42.78	54.00	-11.22	AV
Horizontal	15960.88	57.92	9.81	38.38	44.10	62.01	74.00	-11.99	Pk
Horizontal	15960.88	40.55	9.96	38.38	44.10	44.79	54.00	-9.21	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX (5.6G) -- 802.11a _5500~5700MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	11000.25	56.42	8.24	39.75	44.50	59.91	74.00	-14.1	Pk
Vertical	11000.25	41.66	8.35	39.75	44.50	45.26	54.00	-8.7	AV
Vertical	16500.41	51.06	10.05	38.80	44.10	55.81	74.00	-18.2	Pk
Vertical	16500.41	40.73	9.65	38.80	42.70	46.49	54.00	-7.5	AV
Horizontal	11000.32	58.34	8.22	38.71	44.50	60.78	74.00	-13.2	Pk
Horizontal	11000.32	41.04	8.14	38.71	44.50	43.39	54.00	-10.6	AV
Horizontal	16500.47	61.49	10.04	38.38	44.10	65.81	74.00	-8.2	Pk
Horizontal	16500.47	36.93	9.73	38.38	44.10	40.94	54.00	-13.1	AV
Middle Channel (5600 MHz)-Above 1G									
Vertical	11200.58	59.75	8.24	37.88	44.51	61.36	74.00	-12.64	Pk
Vertical	11200.58	42.49	8.13	37.88	44.51	43.99	54.00	-10.01	AV
Vertical	16800.45	55.63	9.71	38.8	44.10	60.04	74.00	-13.96	Pk
Vertical	16800.45	36.49	10.12	38.8	42.70	42.70	54.00	-11.30	AV
Horizontal	11200.45	56.94	8.31	38.64	44.50	59.38	74.00	-14.62	Pk
Horizontal	11200.45	40.29	8.04	38.64	44.50	42.47	54.00	-11.53	AV
Horizontal	16800.33	59.31	10.09	38.38	44.10	63.68	74.00	-10.32	Pk
Horizontal	16800.33	39.43	9.63	38.38	44.10	43.34	54.00	-10.66	AV
High Channel (5700 MHz)-Above 1G									
Vertical	11400.29	57.38	8.10	37.68	44.50	58.66	74.00	-15.34	Pk
Vertical	11400.29	42.72	8.23	37.68	44.50	44.13	54.00	-9.87	AV
Vertical	17100.54	61.08	9.70	38.8	44.10	65.48	74.00	-8.52	Pk
Vertical	17100.54	38.29	9.70	38.8	42.70	44.09	54.00	-9.91	AV
Horizontal	11400.43	58.07	8.25	38.57	44.50	60.39	74.00	-13.61	Pk
Horizontal	11400.43	38.41	8.35	38.57	44.50	40.83	54.00	-13.17	AV
Horizontal	17100.58	59.87	9.70	38.38	44.10	63.84	74.00	-10.16	Pk
Horizontal	17100.58	39.22	9.63	38.38	44.10	43.13	54.00	-10.87	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX (5.8G) -- 802.11a_5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	11490.60	58.37	8.46	39.75	44.50	62.08	74.00	-11.92	Pk
Vertical	11490.60	38.80	8.46	39.75	44.50	42.51	54.00	-11.49	AV
Vertical	17235.65	51.87	10.12	38.80	44.10	56.69	74.00	-17.31	Pk
Vertical	17235.65	36.30	10.12	38.80	42.70	42.52	54.00	-11.48	AV
Horizontal	11490.47	58.41	8.46	38.71	44.50	61.08	74.00	-12.92	Pk
Horizontal	11490.47	43.15	8.46	38.71	44.50	45.82	54.00	-8.18	AV
Horizontal	17235.47	56.97	10.12	38.38	44.10	61.37	74.00	-12.63	Pk
Horizontal	17235.47	38.09	10.12	38.38	44.10	42.49	54.00	-11.51	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	11570.41	59.33	8.47	37.88	44.51	61.17	74.00	-12.83	Pk
Vertical	11570.41	46.09	8.47	37.88	44.51	47.93	54.00	-6.07	AV
Vertical	17355.84	63.44	10.12	38.8	44.10	68.26	74.00	-5.74	Pk
Vertical	17355.84	39.04	10.12	38.8	42.70	45.26	54.00	-8.74	AV
Horizontal	11570.28	58.68	8.47	38.64	44.50	61.29	74.00	-12.71	Pk
Horizontal	11570.28	47.01	8.47	38.64	44.50	49.62	54.00	-4.38	AV
Horizontal	17355.49	64.80	10.12	38.38	44.10	69.20	74.00	-4.80	Pk
Horizontal	17355.49	39.97	10.12	38.38	44.10	44.37	54.00	-9.63	AV
High Channel (5825 MHz)-Above 1G									
Vertical	11652.42	66.19	8.46	37.68	44.50	67.83	74.00	-6.17	Pk
Vertical	11652.42	42.94	8.46	37.68	44.50	44.58	54.00	-9.42	AV
Vertical	17473.74	60.03	10.12	38.8	44.10	64.85	74.00	-9.15	Pk
Vertical	17473.74	39.10	10.12	38.8	42.70	45.32	54.00	-8.68	AV
Horizontal	11652.67	59.30	8.46	38.57	44.50	61.83	74.00	-12.17	Pk
Horizontal	11652.67	43.24	8.46	38.57	44.50	45.77	54.00	-8.23	AV
Horizontal	17474.68	58.30	10.12	38.38	44.10	62.70	74.00	-11.30	Pk
Horizontal	17474.68	39.44	10.12	38.38	44.10	43.84	54.00	-10.16	AV

