



EST REPORT

Product Pudu CM1

Trade mark

Model/Type reference : CMMC01

Serial Number : N/A

Report Number : EED32O80416501 FCC ID : 2AXDW-CMMC01

Date of Issue : Jun. 11, 2022

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

SHENZHEN PUDU TECHNOLOGY CO., LTD.

Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, 518057, China

Prepared by:

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3 Version

Version No. Date		6	Description		
00	Jun. 11, 2022		Original		
	**		- CO	/2	
		(92)			







4 Test Summary

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Test Item	Test Requirement	Result	
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	N/A	
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS	
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS	
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS	
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS	
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS	

Remark:

1.N/A: The product is powered by DC 3.3V.

2.Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





5 General Information

5.1 Client Information

Applicant:	SHENZHEN PUDU TECHNOLOGY CO., LTD.		
Address of Applicant:	Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, 518057, China		
Manufacturer:	SHENZHEN PUDU TECHNOLOGY CO., LTD.		
Address of Manufacturer:	Room 501, Building A, Block 1, Phase 1, Shenzhen International Inno Valley, Dashi 1st Road, Nanshan District, Shenzhen, 518057, China		
Factory:	SHENZHEN WABONY ELECTRONIC CO., LTD.		
Address of Factory:	Floor 1-5, Building 12#. An Tuo Shan High Tech Park, Xin Sha Road, Sha Er community, Sha Jing Street, Bao An District, Shenzhen, P.R.C		

5.2 General Description of EUT

Product Name:	Pudu CM1
Model No.:	CMMC01
Trade mark:	PUDU
Product Type:	Fix Location
Operation Frequency:	2466-2480MHz;
Modulation Type:	CCK
Number of Channel:	15
Channel Separation:	1MHz
Antenna Type:	Helical antenna
Antenna Gain:	0.7dBi
Power Supply:	DC3.3V by USB port
Test Voltage:	DC3.3V
Sample Received Date:	Apr. 26, 2022
Sample tested Date:	Apr. 26, 2022 to May 30, 2022



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Operation Free	quency each of channe	el of TX:	(3)
Channel	Frequency	Channel	Frequency
1	2466MHz	11	2476MHz
2	2467MHz	12	2477MHz
3	2468MHz	13	2478MHz
4	2469MHz	14	2479MHz
5	2470MHz	15	2480MHz
6	2471MHz		- 0.00
7	2472MHz		
8	2473MHz		
9	2474MHz		
10	2475MHz		

Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2466MHz
The middle channel	2473MHz
The highest channel	2480MHz





5.3 Test Configuration

EUT Test Software Settings		
Software:	Device Certification SystemV1.3.exe	-01
EUT Power Grade:	Default	
Use test software to set the lo transmitting of the EUT.	west frequency, the middle frequency and the highest frequency keep	0





5.4 Test Environment

Operating Environment:							
Radiated Spurious Emis	Radiated Spurious Emissions:						
Temperature:	22~25.0 °C	(20)		(41)		(1)	
Humidity:	50~55 % RH	0		(0)		0	
Atmospheric Pressure:	1010mbar						
Conducted Emissions:							
Temperature:	22~25.0 °C		(3)		(20)		
Humidity:	50~55 % RH		120		120		
Atmospheric Pressure:	1010mbar						
RF Conducted:							
Temperature:	22~25.0 °C						
Humidity:	50~55 % RH						
Atmospheric Pressure:	1010mbar						

5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Lenovo	E49	FCC&CE	CTI
Netbook	HP	HP ZHAN 66 PRO 14 G4	FCC&CE	СТІ

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164





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

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	RF power, conducted	0.46dB (30MHz-1GHz)
	AF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)
	(41)	3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



