DEKRA Testing and Certification (Suzhou) Co., Ltd.
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Test report No:
24C0528R-RF-US-P06V01

FCC&ISED TEST REPORT

Product Name	Xiaomi TV Box S
Trademark	XIAOMI;Xiaomi;
Model and /or type reference	MDZ-32-AA
FCC ID	2AIMR-MDZ32AA
IC	25940-MDZ32AA
Applicant´s name / address	Beijing Xiaomi Electronics Co., Ltd Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing City, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2013 RSS-Gen Issue 5 RSS-247 Issue 3
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Tim Cao / Project Manager
Approved by (name / position & signature)	Frank He / Technical Manager
Date of issue	2025-03-19
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

INDEX

page

COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.
In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

GENERAL CONDITIONS

Test Location A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Dec. 16, 2024
Date (start test)	Dec. 16, 2024
Date (finish test)	Feb. 17, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test
QP : Quasi-Peak
CAV : CISPR Average
AV : Average
CDN : Coupling Decoupling Network
SAC : Semi-Anechoic Chamber
OATS : Open Area Test Site
BW : Bandwidth
AM : Amplitude Modulation
PM : Pulse Modulation
HCP : Horizontal Coupling Plane
VCP : Vertical Coupling Plane
U_N : Nominal voltage
*T*x : Transmitter
*R*x : Receiver
N/A : Not Applicable
N/M : Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
24C0528R-RF-US-P06V01	V1.0	Initial issue of report.	2025-03-19

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. This report is a limited report on the installation of a test module in a Xiaomi TV Box S, and the customer declares that the RF parameters of the module installed in the host computer are exactly the same as those of the certified module. We verified the RF output power and radiated emissions of the equipment. For other test data, please refer to FCC ID: 2AATL-K265B-UU, IC: 12425A-K265BUU.These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247), RSS-247 Issue 3.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
   - Chapter 1.1 General Description of the Item(s);
   - Chapter 1.2 Antenna Information;
   - Chapter 1.3 Data Rate;
   - Chapter 1.4 Channel List;

USED EQUIPMENT

Test Location A: Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	2024.05.15	2025.05.14	V 4.0.60	N/A
Coaxial Cable	N/A	N/A	2477	2024.06.11	2025.06.10	N/A	N/A
Coaxial Cable	N/A	N/A	2478	2024.06.11	2025.06.10	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2024.04.21	2025.04.20	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-032	2024.05.17	2025.05.16	N/A	N/A
Test system							
Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
MAX Signal Analyzer	Keysight	N9010A	MY48030494	2024.10.26	2025.10.25	A.14.03	N/A
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.01.26	2026.01.25	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2024.05.12	2025.05.11	B.01.96	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2024.05.12	2025.05.11	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.07.06	2025.07.05	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.0.22

Test Location A: AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100726	2024.07.06	2025.07.05	4.42 SP1	N/A
Two-Line V-Network	R&S	ENV 216	101044	2024.10.26	2025.10.25	N/A	N/A
Two-Line V-Network	R&S	ENV 216	101189	2024.07.06	2025.07.05	N/A	N/A
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2024.07.06	2025.07.05	N/A	N/A
Coaxial Cable	Huber+Suhner	RG 223	TR1-C1	2024.07.06	2025.07.05	N/A	N/A
Impedance Stabilization Network	Teseq GmbH	ISN T800	57318	2024.12.20	2025.12.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-011	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	N/A

Test Location A: Radiated Emission (9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
EMI Test Receiver	R&S	ESCI	100573	2025.01.11	2026.01.10	4.42 SP3	N/A
Loop Antenna	R&S	HFH2-Z2E	101149	2024.03.27	2025.03.26	N/A	N/A
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2024.03.20	2025.03.19	N/A	N/A
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2024.04.27	2025.04.26	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2024.05.17	2025.05.16	N/A	N/A
Dekra test software	Dekra	N/A	N/A	N/A	N/A	N/A	3

Test Location B: Radiated Emission (1GHz-40GHz) / AC103

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Versiom	Software version
Signal analyzer	keysight	N9020B	MY63490118	2024.07.26	2025.07.25	A 08.54	N/A
Bilog Antenna	TESEQ	CBL6112D	64164	2024.11.23	2025.11.22	N/A	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2024.11.02	2025.11.01	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2024.10.28	2025.10.27	N/A	N/A
Amplifier	ESE	LNA0118	LNA23100009	2024.08.10	2025.08.09	N/A	N/A
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2024.11.16	2025.11.15	N/A	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2024.11.08	2025.11.07	N/A	N/A
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2024.11.20	2025.11.19	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	001	2024.05.23	2025.05.22	N/A	N/A
Test Software	Tonscend	JS36	N/A	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document.The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.The Uncertainties is complice with standard required as below.

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~300MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~26.5GHz: 5.30 dB Vertical: 18GHz~26.5GHz: 4.90 dB
20dB Bandwidth	± 1 kHz
Carrier Frequency Separation	± 1 kHz
Number of Hopping Frequencies	± 1 kHz
Time of Occupancy (Dwell Time)	± 0.1 us
Peak OutputPower	± 1.27 dB
Emissions in non-restricted frequency bands	± 1.0 dB
Radiated Emission Band Edge	± 3.9 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 4.86 dB 300MHz~1GHz: 4.86 dB Vertical: 30MHz~300MHz: 4.92 dB 300MHz~1GHz: 4.92 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.99 dB Vertical: 1GHz~18GHz: 5.76 dB Horizontal: 18GHz~26.5GHz: 5.99 dB Vertical: 18GHz~26.5GHz: 5.76 dB
Radiated Emission Band Edge	± 5.99 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name ..... :	Xiaomi TV Box S
Model No. ..... :	MDZ-32-AA
Trademark. ..... :	XIAOMI;Xiaomi;
FCC ID ..... :	2AIMR-MDZ32AA
IC ..... :	25940-MDZ32AA
Hardware Version ..... :	DKTB-OB1A-905X5M-AD
Software Version ..... :	V816.0.25.2.10.UZFAABX
Manufacturer ..... :	Beijing Xiaomi Electronics Co., Ltd
Manufacturer Address ..... :	Room 802, Floor 8, Building 5, No.15 KeChuang 10th Road, Beijing Economic and Technological Development Zone, Beijing City, China
Factory ..... :	Nanchang Qinsheng Electronic Technology CO.,LTD
Factory address..... :	No.638,Hangkongcheng Avenue,Nanchang Hi-tech Development Zone,Nanchang City, Jiangxi Province
Operating temperature ..... :	0 ~ +40 ℃

Wireless Card ..... :	K265B-UU					
Wireless specifiction..... :	802.11b/g/n					
Operating frequency range(s) ..... :	2412~2462MHz					
Number of channel ..... :	802.11b/g/n/ax(20MHz) : 11 802.11n/ax(40MHz) : 07					
Wireless specification..... :	Bluetooth					
Operating frequency range(s)	2402~2480MHz					
Type of Modulation..... :	GFSK					
PHYs ..... :	☒	LE 1M	☒	LE 2M	☐	LE Coded S=2/8
Data Rate ..... :	☒	1Mbit/s	☒	2Mbit/s	☐	500/125 Kbit/s
Number of channels ..... :	40					
Type of Modulation & Data Rate .... :	Refer to Clause 1.3					
Device category ..... :	☐	Fixed point-to-point				
	☐	Emit multiple directional beams, simultaneously or sequentially				
	☒	Other cases				

Rated power supply ..... :	Voltage and Frequency	
	☐	AC: 220 - 240 V, 50/60 Hz
	☒	AC: 100 - 240 V, 50/60 Hz 0.3A
	☒	DC: 5.2 Vdc, 2.1 A
	☐	Battery:

	☒	Adapter:
Adapter model No ..... :	AD-0100520210US-1	
INPUT..... :	100 - 240 V, 50/60 Hz 0.3 A	
OUTPUT..... :	5.2 V, 2.1 A	
Mounting position ..... :	☒	Tabletop equipment
	☐	Wall mounted equipment
	☐	Floor standing equipment
	☐	Hand-held/Portable equipment
	☐	Other:

1.2 Antenna Information

<table>
<tr><td rowspan="3">Antenna Delivery .....:</td><td>☒</td><td colspan="4">1TX + 1RX</td></tr>
<tr><td>☒</td><td colspan="4">2TX + 2RX</td></tr>
<tr><td>☐</td><td colspan="4">Others:……</td></tr>
<tr><td rowspan="3">Antenna technology .....:</td><td>☒</td><td colspan="4">SISO</td></tr>
<tr><td rowspan="2">☒</td><td rowspan="2">MIMO</td><td>☒</td><td colspan="2">CDD</td></tr>
<tr><td>☐</td><td colspan="2">Beam-forming</td></tr>
<tr><td rowspan="6">Antenna Type .....:</td><td rowspan="2">☐</td><td rowspan="2">External</td><td>☐</td><td colspan="2">Dipole</td></tr>
<tr><td>☐</td><td colspan="2">Sectorized</td></tr>
<tr><td rowspan="4">☒</td><td rowspan="4">Internal</td><td>☐</td><td colspan="2">Ceramic Chip</td></tr>
<tr><td>☐</td><td colspan="2">PIFA</td></tr>
<tr><td>☒</td><td colspan="2">PCB</td></tr>
<tr><td>☐</td><td colspan="2">Others……..</td></tr>
<tr><td rowspan="4">Antenna Gain .....:</td><td colspan="2" rowspan="2">Wireless specification</td><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Gain (dBi)</td></tr>
<tr><td>Main</td><td>Aux</td></tr>
<tr><td colspan="2">Wi-Fi 2.4GHz</td><td>2412~2462</td><td>2.29</td><td>1.52</td></tr>
<tr><td colspan="2">Bluetooth</td><td>2402~2480</td><td colspan="2">0.96</td></tr>
</table>

1.3 Data Rate

IEEE 802.11b

Modulation	Data Rate(Mb/s)
DSSS	1
DSSS	2
CCK	5.5
CCK	11

IEEE 802.11g

Modulation	R	Data Rate(Mb/s)
BPSK	1/2	6
BPSK	3/4	9
QPSK	1/2	12
QPSK	3/4	18
16-QAM	1/2	24
16-QAM	3/4	36
64-QAM	2/3	48
64-QAM	3/4	54

IEEE 802.11n

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)			
				800ns GI		400ns GI	
				20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	6.5	13.5	7.2	15.0
1	1	QPSK	1/2	13.0	27.0	14.4	30.0
1	2	QPSK	3/4	19.5	40.5	21.7	45.0
1	3	16-QAM	1/2	26.0	54.0	28.9	60.0
1	4	16-QAM	3/4	39.0	81.0	43.3	90.0
1	5	64-QAM	2/3	52.0	108.0	57.8	120.0
1	6	64-QAM	3/4	58.5	121.5	65.0	135.0
1	7	64-QAM	5/6	65.0	135.0	72.2	150.0
2	8	BPSK	1/2	13	27	14.4	30
2	9	QPSK	1/2	26	54	28.8	60
2	10	QPSK	3/4	39	81	43.4	90
2	11	16-QAM	1/2	52	108	57.8	120
2	12	16-QAM	3/4	78	162	86.6	180
2	13	64-QAM	2/3	104	216	115.6	240
2	14	64-QAM	3/4	117	243	130	270
2	15	64-QAM	5/6	130	270	144.4	300

IEEE 802.11ax

Spatial streames	MCS Index	Modulation	R	Data Rate(Mb/s)					
				800ns GI		1600ns GI		3200ns GI	
				20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
1	0	BPSK	1/2	8.6	17.2	8.1	16.3	7.3	14.6
1	1	QPSK	1/2	17.2	34.4	16.3	32.5	14.6	29.3
1	2	QPSK	3/4	25.8	51.6	24.4	48.8	21.9	43.9
1	3	16-QAM	1/2	34.4	68.8	32.5	65	29.3	58.5
1	4	16-QAM	3/4	51.6	103.2	48.8	97.5	43.9	87.8
1	5	64-QAM	2/3	68.8	137.6	65	130	58.5	117
1	6	64-QAM	3/4	77.4	154.9	73.1	146.3	65.8	131.6
1	7	64-QAM	5/6	86	172.1	81.3	162.5	73.1	146.3
1	8	256QAM	3/4	103.2	206.5	97.5	195	87.8	175.5
1	9	256QAM	5/6	114.7	229.4	108.3	216.7	97.5	195
1	10	1024QAM	3/4	129	258.1	121.9	243.8	109.7	219.4
1	11	1024QAM	5/6	143.4	286.8	135.4	270.8	121.9	243.8
2	0	BPSK	1/2	17.2	34.4	16.2	32.6	14.6	29.2
2	1	QPSK	1/2	34.4	68.8	32.6	65	29.2	58.6
2	2	QPSK	3/4	51.6	103.2	48.8	97.6	43.8	87.8
2	3	16-QAM	1/2	68.8	137.6	65	130	58.6	117
2	4	16-QAM	3/4	103.2	206.4	97.6	195	87.8	175.6
2	5	64-QAM	2/3	137.6	275.2	130	260	117	234
2	6	64-QAM	3/4	154.8	309.8	146.2	292.6	131.6	263.2
2	7	64-QAM	5/6	172	344.2	162.6	325	146.2	292.6
2	8	256QAM	3/4	206.4	413	195	390	175.6	351
2	9	256QAM	5/6	229.4	458.8	216.6	433.4	195	390
2	10	1024QAM	3/4	258	516.2	243.8	487.6	219.4	438.8
2	11	1024QAM	5/6	286.8	573.6	270.8	541.6	243.8	487.6

Symbol	Explanation
R	Code rate
GI	guard interval

Note: We have evaluated low/mid/high data rate, the blue font is the highest power data rate.

1.4 Channel List

IEEE 802.11b/g & IEEE 802.11n (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412 MHz	2	2417 MHz	3	2422 MHz	4	2427 MHz
5	2432 MHz	6	2437 MHz	7	2442 MHz	8	2447 MHz
9	2452 MHz	10	2457 MHz	11	2462 MHz	-	-

IEEE 802.11n(40MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422 MHz	4	2427 MHz	5	2432 MHz	6	2437 MHz
7	2442 MHz	8	2447 MHz	9	2452 MHz	-	-

Bluetooth (For LE)

Bluetooth Working Frequency of Each Channel: (For LE)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz	03	2408 MHz
04	2410 MHz	05	2412 MHz	06	2414 MHz	07	2416 MHz
08	2418 MHz	09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz	15	2432 MHz
16	2434 MHz	17	2436 MHz	18	2438 MHz	19	2440 MHz
20	2442 MHz	21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz	27	2456 MHz
28	2458 MHz	29	2460 MHz	30	2462 MHz	31	2464 MHz
32	2466 MHz	33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz	39	2480 MHz

Note: The General Description of the Item, antenna information,Test Data Rate and Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n(20MHz)
	Mode 4: Transmit by 802.11n(40MHz)
	Mode 5: Transmit by 802.11ax(20MHz)
	Mode 6: Transmit by 802.11ax(40MHz)
	Mode 7: Transmit by LE_1Mbps
	Mode 8: Transmit by LE_2Mbps

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

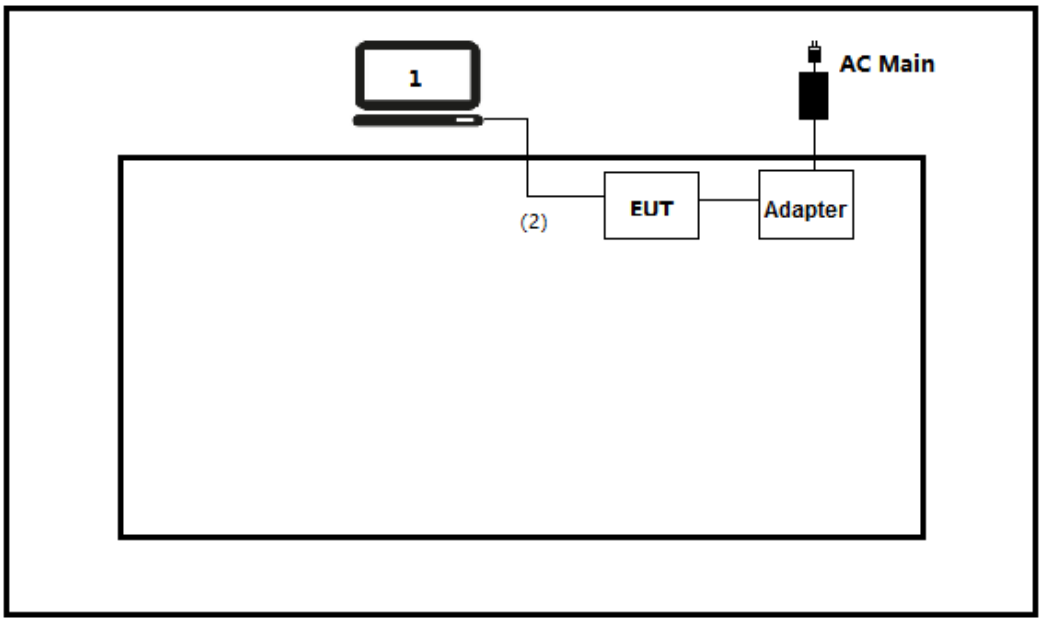
2.2 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) USB Control Cable	N/A	N/A	N/A
(2) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

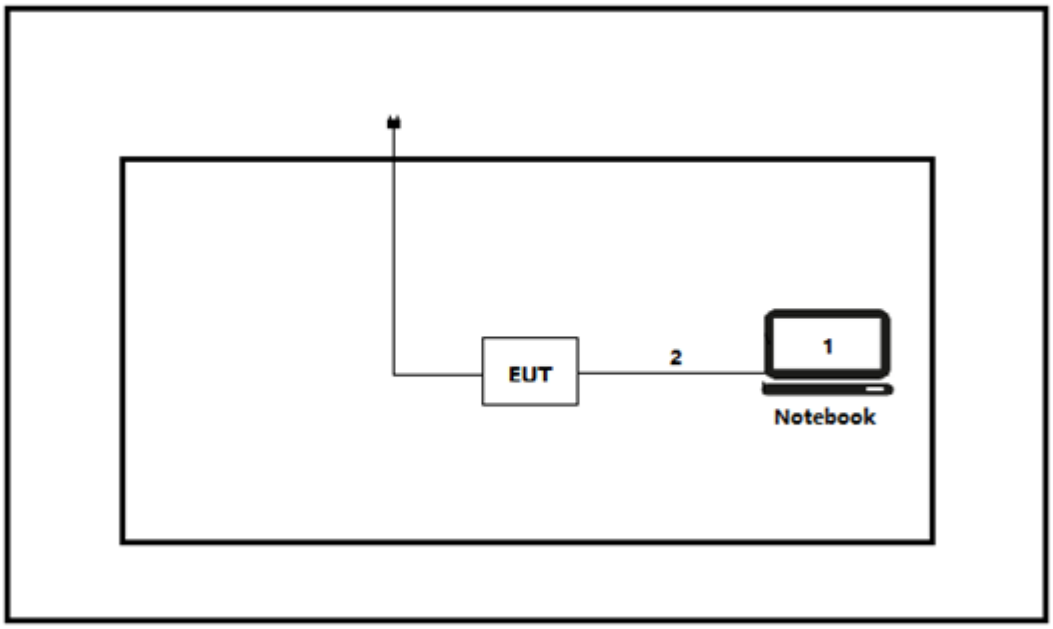
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

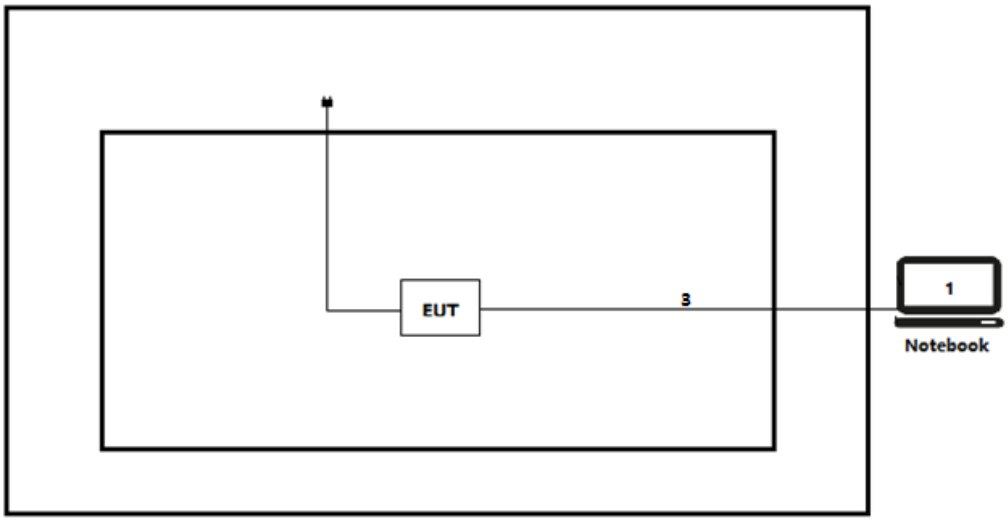
Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Conducted test



Test setup Diagram- Radiated Emission



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Enter launch execution on the dial screen.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands902–928 MHz, 2400–2483.5 MHz, and5725–5850 MHz.
ANSI C63.10	2013	American National Standard ofProcedures for Compliance Testing ofUnlicensed Wireless Devices
RSS-Gen Issue 5 Amendment 2	2021	General Requirements forCompliance of Radio Apparatus
RSS-247 Issue 3	2023	Digital Transmission Systems (DTSs),Frequency Hopping Systems (FHSs)and Licence-Exempt Local Area Network(LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Test Item	FCC Rule No.	Test Method	Result
Antenna Requirement	15.203/15.247(b)	--	**See Remark**
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	**PASS**
Duty Cycle	--	--	**See Remark**
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	**PASS**
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	**See Remark**
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	**See Remark**
Band-Edge	15.247(d)	ANSI C63.10 2013 Section 11.11	**PASS**
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	**See Remark**
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	**PASS**
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	**See Remark**

Remark:
Only the AC Power Line Conducted Emission and Conducted Output Power and Band-Edge and Radiated Spurious were fully tested. These items please refer to the Wi-Fi2.4G+BLE Module report FCCSZ2024-0019-RF1.
The FCC ID is 2AATL-K265B-UU has been certified, and the test report issued by CVC Testing Technology (Shenzhen) Co., Ltd. on 10/15/2024.

Test Item	IC Rule No.	Test Method	Result
Antenna Requirement	RSS-Gen 6.8	--	**See Remark**
AC Power Line Conducted Emission	RSS-Gen 8.8	ANSI C63.10 2013 Section 6.2	**PASS**
Duty Cycle	--	--	**See Remark**
Conducted Output Power	RSS-247 5.4(d)	ANSI C63.10 2013 Section11.9.2.3	**PASS**
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	RSS-247 5.2(a) RSS-Gen 6.7	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	**See Remark**
Power Spectral Density	RSS-247 5.2(b)	ANSI C63.10 2013 Section 11.10.2	**See Remark**
Band-Edge	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 2013 Section 11.11	**PASS**
RF Conducted Spurious Emissions	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 2013 Section 11.11	**See Remark**
Radiated Spurious Emissions	RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	ANSI C63.10 2013 Section 11.12	**PASS**

Remark:
Only the AC Power Line Conducted Emission and Conducted Output Power and Band-Edge and Radiated Spurious were fully tested. These items please refer to the Wi-Fi2.4G+BLE Module report ISEDSZ2024-0018-RF1.
The IC is 12425A-K265BUU has been certified, and the test report issued by CVC Testing Technology (Shenzhen) Co., Ltd. on 10/15/2024.

Requirement – Test Item	Standard(s)	Verdict	Tset Location	Remark
Maximum Conducted Output Power	FCC 15.247(b)(1) RSS-247 5.4(d)	PASS	**A**	Test data please refer to **Appendix A**
Emissions in Restricted Bands	FCC 15.247(b)(3) RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	PASS	**B**	Test data please refer to **Appendix B**
Band edge measurements	FCC 15.247(d) RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5	PASS	**B**	Test data please refer to **Appendix C**
AC Power Line Conducted Emission	FCC 15.207 RSS-Gen 8.8	PASS	**A**	Test data please refer to **Appendix D**

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power Setting	
			Main	Aux
Mode 1	1	2412	8.00	8.00
	6	2437	8.00	8.00
	11	2462	8.00	8.00
Mode 2	1	2412	8.00	8.00
	6	2437	8.00	8.00
	11	2462	8.00	8.00
Mode 3	1	2412	4.00	4.00
	6	2437	4.00	0.00
	11	2462	4.00	0.00
Mode 4	3	2422	4.00	4.00
	6	2437	4.00	4.00
	9	2452	4.00	4.00
Mode 5	1	2412	0.00	0.00
	6	2437	0.00	0.00
	11	2462	0.00	0.00
Mode 6	3	2422	0.00	0.00
	6	2437	0.00	0.00
	9	2452	0.00	0.00
Mode 7	0	2402	0x34	
	19	2440	0x32	
	39	2480	0x34	
Mode 8	0	2402	0x34	
	19	2440	0x33	
	39	2480	0x80	

3.5 Test Matrix

Test item	Model : Xiaomi TV Box S	
	SN: 64065/700090000048(#1)	SN: 63597/700090000118(#2)
Maximum Conducted Output Power	☒	☐
Emissions in Restricted Bands	☐	☒
Band edge measurements	☐	☒
AC Power Line Conducted Emission	☐	☒
Note1: The only difference between sample #1 and sample #2 is whether to keep the original antenna, sample #1 is a conduction test product that removes the original antenna and is equipped with SMA wires, and sample #2 is a complete product that retains the original antenna.		