Note:"802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value

has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

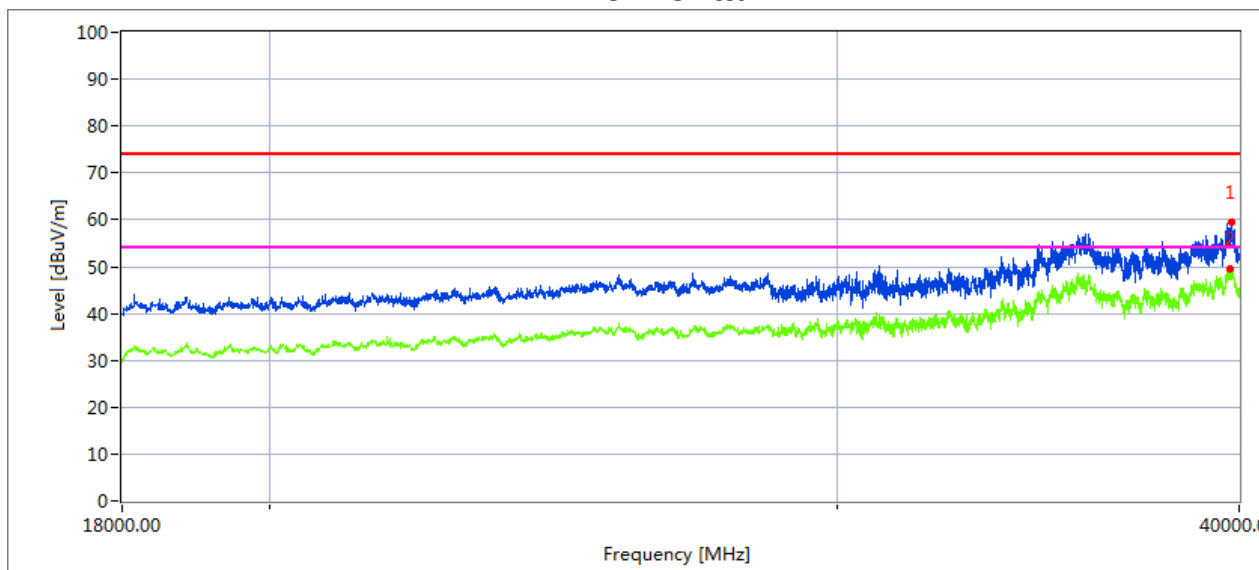
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

2.2.9 TEST RESULTS (18GHZ-40GHZ)

EUT :	AILA Sit & Play™	Model Name :	X4C-US19
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz; TX (5.3G)-802.11a 5260MHz~5320MHz; TX (5.6G)-802.11a 5500MHz~5700MHz; TX (5.8G)-802.11a 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

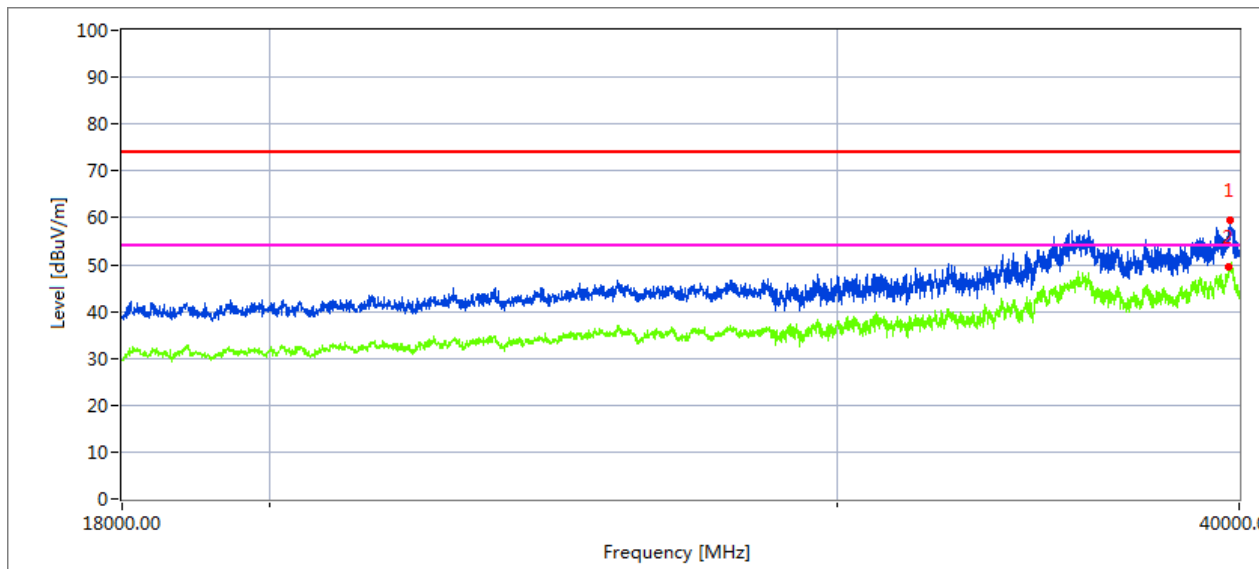
Low Channel (5180 MHz)-Above 18G Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamplifier Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39769.24	38.62	20.09	44.07	43.48	59.3	74	14.7	Peak
39767.16	26.92	20.09	44.04	43.48	47.57	54	6.43	AVG