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6 Equipment List

		RF test	system		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518		

	3M Semi-anechoic Chamber (2)- Radiated disturbance Test											
Equipment	Equipment Manufacturer		Model Serial No.		Due Date							
3M Chamber & Accessory Equipment	Accessory TDK		SAC-3		05/23/2022 05/21/2025							
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022							
TRILOG Broadband schwarzbeck Antenna		VULB 9163 9163-618		05/23/2019 05-21-2022	05/22/2022 05-20-2023							
Multi device Controller	maturo	NCD/070/10711112										
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024							
Spectrum Analyzer	R&S	FSP40 100416		04/01/2022	03/31/2023							
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022							



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3M full-anechoic Chamber										
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)					
RSE Automatic test software JS Tonscend		JS36-RSE	10166							
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023					
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023					
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023					
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024					
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024					
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024					
Preamplifier	EMCI	EMC184055SE	980597	04-20-2022	04-19-2023					
Preamplifier	EMCI	EMC001330	980563	04-01-2022	03-31-2023					
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022					
Communication test set R&S		CMW500	102898	12-24-2021	12-23-2022					
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	E1186631 04-11-2022						
Fully Anechoic Chamber	TDK	FAC-3	01-09-2021		01-08-2024					
Cable line	Times	SFT205-NMSM-2.50M	394812-0001							
Cable line	Times	SFT205-NMSM-2.50M	394812-0002							
Cable line	Times	SFT205-NMSM-2.50M	394812-0003							
Cable line	Times	SFT205-NMSM-2.50M	393495-0001							
Cable line	Times	EMC104-NMNM-1000	SN160710							
Cable line	Times	SFT205-NMSM-3.00M	394813-0001							
Cable line	Times	SFT205-NMNM-1.50M	381964-0001							
Cable line	Times	SFT205-NMSM-7.00M	394815-0001							
Cable line	Times	HF160-KMKM-3.00M	393493-0001							





7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: Please see Internal photos

The antenna is Helical antenna. The best case gain of the antenna is 0.7dBi.



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7.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Compruse Power Supply Power Table RF test System System Instrument
Test Procedure:	 PKPM1 Peak power meter measurement The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector. Method AVGPM-G Average power measurement Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix C of EED32O80416501 Appendix 2.4G DTS



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7.3 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)								
Test Method:	ANSI C63.10 2013								
Test Setup:									
	Control Computer Power Bupply Power Foot Temperature Cabriet Table RF test System System Instrument								
	Remark: Offset=Cable loss+ attenuation factor.								
Test Procedure:	 a) Set RBW = 100 kHz. b) Set the VBW ≥[3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. 								
Limit:	≥ 500 kHz								
Test Mode:	Refer to clause 5.3								
Test Results:	Refer to Appendix A of EED32O80416501 Appendix 2.4G DTS								





7.4 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013
Test Setup:	
	Control Control Power Supply Power Supply Power Table RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 a) Set analyzer center frequency to DTS channel center frequency. b) Set the span to 1.5 times the DTS bandwidth. c) Set the RBW to 3 kHz < RBW < 100 kHz. d) Set the VBW > [3 × RBW]. e) Detector = peak. f) Sweep time = auto couple. g) Trace mode = max hold. h) Allow trace to fully stabilize. i) Use the peak marker function to determine the maximum amplitude level within the RBW. j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
Limit:	≤8.00dBm/3kHz
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix D of EED32O80416501 Appendix 2.4G DTS





7.5 Band Edge Measurements and Conducted Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.247 (d)						
Test Method:	ANSI C63.10 2013						
Test Setup:	Control Corpord Power Supply Power Supply Table RF test System Instrument Instrument						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	a) Set RBW = 100KHz. b) Set VBW = 300KHz. c) Sweep time = auto couple. d) Detector = peak. e) Trace mode = max hold. f) Allow trace to fully stabilize. g) Use peak marker function to determine the peak amplitude level.						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test Mode:	Refer to clause 5.3						
Test Results:	Refer to Appendix E & Appendix F of EED32O80416501 Appendix 2.4G DTS						



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7.6 Radiated Spurious Emission & Restricted bands