3.6 Test Facility

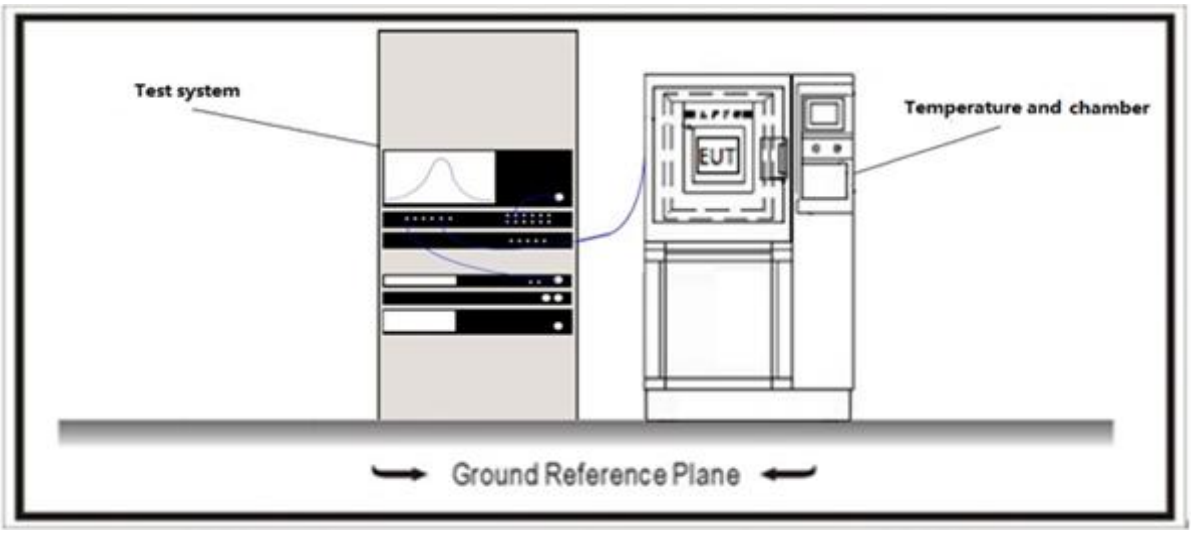
Tset Location A	**:**	**FCC Designation Number: CN1199**
Tset Location B	**:**	**FCC Designation Number: CN1321**
Tset Location A	**:**	**ISED Designation Number: CN0040**
Tset Location B	**:**	**ISED Designation Number: CN0175**

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 Maximum Conducted Output Power	VERDICT: PASS

4.1.1 Limit			
Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 3 Paragraph 5.4(d).	
☒	GTX ＜6dBi		Pout≤30dBm
☐	GTX ＞6dBi		
	☐	Non-Fix point-point	Pout≤30-(GTX -6)
	☐	Fix point-point	Pout≤30-[(GTX-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
	☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
	☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB
Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .			

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		7.8	Evaluation of frequency-hopping device parameters
	☒	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

4.2 Emissions in Restricted Bands — VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	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	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results

shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Standard	RSS-Gen Issue 5 Paragraph 8.10		
Restricted Bands of operation for IC			
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

RSS-Gen Issue 5 Paragraph 8.9.

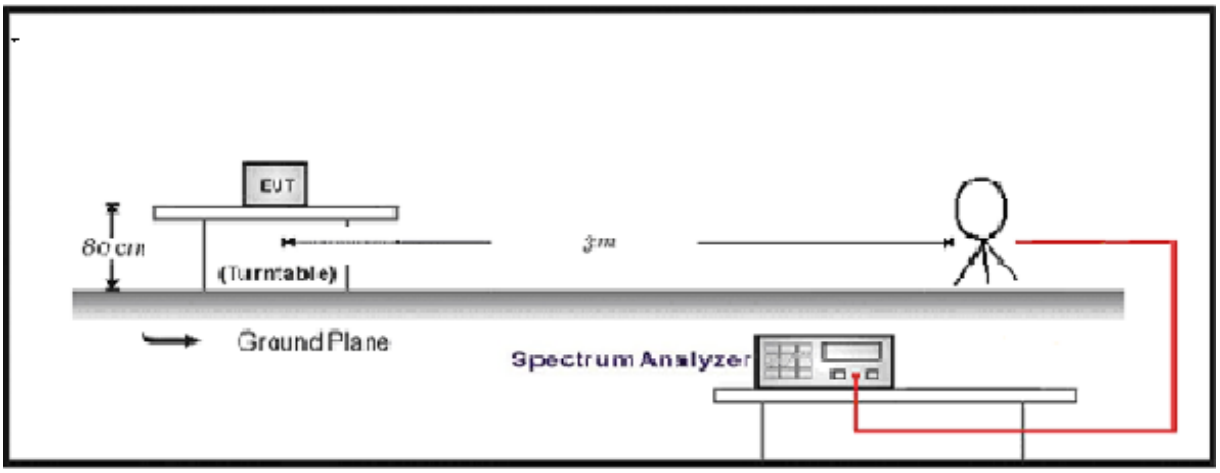
Frequency (MHz)	Field strength	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	6.37/F(kHz) μA/m	48.5 – 13.8	300(Note 1)
0.49 - 1.705	63.7/F(kHz) μA/m	33.8 - 23	30(Note 1)
1.705 - 30	30 μV/m	29.5	30(Note 1)
30 - 88	100 μV/m	40	3(Note 2)
88 - 216	150 μV/m	43.5	3(Note 2)
216 - 960	200 μV/m	46	3(Note 2)
Above 960	500 μV/m	54	3(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

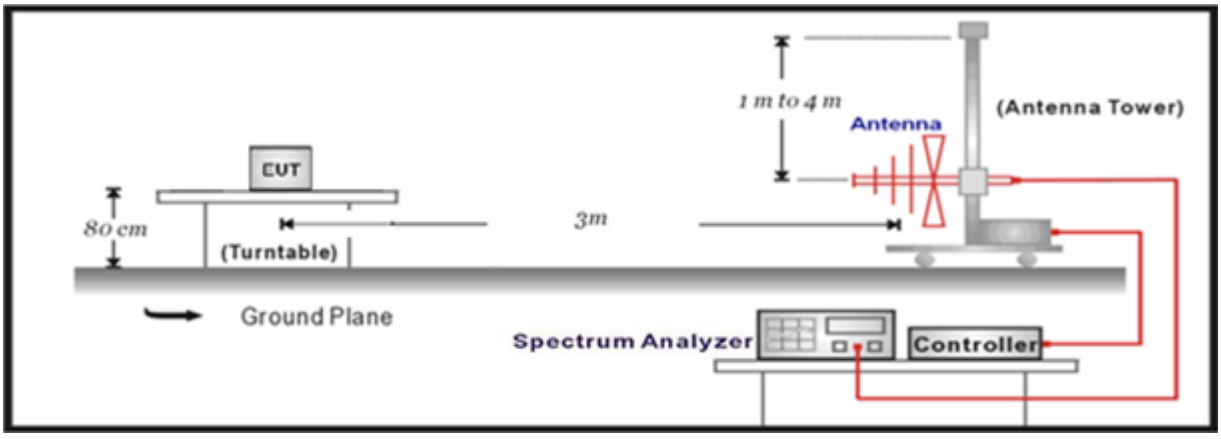
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

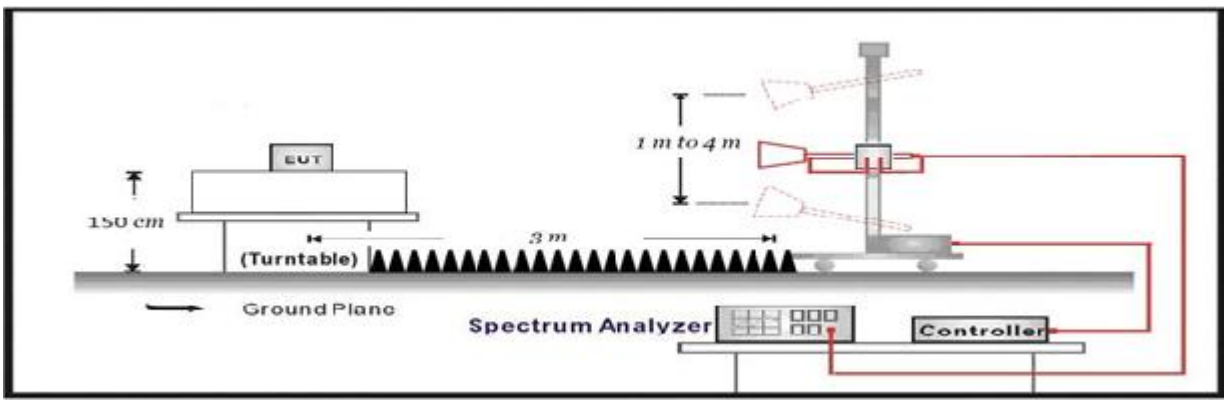
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



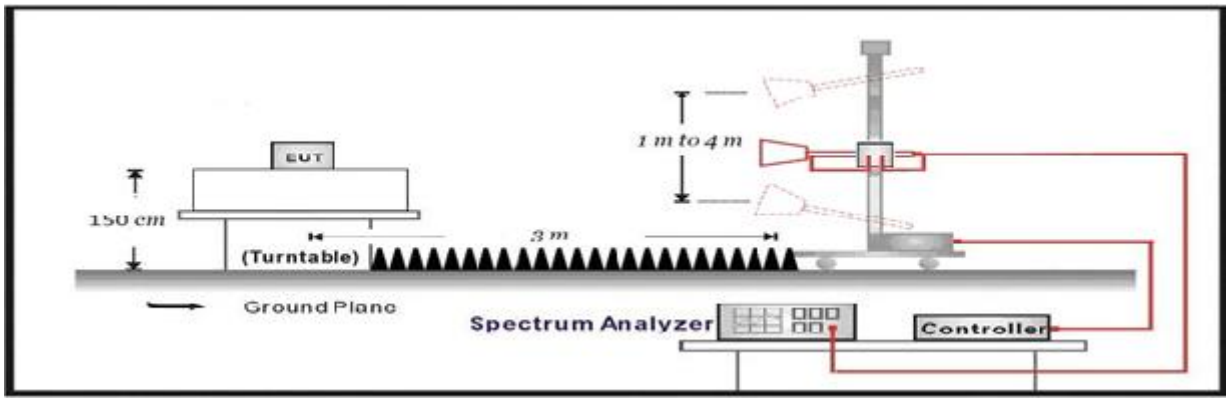
4.2.3 Test Procedure					
	References Rule			Chapter	Description
☒	ANSI C63.10			11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10		11.12.1	Radiated emission measurements
	☒	ANSI C63.10		11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Band edge measurements	VERDICT: PASS

4.3.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d) ,15.209 RSS-Gen 8.10 Table 7 RSS-Gen 8.9 Table 5			
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

4.3.2 Test Setup



4.3.3 Test Procedure

Test Method

	References Rule		Chapter	Description
☐	DA 00-705		N/A	duty cycle correction factor
☒	ANSI C63.10		6.10	Band-edge testing
	☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

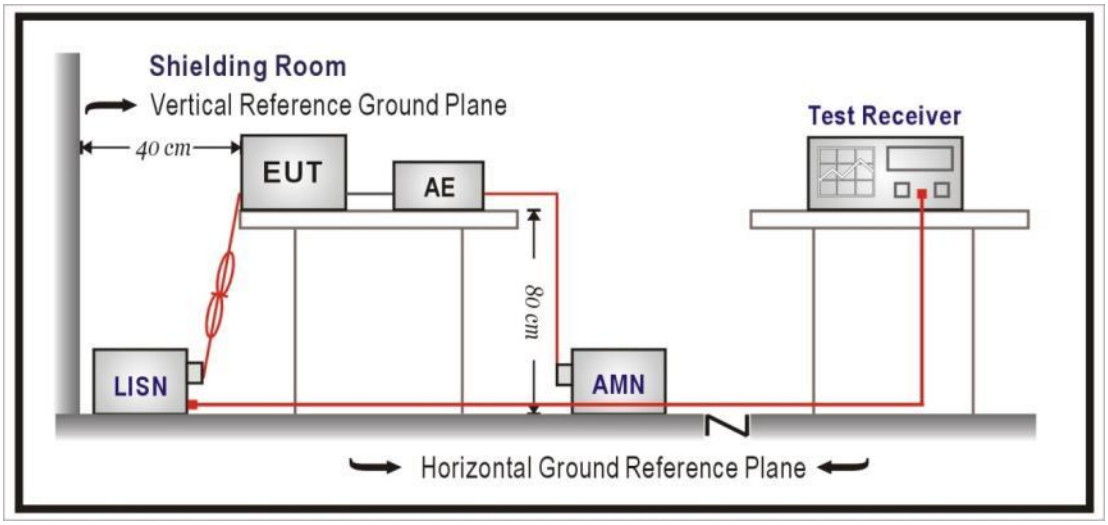
4.4 AC Power Line Conducted Emission	VERDICT: PASS

4.4.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207 & RSS-Gen 8.8	
Frequency range [MHz]	Limit: QP [dB(μV)[1)]]	Limit: AV [dB(μV) [1)]]
0,15 - 0,50	66 – 56 [2)]	56 - 46 [2)]
0,50 - 5,0	56	46
5,0 - 30	60	50

[1)] At the transition frequency, the lower limit applies.
[2)] The limit decreases linearly with the logarithm of the frequency.
NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.
NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.4.2 Test Setup



4.4.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensedwireless devices

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT

Appendix A: Maximum Conducted Output Power

Mode (Main Antenna)	Channel	Test Frequency (MHz)	Conducted Peak Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	20.40	22.59	≤30	≤36	PASS
	6	2437	20.18	22.37	≤30	≤36	PASS
	11	2462	20.22	22.41	≤30	≤36	PASS
Mode 2	1	2412	19.01	21.2	≤30	≤36	PASS
	6	2437	18.46	20.65	≤30	≤36	PASS
	11	2462	18.38	20.57	≤30	≤36	PASS
Mode 3	1	2412	13.78	15.97	≤30	≤36	PASS
	6	2437	13.86	16.05	≤30	≤36	PASS
	11	2462	13.78	15.97	≤30	≤36	PASS
Mode 4	3	2422	14.27	16.46	≤30	≤36	PASS
	6	2437	14.39	16.58	≤30	≤36	PASS
	9	2452	14.22	16.41	≤30	≤36	PASS
Mode 5	1	2412	9.53	11.72	≤30	≤36	PASS
	6	2437	9.97	12.16	≤30	≤36	PASS
	11	2462	9.82	12.01	≤30	≤36	PASS
Mode 6	3	2422	10.14	12.33	≤30	≤36	PASS
	6	2437	10.48	12.67	≤30	≤36	PASS
	9	2452	10.09	12.28	≤30	≤36	PASS

Note 1: EIRP Power = Conducted Power + Antenna gain

Note 2: The Antenna gain please refer to clause 1.2

Mode (Aux Antenna)	Channel	Test Frequency (MHz)	Conducted Peak Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	20.19	21.71	≤30	≤36	PASS
	6	2437	20.14	21.66	≤30	≤36	PASS
	11	2462	20.42	21.94	≤30	≤36	PASS
Mode 2	1	2412	18.65	20.17	≤30	≤36	PASS
	6	2437	18.56	20.08	≤30	≤36	PASS
	11	2462	18.61	20.13	≤30	≤36	PASS
Mode 3	1	2412	13.95	15.47	≤30	≤36	PASS
	6	2437	8.70	10.22	≤30	≤36	PASS
	11	2462	7.49	9.01	≤30	≤36	PASS
Mode 4	3	2422	14.36	15.88	≤30	≤36	PASS
	6	2437	14.58	16.10	≤30	≤36	PASS
	9	2452	14.10	15.62	≤30	≤36	PASS

Mode 5	1	2412	9.97	11.49	⩽30	⩽36	PASS
	6	2437	9.83	11.35	⩽30	⩽36	PASS
	11	2462	9.58	11.10	⩽30	⩽36	PASS
Mode 6	3	2422	9.93	11.45	⩽30	⩽36	PASS
	6	2437	10.22	11.74	⩽30	⩽36	PASS
	9	2452	9.77	11.29	⩽30	⩽36	PASS
Note 1: EIRP Power = Conducted Power + Antenna gain							
Note 2: The Antenna gain please refer to clause 1.2							

Mode (Main+Aux Antenna)	Channel	Test Frequency (MHz)	Conducted Peak Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 3	1	2412	16.82	18.68	⩽30	⩽36	PASS
	6	2437	14.94	16.79	⩽30	⩽36	PASS
	11	2462	14.64	16.49	⩽30	⩽36	PASS
Mode 4	3	2422	17.25	19.10	⩽30	⩽36	PASS
	6	2437	17.43	19.29	⩽30	⩽36	PASS
	9	2452	17.12	18.98	⩽30	⩽36	PASS
Mode 5	1	2412	12.69	14.54	⩽30	⩽36	PASS
	6	2437	12.83	14.69	⩽30	⩽36	PASS
	11	2462	12.63	14.48	⩽30	⩽36	PASS
Mode 6	3	2422	12.97	14.83	⩽30	⩽36	PASS
	6	2437	13.27	15.13	⩽30	⩽36	PASS
	9	2452	12.89	14.74	⩽30	⩽36	PASS
Note 1: EIRP Power = Conducted Power + Antenna gain							
Note 2: The Antenna gain please refer to clause 1.2							

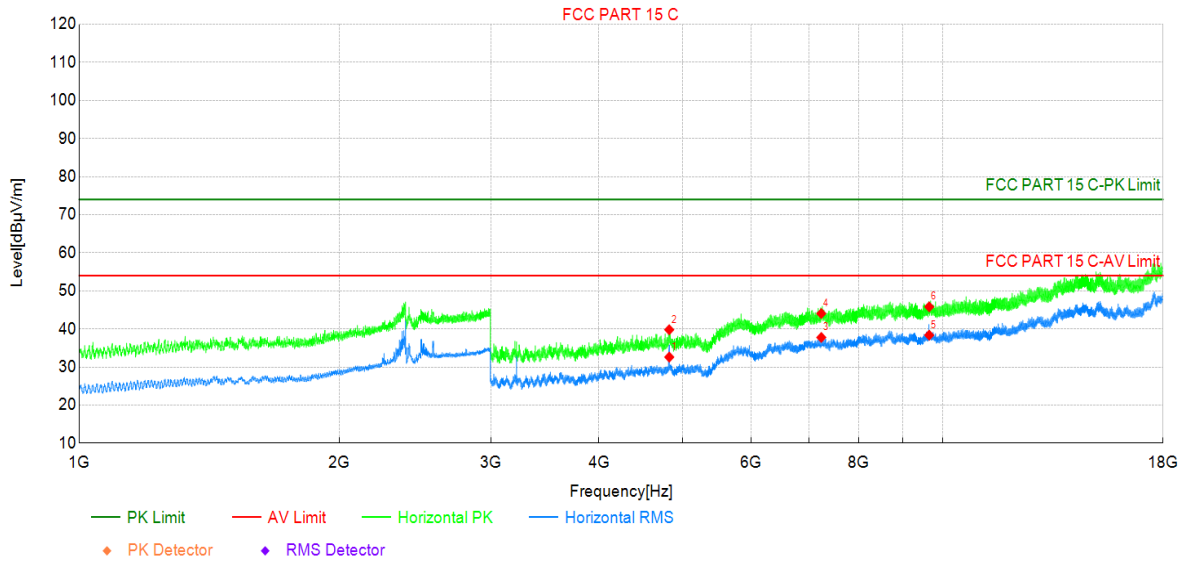
Mode (Main+Aux Antenna)	Channel	Test Frequency (MHz)	Conducted Peak Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 7	00	2402	4.78	5.74	⩽30	⩽36	PASS
	19	2440	5.01	5.97	⩽30	⩽36	PASS
	39	2480	6.37	7.33	⩽30	⩽36	PASS
Mode 8	00	2402	5.59	6.55	⩽30	⩽36	PASS
	19	2440	5.01	5.97	⩽30	⩽36	PASS
	39	2480	1.03	1.99	⩽30	⩽36	PASS
Note 1: EIRP Power = Conducted Power + Antenna gain							
Note 2: The Antenna gain please refer to clause 1.2							

Appendix B: Emissions in Restricted Band

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

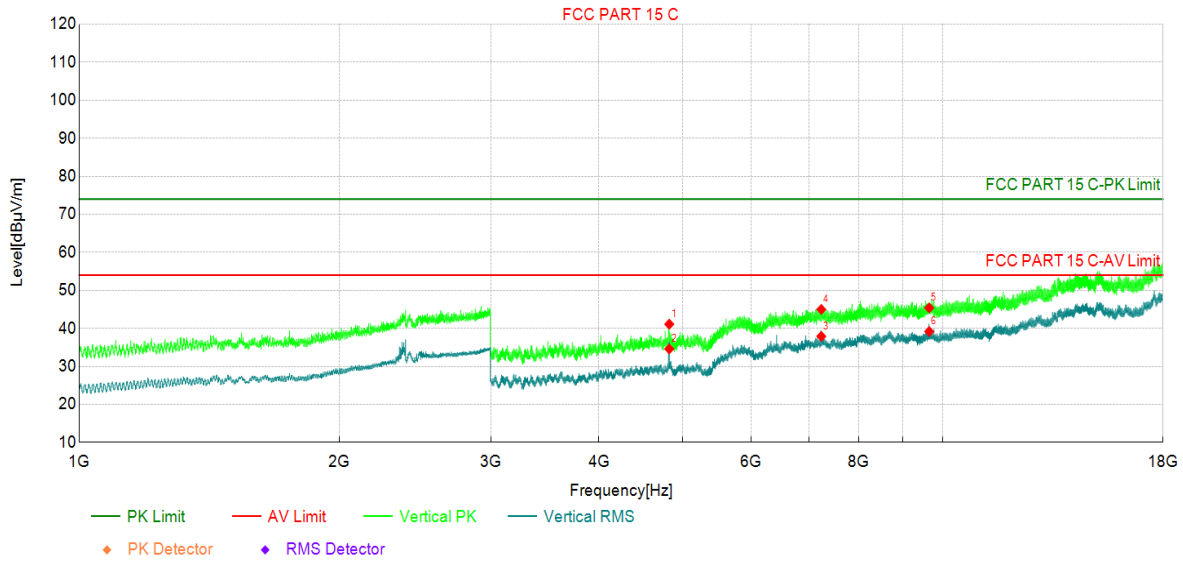
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	38.64	32.60	-6.04	54.00	21.40	RMS	Horizo	PASS
2	4824	45.83	39.79	-6.04	74.00	34.21	PK	Horizo	PASS
3	7236	34.80	37.77	2.97	54.00	16.23	RMS	Horizo	PASS
4	7236	41.08	44.05	2.97	74.00	29.95	PK	Horizo	PASS
5	9648	32.29	38.37	6.08	54.00	15.63	RMS	Horizo	PASS
6	9648	39.73	45.81	6.08	74.00	28.19	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



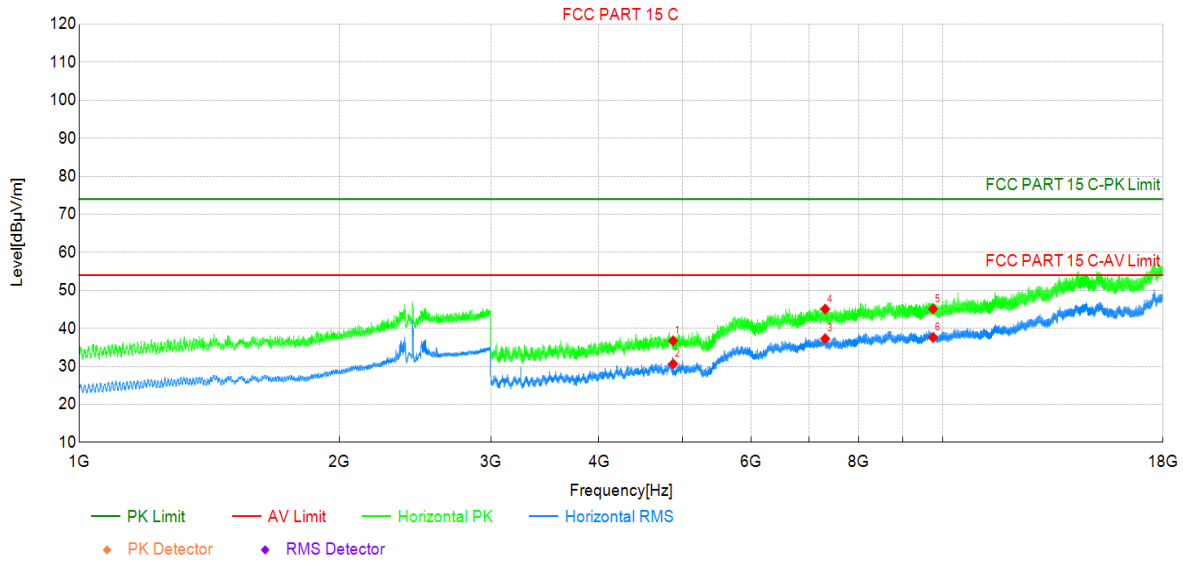
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	47.14	41.10	-6.04	74.00	32.90	PK	Vertic	PASS
2	4824	40.63	34.59	-6.04	54.00	19.41	RMS	Vertic	PASS
3	7236	34.93	37.90	2.97	54.00	16.10	RMS	Vertic	PASS
4	7236	42.02	44.99	2.97	74.00	29.01	PK	Vertic	PASS
5	9648	39.31	45.39	6.08	74.00	28.61	PK	Vertic	PASS
6	9648	33.10	39.18	6.08	54.00	14.82	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2437MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