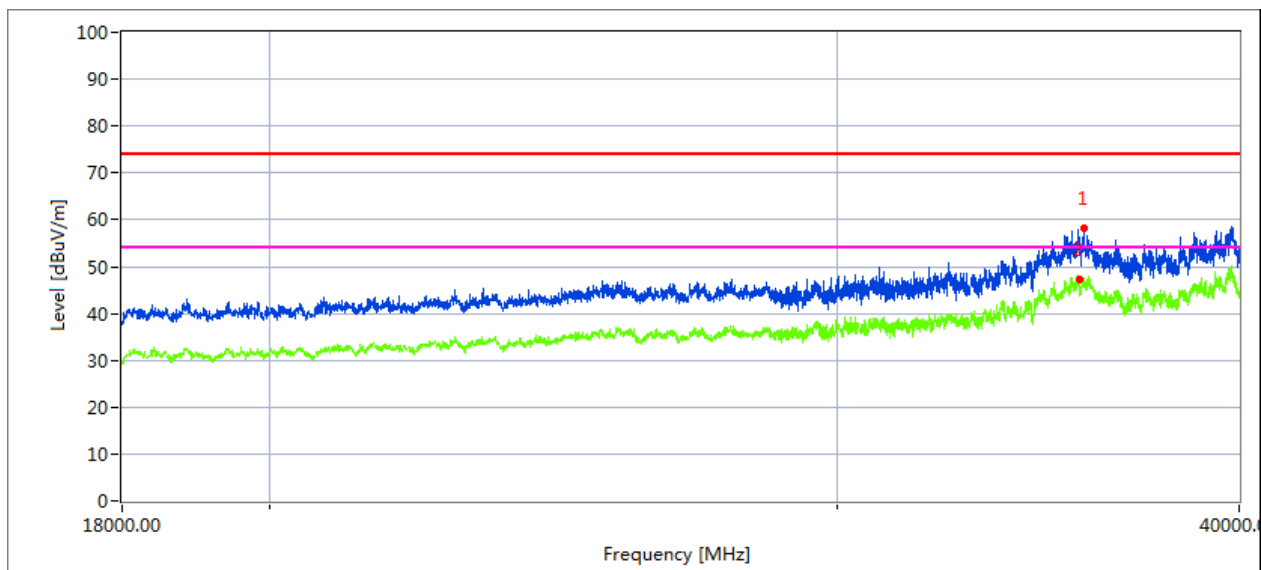
Vertical



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamplifier Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39769.516	35.62	20.09	44.07	43.48	56.3	74	17.7	Peak
39769.335	26.92	20.09	44.04	43.48	47.57	54	6.43	AVG

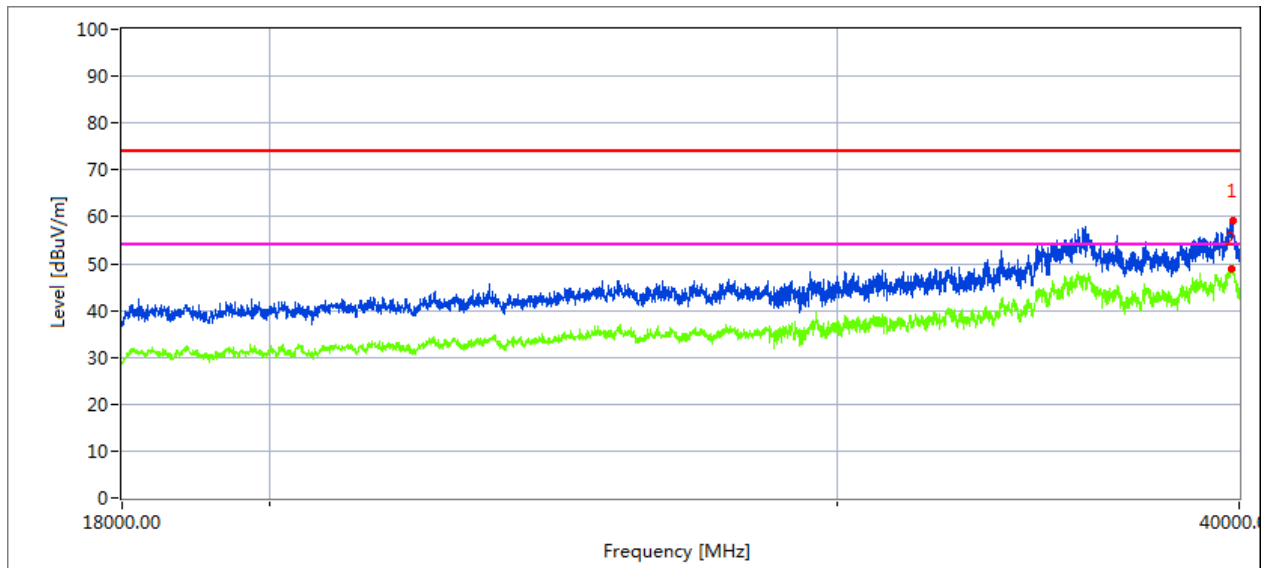
High Channel (5240 MHz)-Above 18G Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
35628.34	40.63	19.11	42.73	44.61	57.86	74	16.14	Peak
35596.956	31.2	19.11	42.73	44.61	48.43	54	5.57	AVG