 1674	16727		LECT I			16.7			
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	10	Detector	RBW	1	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	2	30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	<u>z</u>	30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	<u>z</u>	30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	<u>z</u>	30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	<u>z</u>	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	<u>z</u>	30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	<u>-</u>	3MHz	Peak		
			Peak	1MHz		10kHz	Average		
Limit:	Frequency	1	eld strength crovolt/meter)	Limit (dBuV/m)	Remark		Measureme distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300		
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30		
	1.705MHz-30MHz		30	-	-		30		
	30MHz-88MHz		100	40.0	Q	uasi-peak	3		
	88MHz-216MHz		150	43.5	Q	uasi-peak	3		
	216MHz-960MHz		200	46.0	Q	uasi-peak	3		
	960MHz-1GHz		500	54.0	Q	uasi-peak	3		
	Above 1GHz		500	54.0		Average	3		
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								



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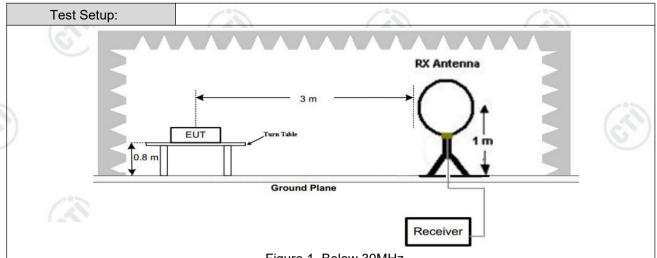
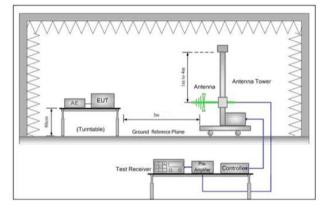


Figure 1. Below 30MHz



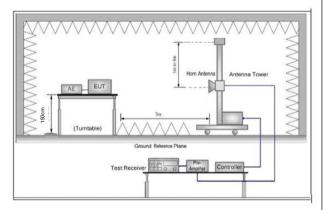


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both



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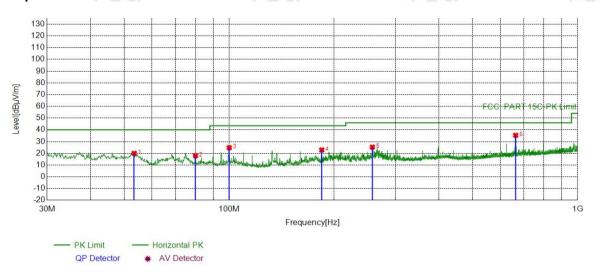
	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Refer to clause 5.3
Test Results:	Pass





Radiated Spurious Emission below 1GHz:

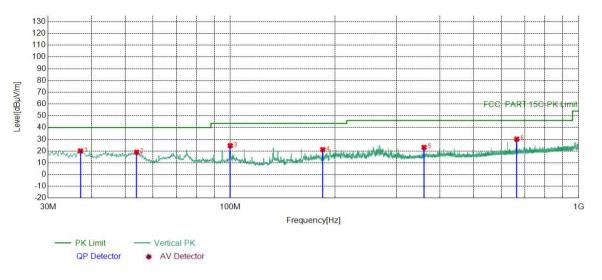
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of CCK was recorded in the report.



Suspec	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	53.3793	-17.62	37.64	20.02	40.00	19.98	PASS	Horizontal	PK			
2	80.0570	-22.55	40.50	17.95	40.00	22.05	PASS	Horizontal	PK			
3	100.0410	-18.40	43.16	24.76	43.50	18.74	PASS	Horizontal	PK			
4	184.3424	-19.36	42.24	22.88	43.50	20.62	PASS	Horizontal	PK			
5	257.5848	-16.40	41.66	25.26	46.00	20.74	PASS	Horizontal	PK			
6	663.9584	-8.10	43.48	35.38	46.00	10.62	PASS	Horizontal	PK			