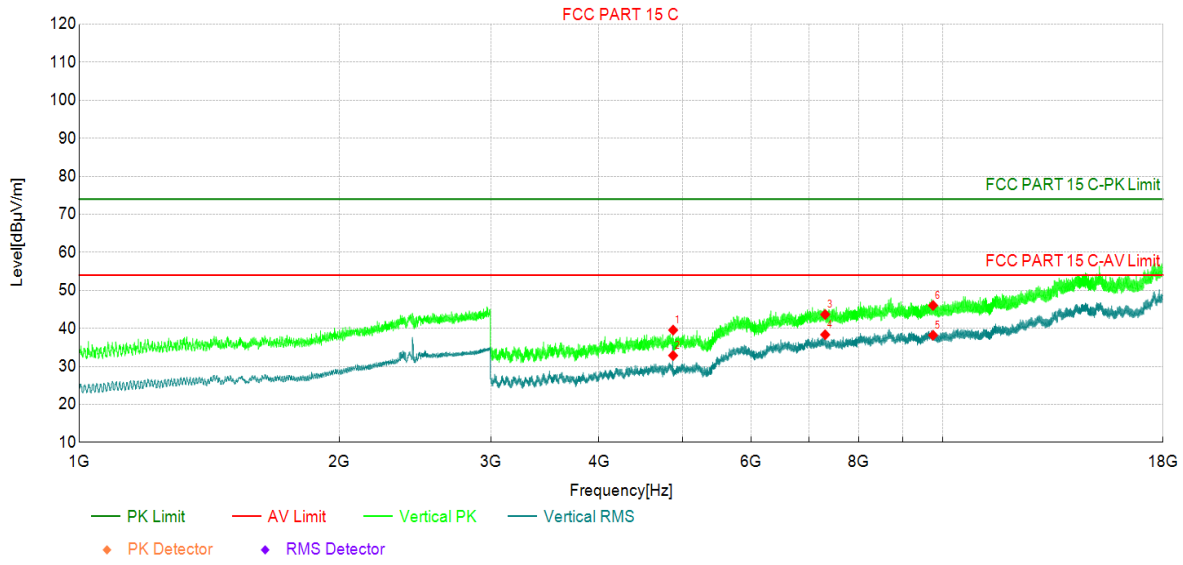
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	42.81	36.73	-6.08	74.00	37.27	PK	Horizo	PASS
2	4874	36.72	30.64	-6.08	54.00	23.36	RMS	Horizo	PASS
3	7311	34.43	37.30	2.87	54.00	16.70	RMS	Horizo	PASS
4	7311	42.21	45.08	2.87	74.00	28.92	PK	Horizo	PASS
5	9748	38.94	45.10	6.16	74.00	28.90	PK	Horizo	PASS
6	9748	31.44	37.60	6.16	54.00	16.40	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2437MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

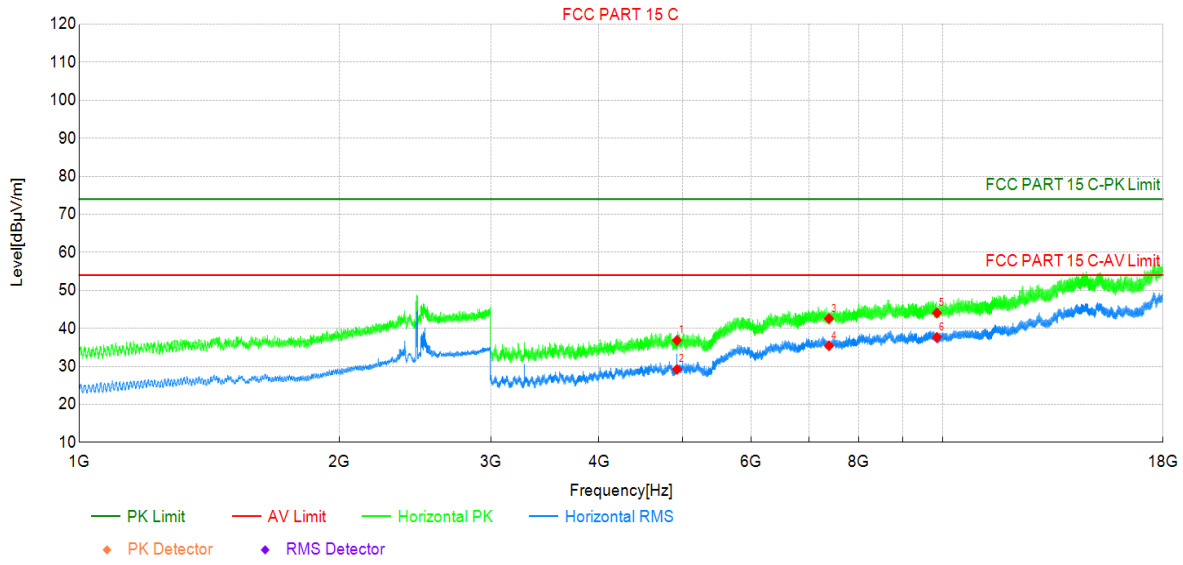
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	45.63	39.55	-6.08	74.00	34.45	PK	Vertic	PASS
2	4874	38.93	32.85	-6.08	54.00	21.15	RMS	Vertic	PASS
3	7311	40.77	43.64	2.87	74.00	30.36	PK	Vertic	PASS
4	7311	35.46	38.33	2.87	54.00	15.67	RMS	Vertic	PASS
5	9748	32.02	38.18	6.16	54.00	15.82	RMS	Vertic	PASS
6	9748	39.87	46.03	6.16	74.00	27.97	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



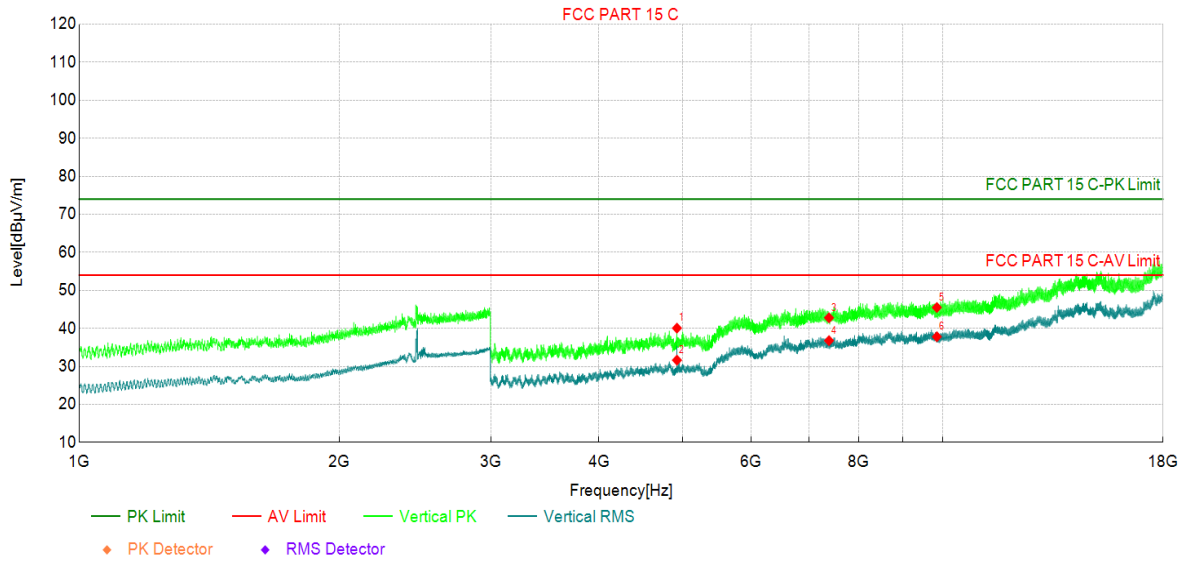
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	42.59	36.82	-5.77	74.00	37.18	PK	Horizo	PASS
2	4924	34.99	29.22	-5.77	54.00	24.78	RMS	Horizo	PASS
3	7386	40.27	42.57	2.30	74.00	31.43	PK	Horizo	PASS
4	7386	33.12	35.42	2.30	54.00	18.58	RMS	Horizo	PASS
5	9848	38.23	44.04	5.81	74.00	29.96	PK	Horizo	PASS
6	9848	31.84	37.65	5.81	54.00	16.35	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode1:Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



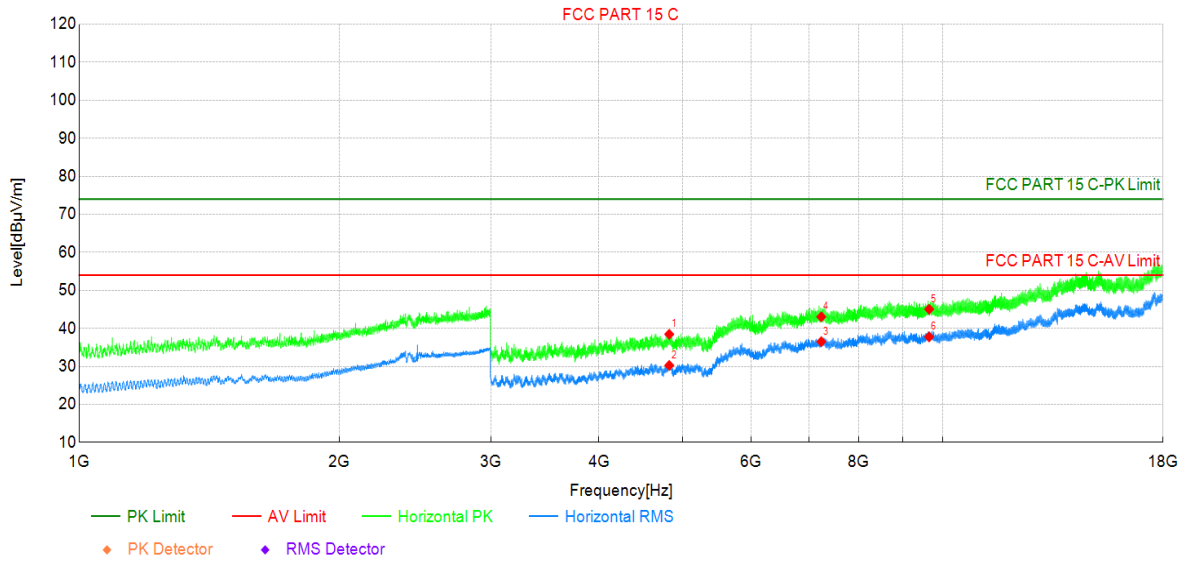
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	45.83	40.06	-5.77	74.00	33.94	PK	Vertic	PASS
2	4924	37.40	31.63	-5.77	54.00	22.37	RMS	Vertic	PASS
3	7386	40.48	42.78	2.30	74.00	31.22	PK	Vertic	PASS
4	7386	34.47	36.77	2.30	54.00	17.23	RMS	Vertic	PASS
5	9848	39.68	45.49	5.81	74.00	28.51	PK	Vertic	PASS
6	9848	31.99	37.80	5.81	54.00	16.20	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



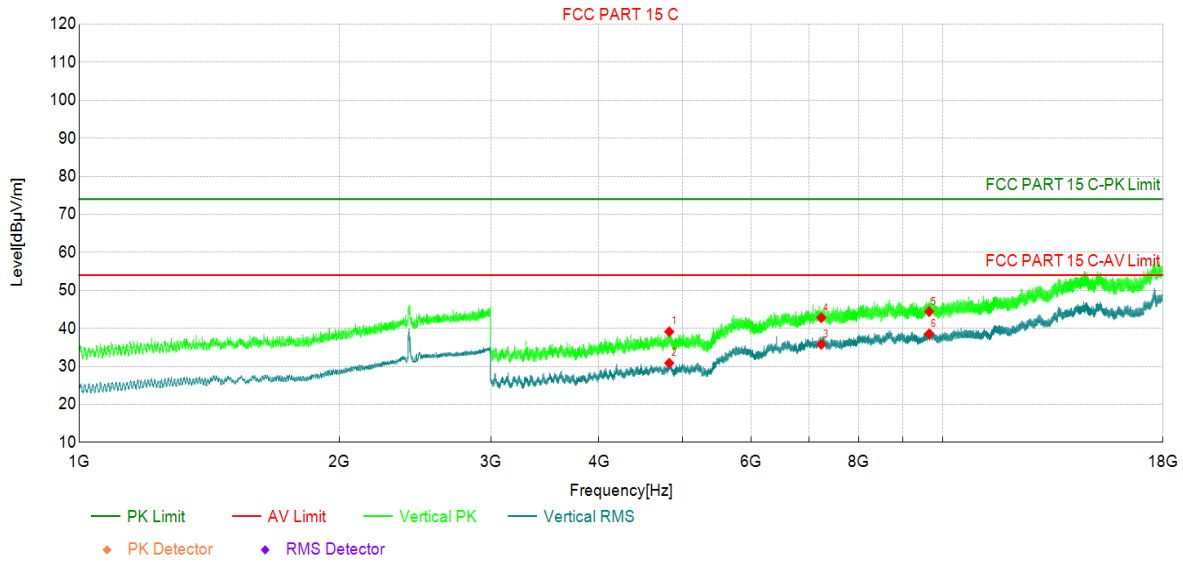
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	44.48	38.44	-6.04	74.00	35.56	PK	Horizo	PASS
2	4824	36.28	30.24	-6.04	54.00	23.76	RMS	Horizo	PASS
3	7236	33.53	36.50	2.97	54.00	17.50	RMS	Horizo	PASS
4	7236	40.07	43.04	2.97	74.00	30.96	PK	Horizo	PASS
5	9648	38.95	45.03	6.08	74.00	28.97	PK	Horizo	PASS
6	9648	31.68	37.76	6.08	54.00	16.24	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



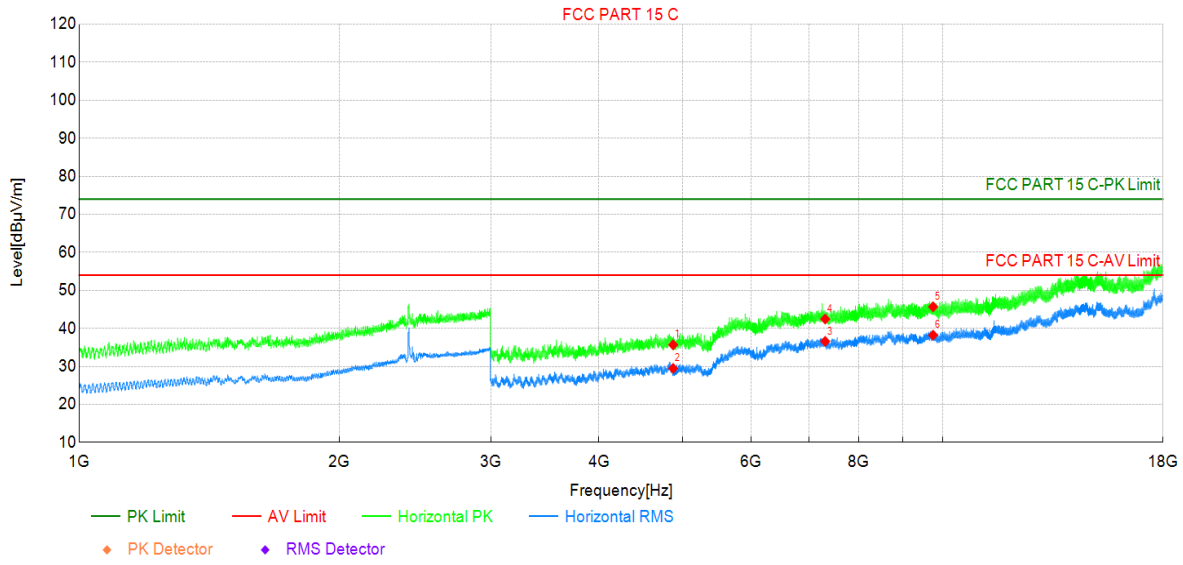
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	45.16	39.12	-6.04	74.00	34.88	PK	Vertic	PASS
2	4824	36.89	30.85	-6.04	54.00	23.15	RMS	Vertic	PASS
3	7236	32.81	35.78	2.97	54.00	18.22	RMS	Vertic	PASS
4	7236	39.82	42.79	2.97	74.00	31.21	PK	Vertic	PASS
5	9648	38.32	44.40	6.08	74.00	29.60	PK	Vertic	PASS
6	9648	32.48	38.56	6.08	54.00	15.44	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2437MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



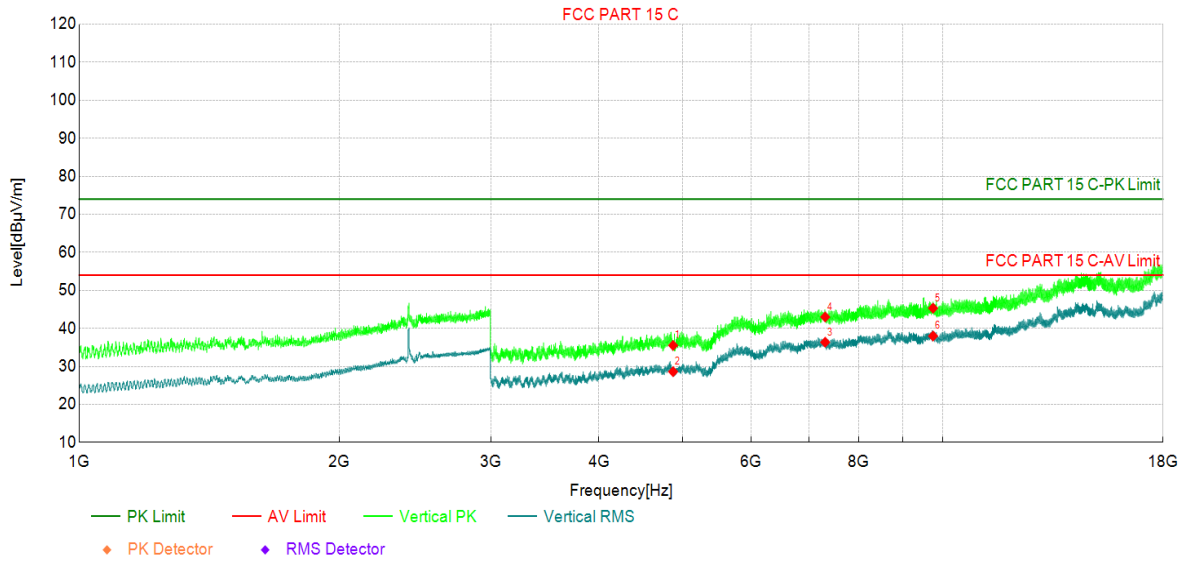
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	41.75	35.67	-6.08	74.00	38.33	PK	Horizo	PASS
2	4874	35.54	29.46	-6.08	54.00	24.54	RMS	Horizo	PASS
3	7311	33.70	36.57	2.87	54.00	17.43	RMS	Horizo	PASS
4	7311	39.58	42.45	2.87	74.00	31.55	PK	Horizo	PASS
5	9748	39.51	45.67	6.16	74.00	28.33	PK	Horizo	PASS
6	9748	32.05	38.21	6.16	54.00	15.79	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2437MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



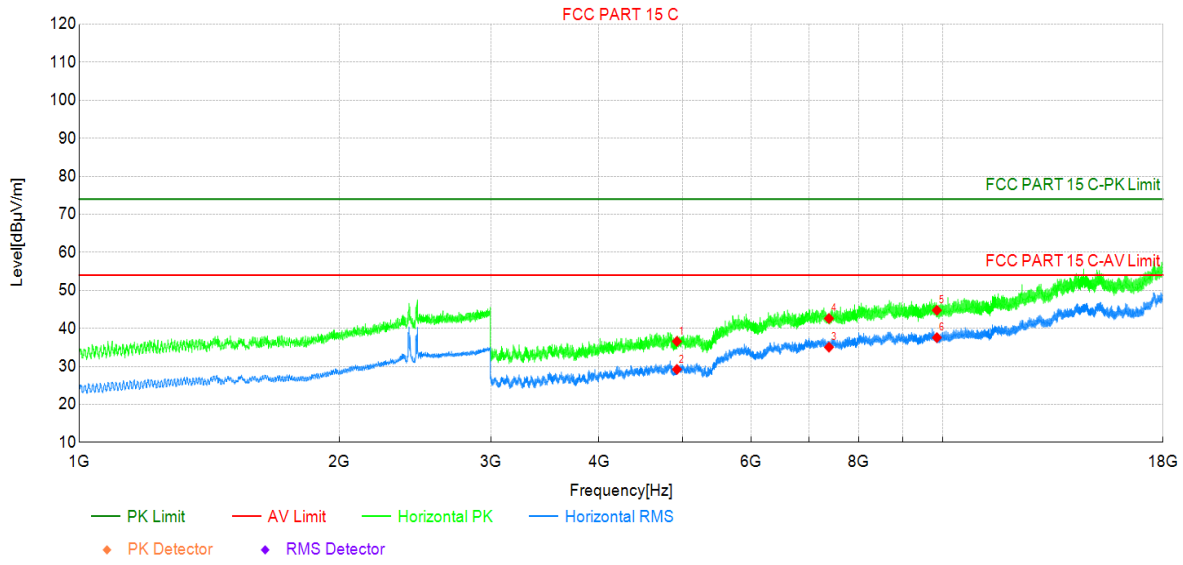
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	41.58	35.50	-6.08	74.00	38.50	PK	Vertic	PASS
2	4874	34.69	28.61	-6.08	54.00	25.39	RMS	Vertic	PASS
3	7311	33.48	36.35	2.87	54.00	17.65	RMS	Vertic	PASS
4	7311	40.13	43.00	2.87	74.00	31.00	PK	Vertic	PASS
5	9748	39.15	45.31	6.16	74.00	28.69	PK	Vertic	PASS
6	9748	31.82	37.98	6.16	54.00	16.02	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

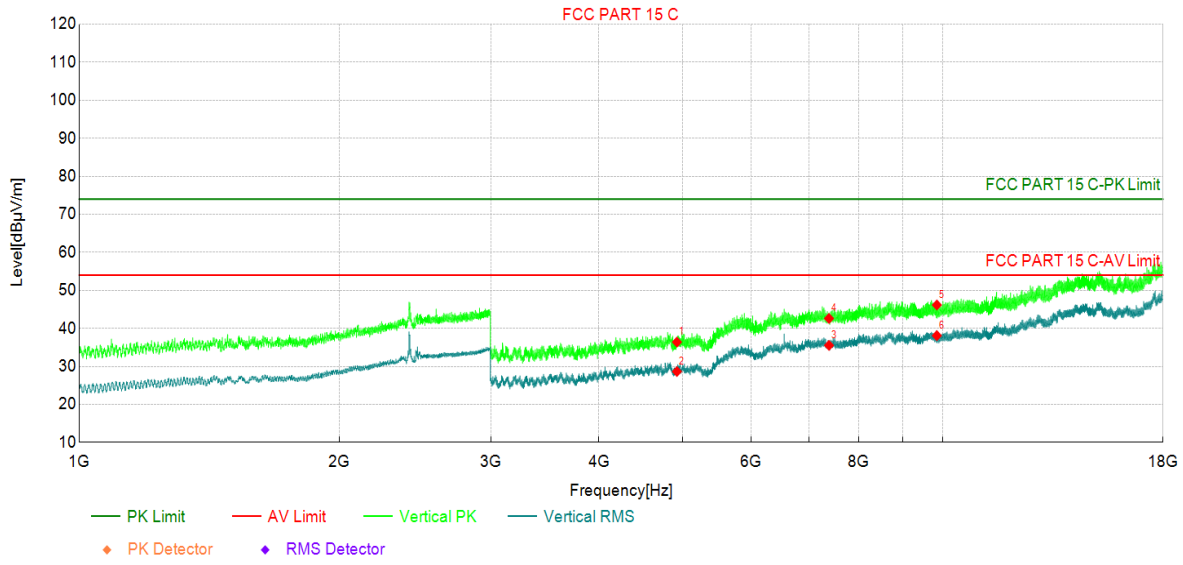
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	42.35	36.58	-5.77	74.00	37.42	PK	Horizo	PASS
2	4924	34.97	29.20	-5.77	54.00	24.80	RMS	Horizo	PASS
3	7386	32.74	35.04	2.30	54.00	18.96	RMS	Horizo	PASS
4	7386	40.30	42.60	2.30	74.00	31.40	PK	Horizo	PASS
5	9848	38.94	44.75	5.81	74.00	29.25	PK	Horizo	PASS
6	9848	31.75	37.56	5.81	54.00	16.44	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode2:Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



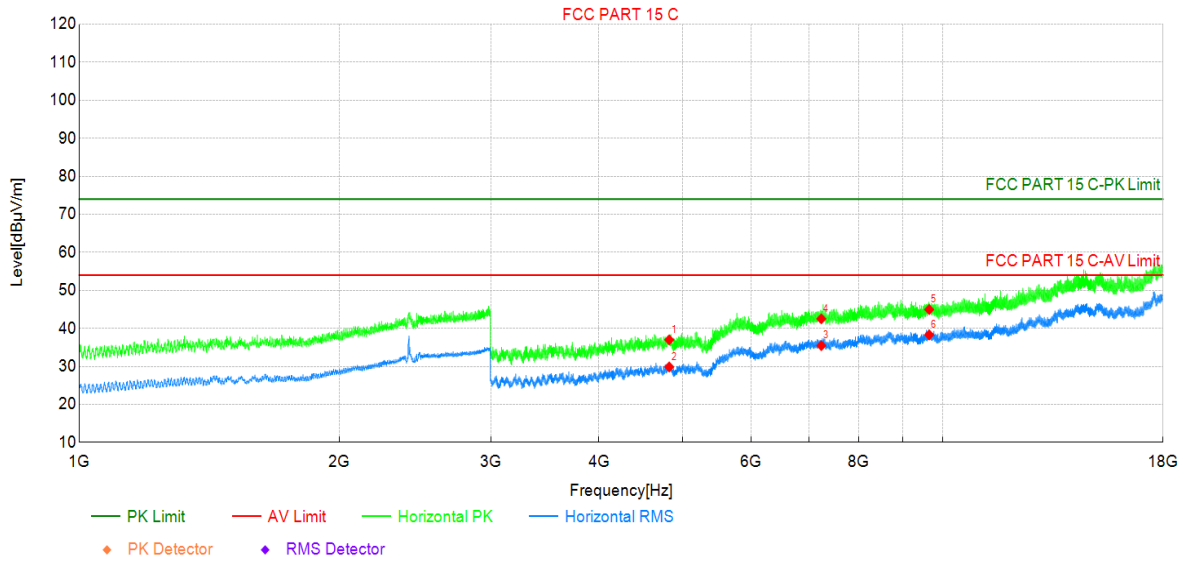
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	42.15	36.38	-5.77	74.00	37.62	PK	Vertic	PASS
2	4924	34.42	28.65	-5.77	54.00	25.35	RMS	Vertic	PASS
3	7386	33.22	35.52	2.30	54.00	18.48	RMS	Vertic	PASS
4	7386	40.31	42.61	2.30	74.00	31.39	PK	Vertic	PASS
5	9848	40.34	46.15	5.81	74.00	27.85	PK	Vertic	PASS
6	9848	32.28	38.09	5.81	54.00	15.91	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



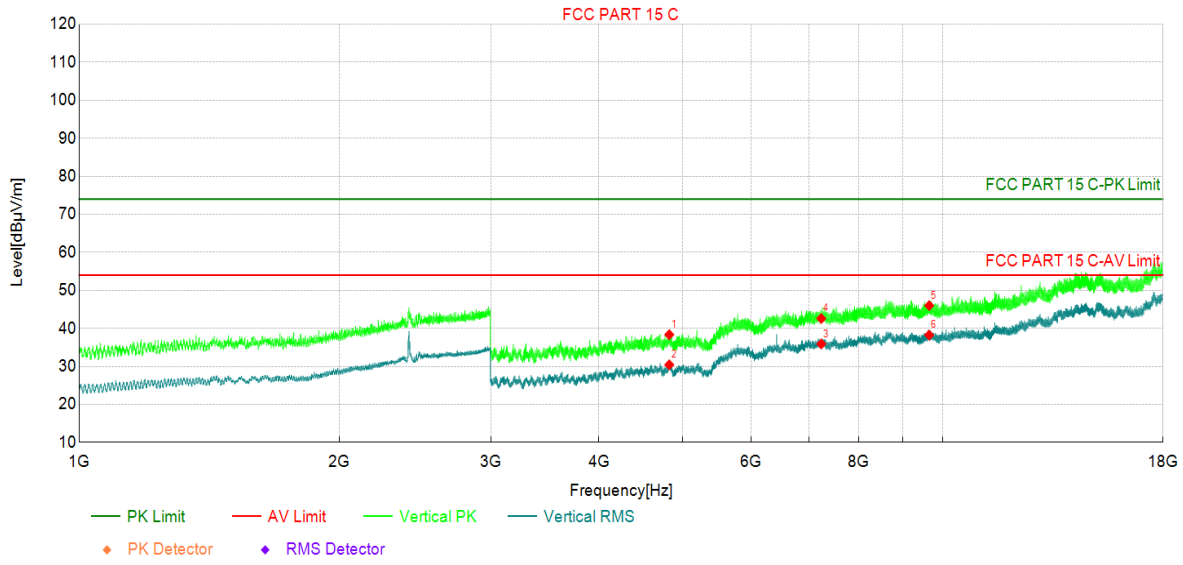
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	43.01	36.97	-6.04	74.00	37.03	PK	Horizo	PASS
2	4824	35.89	29.85	-6.04	54.00	24.15	RMS	Horizo	PASS
3	7236	32.48	35.45	2.97	54.00	18.55	RMS	Horizo	PASS
4	7236	39.54	42.51	2.97	74.00	31.49	PK	Horizo	PASS
5	9648	38.86	44.94	6.08	74.00	29.06	PK	Horizo	PASS
6	9648	32.22	38.30	6.08	54.00	15.70	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



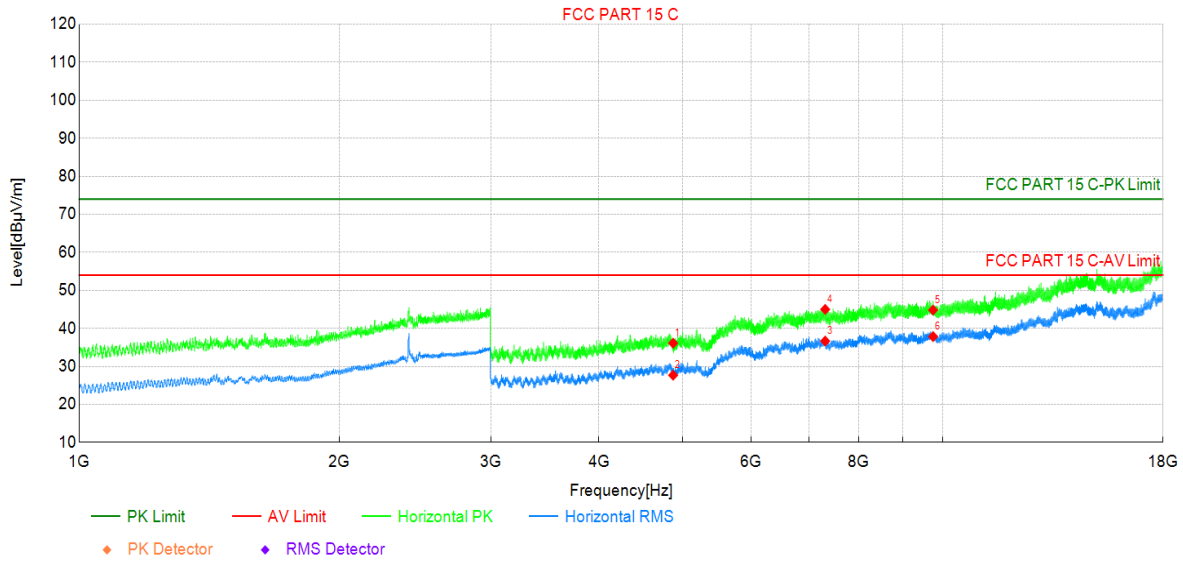
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	44.37	38.33	-6.04	74.00	35.67	PK	Vertic	PASS
2	4824	36.46	30.42	-6.04	54.00	23.58	RMS	Vertic	PASS
3	7236	32.92	35.89	2.97	54.00	18.11	RMS	Vertic	PASS
4	7236	39.62	42.59	2.97	74.00	31.41	PK	Vertic	PASS
5	9648	39.91	45.99	6.08	74.00	28.01	PK	Vertic	PASS
6	9648	32.15	38.23	6.08	54.00	15.77	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2437MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



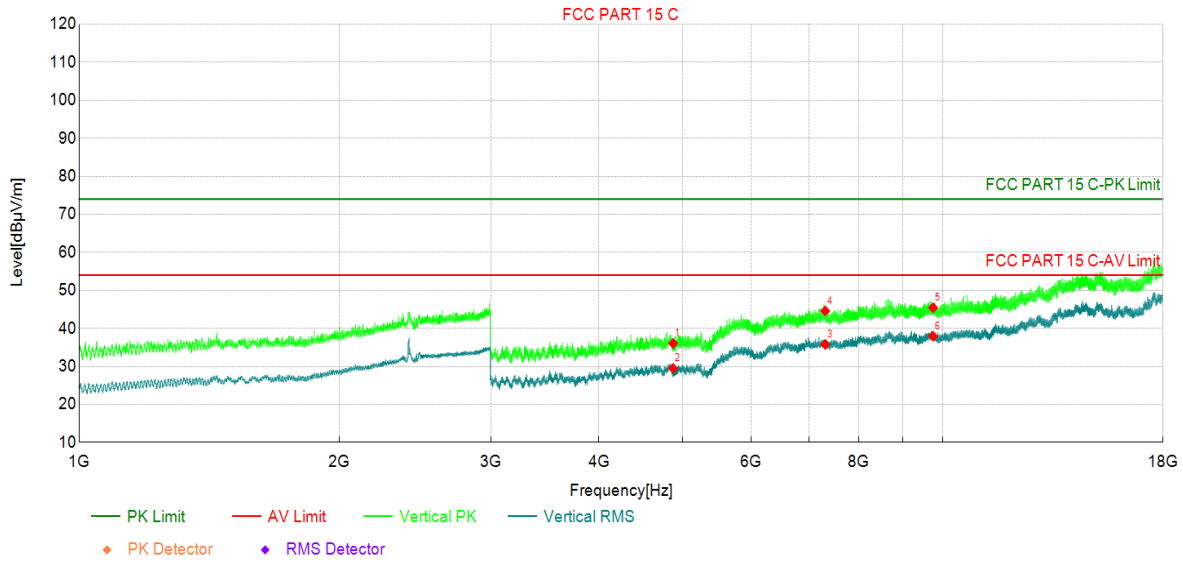
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	42.19	36.11	-6.08	74.00	37.89	PK	Horizo	PASS
2	4874	33.75	27.67	-6.08	54.00	26.33	RMS	Horizo	PASS
3	7311	33.79	36.66	2.87	54.00	17.34	RMS	Horizo	PASS
4	7311	42.11	44.98	2.87	74.00	29.02	PK	Horizo	PASS
5	9748	38.65	44.81	6.16	74.00	29.19	PK	Horizo	PASS
6	9748	31.68	37.84	6.16	54.00	16.16	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2437MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

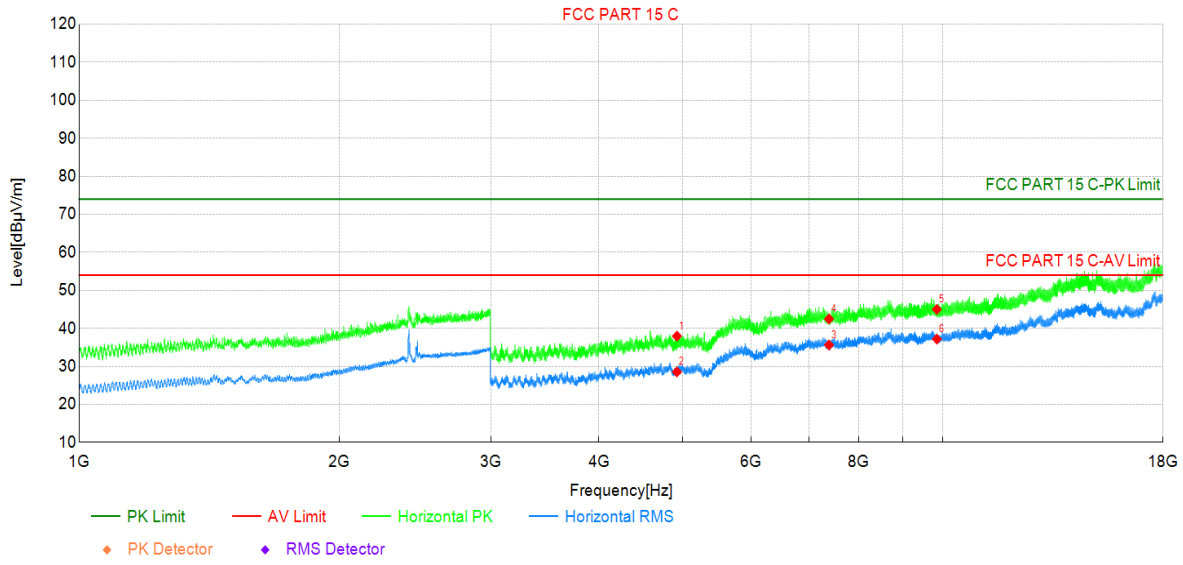
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	42.12	36.04	-6.08	74.00	37.96	PK	Vertic	PASS
2	4874	35.55	29.47	-6.08	54.00	24.53	RMS	Vertic	PASS
3	7311	32.90	35.77	2.87	54.00	18.23	RMS	Vertic	PASS
4	7311	41.73	44.60	2.87	74.00	29.40	PK	Vertic	PASS
5	9748	39.26	45.42	6.16	74.00	28.58	PK	Vertic	PASS
6	9748	31.78	37.94	6.16	54.00	16.06	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



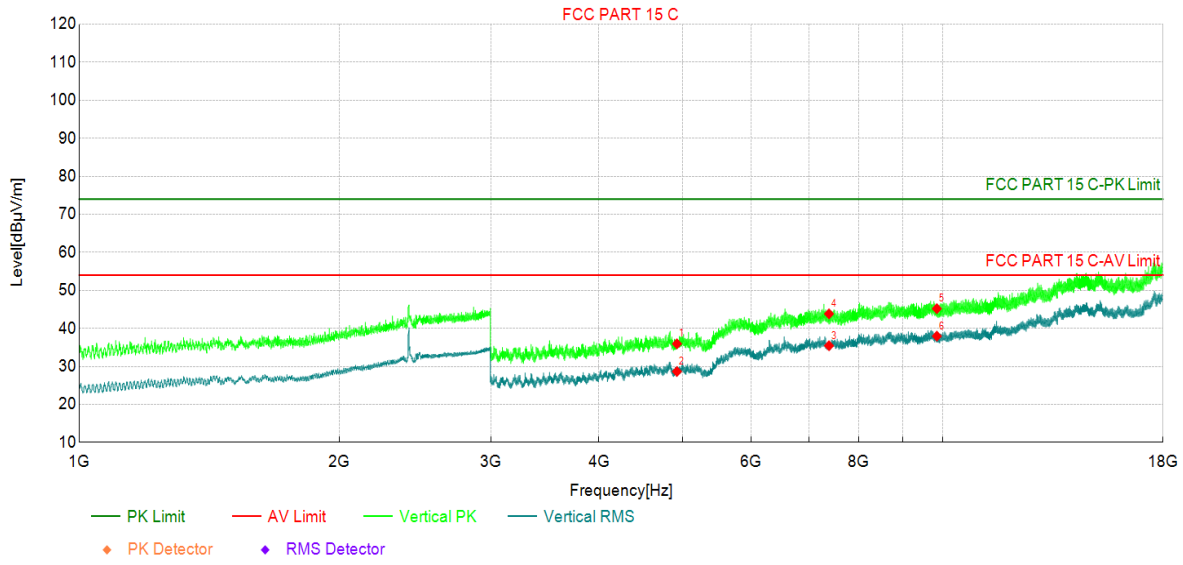
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	43.72	37.95	-5.77	74.00	36.05	PK	Horizo	PASS
2	4924	34.31	28.54	-5.77	54.00	25.46	RMS	Horizo	PASS
3	7386	33.33	35.63	2.30	54.00	18.37	RMS	Horizo	PASS
4	7386	40.18	42.48	2.30	74.00	31.52	PK	Horizo	PASS
5	9848	39.17	44.98	5.81	74.00	29.02	PK	Horizo	PASS
6	9848	31.37	37.18	5.81	54.00	16.82	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode3:Transmit at 2462MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

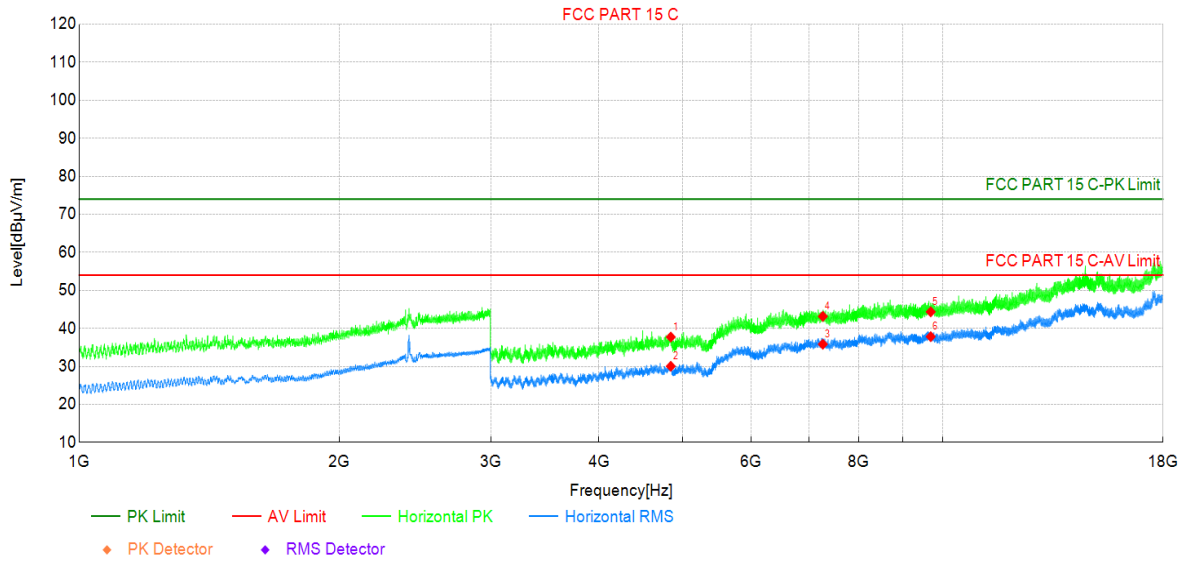
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	41.70	35.93	-5.77	74.00	38.07	PK	Vertic	PASS
2	4924	34.42	28.65	-5.77	54.00	25.35	RMS	Vertic	PASS
3	7386	33.13	35.43	2.30	54.00	18.57	RMS	Vertic	PASS
4	7386	41.52	43.82	2.30	74.00	30.18	PK	Vertic	PASS
5	9848	39.37	45.18	5.81	74.00	28.82	PK	Vertic	PASS
6	9848	32.14	37.95	5.81	54.00	16.05	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



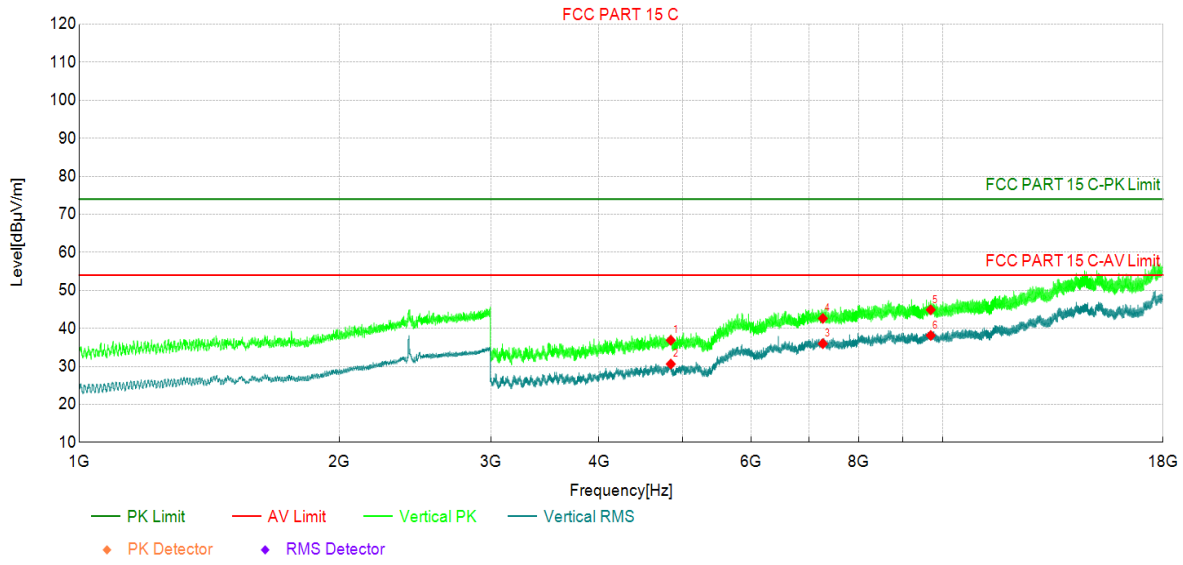
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	43.77	37.71	-6.06	74.00	36.29	PK	Horizo	PASS
2	4844	36.09	30.03	-6.06	54.00	23.97	RMS	Horizo	PASS
3	7266	32.87	35.83	2.96	54.00	18.17	RMS	Horizo	PASS
4	7266	40.19	43.15	2.96	74.00	30.85	PK	Horizo	PASS
5	9688	38.13	44.35	6.22	74.00	29.65	PK	Horizo	PASS
6	9688	31.60	37.82	6.22	54.00	16.18	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2422MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



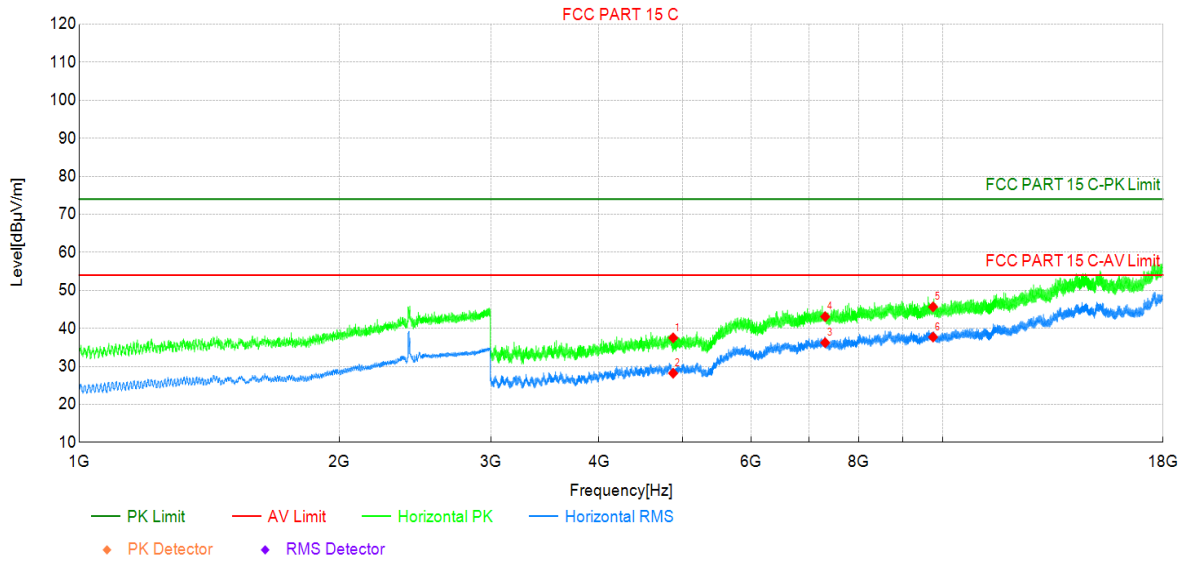
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	42.93	36.87	-6.06	74.00	37.13	PK	Vertic	PASS
2	4844	36.67	30.61	-6.06	54.00	23.39	RMS	Vertic	PASS
3	7266	33.01	35.97	2.96	54.00	18.03	RMS	Vertic	PASS
4	7266	39.66	42.62	2.96	74.00	31.38	PK	Vertic	PASS
5	9688	38.66	44.88	6.22	74.00	29.12	PK	Vertic	PASS
6	9688	31.92	38.14	6.22	54.00	15.86	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2437MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

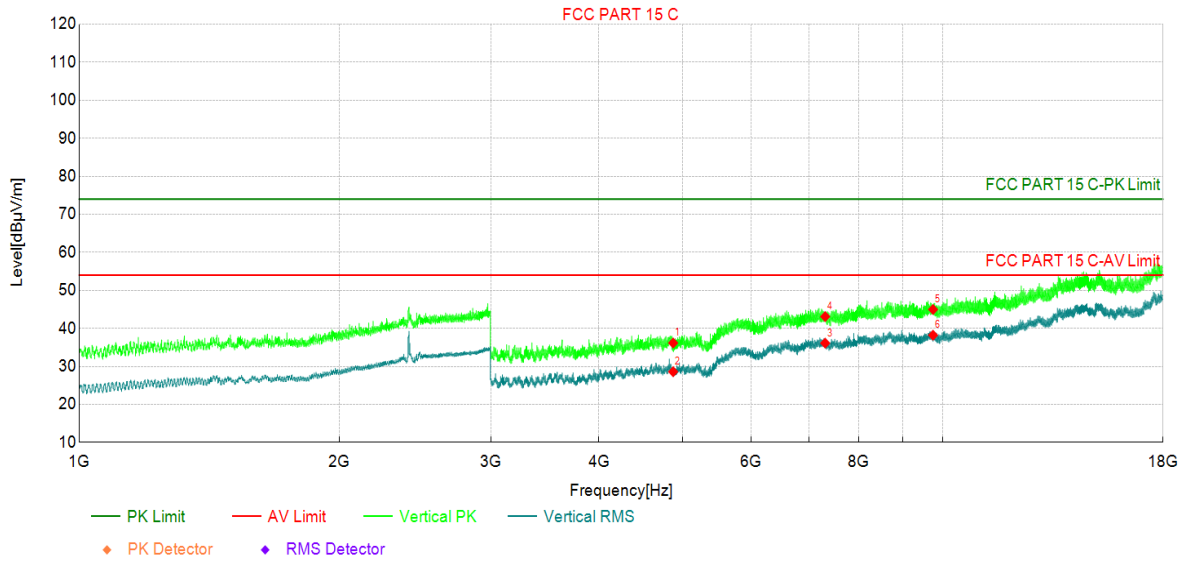
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	43.58	37.50	-6.08	74.00	36.50	PK	Horizo	PASS
2	4874	34.27	28.19	-6.08	54.00	25.81	RMS	Horizo	PASS
3	7311	33.36	36.23	2.87	54.00	17.77	RMS	Horizo	PASS
4	7311	40.21	43.08	2.87	74.00	30.92	PK	Horizo	PASS
5	9748	39.49	45.65	6.16	74.00	28.35	PK	Horizo	PASS
6	9748	31.55	37.71	6.16	54.00	16.29	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2437MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



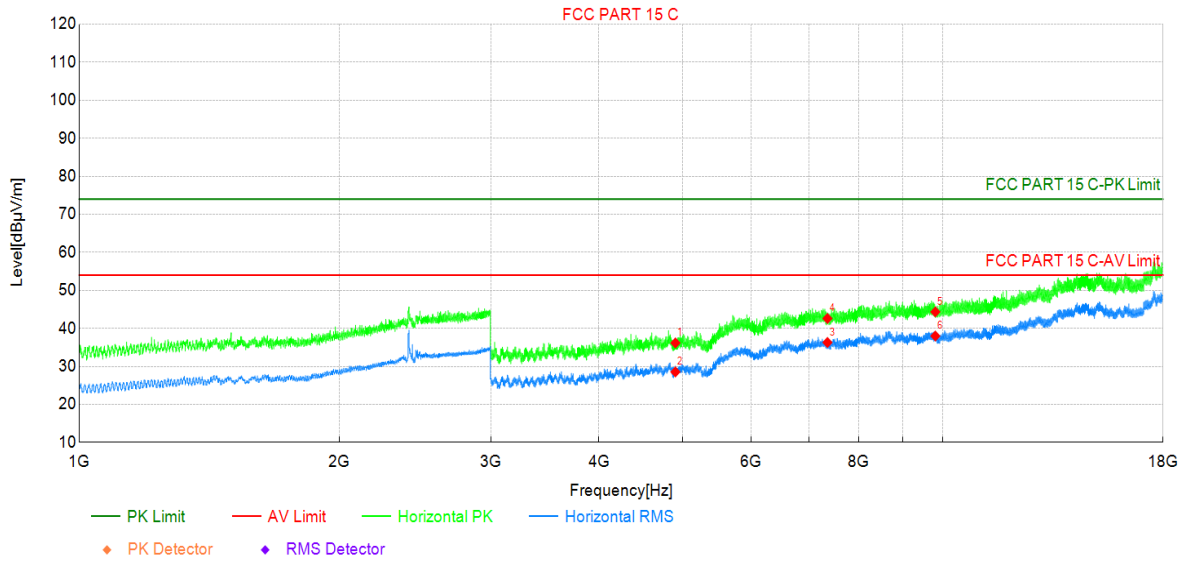
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	42.23	36.15	-6.08	74.00	37.85	PK	Vertic	PASS
2	4874	34.68	28.60	-6.08	54.00	25.40	RMS	Vertic	PASS
3	7311	33.24	36.11	2.87	54.00	17.89	RMS	Vertic	PASS
4	7311	40.23	43.10	2.87	74.00	30.90	PK	Vertic	PASS
5	9748	38.81	44.97	6.16	74.00	29.03	PK	Vertic	PASS
6	9748	32.04	38.20	6.16	54.00	15.80	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



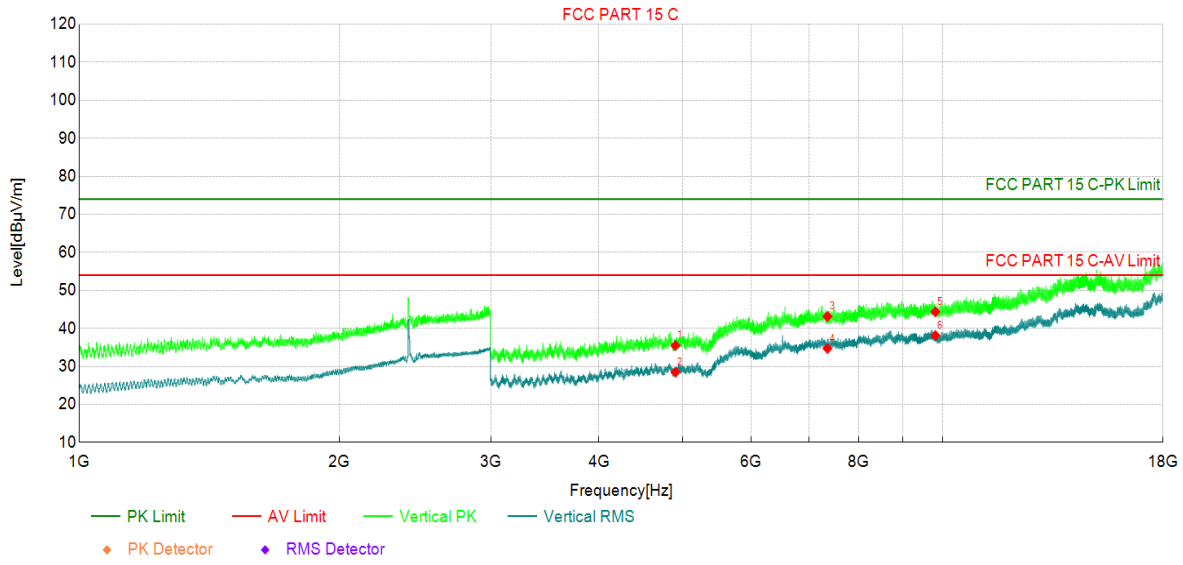
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	42.20	36.16	-6.04	74.00	37.84	PK	Horizo	PASS
2	4904	34.58	28.54	-6.04	54.00	25.46	RMS	Horizo	PASS
3	7356	33.76	36.29	2.53	54.00	17.71	RMS	Horizo	PASS
4	7356	40.07	42.60	2.53	74.00	31.40	PK	Horizo	PASS
5	9808	38.34	44.34	6.00	74.00	29.66	PK	Horizo	PASS
6	9808	31.98	37.98	6.00	54.00	16.02	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode4:Transmit at 2452MHz by 802.11n(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



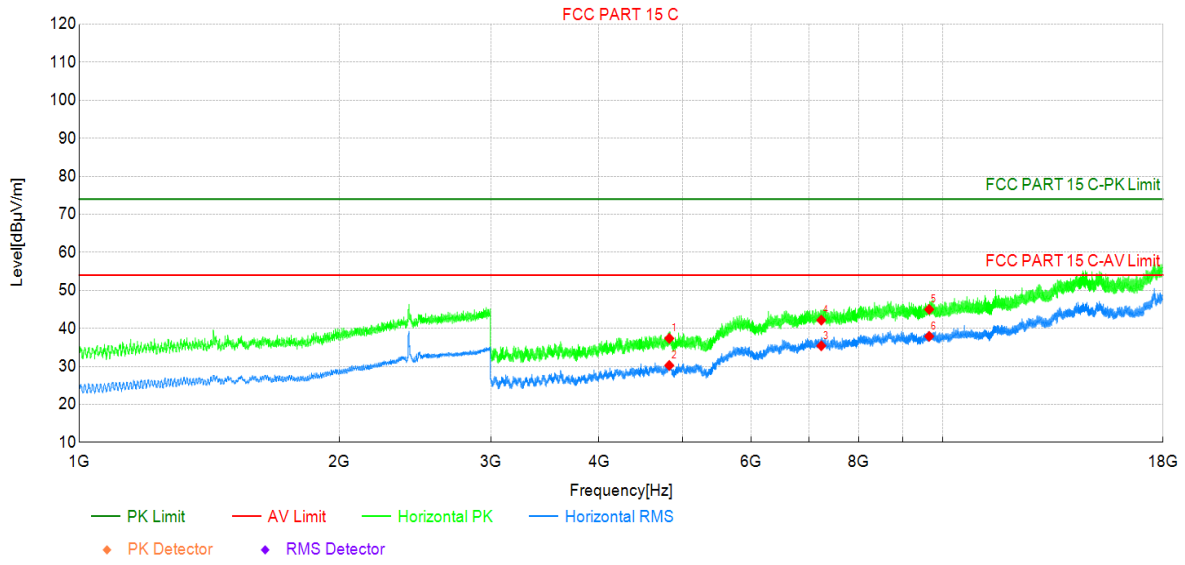
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	41.52	35.48	-6.04	74.00	38.52	PK	Vertic	PASS
2	4904	34.51	28.47	-6.04	54.00	25.53	RMS	Vertic	PASS
3	7356	40.61	43.14	2.53	74.00	30.86	PK	Vertic	PASS
4	7356	32.18	34.71	2.53	54.00	19.29	RMS	Vertic	PASS
5	9808	38.35	44.35	6.00	74.00	29.65	PK	Vertic	PASS
6	9808	32.11	38.11	6.00	54.00	15.89	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



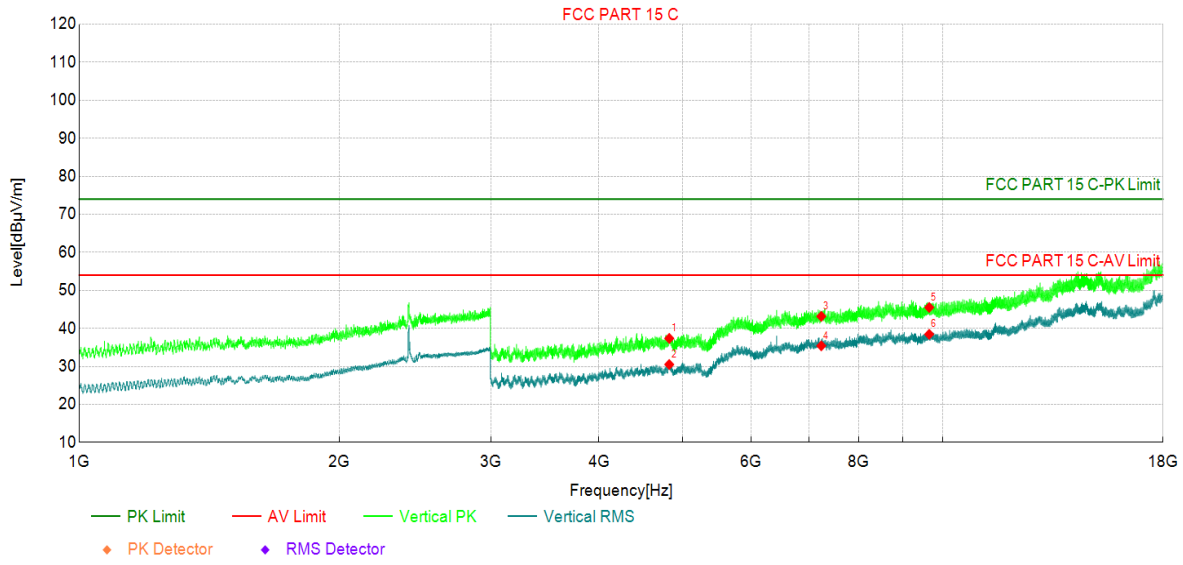
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	43.40	37.36	-6.04	74.00	36.64	PK	Horizo	PASS
2	4824	36.28	30.24	-6.04	54.00	23.76	RMS	Horizo	PASS
3	7236	32.43	35.40	2.97	54.00	18.60	RMS	Horizo	PASS
4	7236	39.19	42.16	2.97	74.00	31.84	PK	Horizo	PASS
5	9648	38.91	44.99	6.08	74.00	29.01	PK	Horizo	PASS
6	9648	31.82	37.90	6.08	54.00	16.10	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



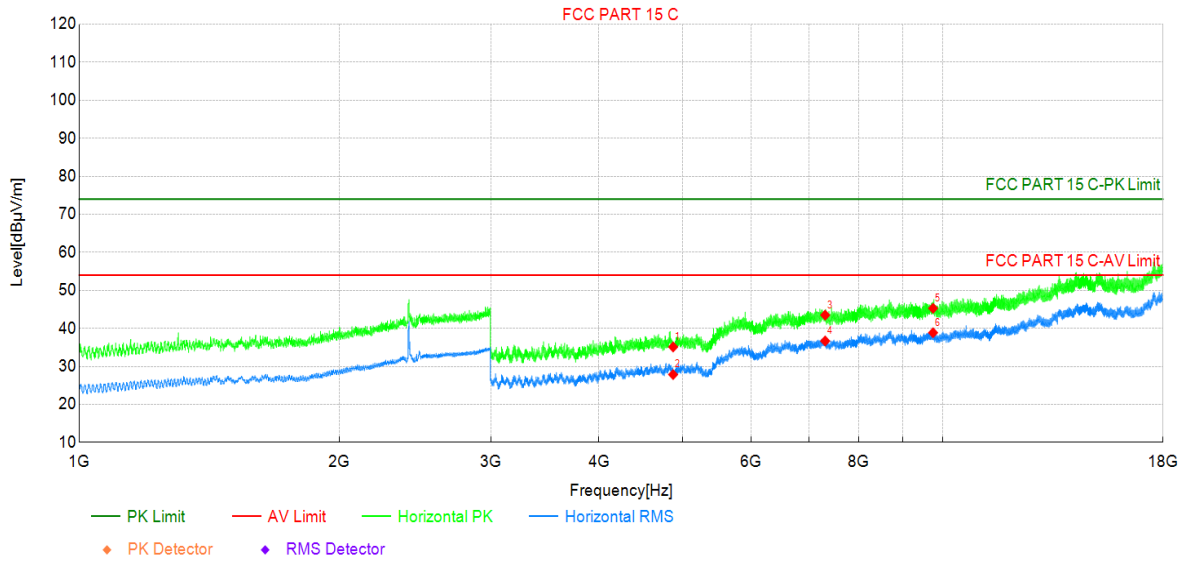
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4824	43.39	37.35	-6.04	74.00	36.65	PK	Vertic	PASS
2	4824	36.53	30.49	-6.04	54.00	23.51	RMS	Vertic	PASS
3	7236	40.19	43.16	2.97	74.00	30.84	PK	Vertic	PASS
4	7236	32.43	35.40	2.97	54.00	18.60	RMS	Vertic	PASS
5	9648	39.42	45.50	6.08	74.00	28.50	PK	Vertic	PASS
6	9648	32.36	38.44	6.08	54.00	15.56	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2437MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



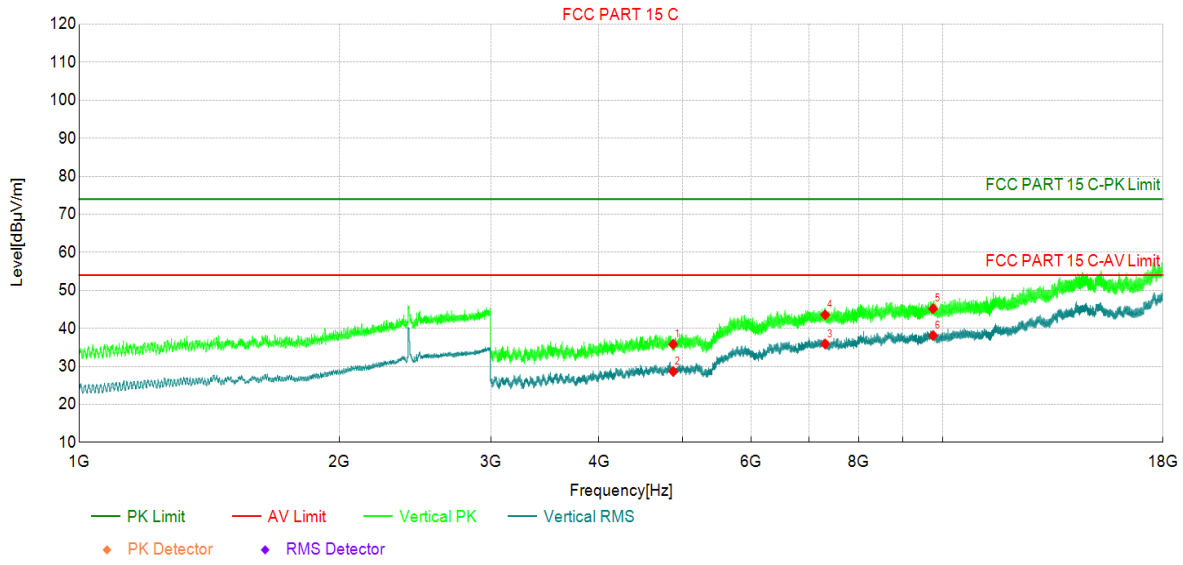
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	41.19	35.11	-6.08	74.00	38.89	PK	Horizo	PASS
2	4874	33.92	27.84	-6.08	54.00	26.16	RMS	Horizo	PASS
3	7311	40.62	43.49	2.87	74.00	30.51	PK	Horizo	PASS
4	7311	33.81	36.68	2.87	54.00	17.32	RMS	Horizo	PASS
5	9748	39.11	45.27	6.16	74.00	28.73	PK	Horizo	PASS
6	9748	32.69	38.85	6.16	54.00	15.15	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2437MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



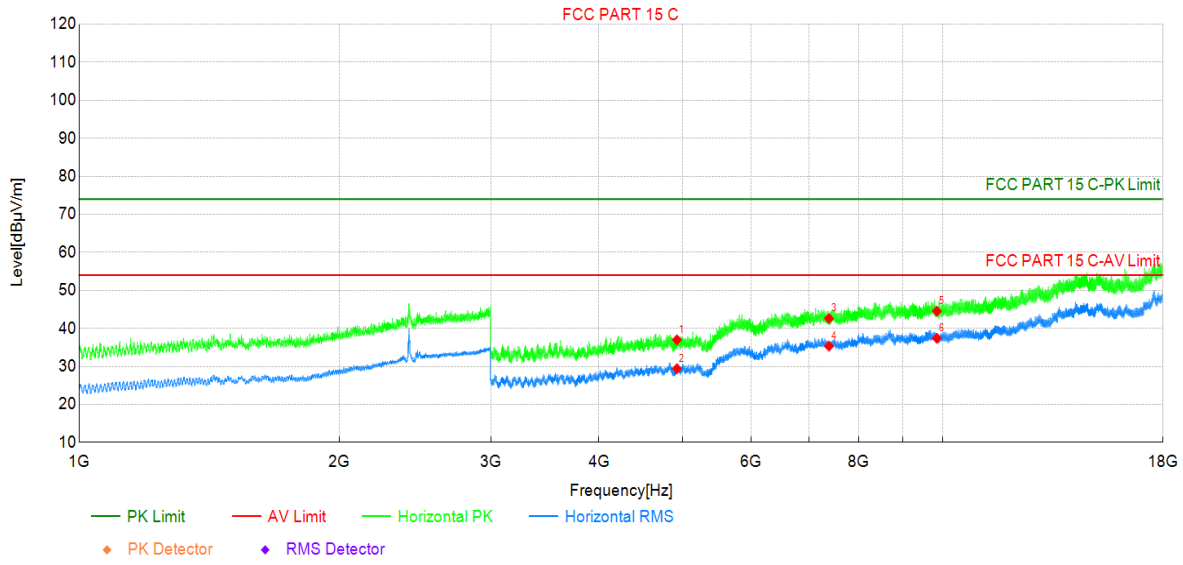
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	41.89	35.81	-6.08	74.00	38.19	PK	Vertic	PASS
2	4874	34.77	28.69	-6.08	54.00	25.31	RMS	Vertic	PASS
3	7311	33.02	35.89	2.87	54.00	18.11	RMS	Vertic	PASS
4	7311	40.70	43.57	2.87	74.00	30.43	PK	Vertic	PASS
5	9748	39.00	45.16	6.16	74.00	28.84	PK	Vertic	PASS
6	9748	31.97	38.13	6.16	54.00	15.87	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

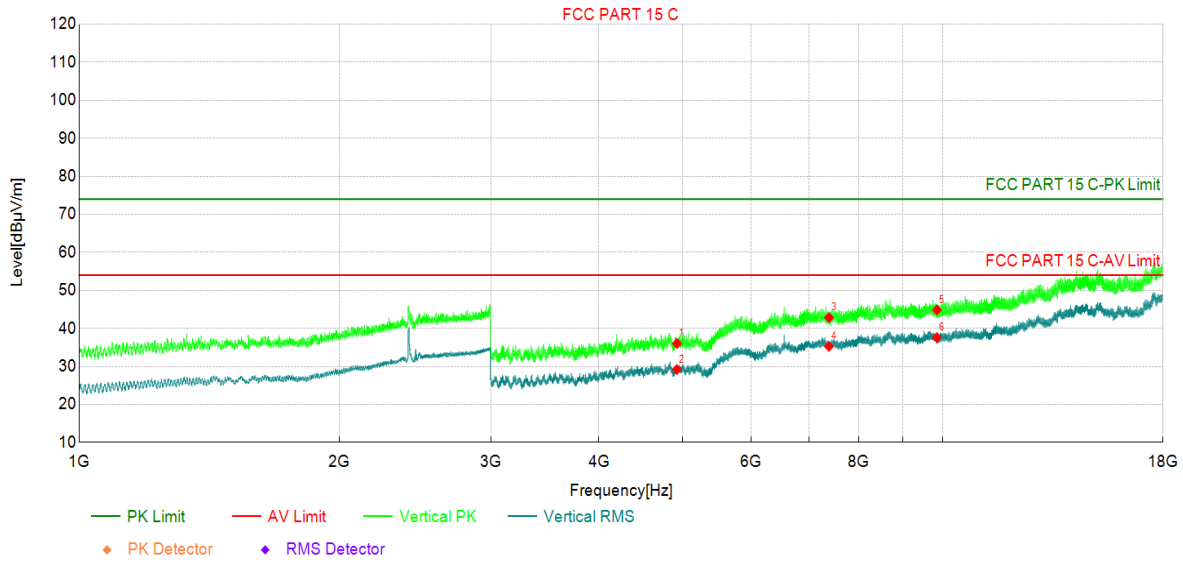
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	42.75	36.98	-5.77	74.00	37.02	PK	Horizo	PASS
2	4924	35.17	29.40	-5.77	54.00	24.60	RMS	Horizo	PASS
3	7386	40.31	42.61	2.30	74.00	31.39	PK	Horizo	PASS
4	7386	33.04	35.34	2.30	54.00	18.66	RMS	Horizo	PASS
5	9848	38.71	44.52	5.81	74.00	29.48	PK	Horizo	PASS
6	9848	31.58	37.39	5.81	54.00	16.61	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode5:Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



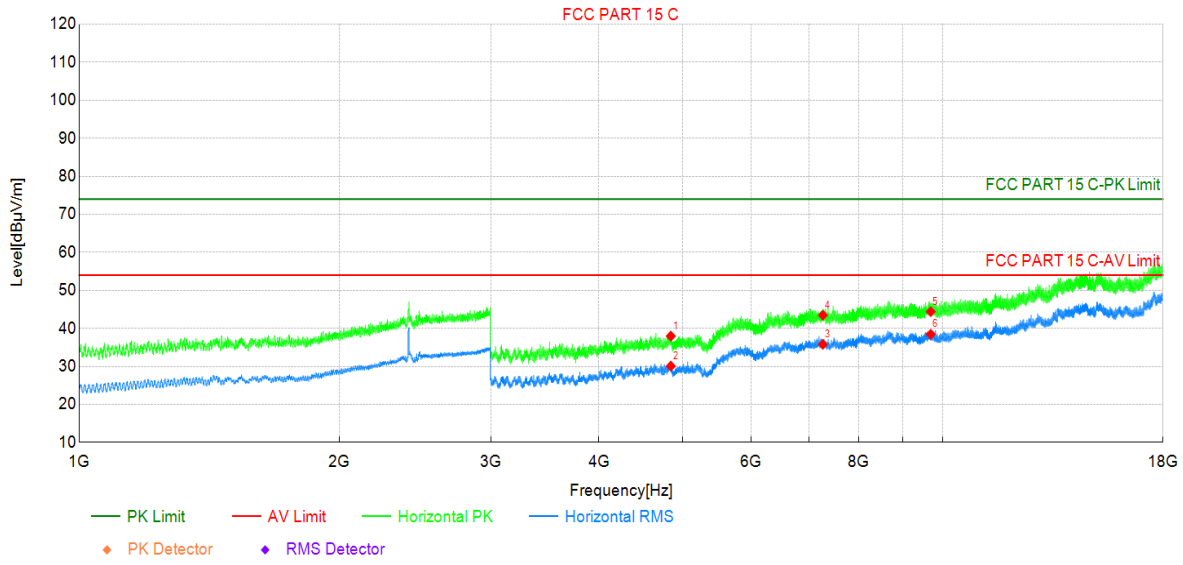
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4924	41.78	36.01	-5.77	74.00	37.99	PK	Vertic	PASS
2	4924	34.95	29.18	-5.77	54.00	24.82	RMS	Vertic	PASS
3	7386	40.53	42.83	2.30	74.00	31.17	PK	Vertic	PASS
4	7386	32.96	35.26	2.30	54.00	18.74	RMS	Vertic	PASS
5	9848	39.05	44.86	5.81	74.00	29.14	PK	Vertic	PASS
6	9848	31.77	37.58	5.81	54.00	16.42	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2422MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



Suspected Data List

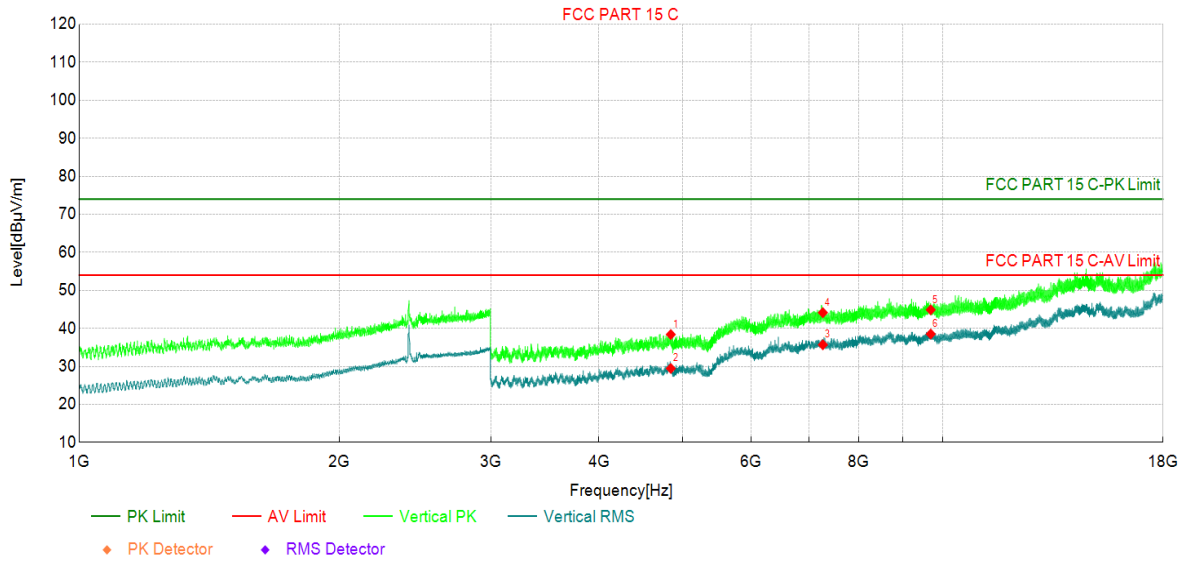
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	44.02	37.96	-6.06	74.00	36.04	PK	Horizo	PASS
2	4844	36.13	30.07	-6.06	54.00	23.93	RMS	Horizo	PASS
3	7266	32.82	35.78	2.96	54.00	18.22	RMS	Horizo	PASS
4	7266	40.51	43.47	2.96	74.00	30.53	PK	Horizo	PASS
5	9688	38.17	44.39	6.22	74.00	29.61	PK	Horizo	PASS
6	9688	32.21	38.43	6.22	54.00	15.57	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2422MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



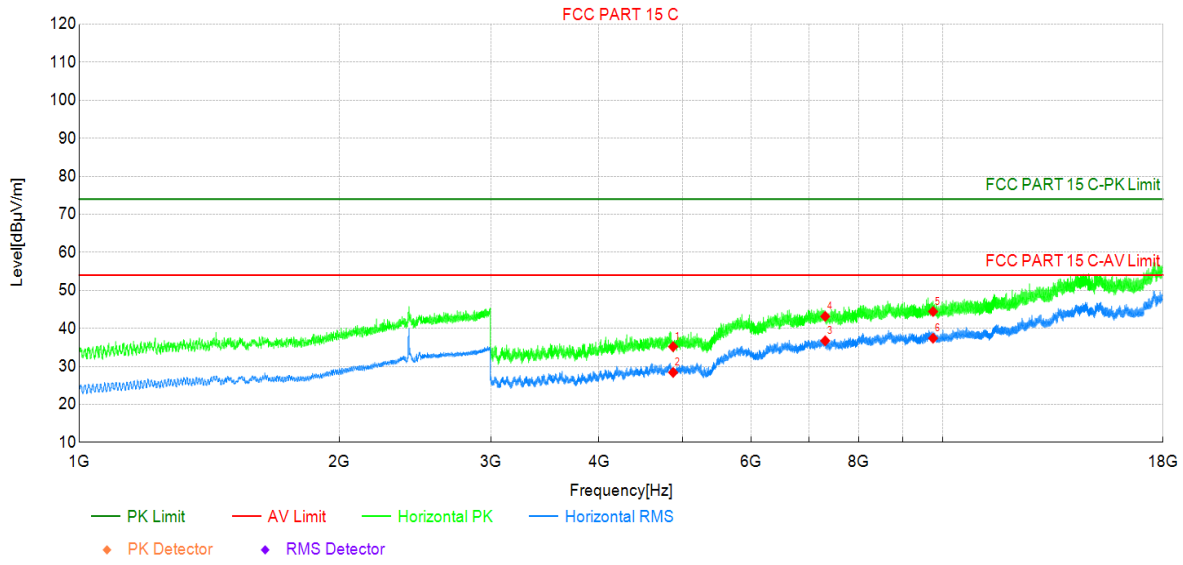
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4844	44.44	38.38	-6.06	74.00	35.62	PK	Vertic	PASS
2	4844	35.50	29.44	-6.06	54.00	24.56	RMS	Vertic	PASS
3	7266	32.73	35.69	2.96	54.00	18.31	RMS	Vertic	PASS
4	7266	41.17	44.13	2.96	74.00	29.87	PK	Vertic	PASS
5	9688	38.66	44.88	6.22	74.00	29.12	PK	Vertic	PASS
6	9688	32.29	38.51	6.22	54.00	15.49	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2437MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



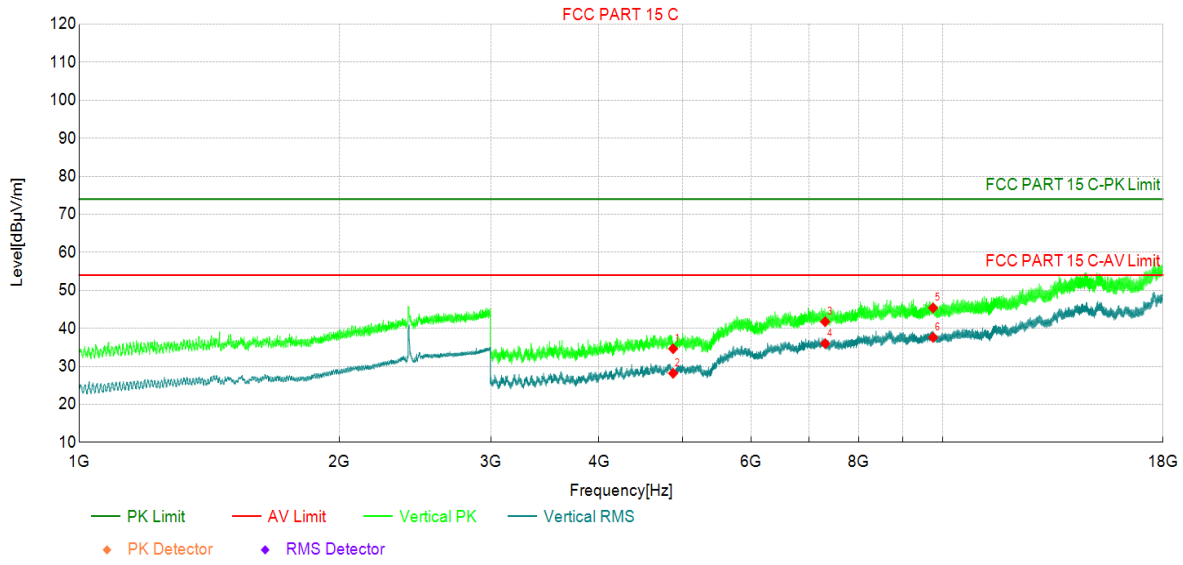
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	41.26	35.18	-6.08	74.00	38.82	PK	Horizo	PASS
2	4874	34.47	28.39	-6.08	54.00	25.61	RMS	Horizo	PASS
3	7311	33.86	36.73	2.87	54.00	17.27	RMS	Horizo	PASS
4	7311	40.28	43.15	2.87	74.00	30.85	PK	Horizo	PASS
5	9748	38.26	44.42	6.16	74.00	29.58	PK	Horizo	PASS
6	9748	31.25	37.41	6.16	54.00	16.59	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2437MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



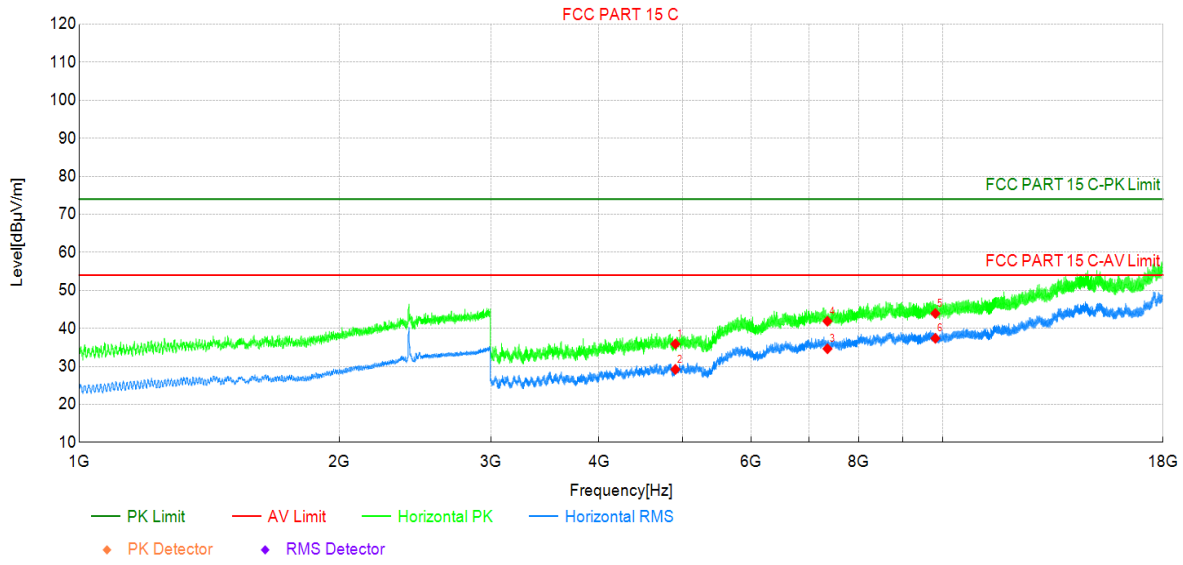
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4874	40.72	34.64	-6.08	74.00	39.36	PK	Vertic	PASS
2	4874	34.25	28.17	-6.08	54.00	25.83	RMS	Vertic	PASS
3	7311	38.87	41.74	2.87	74.00	32.26	PK	Vertic	PASS
4	7311	33.12	35.99	2.87	54.00	18.01	RMS	Vertic	PASS
5	9748	39.22	45.38	6.16	74.00	28.62	PK	Vertic	PASS
6	9748	31.46	37.62	6.16	54.00	16.38	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



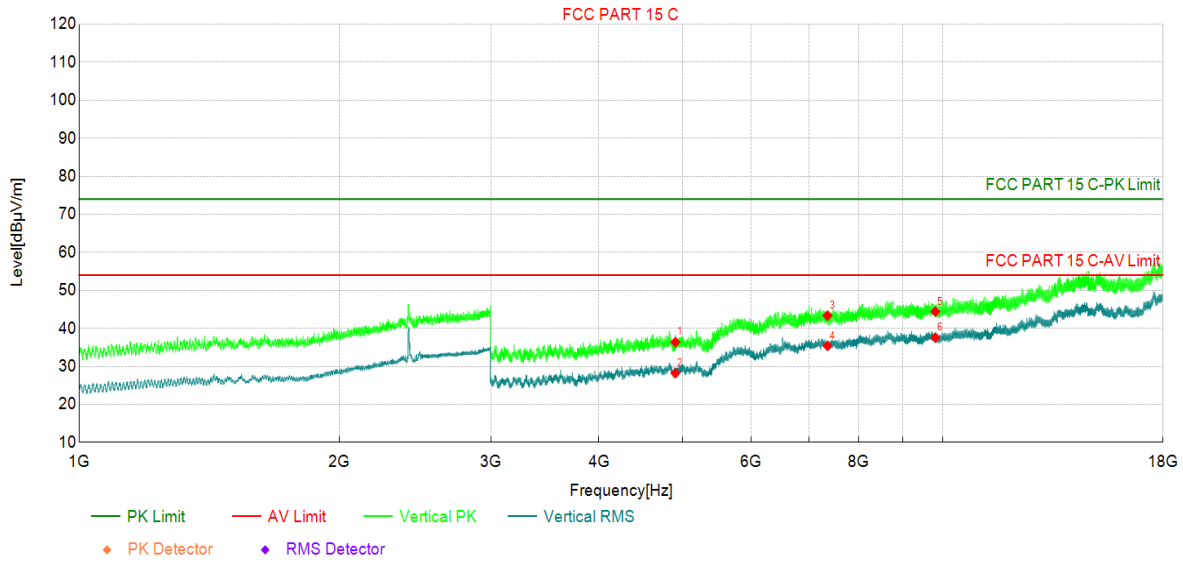
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	41.93	35.89	-6.04	74.00	38.11	PK	Horizo	PASS
2	4904	35.24	29.20	-6.04	54.00	24.80	RMS	Horizo	PASS
3	7356	32.10	34.63	2.53	54.00	19.37	RMS	Horizo	PASS
4	7356	39.35	41.88	2.53	74.00	32.12	PK	Horizo	PASS
5	9808	37.92	43.92	6.00	74.00	30.08	PK	Horizo	PASS
6	9808	31.38	37.38	6.00	54.00	16.62	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode6:Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



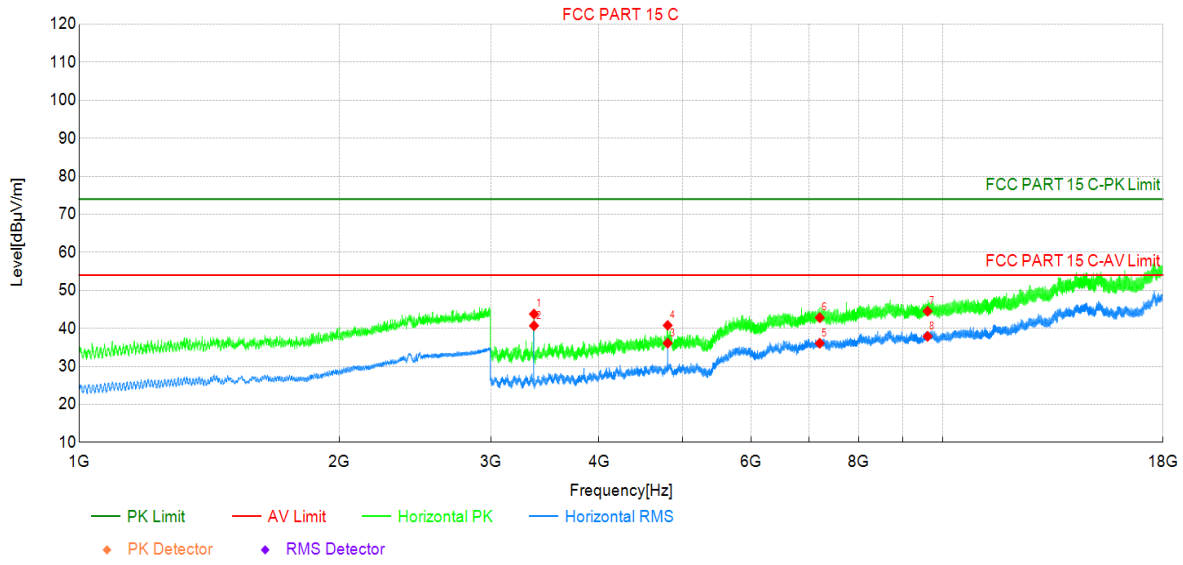
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4904	42.41	36.37	-6.04	74.00	37.63	PK	Vertic	PASS
2	4904	34.26	28.22	-6.04	54.00	25.78	RMS	Vertic	PASS
3	7356	40.81	43.34	2.53	74.00	30.66	PK	Vertic	PASS
4	7356	32.88	35.41	2.53	54.00	18.59	RMS	Vertic	PASS
5	9808	38.41	44.41	6.00	74.00	29.59	PK	Vertic	PASS
6	9808	31.56	37.56	6.00	54.00	16.44	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2402MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



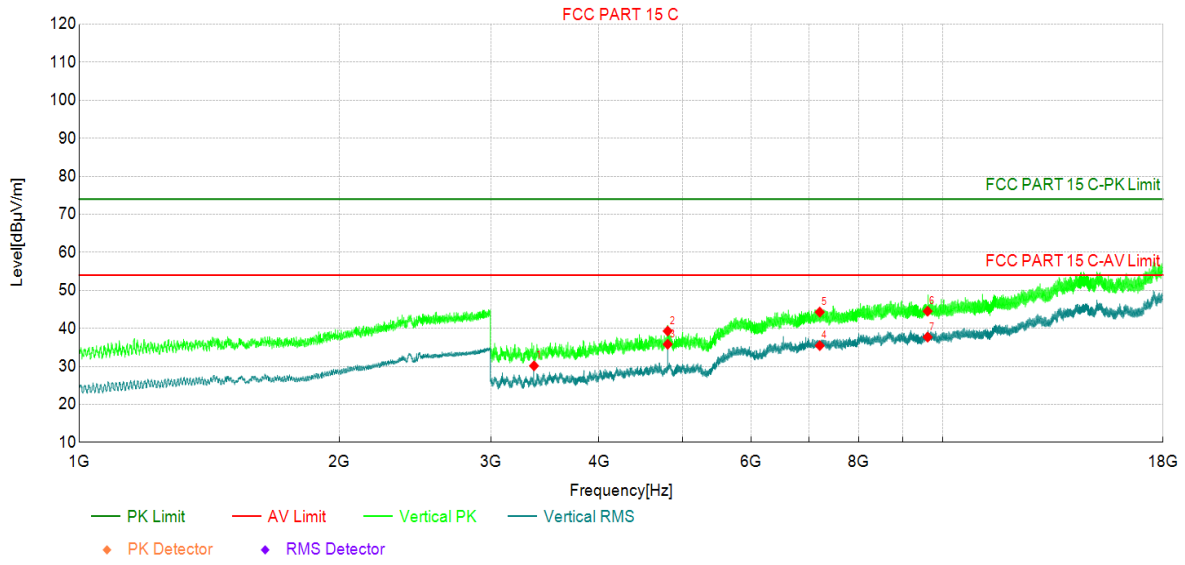
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3363	55.63	43.77	-11.86	74.00	30.23	PK	Horizo	PASS
2	3364	52.55	40.70	-11.85	54.00	13.30	RMS	Horizo	PASS
3	4804	42.14	36.11	-6.03	54.00	17.89	RMS	Horizo	PASS
4	4804	46.82	40.79	-6.03	74.00	33.21	PK	Horizo	PASS
5	7206	33.11	36.08	2.97	54.00	17.92	RMS	Horizo	PASS
6	7206	39.84	42.81	2.97	74.00	31.19	PK	Horizo	PASS
7	9608	38.58	44.52	5.94	74.00	29.48	PK	Horizo	PASS
8	9608	31.97	37.91	5.94	54.00	16.09	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2402MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



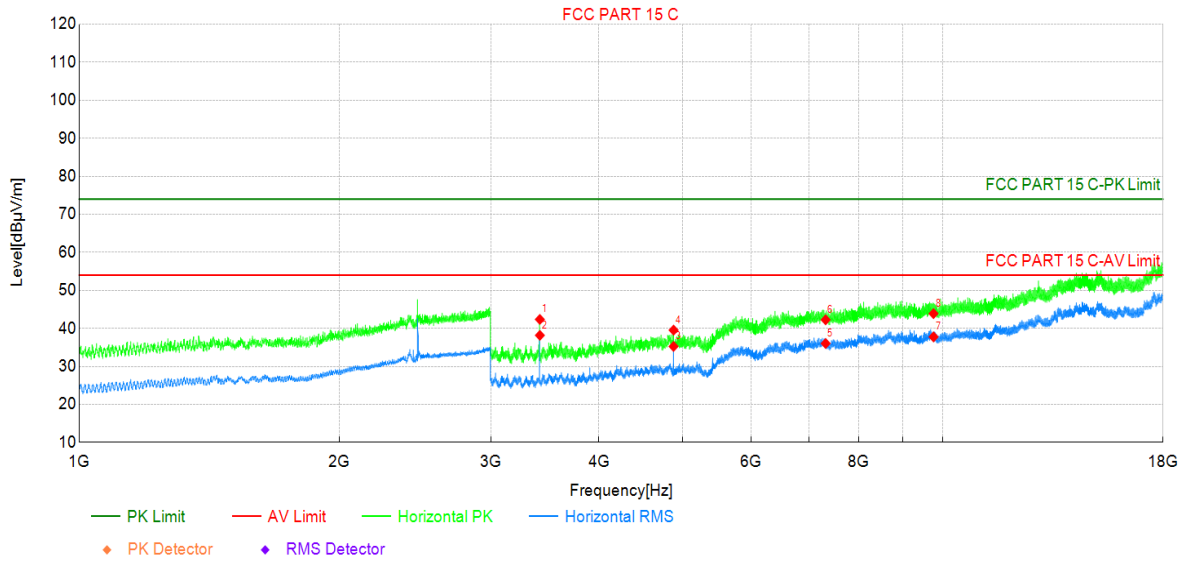
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3364	41.99	30.14	-11.85	54.00	23.86	RMS	Vertic	PASS
2	4804	45.31	39.28	-6.03	74.00	34.72	PK	Vertic	PASS
3	4804	41.84	35.81	-6.03	54.00	18.19	RMS	Vertic	PASS
4	7206	32.49	35.46	2.97	54.00	18.54	RMS	Vertic	PASS
5	7206	41.31	44.28	2.97	74.00	29.72	PK	Vertic	PASS
6	9608	38.58	44.52	5.94	74.00	29.48	PK	Vertic	PASS
7	9608	31.76	37.70	5.94	54.00	16.30	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2440MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



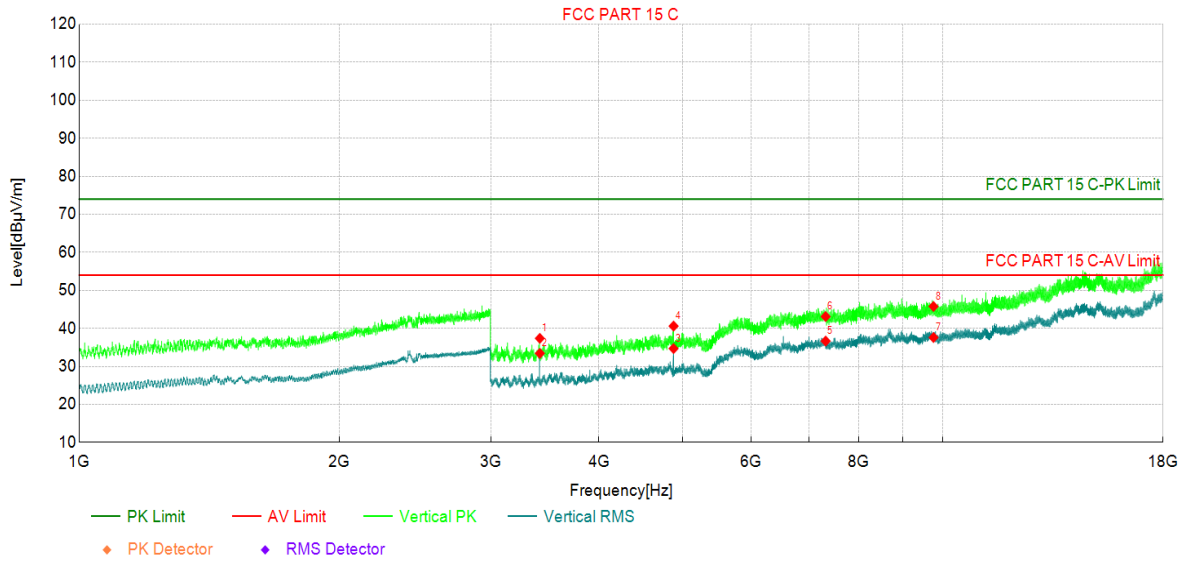
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3416	53.96	42.36	-11.60	74.00	31.64	PK	Horizo	PASS
2	3417	49.76	38.16	-11.60	54.00	15.84	RMS	Horizo	PASS
3	4880	41.33	35.25	-6.08	54.00	18.75	RMS	Horizo	PASS
4	4880	45.61	39.53	-6.08	74.00	34.47	PK	Horizo	PASS
5	7320	33.22	36.02	2.80	54.00	17.98	RMS	Horizo	PASS
6	7320	39.45	42.25	2.80	74.00	31.75	PK	Horizo	PASS
7	9760	31.63	37.76	6.13	54.00	16.24	RMS	Horizo	PASS
8	9760	37.75	43.88	6.13	74.00	30.12	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2440MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



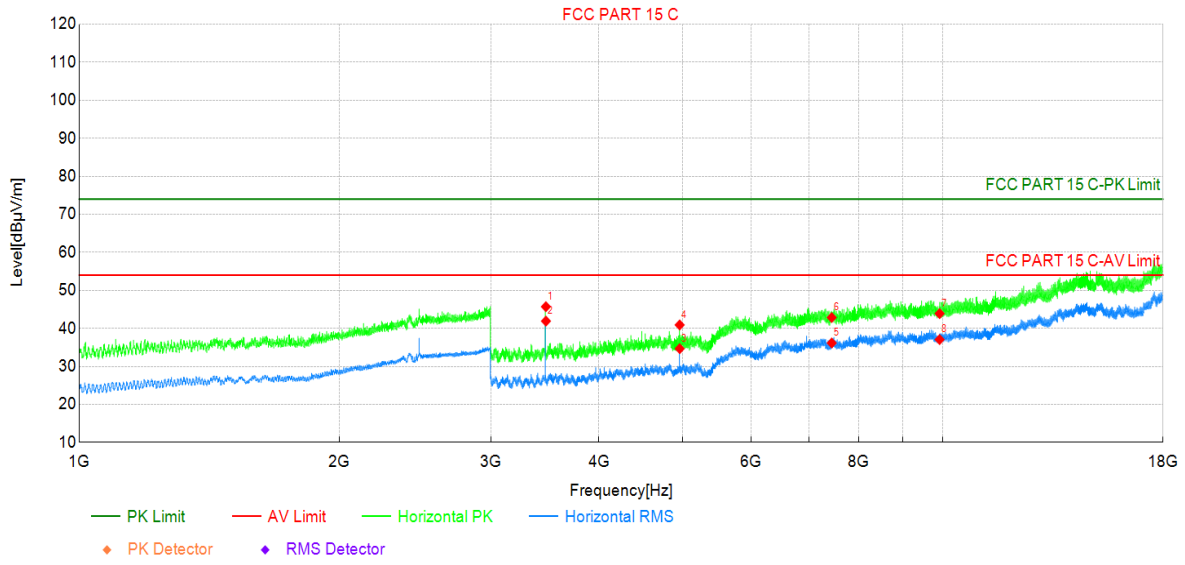
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3416	48.97	37.37	-11.60	74.00	36.63	PK	Vertic	PASS
2	3417	45.03	33.43	-11.60	54.00	20.57	RMS	Vertic	PASS
3	4880	40.76	34.68	-6.08	54.00	19.32	RMS	Vertic	PASS
4	4880	46.68	40.60	-6.08	74.00	33.40	PK	Vertic	PASS
5	7320	33.85	36.65	2.80	54.00	17.35	RMS	Vertic	PASS
6	7320	40.30	43.10	2.80	74.00	30.90	PK	Vertic	PASS
7	9760	31.46	37.59	6.13	54.00	16.41	RMS	Vertic	PASS
8	9760	39.63	45.76	6.13	74.00	28.24	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2480MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



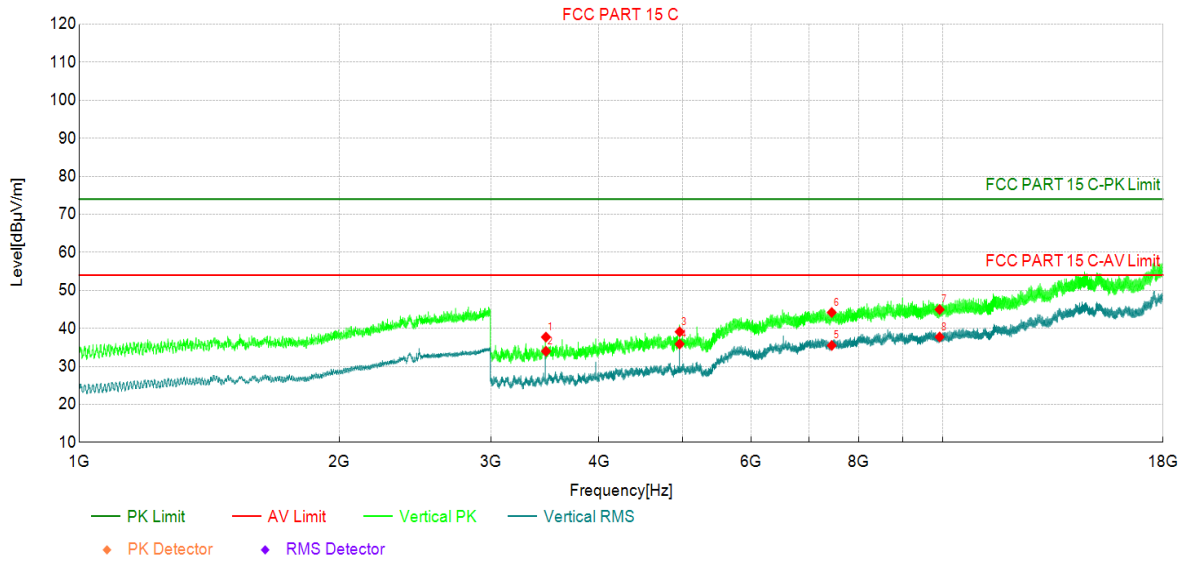
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3472	56.77	45.70	-11.07	74.00	28.30	PK	Horizo	PASS
2	3473	52.98	41.91	-11.07	54.00	12.09	RMS	Horizo	PASS
3	4960	39.92	34.65	-5.27	54.00	19.35	RMS	Horizo	PASS
4	4960	46.17	40.90	-5.27	74.00	33.10	PK	Horizo	PASS
5	7440	33.59	36.15	2.56	54.00	17.85	RMS	Horizo	PASS
6	7440	40.29	42.85	2.56	74.00	31.15	PK	Horizo	PASS
7	9920	38.27	43.89	5.62	74.00	30.11	PK	Horizo	PASS
8	9920	31.44	37.06	5.62	54.00	16.94	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode7:Transmit at 2480MHz by LE 1M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



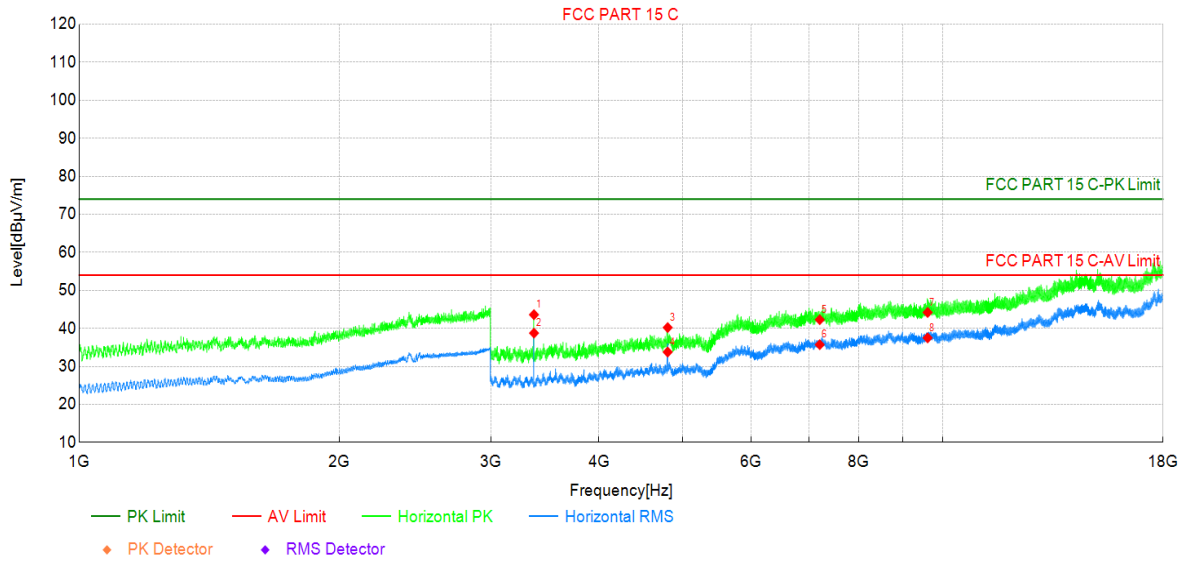
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3472	48.77	37.70	-11.07	74.00	36.30	PK	Vertic	PASS
2	3473	45.04	33.97	-11.07	54.00	20.03	RMS	Vertic	PASS
3	4960	44.36	39.09	-5.27	74.00	34.91	PK	Vertic	PASS
4	4960	41.15	35.88	-5.27	54.00	18.12	RMS	Vertic	PASS
5	7440	32.94	35.50	2.56	54.00	18.50	RMS	Vertic	PASS
6	7440	41.61	44.17	2.56	74.00	29.83	PK	Vertic	PASS
7	9920	39.33	44.95	5.62	74.00	29.05	PK	Vertic	PASS
8	9920	32.11	37.73	5.62	54.00	16.27	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2402MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



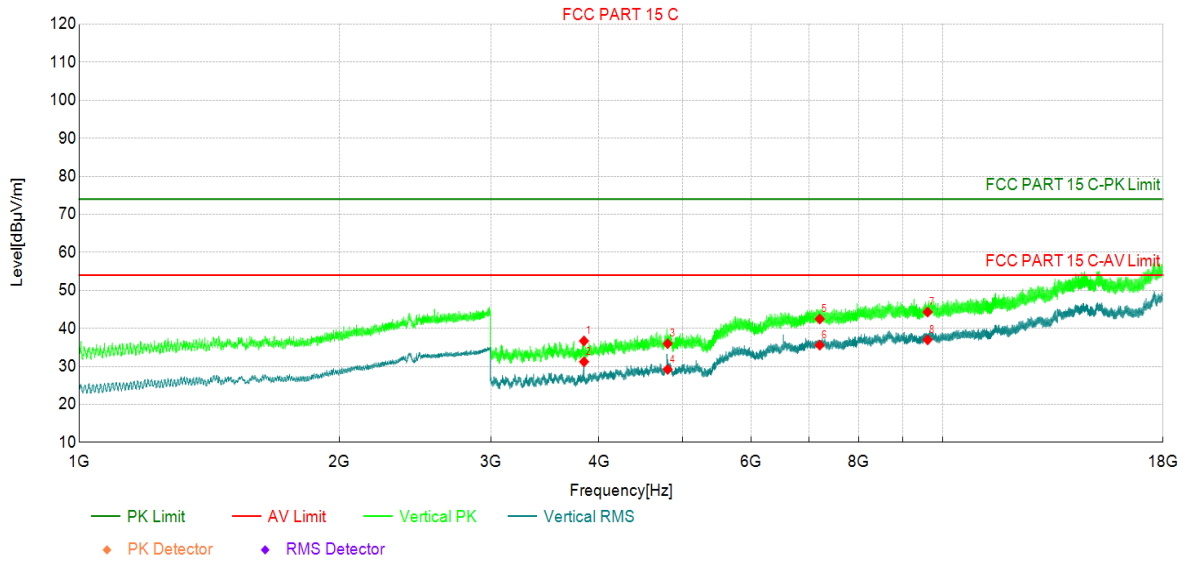
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3363	55.45	43.59	-11.86	74.00	30.41	PK	Horizo	PASS
2	3364	50.61	38.76	-11.85	54.00	15.24	RMS	Horizo	PASS
3	4804	46.24	40.21	-6.03	74.00	33.79	PK	Horizo	PASS
4	4804	39.80	33.77	-6.03	54.00	20.23	RMS	Horizo	PASS
5	7206	39.32	42.29	2.97	74.00	31.71	PK	Horizo	PASS
6	7206	32.75	35.72	2.97	54.00	18.28	RMS	Horizo	PASS
7	9608	38.25	44.19	5.94	74.00	29.81	PK	Horizo	PASS
8	9608	31.56	37.50	5.94	54.00	16.50	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2402MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



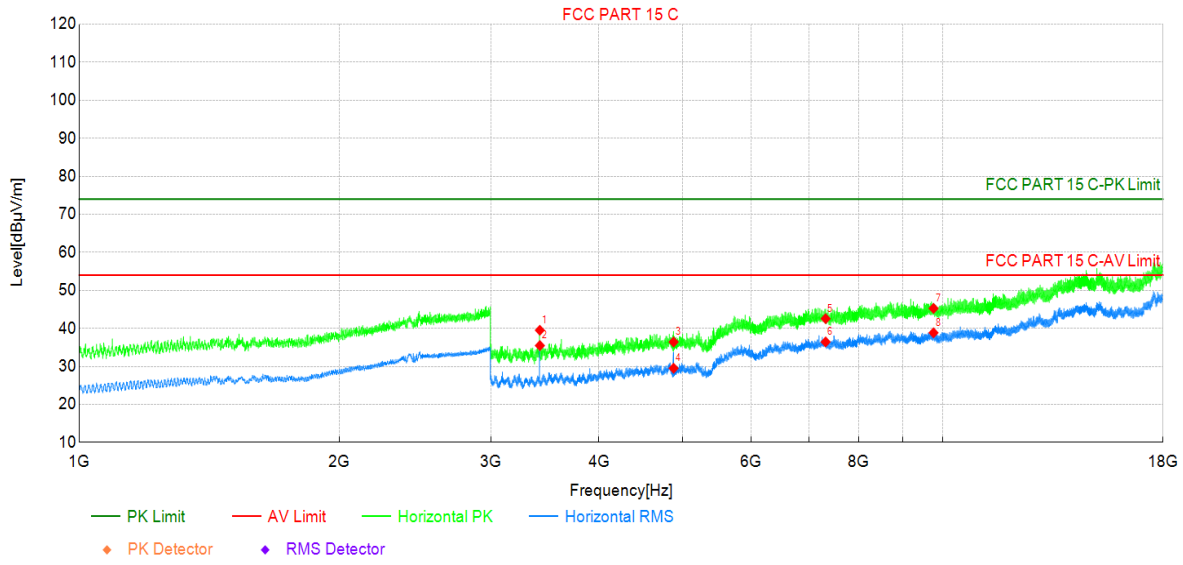
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3844	46.88	36.68	-10.20	74.00	37.32	PK	Vertic	PASS
2	3844	41.42	31.22	-10.20	54.00	22.78	RMS	Vertic	PASS
3	4804	42.00	35.97	-6.03	74.00	38.03	PK	Vertic	PASS
4	4804	35.23	29.20	-6.03	54.00	24.80	RMS	Vertic	PASS
5	7206	39.50	42.47	2.97	74.00	31.53	PK	Vertic	PASS
6	7206	32.62	35.59	2.97	54.00	18.41	RMS	Vertic	PASS
7	9608	38.36	44.30	5.94	74.00	29.70	PK	Vertic	PASS
8	9608	31.04	36.98	5.94	54.00	17.02	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2440MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



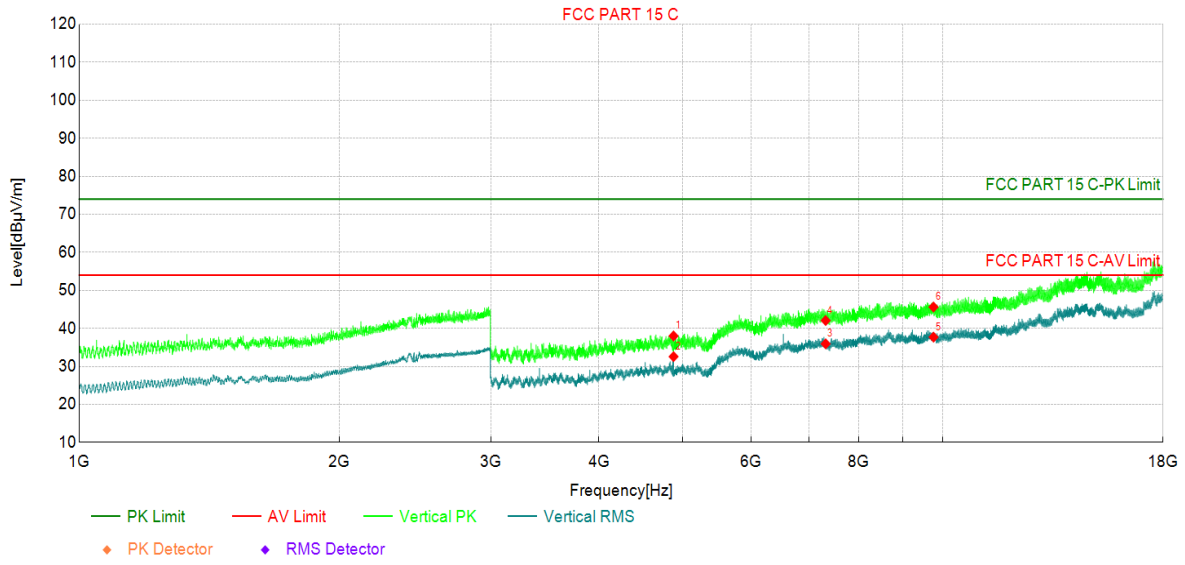
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3416	51.11	39.51	-11.60	74.00	34.49	PK	Horizo	PASS
2	3417	47.07	35.47	-11.60	54.00	18.53	RMS	Horizo	PASS
3	4880	42.50	36.42	-6.08	74.00	37.58	PK	Horizo	PASS
4	4880	35.59	29.51	-6.08	54.00	24.49	RMS	Horizo	PASS
5	7320	39.75	42.55	2.80	74.00	31.45	PK	Horizo	PASS
6	7320	33.63	36.43	2.80	54.00	17.57	RMS	Horizo	PASS
7	9760	39.12	45.25	6.13	74.00	28.75	PK	Horizo	PASS
8	9760	32.70	38.83	6.13	54.00	15.17	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2440MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



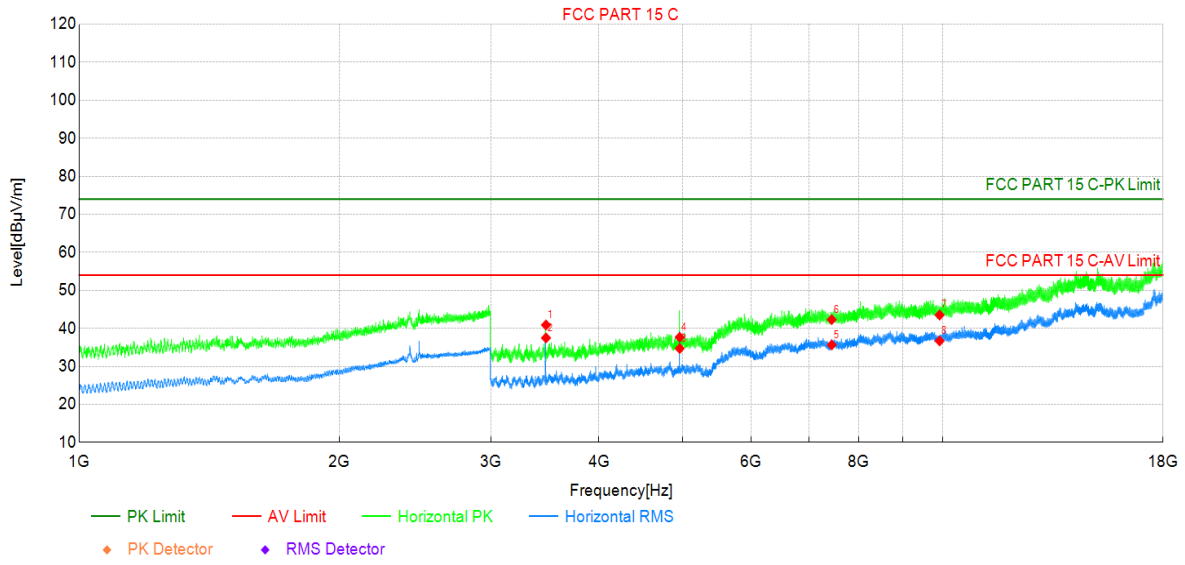
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4880	44.07	37.99	-6.08	74.00	36.01	PK	Vertic	PASS
2	4880	38.65	32.57	-6.08	54.00	21.43	RMS	Vertic	PASS
3	7320	33.13	35.93	2.80	54.00	18.07	RMS	Vertic	PASS
4	7320	39.26	42.06	2.80	74.00	31.94	PK	Vertic	PASS
5	9760	31.56	37.69	6.13	54.00	16.31	RMS	Vertic	PASS
6	9760	39.48	45.61	6.13	74.00	28.39	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2480MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph



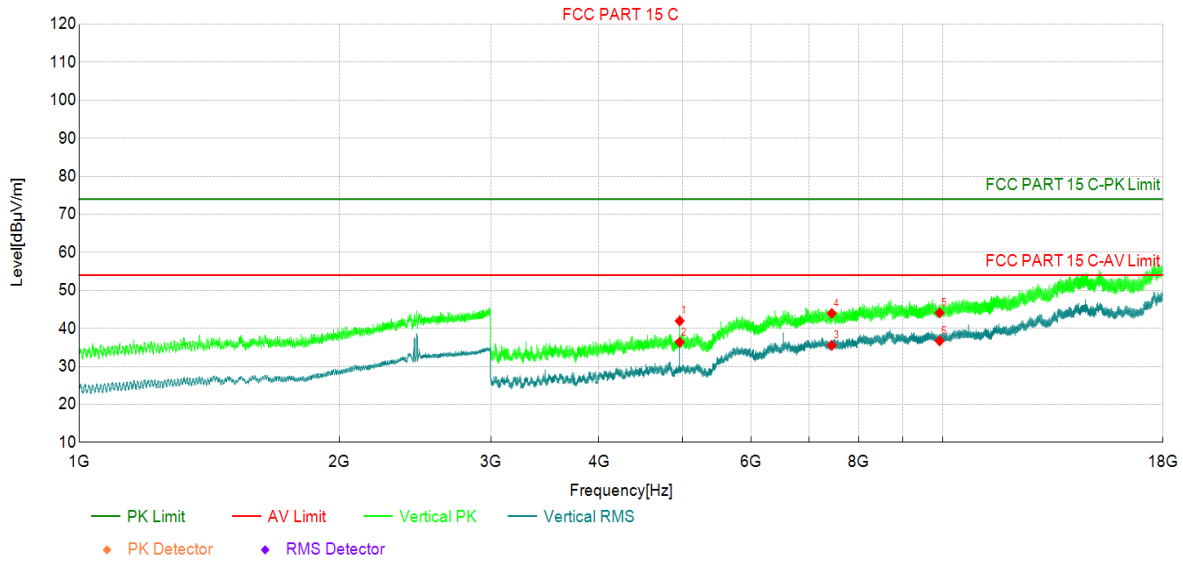
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	3473	51.96	40.89	-11.07	74.00	33.11	PK	Horizo	PASS
2	3473	48.55	37.48	-11.07	54.00	16.52	RMS	Horizo	PASS
3	4960	39.97	34.70	-5.27	54.00	19.30	RMS	Horizo	PASS
4	4960	42.92	37.65	-5.27	74.00	36.35	PK	Horizo	PASS
5	7440	33.08	35.64	2.56	54.00	18.36	RMS	Horizo	PASS
6	7440	39.74	42.30	2.56	74.00	31.70	PK	Horizo	PASS
7	9920	37.89	43.51	5.62	74.00	30.49	PK	Horizo	PASS
8	9920	31.09	36.71	5.62	54.00	17.29	RMS	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode8:Transmit at 2480MHz by LE 2M	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC PART 15 C		

Test Graph

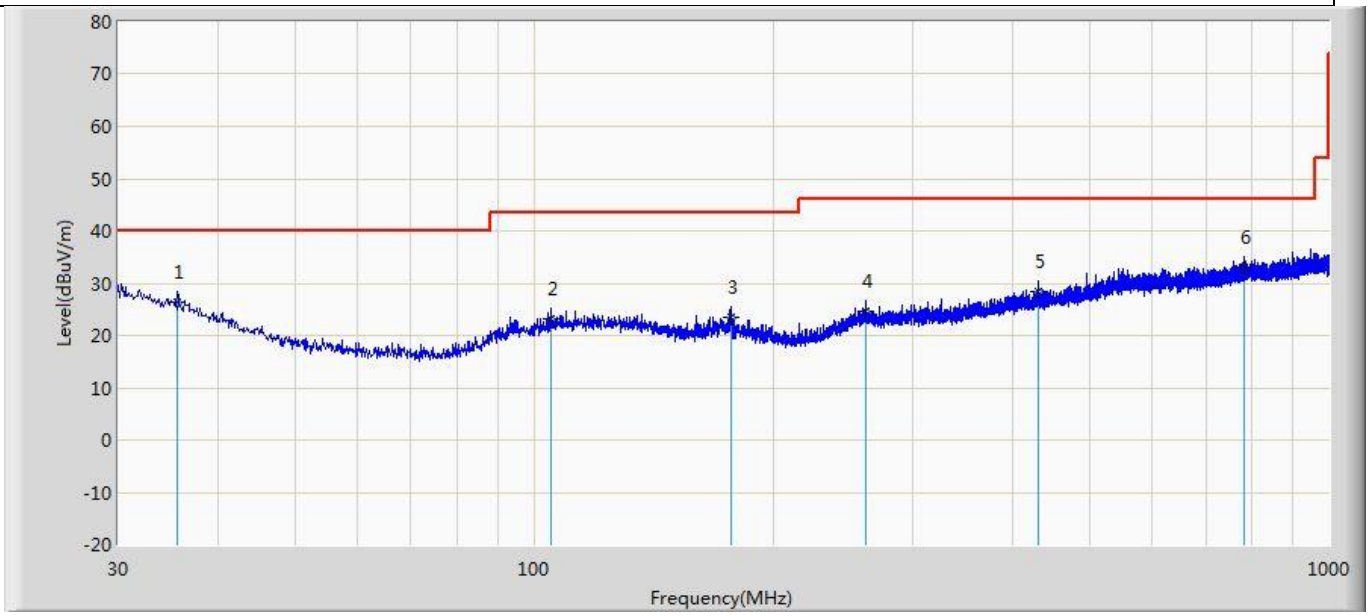


Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	4960	47.23	41.96	-5.27	74.00	32.04	PK	Vertic	PASS
2	4960	41.61	36.34	-5.27	54.00	17.66	RMS	Vertic	PASS
3	7440	32.95	35.51	2.56	54.00	18.49	RMS	Vertic	PASS
4	7440	41.36	43.92	2.56	74.00	30.08	PK	Vertic	PASS
5	9920	38.45	44.07	5.62	74.00	29.93	PK	Vertic	PASS
6	9920	31.09	36.71	5.62	54.00	17.29	RMS	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

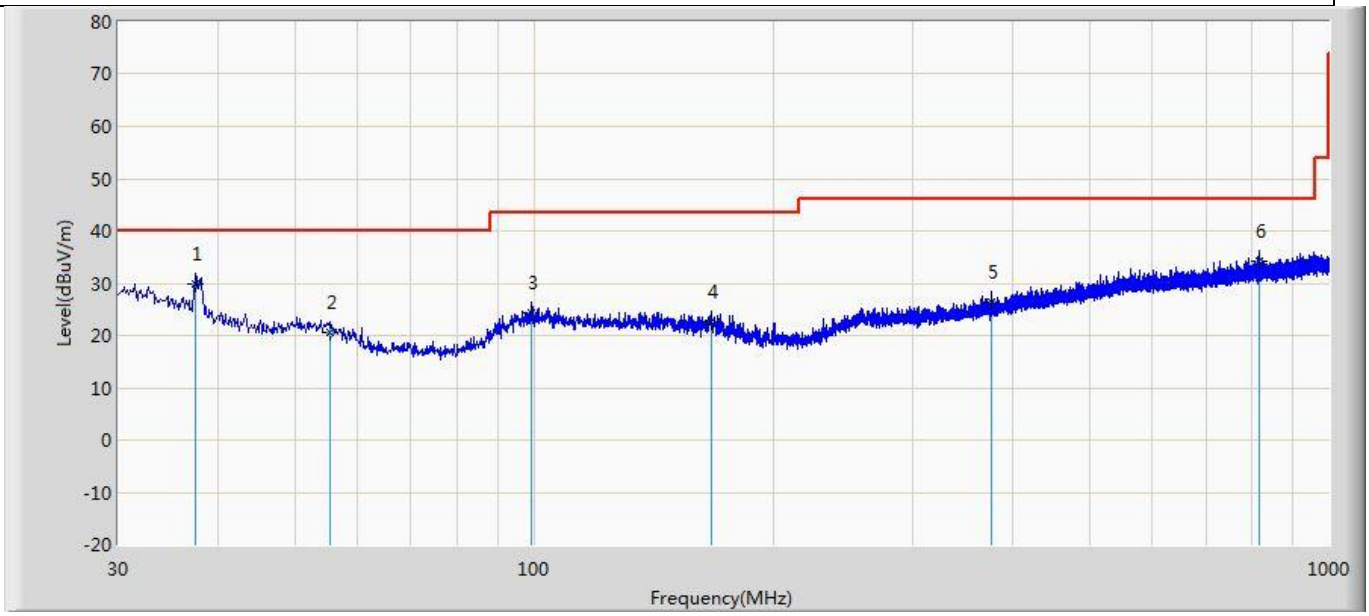
The worst case of Radiated Emission below 1GHz :

Profile: 24C0528R	Page No.: 5
Engineer: Yu Liu	
Site: AC2	Time: 2025/02/10 - 21:35
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Horizontal
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: mode 1:Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.577	26.351	4.325	-13.649	40.000	22.025	QP
2		104.933	23.304	4.648	-20.196	43.500	18.656	QP
3		177.197	23.451	6.928	-20.049	43.500	16.523	QP
4		260.981	24.677	3.853	-21.323	46.000	20.824	QP
5		430.731	28.455	4.204	-17.545	46.000	24.251	QP
6	*	781.992	32.939	3.865	-13.061	46.000	29.074	QP

Profile: 24C0528R	Page No.: 6
Engineer: Yu Liu	
Site: AC2	Time: 2025/02/10 - 21:37
Limit: FCC_Part 15.209	Margin: 0
Probe: CBL6112D_27613(30-1000MHz)	Polarity: Vertical
EUT: Xiaomi TV Box S	Power: 120 Vac / 60 Hz
Note: mode 1:Transmit at 2412MHz by 802.11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	37.518	29.740	8.800	-10.260	40.000	20.941	QP
2		55.463	20.717	7.124	-19.283	40.000	13.593	QP
3		99.476	24.263	6.326	-19.237	43.500	17.937	QP
4		167.134	22.725	5.909	-20.775	43.500	16.817	QP
5		376.533	26.317	3.492	-19.683	46.000	22.825	QP
6		818.246	34.232	4.856	-11.768	46.000	29.377	QP

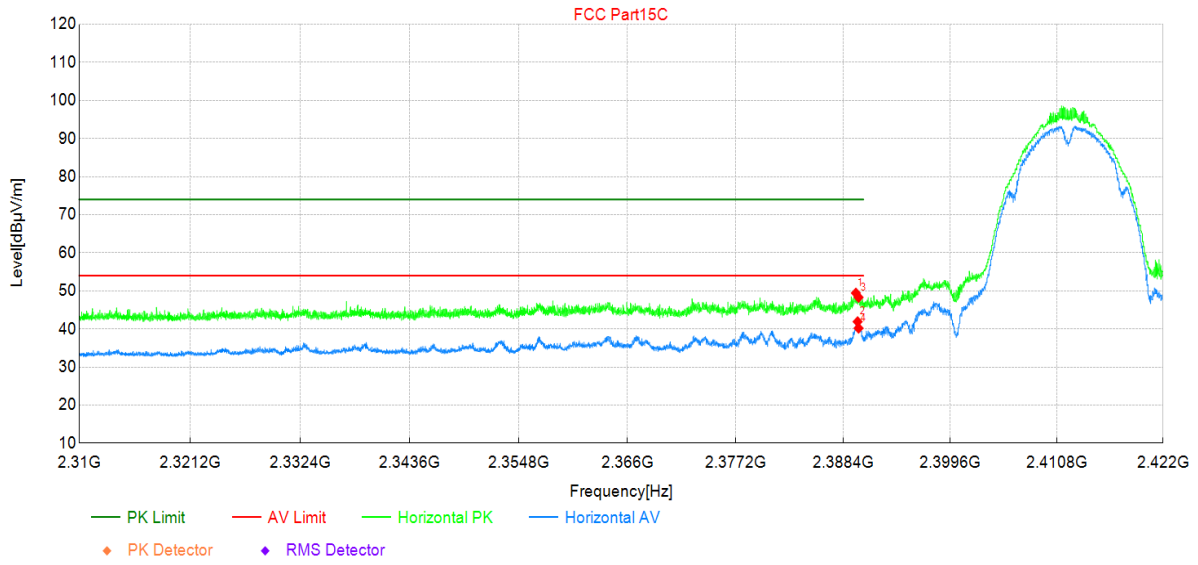
Note:
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp)
3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.
4. If the test result on peak is lower than average limit, then average measurement needn't be performed.
5. We have evaluated SISO mian antenna mode, SISO aux antenna mode and MIMO modem, shown in report is the worst data.
6. All test data above 18GHz are noise base, so no data shown in this report.
7. In the report, below 1G, only the verification test is carried out for the worst channel of 1~18G worst mode.

Appendix C: Band edge measurements

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 1:Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



Suspected Data List

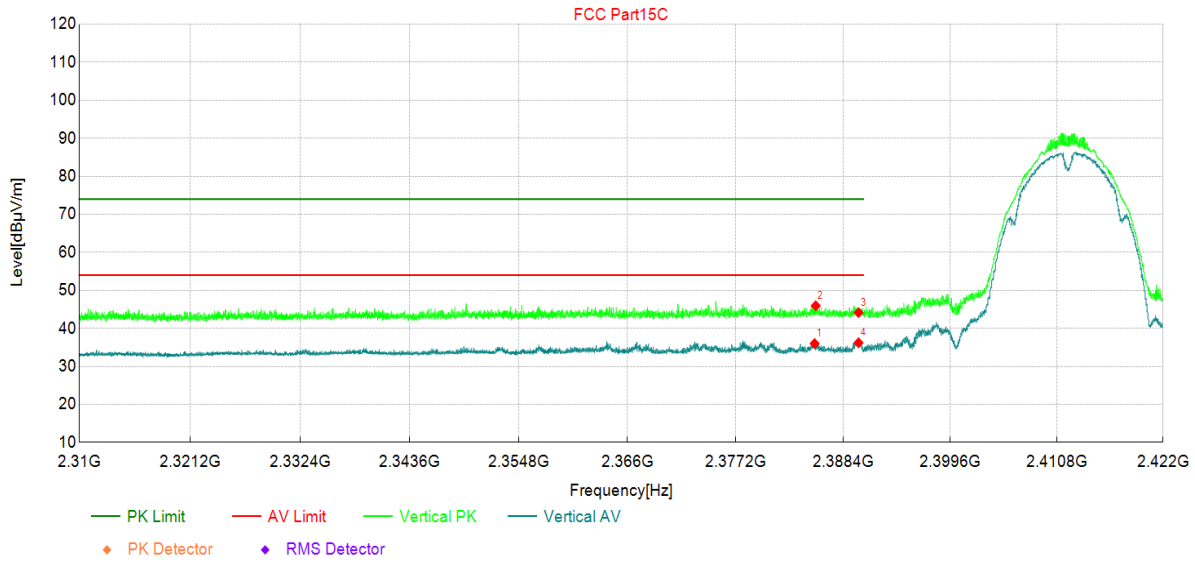
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2390	45.79	49.44	3.65	74.00	24.56	PK	Horizo	PASS
2	2390	38.26	41.91	3.65	54.00	12.09	AV	Horizo	PASS
3	2390	44.64	48.29	3.65	74.00	25.71	PK	Horizo	PASS
4	2390	36.55	40.20	3.65	54.00	13.80	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 1:Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



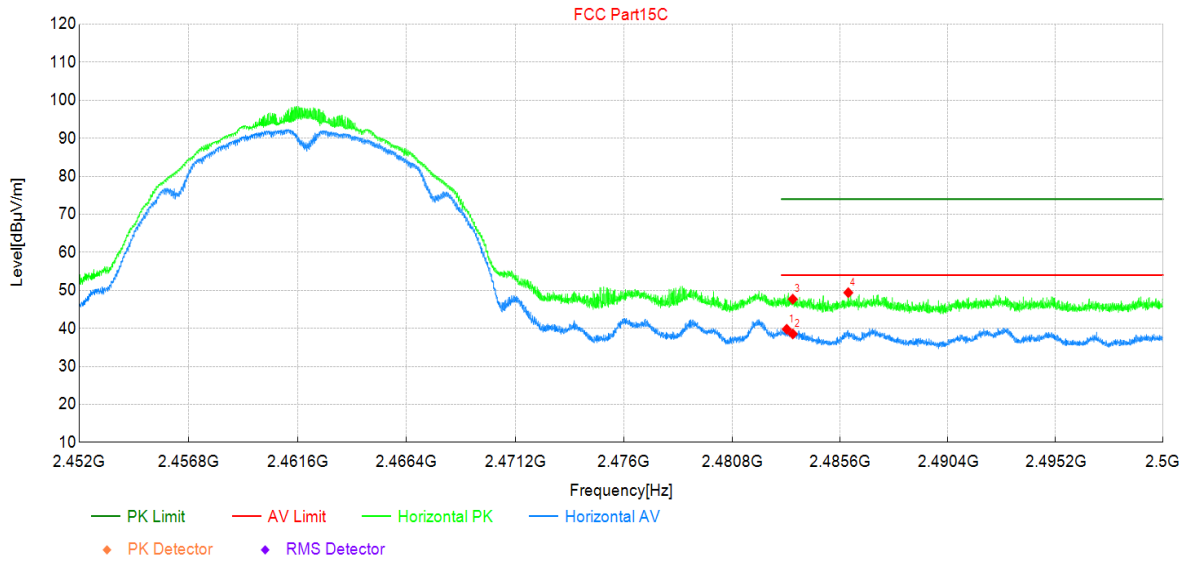
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2385	32.38	36.01	3.63	54.00	17.99	AV	Vertic	PASS
2	2386	42.31	45.94	3.63	74.00	28.06	PK	Vertic	PASS
3	2390	40.50	44.15	3.65	74.00	29.85	PK	Vertic	PASS
4	2390	32.55	36.20	3.65	54.00	17.80	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 1:Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



Suspected Data List

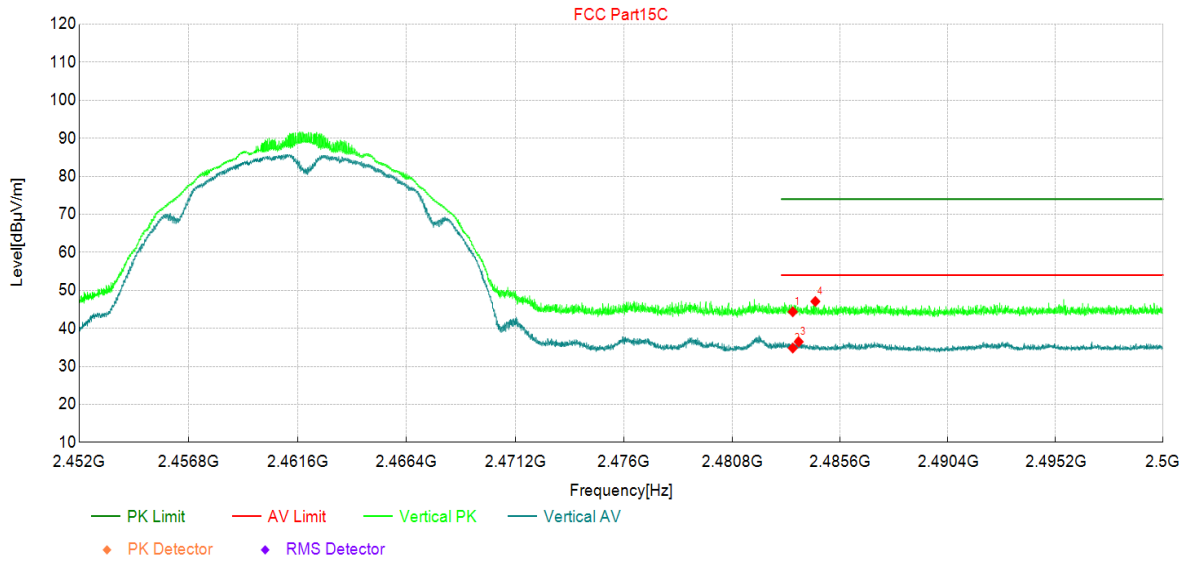
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483	35.68	39.77	4.09	54.00	14.23	AV	Horizo	PASS
2	2484	34.44	38.53	4.09	54.00	15.47	AV	Horizo	PASS
3	2484	43.59	47.68	4.09	74.00	26.32	PK	Horizo	PASS
4	2486	45.28	49.39	4.11	74.00	24.61	PK	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 1:Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



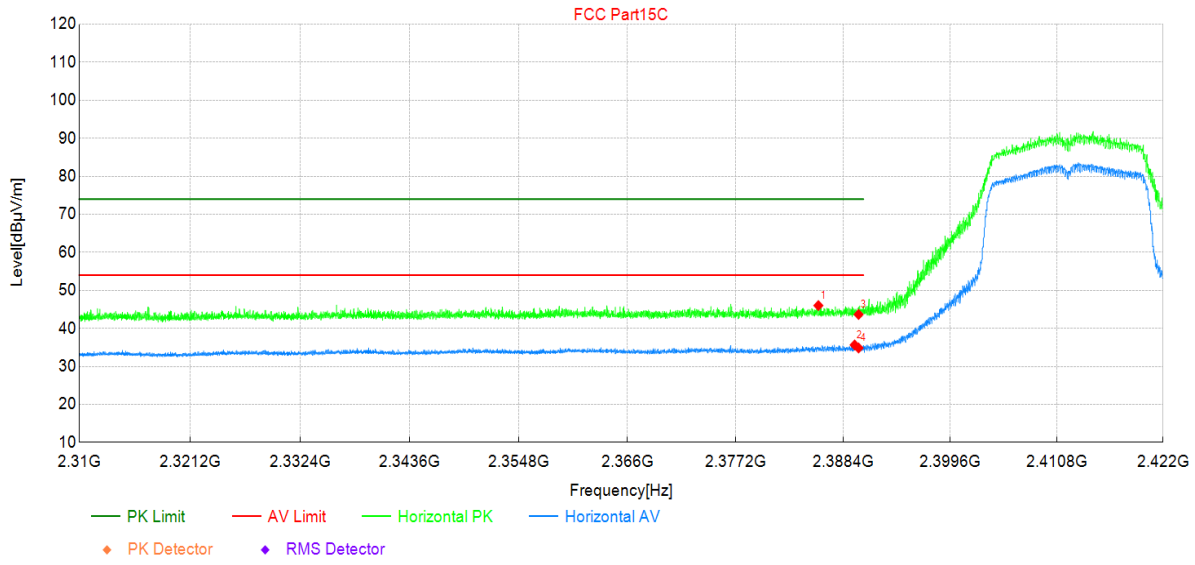
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2484	40.27	44.36	4.09	74.00	29.64	PK	Vertic	PASS
2	2484	30.72	34.81	4.09	54.00	19.19	AV	Vertic	PASS
3	2484	32.37	36.46	4.09	54.00	17.54	AV	Vertic	PASS
4	2485	42.97	47.08	4.11	74.00	26.92	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 2:Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



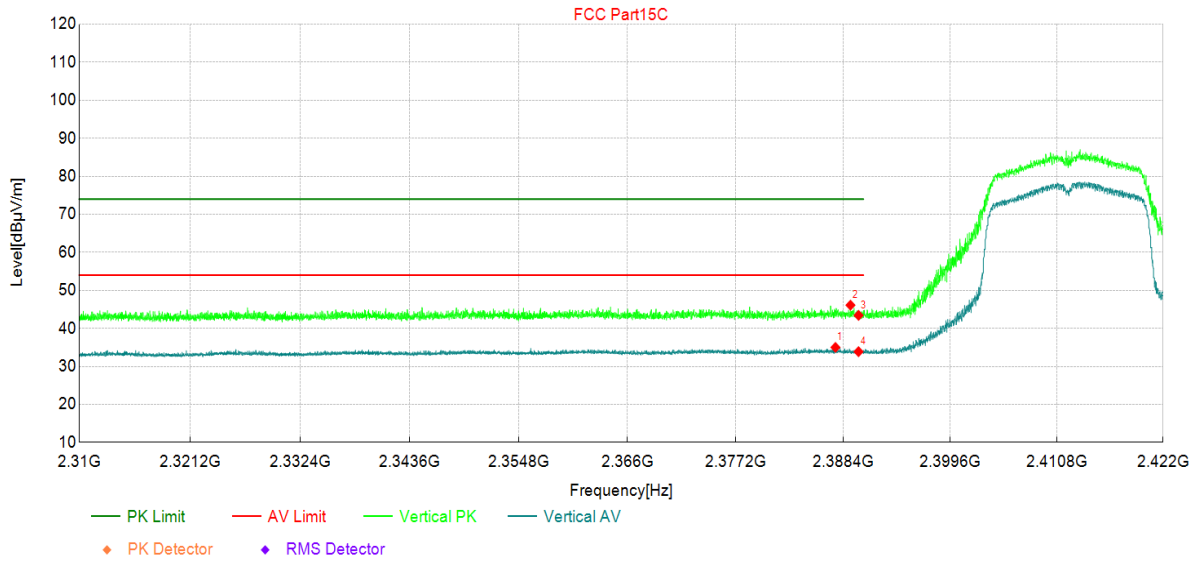
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2386	42.37	46.00	3.63	74.00	28.00	PK	Horizo	PASS
2	2390	31.98	35.63	3.65	54.00	18.37	AV	Horizo	PASS
3	2390	40.00	43.65	3.65	74.00	30.35	PK	Horizo	PASS
4	2390	31.19	34.84	3.65	54.00	19.16	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 2:Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



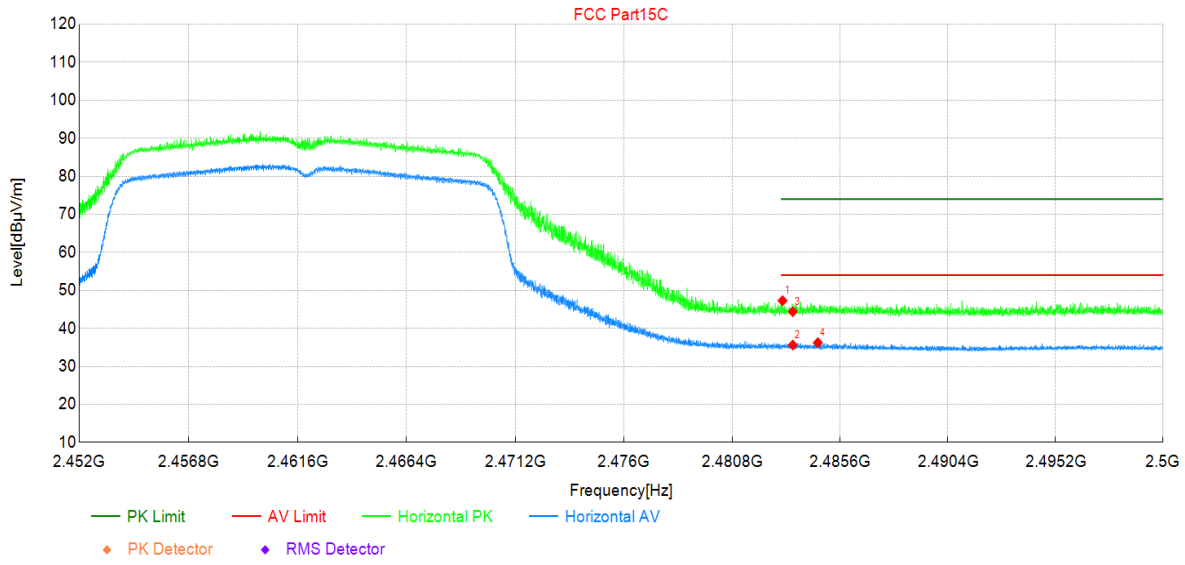
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2388	31.37	35.00	3.63	54.00	19.00	AV	Vertic	PASS
2	2389	42.46	46.10	3.64	74.00	27.90	PK	Vertic	PASS
3	2390	39.77	43.42	3.65	74.00	30.58	PK	Vertic	PASS
4	2390	30.22	33.87	3.65	54.00	20.13	AV	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 2:Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



Suspected Data List

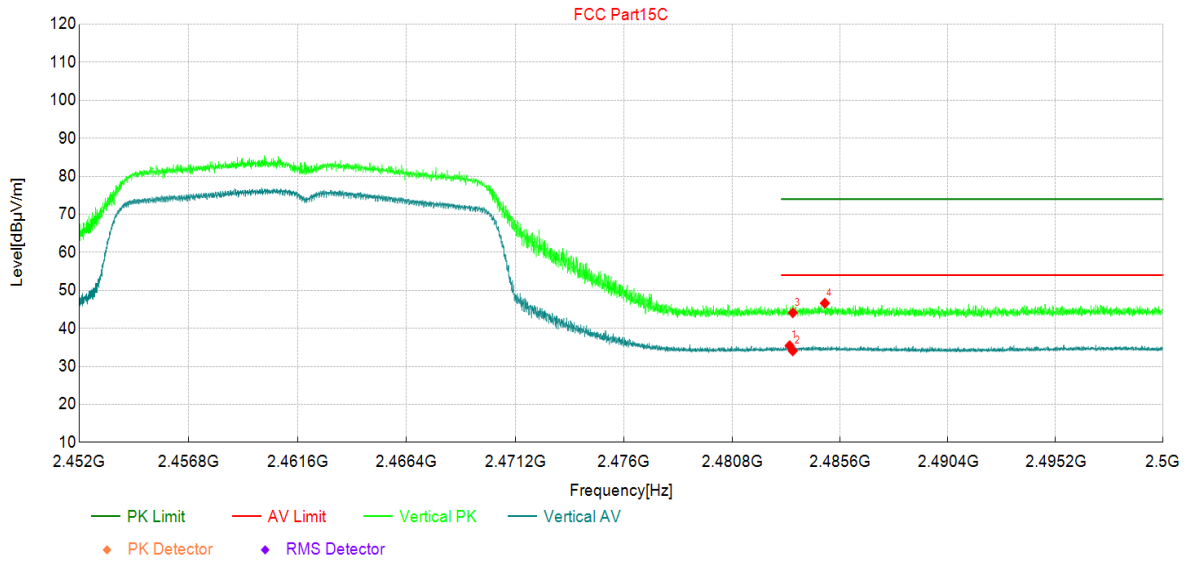
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483	43.20	47.29	4.09	74.00	26.71	PK	Horizo	PASS
2	2484	31.52	35.61	4.09	54.00	18.39	AV	Horizo	PASS
3	2484	40.29	44.38	4.09	74.00	29.62	PK	Horizo	PASS
4	2485	32.12	36.23	4.11	54.00	17.77	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 2:Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



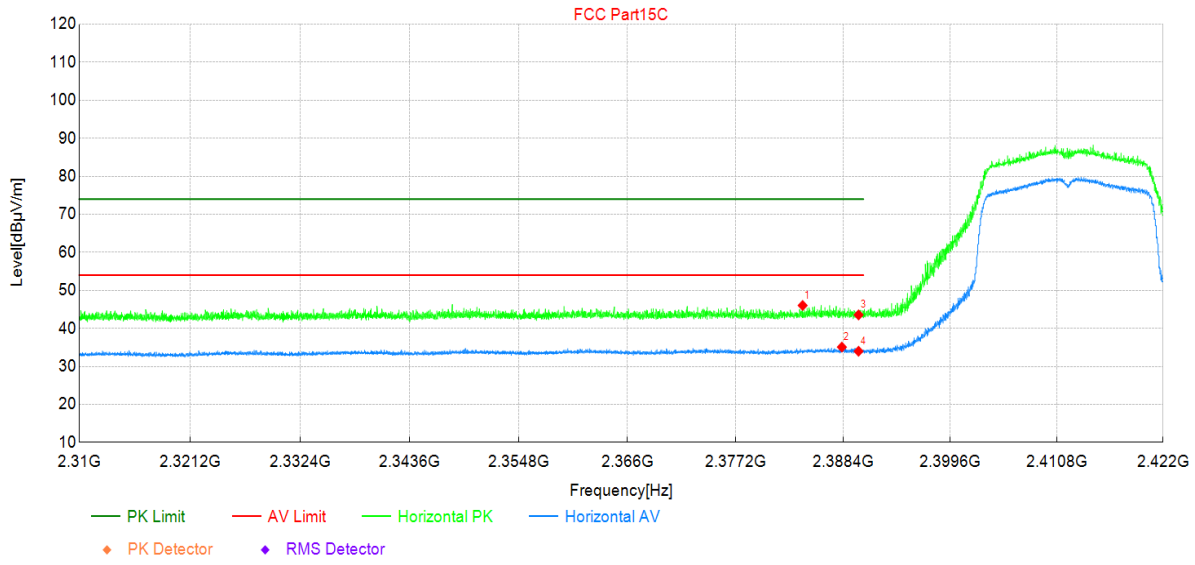
Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483	31.37	35.46	4.09	54.00	18.54	AV	Vertic	PASS
2	2484	29.98	34.07	4.09	54.00	19.93	AV	Vertic	PASS
3	2484	40.00	44.09	4.09	74.00	29.91	PK	Vertic	PASS
4	2485	42.51	46.62	4.11	74.00	27.38	PK	Vertic	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Report

Project Information			
Profile:	24C0528R	EUT:	Xiaomi TV Box S
Mode:	Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃; Humi:60%	Engineer	Yu Liu
Test Standard:	FCC Part15C		

Test Graph



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2384	42.40	46.02	3.62	74.00	27.98	PK	Horizo	PASS
2	2388	31.43	35.07	3.64	54.00	18.93	AV	Horizo	PASS
3	2390	39.88	43.53	3.65	74.00	30.47	PK	Horizo	PASS
4	2390	30.33	33.98	3.65	54.00	20.02	AV	Horizo	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level