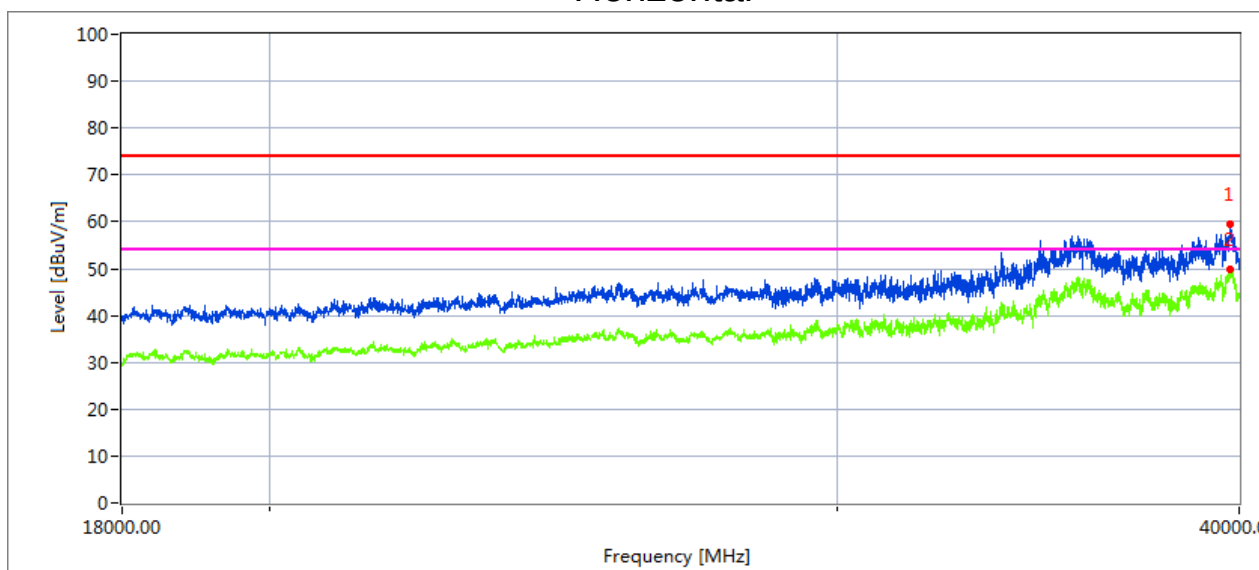
Vertical



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39769.446	36.72	20.09	44.07	43.48	57.4	74	16.6	Peak
39769.446	24.95	20.09	44.04	43.48	45.6	54	8.4	AVG

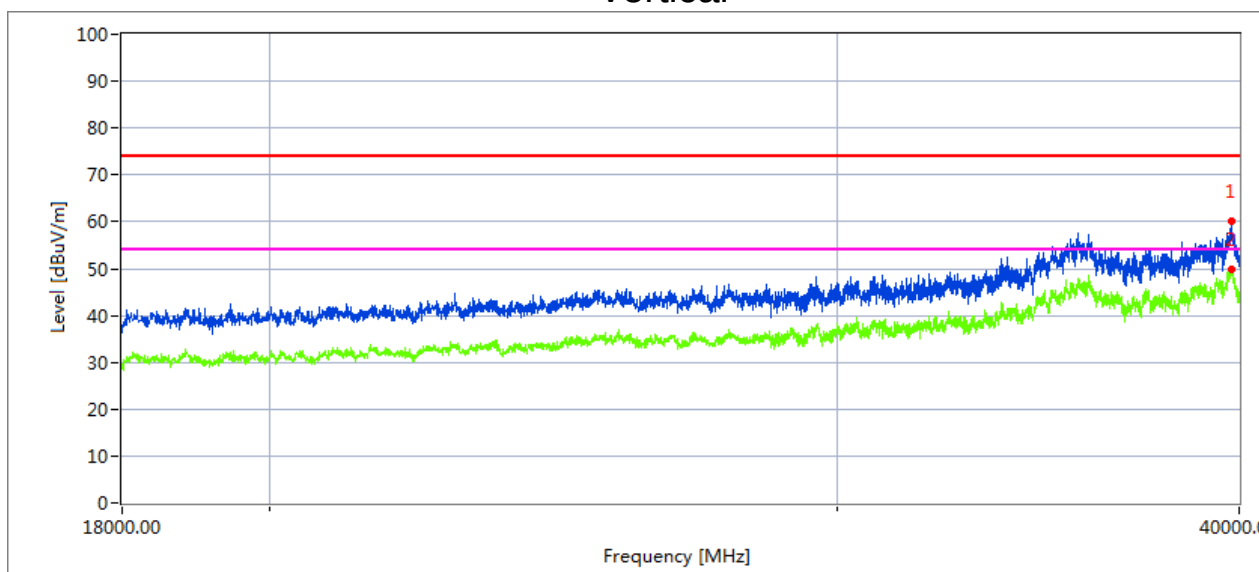
Low Channel (5260 MHz)-Above 18G Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39176.23	38.28	19.98	43.84	44.62	57.48	74	16.52	Peak
39176.23	29.48	19.98	43.84	44.62	48.68	54	5.32	AVG

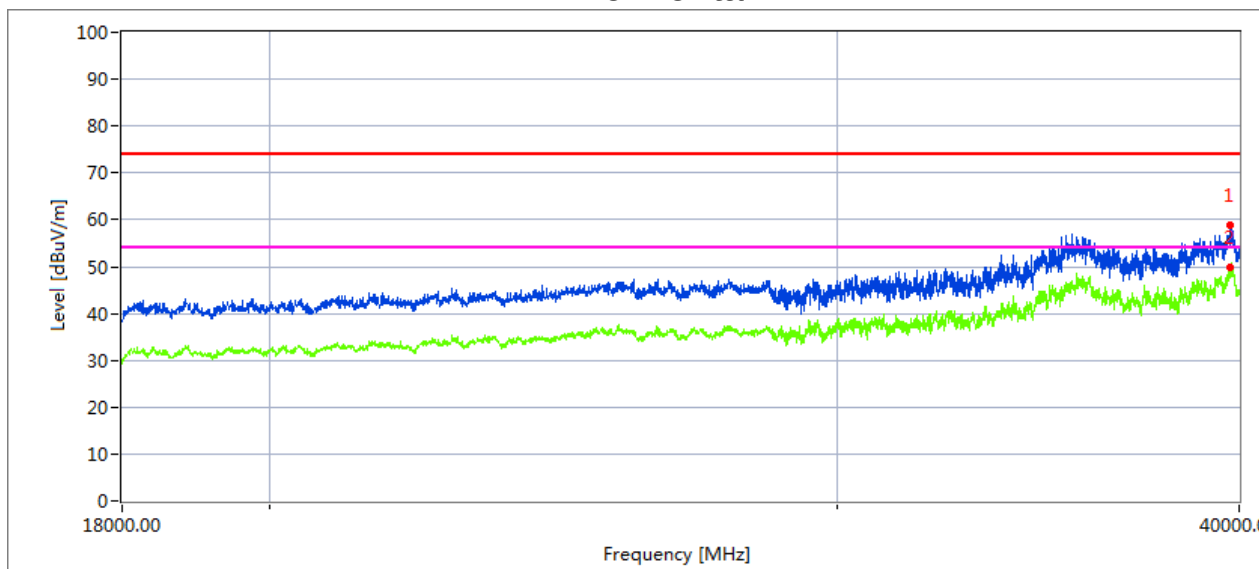
Vertical



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39385.84	38.56	20.01	44.06	42.69	59.94	74	14.06	Peak
39385.84	28.32	20.01	44.06	42.69	49.7	54	4.3	AVG

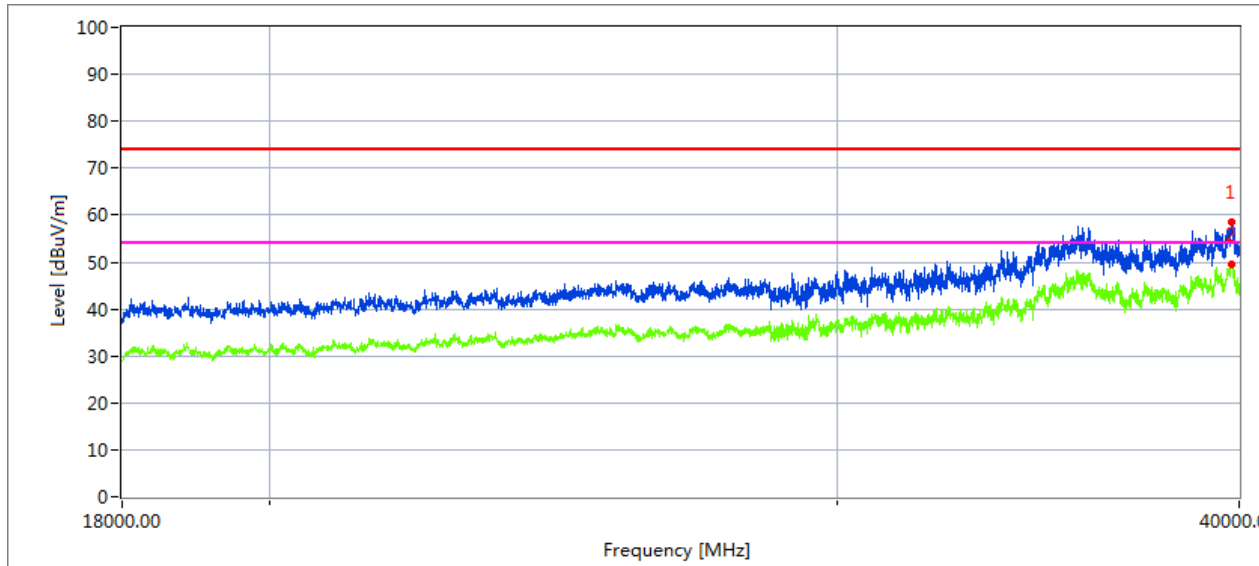
High Channel (5320 MHz)-Above 18G Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39176.94	38.48	19.98	43.84	44.62	57.68	74	16.32	Peak
39176.94	30.2	19.98	43.84	44.62	49.4	54	4.6	AVG

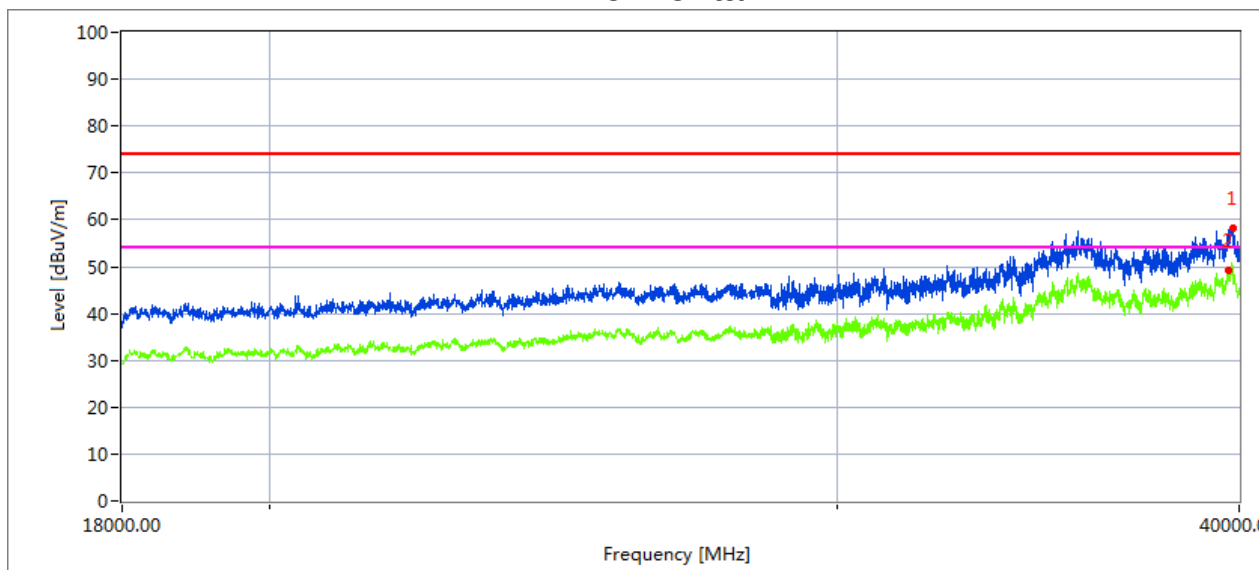
Vertical



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39369.174	35.36	20.01	44.06	42.69	56.74	74	17.26	Peak
39369.174	27.02	20.01	44.06	42.69	48.4	54	5.6	AVG

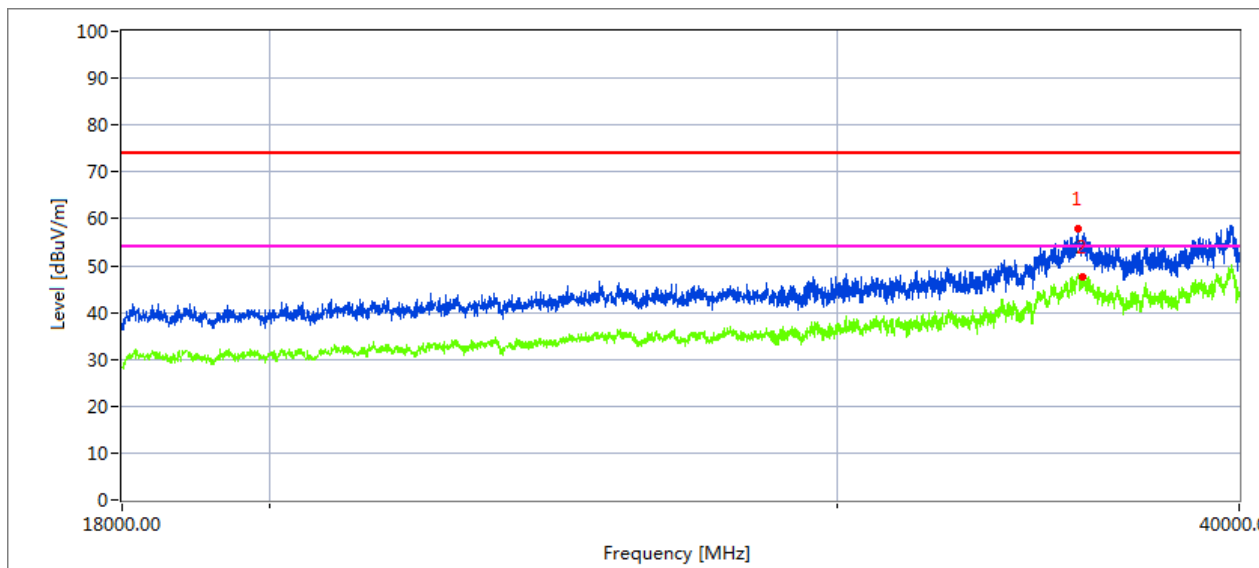
Low Channel (5500 MHz)-Above 18G Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39696.437	36.75	20.09	44.07	43.48	57.43	74	16.57	Peak
39653.181	28.75	20.07	44.06	43.48	49.4	54	4.6	AVG

Vertical

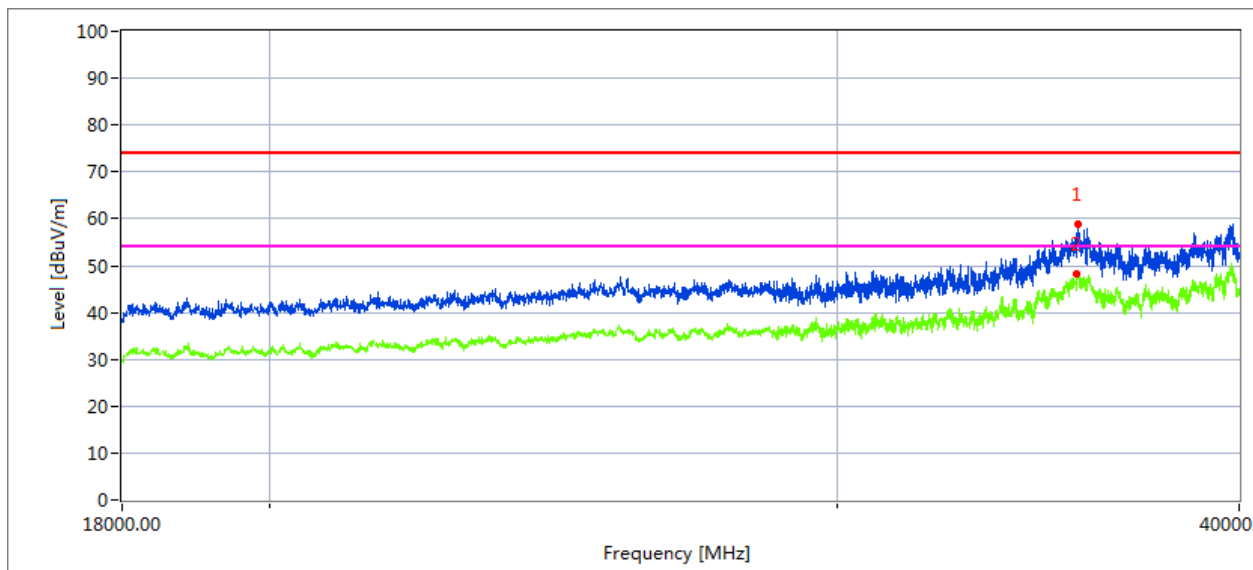


Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
36575.641	36.83	19.16	42.61	41.56	57.04	74	16.96	Peak
36575.641	26.93	19.16	42.61	41.56	47.14	54	6.86	AVG

High Channel (5700 MHz)-Above 18G

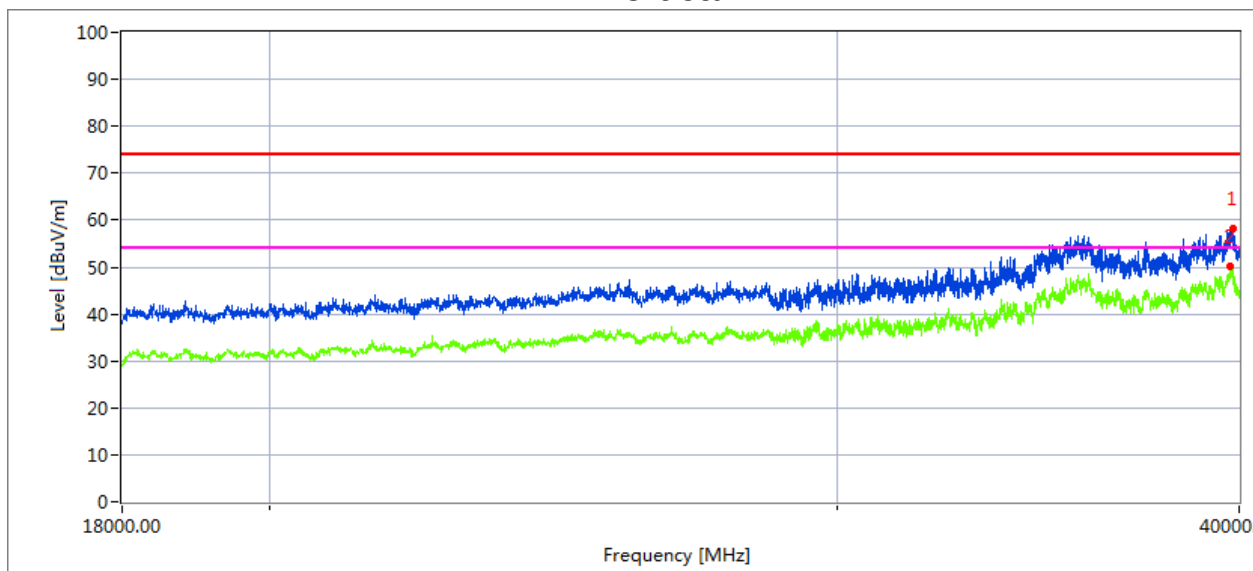
Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB (dB)	Detector Type
35794.5	37.16	19.17	42.63	42.74	56.22	74	17.78	Peak
35763.418	28.53	19.14	42.61	42.71	47.57	54	6.43	AVG

Vertical

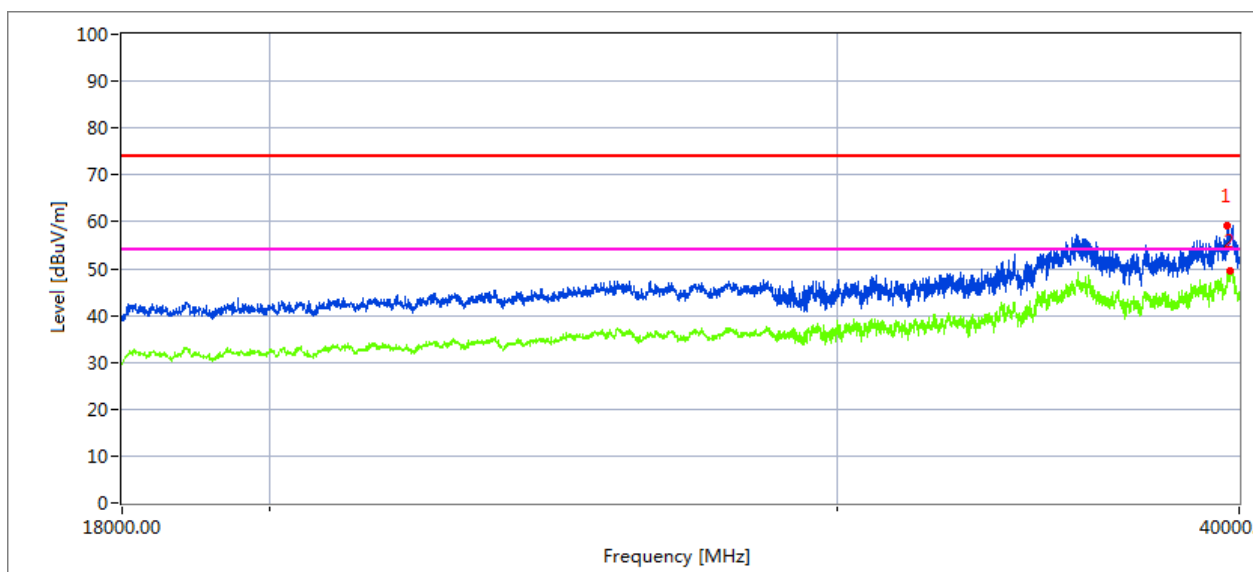


Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB (dB)	Detector Type
39816.733	38.17	20.09	42.63	43.48	57.41	74	16.59	Peak
39804.018	30.24	20.09	42.61	43.48	49.46	54	4.54	AVG

Low Channel (5745 MHz)-Above 18G

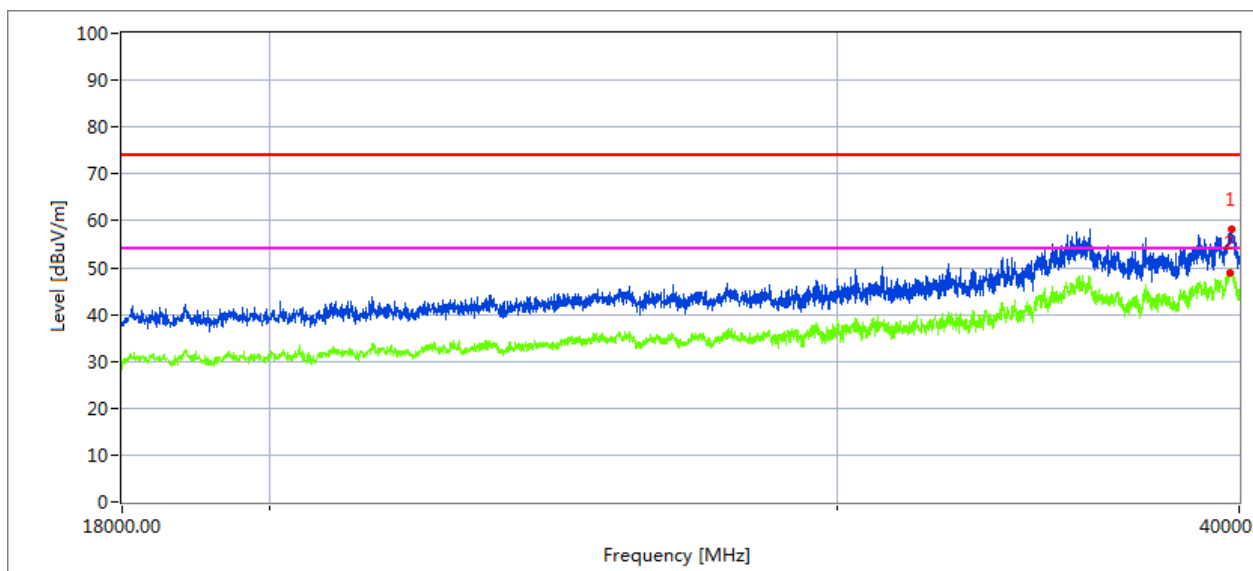
Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39670.194	38.17	20.09	44.16	43.48	58.94	74	15.06	Peak
39670.194	29.2	20.09	44.16	43.48	49.97	54	4.03	AVG

Vertical

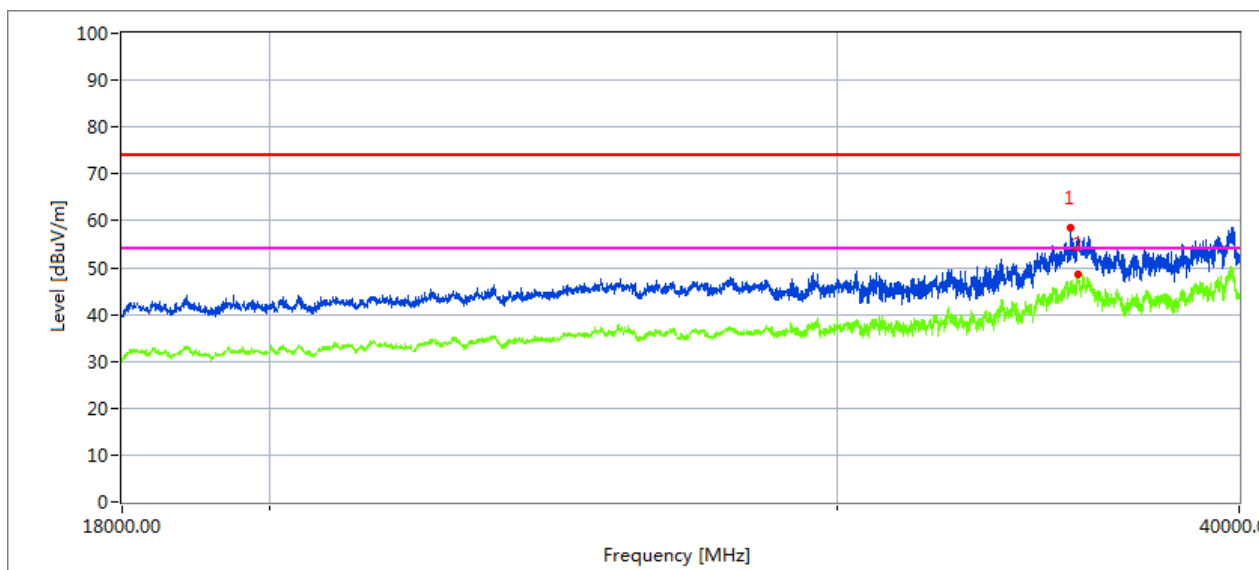


Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39731.312	37.02	20.06	44.07	43.21	57.94	74	16.06	Peak
39731.312	27.99	20.06	44.07	43.21	48.91	54	5.09	AVG

High Channel (5825 MHz)-Above 18G

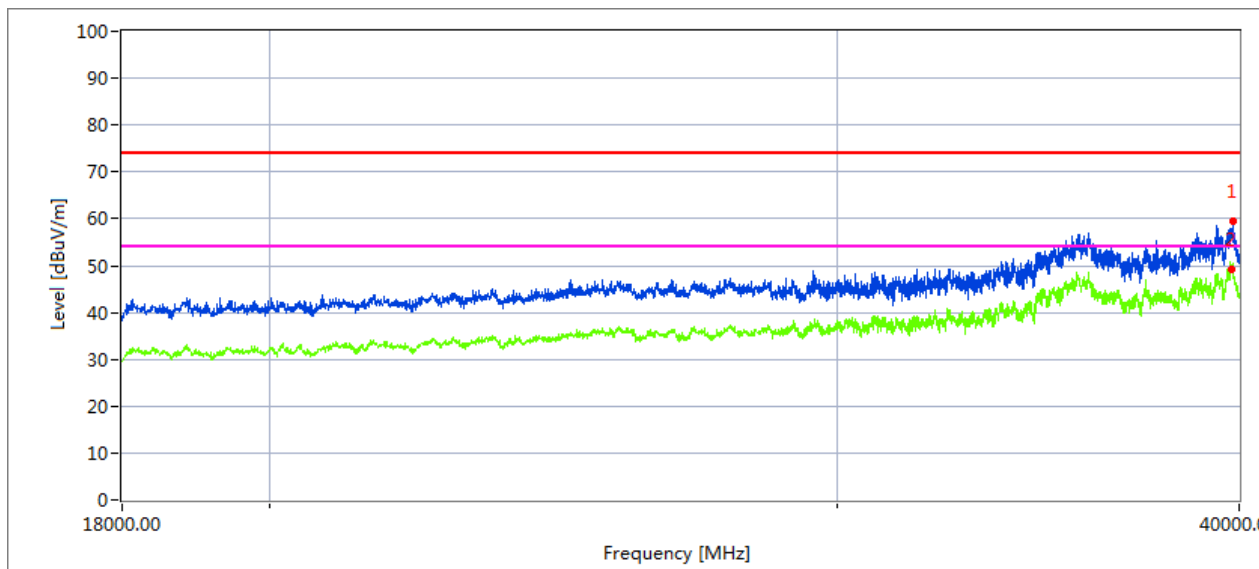
Horizontal



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
35628.504	39.22	19.11	42.63	43.48	57.48	74	16.52	Peak
35636.128	29.77	19.12	42.63	43.48	48.04	54	5.96	AVG

Vertical



Measurement Result:

Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin dB	Detector Type
39821.733	37.87	20.1	44.1	43.22	58.85	74	15.15	Peak
39821.733	28.75	20.1	44.1	43.22	49.73	54	4.27	AVG