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Suspec	Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
1	37.1787	-18.92	39.05	20.13	40.00	19.87	PASS	Vertical	PK			
2	53.8644	-17.69	36.78	19.09	40.00	20.91	PASS	Vertical	PK			
3	100.0410	-18.40	43.00	24.60	43.50	18.90	PASS	Vertical	PK			
4	184.3424	-19.36	40.60	21.24	43.50	22.26	PASS	Vertical	PK			
5	360.0270	-13.80	36.99	23.19	46.00	22.81	PASS	Vertical	PK			
6	664.0554	-8.10	38.29	30.19	46.00	15.81	PASS	Vertical	PK			



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Radiated Spurious Emission above 1GHz:

Mode:			2.4G Transmitti	ng	Channe	el:	2466MHz		
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1198.4198	0.80	44.58	45.38	74.00	28.62	PASS	Н	PK
2	1867.8868	3.79	39.93	43.72	74.00	30.28	PASS	Н	PK
3	4219.0813	-17.87	55.45	37.58	74.00	36.42	PASS	Н	PK
4	5789.1859	-13.61	53.34	39.73	74.00	34.27	PASS	Н	PK
5	7751.3168	-11.21	52.98	41.77	74.00	32.23	PASS	Н	PK
6	11428.5619	-6.16	51.70	45.54	74.00	28.46	PASS	Н	PK
7	1198.8199	0.80	45.39	46.19	74.00	27.81	PASS	V	PK
8	1902.4902	4.04	39.33	43.37	74.00	30.63	PASS	V	PK
9	4118.0745	-18.16	56.23	38.07	74.00	35.93	PASS	V	PK
10	6635.2423	-12.71	53.64	40.93	74.00	33.07	PASS	V	PK
11	9221.4148	-7.89	51.72	43.83	74.00	30.17	PASS	V	PK
12	13685.7124	-1.75	49.28	47.53	74.00	26.47	PASS	V	PK

Mode	Mode:		2.4G Transmitti	ng		Channe	el:	2473MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1294.0294	1.04	41.32	42.36	74.00	31.64	PASS	Н	PK
2	1694.4694	2.90	39.61	42.51	74.00	31.49	PASS	Н	PK
3	4771.1181	-16.33	55.21	38.88	74.00	35.12	PASS	Н	PK
4	7017.2678	-11.78	52.21	40.43	74.00	33.57	PASS	Н	PK
5	9935.4624	-7.13	50.89	43.76	74.00	30.24	PASS	Н	PK
6	12376.6251	-4.93	52.01	47.08	74.00	26.92	PASS	Н	PK
7	1196.4196	0.80	45.09	45.89	74.00	28.11	PASS	V	PK
8	1796.2796	3.27	40.17	43.44	74.00	30.56	PASS	V	PK
9	5004.1336	-15.81	54.60	38.79	74.00	35.21	PASS	V	PK
10	7418.2946	-11.43	56.49	45.06	74.00	28.94	PASS	V	PK
11	9891.4594	-7.10	52.73	45.63	74.00	28.37	PASS	V	PK
12	13764.7176	-1.68	48.91	47.23	74.00	26.77	PASS	V	PK



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Mode	Mode:		2.4G Transmitti	ng		Channel:		2480MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1266.8267	0.97	40.98	41.95	74.00	32.05	PASS	Н	PK
2	1706.0706	2.96	40.10	43.06	74.00	30.94	PASS	Н	PK
3	5027.1351	-15.78	55.20	39.42	74.00	34.58	PASS	Н	PK
4	7779.3186	-11.31	53.47	42.16	74.00	31.84	PASS	Н	PK
5	10760.5174	-6.32	51.01	44.69	74.00	29.31	PASS	Н	PK
6	13251.6834	-3.29	50.77	47.48	74.00	26.52	PASS	Н	PK
7	1342.4342	1.20	41.09	42.29	74.00	31.71	PASS	V	PK
8	1796.2796	3.27	40.67	43.94	74.00	30.06	PASS	V	PK
9	4378.0919	-17.09	55.12	38.03	74.00	35.97	PASS	V	PK
10	6870.2580	-12.00	52.59	40.59	74.00	33.41	PASS	V	PK
11	9200.4134	-7.88	51.74	43.86	74.00	30.14	PASS	V	PK
12	12599.6400	-4.11	51.14	47.03	74.00	26.97	PASS	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

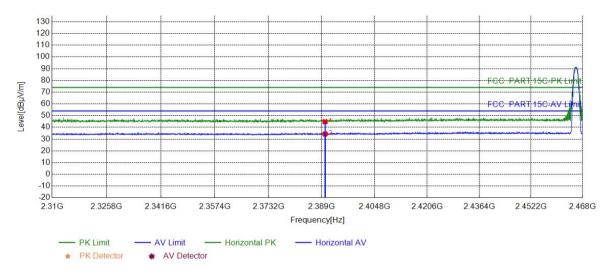




Restricted bands:

Test plot as follows:



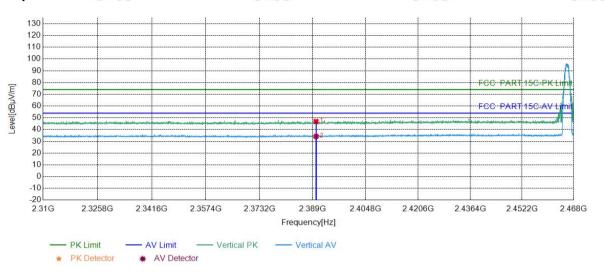


Suspec	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390.0000	5.77	39.09	44.86	74.00	29.14	PASS	Horizontal	PK		
2	2390.0000	5.77	28.57	34.34	54.00	19.66	PASS	Horizontal	AV		



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		10.4	15.4.7.7
Mode:	2.4G Transmitting	Channel:	2466 MHz
Remark:			

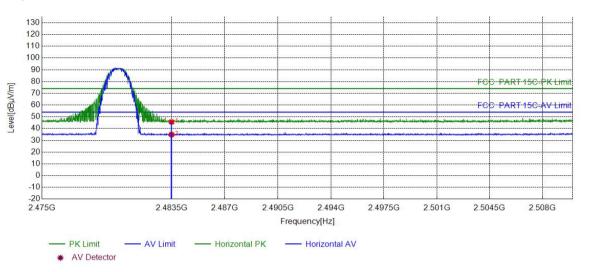


Suspec	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2390.0000	5.77	41.13	46.90	74.00	27.10	PASS	Vertical	PK		
2	2390.0000	5.77	28.45	34.22	54.00	19.78	PASS	Vertical	AV		



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	15.4	10.4	15.4
Mode:	2.4G Transmitting	Channel:	2480 MHz
Remark:			



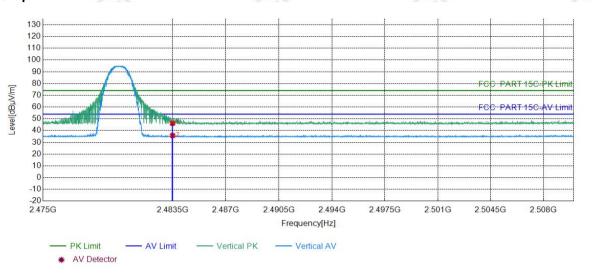
Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	2483.5000	6.57	39.07	45.64	74.00	28.36	PASS	Horizontal	PK	
2	2483.5000	6.57	28.32	34.89	54.00	19.11	PASS	Horizontal	AV	



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Mode:	2.4G Transmitting	Channel:	2480 MHz
Remark:			

Test Graph



Suspec	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	2483.5000	6.57	39.63	46.20	74.00	27.80	PASS	Vertical	PK		
2	2483.5000	6.57	29.23	35.80	54.00	18.20	PASS	Vertical	AV		

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor