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TEST REPORT

Report No. CTC2024165210

FCC ID...... 2AJH3-TV-179K

Applicant Dune HD(HK) Limited

Road Central, Central, Hong Kong

Manufacturer...... Dune HD(HK) Limited

Road Central, Central, Hong Kong

Product Name Kartina EVA

Trade Mark Kartina, Kartina TV, Dune HD

Model/Type reference.....: TV-179K

Listed Model(s) /

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample....... Jul. 4, 2024

Date of issue...... Sept. 4, 2024

Result...... PASS

Compiled by:

(Printed name+signature) Jim Jiang

Supervised by:

(Printed name+signature) Eric Zhang

Approved by:

(Printed name+signature) Totti Zhao

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Ziczhang Jeans





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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

RSS-247 Issue 3: Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

RSS-Gen Issue 5: General Requirements for Compliance of Radio Apparatus.

<u>ANSI C63.10-2013</u>: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2024165210	Sept. 4, 2024	Original

1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS-247 Issue 3					
Test Item	Standard	Section	Result	Test	
rest item	FCC	IC	Result	Engineer	
Antenna Requirement	15.203	RSS-Gen 6.8	Pass	Jim Jiang	
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jim Jiang	
Restricted Bands	15.205	RSS-Gen 8.10	Pass	Jim Jiang	
Hopping Channel Separation	15.247(a)(1)	RSS-247 5.1 (b)	Pass	Jim Jiang	
Dwell Time	15.247(a)(iii)	RSS-247 5.1 (d)	Pass	Jim Jiang	
Peak Output Power	15.247(b)(1)	RSS-247 5.4 (b)	Pass	Jim Jiang	
Number of Hopping Frequency	15.247(a)(iii)	RSS-247 5.1 (d)	Pass	Jim Jiang	
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS-247 5.5	Pass	Jim Jiang	
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS-247 5.5	Pass	Jim Jiang	
Radiated Spurious Emission	15.247(d) &15.209	RSS-247 5.5& RSS-Gen 8.9	Pass	Jim Jiang	
20dB Bandwidth	15.247(a)	RSS-247 5.1 (b)	Pass	Jim Jiang	

Note:

- 1. The measurement uncertainty is not included in the test result.
- 2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 101 Building B, Room 107, 108, 207, 208, 303 Building A, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China (formerly 2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, High-Tech Park, Guanlan Sub-District, Longhua New District, Shenzhen, Guangdong, China)

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.

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1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
20dB Emission Bandwidth	±0.0196%	(1)
Carrier Frequency Separation	±1.9%	(1)
Number of Hopping Channel	±1.9%	(1)
Time of Occupancy	±0.028%	(1)
Max Peak Conducted Output Power	±0.743 dB	(1)
Band-edge Spurious Emission	±1.328 dB	(1)
Conducted RF Spurious Emission	9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB	(1)
Conducted Emissions 9kHz~30MHz	±3.08 dB	(1)
Radiated Emissions 30~1000MHz	±4.51 dB	(1)
Radiated Emissions 1~18GHz	±5.84 dB	(1)
Radiated Emissions 18~40GHz	±6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Dune HD(HK) Limited
Address:	10th Floor, Shun On Commercial Building, 112-114 Des Voeux Road Central, Central, Hong Kong
Manufacturer:	Dune HD(HK) Limited
Address:	10th Floor, Shun On Commercial Building, 112-114 Des Voeux Road Central, Central, Hong Kong

2.2. General Description of EUT

Product Name:	Kartina EVA
Trade Mark:	Kartina, Kartina TV, Dune HD
Model/Type reference:	TV-179K
Listed Model(s):	/
Model Difference:	/
Power Supply:	Input: 5V===2A
Hardware Version:	/
Software Version:	/
Bluetooth 5.0 / BR+EDR	
Modulation:	GFSK, π/4-DQPSK, 8-DPSK
Operation Frequency:	2402MHz~2480MHz
Channel Number:	79
Channel Separation:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	1.88dBi





2.3. Accessory Equipment Information

Equipment Information						
Name	Model	S/N	Manufacturer			
AC Adapter	TEKA012-0502000EU	/	TEKA			
Notebook	ThinkPad T460s	/	Lenovo			
Cable Information						
Name	Shielded Type	Ferrite Core	Length			
/	/	/	/			
Test Software Informat	Test Software Information					
Name	Version	/	/			
adb tool	/	/	/			



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2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
÷	i i
77	2479
78	2480

Note: The display in grey were the channel selected for testing.

Test Mode:

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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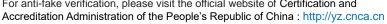




2.5. Measurement Instruments List

Tonscend RF Test System					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024
2	Spectrum Analyzer	R&S	FSV40-N	101654	Aug. 07, 2024
3	Spectrum Analyzer	R&S	FSU26	100105	Dec. 12, 2024
4	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2024
5	MXA Signal Analyzer	Keysight	N9020A	MY52091402	Aug. 22, 2024
6	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2024
7	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2024
8	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2024
9	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2024
10	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 14, 2024
11	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 14, 2024
12	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2024
13	RF Control Unit	Tonscend	JS0806-2	/	Aug. 22, 2024
14	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 24, 2024

Radiated Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until	
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024	
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Sep. 25, 2025	
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2024	
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2024	
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2024	
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026	
7	Test Software	FARA	EZ-EMC	FA-03A2	/	







Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until	
1	LISN	R&S	ENV216	101112	Dec. 12, 2024	
2	LISN	R&S	ENV216	101113	Dec. 12, 2024	
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2024	
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2024	
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2024	
6	Test Software	R&S	EMC32	6.10.10	/	

Note: 1. The Cal. Interval was one year.

- 2. The Cal. Interval was three years of the antenna.
- 3. The cable loss has been calculated in test result which connection between each test instruments.



3. TEST ITEM AND RESULTS

3.1. Conducted Emission

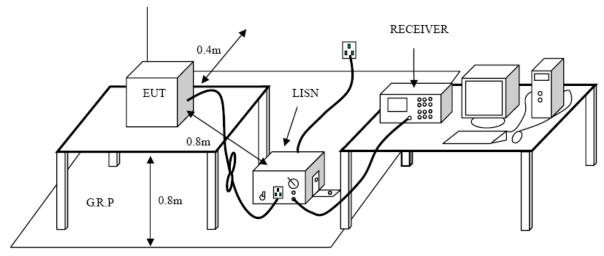
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207 / RSS-Gen 8.8

Fraguency (MHz)	Conducted Limit (dBµV)						
Frequency (MHz)	Quasi-peak	Average					
0.15 - 0.5	66 to 56 *	56 to 46 *					
0.5 - 5	56	46					
5 - 30	60	50					

^{*} Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

- The EUT was setup according to ANSI C63.10:2013 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting 2. ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 µH coupling impedance for the measuring equipment.
- The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a 7. receiver bandwidth of 9 kHz.
- During the above scans, the emissions were maximized by cable manipulation.

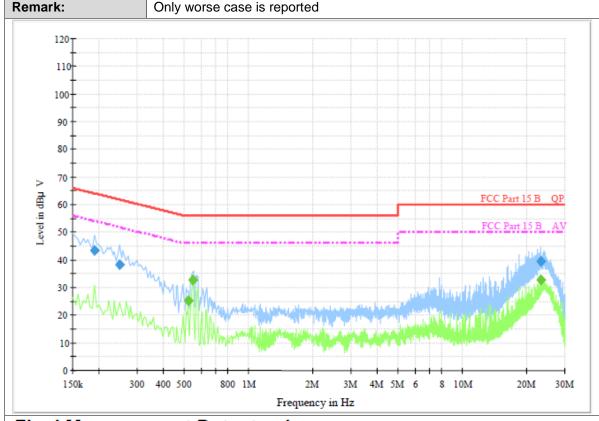
Test Mode

Please refer to the clause 2.4.



Test Result

Terminal:	Line
Test Voltage:	AC 120V/60Hz



Final Measurement Detector 1

	ou ou i o i i i	VIIIC D V							
Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.190500	43.3	1000.00	9.000	On	L1	9.5	20.7	64.0	
0.249000	38.5	1000.00	9.000	On	L1	9.5	23.3	61.8	
23.127000	39.4	1000.00	9.000	On	L1	9.7	20.6	60.0	·

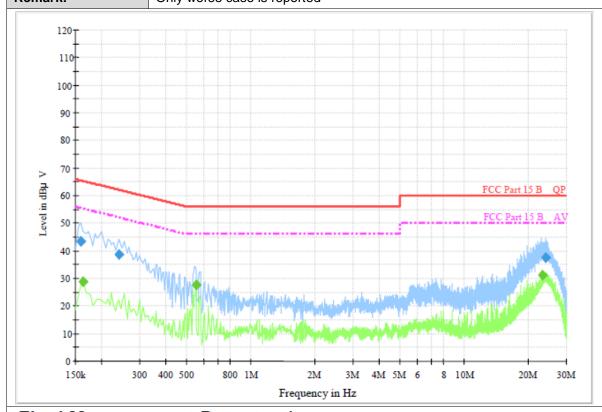
Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment		
0.519000	25.2	1000.00	9.000	On	L1	9.5	20.8	46.0			
0.546000	32.8	1000.00	9.000	On	L1	9.5	13.2	46.0			
23.127000	32.7	1000.00	9.000	On	L1	9.7	17.3	50.0			

Emission Level = Read Level + Correct Factor



Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Remark:	Only worse case is reported



Final Measurement Detector 1

	ououi oiii	UII. 20							
Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.159000	43.4	1000.00	9.000	On	N	9.5	22.1	65.5	
0.240000	38.5	1000.00	9.000	On	N	9.4	23.6	62.1	
23.973000	37.4	1000.00	9.000	On	N	9.5	22.6	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.163500	29.0	1000.00	9.000	On	N	9.5	26.3	55.3	
0.550500	27.6	1000.00	9.000	On	N	9.4	18.4	46.0	
23.131500	31.0	1000.00	9.000	On	N	9.5	19.0	50.0	

Emission Level = Read Level + Correct Factor



3.2. Radiated Emission

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209 / RSS-Gen 8.9

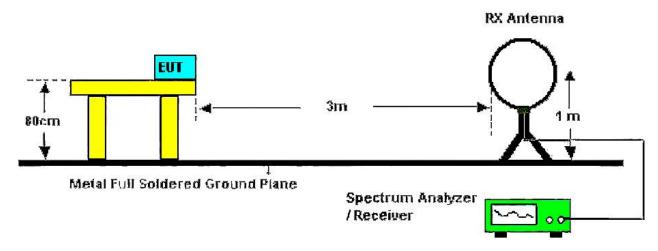
Frequency	Field Strength	Measurement Distance				
(MHz)	(microvolts/meter)	(meters)				
0.009~0.490	2400/F (kHz)	300				
0.490~1.705	24000/F (kHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
960~1000	500	3				

Frequency Range (MHz)	dBμV/m (at 3 meters)					
Frequency Range (MHZ)	Peak	Average				
Above 1000	74	54				

Note:

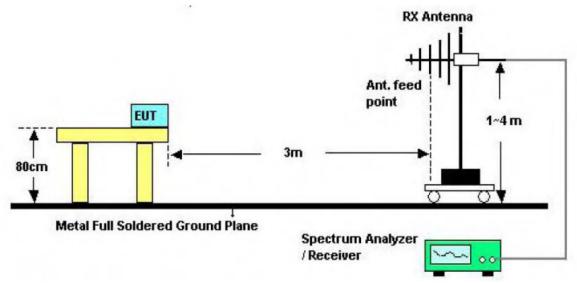
- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

Test Configuration

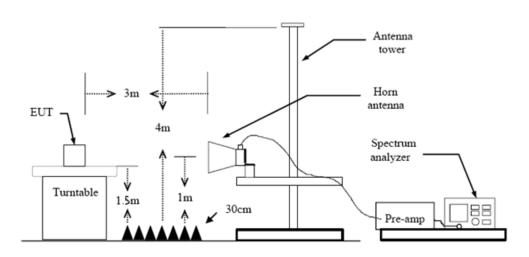


Below 30MHz Test Setup





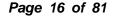
30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

- The EUT was setup and tested according to ANSI C63.10:2013.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
- (1) Span shall wide enough to fully capture the emission being measured;





(2) 9k - 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold (3) 0.15M - 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold (4) 30M - 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(5) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

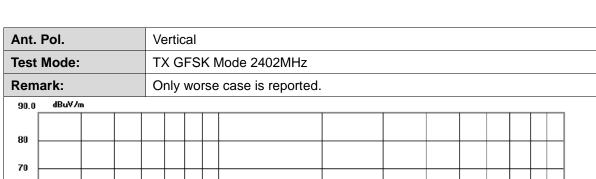
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

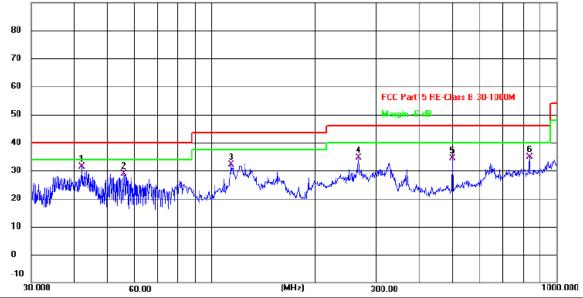
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Ant.	Pol.			Н	Horizontal												
Test	Mode:			(T	TX GFSK Mode 2402MHz												
Rem	ark:			Oı	Only worse case is reported.												
90.0	dBuV/r	n														_	
80																\dashv	
70																\dashv	
60										FCC Part	5 RE-CI	ass B :	30-100	ОМ		-	
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40									3					5	6 X	4	
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	85.5973	47.84	-20.77	27.07	40.00	-12.93	QP
2	128.5629	50.63	-20.81	29.82	43.50	-13.68	QP
3	266.6089	48.45	-15.83	32.62	46.00	-13.38	QP
4	499.4246	42.78	-10.50	32.28	46.00	-13.72	QP
5	724.2607	39.61	-6.49	33.12	46.00	-12.88	QP
6 *	833.3171	38.86	-4.96	33.90	46.00	-12.10	QP

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	42.1542	47.57	-16.07	31.50	40.00	-8.50	QP
2	55.8046	45.28	-16.36	28.92	40.00	-11.08	QP
3	114.1138	50.54	-18.38	32.16	43.50	-11.34	QP
4	266.6089	50.51	-15.83	34.68	46.00	-11.32	QP
5	499.4247	44.76	-10.50	34.26	46.00	-11.74	QP
6	833.4832	39.79	-4.96	34.83	46.00	-11.17	QP

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2966.167	46.51	-2.19	44.32	74.00	-29.68	peak
2	5163.417	40.04	2.76	42.80	74.00	-31.20	peak
3	6350.167	39.88	6.87	46.75	74.00	-27.25	peak
4	8014.750	39.95	10.83	50.78	74.00	-23.22	peak
5	9624.500	40.00	12.64	52.64	74.00	-21.36	peak
6 *	12460.167	37.78	15.66	53.44	74.00	-20.56	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1262.417	46.96	-7.45	39.51	74.00	-34.49	peak
2	2966.167	45.02	-2.19	42.83	74.00	-31.17	peak
3	3910.083	41.13	0.18	41.31	74.00	-32.69	peak
4	6436.333	39.44	7.16	46.60	74.00	-27.40	peak
5	9350.333	38.70	12.50	51.20	74.00	-22.80	peak
6 *	11661.167	38.25	15.12	53.37	74.00	-20.63	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2186.750	43.40	-3.54	39.86	74.00	-34.14	peak
2	2966.167	46.41	-2.19	44.22	74.00	-29.78	peak
3	4278.250	40.97	0.89	41.86	74.00	-32.14	peak
4	7227.500	39.47	10.03	49.50	74.00	-24.50	peak
5	7932.500	39.56	10.71	50.27	74.00	-23.73	peak
6 *	12307.417	37.83	15.60	53.43	74.00	-20.57	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1246.750	47.41	-7.51	39.90	74.00	-34.10	peak
2	2966.167	42.50	-2.19	40.31	74.00	-33.69	peak
3	3921.833	41.35	0.24	41.59	74.00	-32.41	peak
4	5543.333	40.68	3.90	44.58	74.00	-29.42	peak
5	8543.500	40.11	10.86	50.97	74.00	-23.03	peak
6 *	12538.500	37.34	15.89	53.23	74.00	-20.77	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2178.917	44.16	-3.61	40.55	74.00	-33.45	peak
2	2966.167	43.82	-2.19	41.63	74.00	-32.37	peak
3	5163.417	41.36	2.76	44.12	74.00	-29.88	peak
4	7470.333	39.44	10.09	49.53	74.00	-24.47	peak
5	9632.333	39.95	12.65	52.60	74.00	-21.40	peak
6 *	12401.417	37.98	15.49	53.47	74.00	-20.53	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1246.750	47.51	-7.51	40.00	74.00	-34.00	peak
2	2966.167	44.76	-2.19	42.57	74.00	-31.43	peak
3	5085.083	40.12	2.53	42.65	74.00	-31.35	peak
4	7121.750	39.76	9.60	49.36	74.00	-24.64	peak
5	9796.833	40.32	12.94	53.26	74.00	-20.74	peak
6 *	12330.917	37.88	15.57	53.45	74.00	-20.55	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1047.000	49.34	-8.22	41.12	74.00	-32.88	peak
2	2966.167	45.74	-2.19	43.55	74.00	-30.45	peak
3	3710.333	42.37	-0.51	41.86	74.00	-32.14	peak
4	5245.667	40.30	2.99	43.29	74.00	-30.71	peak
5	7952.083	38.88	10.76	49.64	74.00	-24.36	peak
6 *	11880.500	38.20	15.23	53.43	74.00	-20.57	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1039.167	53.72	-8.24	45.48	74.00	-28.52	peak
2	2131.917	45.12	-4.03	41.09	74.00	-32.91	peak
3	2966.167	49.34	-2.19	47.15	74.00	-26.85	peak
4	3933.583	41.89	0.28	42.17	74.00	-31.83	peak
5	7219.667	38.87	10.03	48.90	74.00	-25.10	peak
6 *	11038.417	38.59	14.69	53.28	74.00	-20.72	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1039.167	49.24	-8.24	41.00	74.00	-33.00	peak
2	2159.333	43.89	-3.80	40.09	74.00	-33.91	peak
3	2966.167	44.85	-2.19	42.66	74.00	-31.34	peak
4	7223.583	39.23	10.03	49.26	74.00	-24.74	peak
5	9142.750	39.07	12.18	51.25	74.00	-22.75	peak
6 *	11152.000	38.83	14.74	53.57	74.00	-20.43	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1039.167	53.32	-8.24	45.08	74.00	-28.92	peak
2	2966.167	49.49	-2.19	47.30	74.00	-26.70	peak
3	3902.250	42.25	0.16	42.41	74.00	-31.59	peak
4	6040.750	40.13	5.77	45.90	74.00	-28.10	peak
5	8042.167	40.26	10.76	51.02	74.00	-22.98	peak
6 *	11602.417	38.13	15.13	53.26	74.00	-20.74	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1047.000	51.62	-8.22	43.40	74.00	-30.60	peak
2	2966.167	46.72	-2.19	44.53	74.00	-29.47	peak
3	5049.833	41.47	2.41	43.88	74.00	-30.12	peak
4	7278.417	38.83	10.05	48.88	74.00	-25.12	peak
5	10309.917	39.23	13.74	52.97	74.00	-21.03	peak
6 *	12522.833	37.64	15.84	53.48	74.00	-20.52	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1050.917	50.23	-8.21	42.02	74.00	-31.98	peak
2	1618.833	46.62	-6.90	39.72	74.00	-34.28	peak
3	2966.167	49.61	-2.19	47.42	74.00	-26.58	peak
4	5104.667	40.49	2.58	43.07	74.00	-30.93	peak
5	7619.167	39.95	10.10	50.05	74.00	-23.95	peak
6 *	11625.917	38.31	15.12	53.43	74.00	-20.57	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1050.917	52.32	-8.21	44.11	74.00	-29.89	peak
2	1618.833	49.24	-6.90	42.34	74.00	-31.66	peak
3	2966.167	44.50	-2.19	42.31	74.00	-31.69	peak
4	5167.333	40.91	2.78	43.69	74.00	-30.31	peak
5	9095.750	39.52	12.01	51.53	74.00	-22.47	peak
6 *	11813.917	38.34	15.12	53.46	74.00	-20.54	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1035.250	51.92	-8.25	43.67	74.00	-30.33	peak
2	1611.000	51.80	-6.91	44.89	74.00	-29.11	peak
3	2966.167	49.44	-2.19	47.25	74.00	-26.75	peak
4	8010.833	39.24	10.84	50.08	74.00	-23.92	peak
5	10392.167	39.08	13.88	52.96	74.00	-21.04	peak
6 *	12487.583	37.77	15.74	53.51	74.00	-20.49	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1618.833	50.41	-6.90	43.51	74.00	-30.49	peak
2	2966.167	44.89	-2.19	42.70	74.00	-31.30	peak
3	5167.333	41.47	2.78	44.25	74.00	-29.75	peak
4	6945.500	40.42	8.66	49.08	74.00	-24.92	peak
5	8872.500	40.06	11.51	51.57	74.00	-22.43	peak
6 *	12029.333	37.88	15.49	53.37	74.00	-20.63	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1031.333	52.35	-8.27	44.08	74.00	-29.92	peak
2	1618.833	51.56	-6.90	44.66	74.00	-29.34	peak
3	2966.167	49.13	-2.19	46.94	74.00	-27.06	peak
4	5598.167	41.21	4.11	45.32	74.00	-28.68	peak
5	9146.667	39.87	12.19	52.06	74.00	-21.94	peak
6 *	11657.250	38.41	15.12	53.53	74.00	-20.47	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1050.917	49.15	-8.21	40.94	74.00	-33.06	peak
2	1618.833	49.55	-6.90	42.65	74.00	-31.35	peak
3	2966.167	45.01	-2.19	42.82	74.00	-31.18	peak
4	4912.750	41.62	2.14	43.76	74.00	-30.24	peak
5	7192.250	40.35	9.98	50.33	74.00	-23.67	peak
6 *	12405.333	37.64	15.51	53.15	74.00	-20.85	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1031.333	51.94	-8.27	43.67	74.00	-30.33	peak
2	1618.833	50.55	-6.90	43.65	74.00	-30.35	peak
3	2966.167	49.31	-2.19	47.12	74.00	-26.88	peak
4	7266.667	38.89	10.05	48.94	74.00	-25.06	peak
5	9205.417	40.33	12.37	52.70	74.00	-21.30	peak
6 *	12244.750	38.12	15.67	53.79	74.00	-20.21	peak

Remarks

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



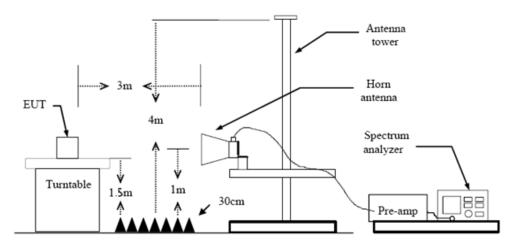
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 5.5

Restricted Frequency Band	(dBµV/m) (at 3m)				
(MHz)	Peak	Average			
2310 ~ 2390	74	54			
2483.5 ~ 2500	74	54			

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

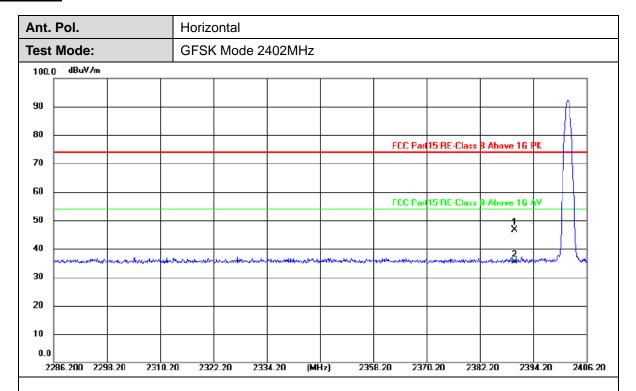
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.



Test Result



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	15.40	31.31	46.71	74.00	-27.29	peak
2 *	2390.000	4.12	31.31	35.43	54.00	-18.57	AVG

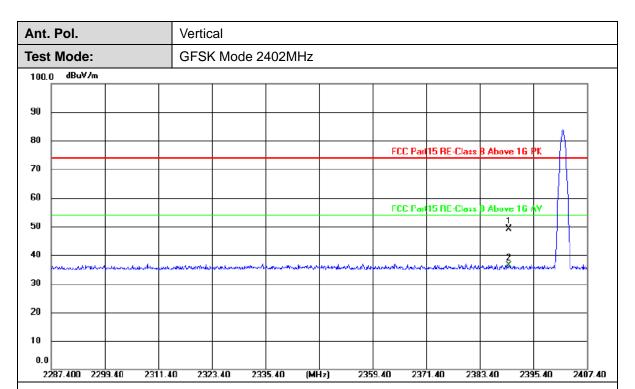
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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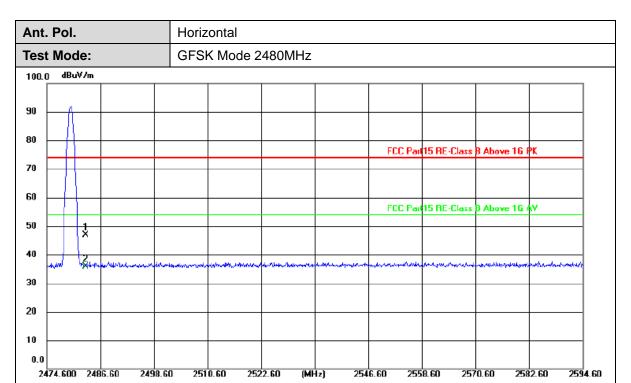


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	17.93	31.31	49.24	74.00	-24.76	peak
2 *	2390.000	5.02	31.31	36.33	54.00	-17.67	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	15.48	31.48	46.96	74.00	-27.04	peak
2 *	2483.500	4.32	31.48	35.80	54.00	-18.20	AVG

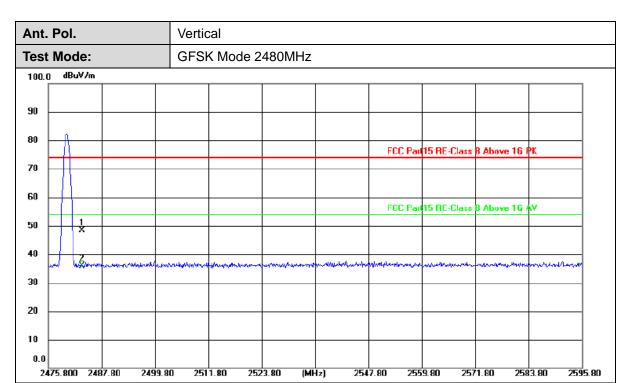
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	16.95	31.48	48.43	74.00	-25.57	peak
2 *	2483.500	4.30	31.48	35.78	54.00	-18.22	AVG

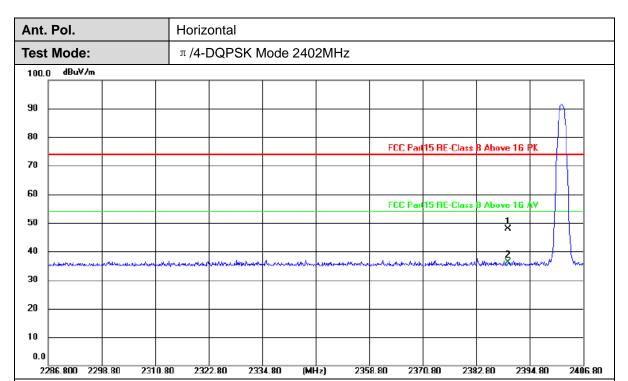
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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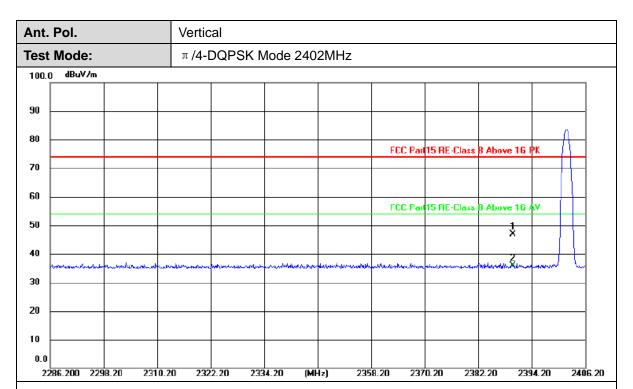


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	16.50	31.31	47.81	74.00	-26.19	peak
2 *	2390.000	4.85	31.31	36.16	54.00	-17.84	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



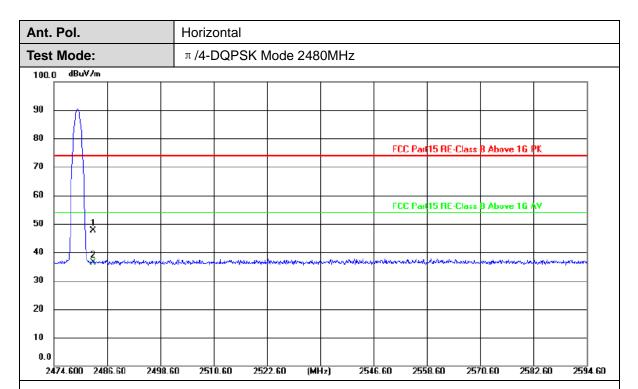


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	15.65	31.31	46.96	74.00	-27.04	peak
2 *	2390.000	4.65	31.31	35.96	54.00	-18.04	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



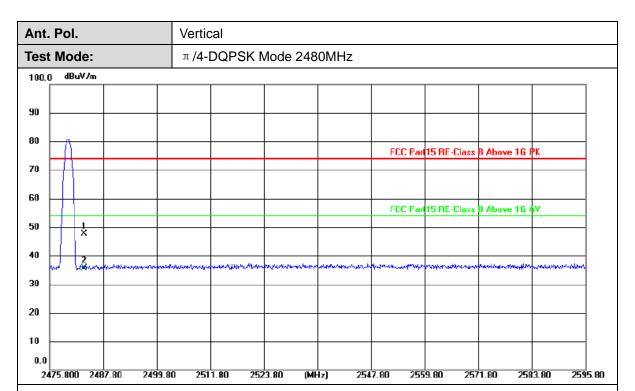


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	16.14	31.48	47.62	74.00	-26.38	peak
2 *	2483.500	4.83	31.48	36.31	54.00	-17.69	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	16.14	31.48	47.62	74.00	-26.38	peak
2 *	2483.500	4.23	31.48	35.71	54.00	-18.29	AVG

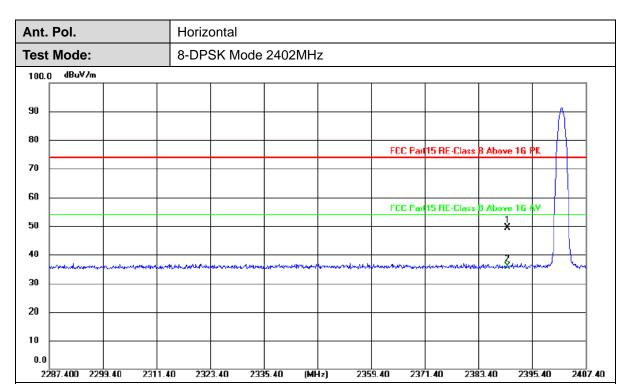
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	18.03	31.31	49.34	74.00	-24.66	peak
2 *	2390.000	4.46	31.31	35.77	54.00	-18.23	AVG

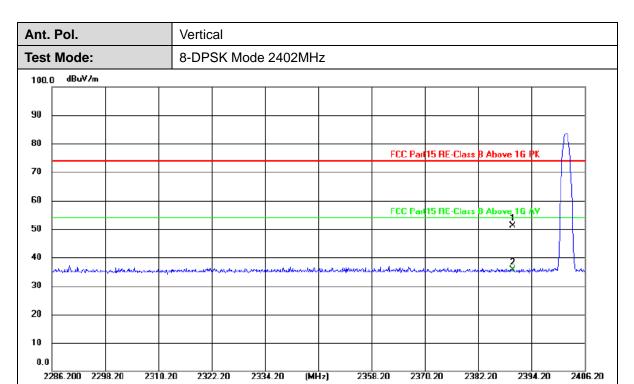
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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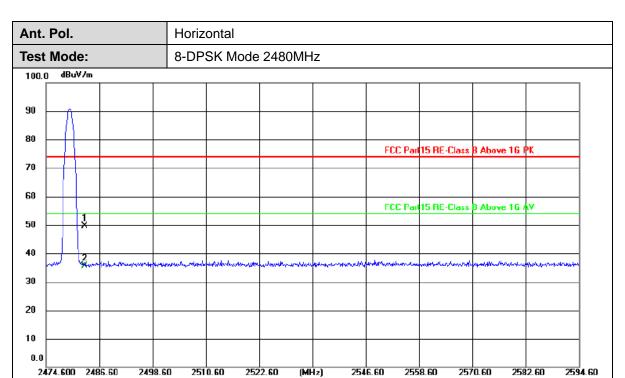


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	19.94	31.31	51.25	74.00	-22.75	peak
2 *	2390.000	4.21	31.31	35.52	54.00	-18.48	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





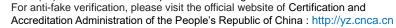
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	18.07	31.48	49.55	74.00	-24.45	peak
2 *	2483.500	4.20	31.48	35.68	54.00	-18.32	AVG

Remarks:

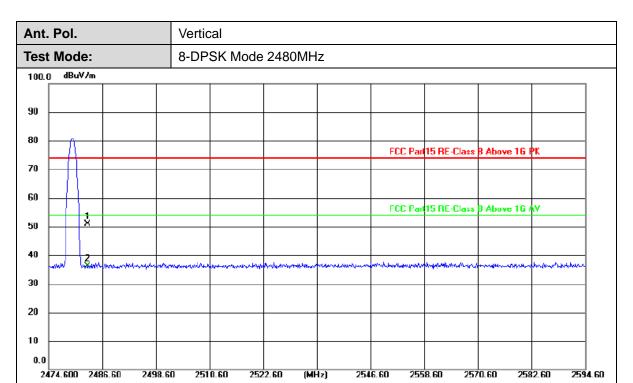
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	19.32	31.48	50.80	74.00	-23.20	peak
2 *	2483.500	4.60	31.48	36.08	54.00	-17.92	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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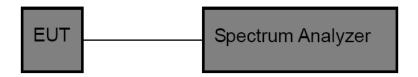
3.4. Band Edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 5.5

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Configuration



Test Procedure

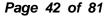
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic. Sweep = auto, Detector function = peak, Trace = max hold.
- 4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

CTC Laboratories, Inc.

Accreditation Administration of the People's Republic of China: http://yz.cnca.cn





Test Result

Conducted Band edge

Correction Daria Cago											
Test Mode	Antenna	ChName	Freq(MHz)	RefLevel	Result	Limit	Verdict				
				[dBm]	[dBm]	[dBm]					
DH5	Ant1	Low	2402	3.00	-49.07	≤-17.00	PASS				
		High	2480	1.40	-46.87	≤-18.60	PASS				
		Low	Hop_2402	6.64	-41.87	≤-13.36	PASS				
		High	Hop_2480	5.77	-35.85	≤-14.23	PASS				
	Ant1	Low	2402	5.70	-43.10	≤-14.30	PASS				
2DUE		High	2480	1.57	-43.65	≤-18.43	PASS				
2DH5		Low	Hop_2402	7.15	-41.87	≤-12.85	PASS				
		High	Hop_2480	6.61	-41.33	≤-13.39	PASS				
	Ant1	Low	2402	5.67	-43.62	≤-14.33	PASS				
2015		High	2480	4.13	-42.21	≤-15.87	PASS				
3DH5		Low	Hop_2402	6.82	-42.16	≤-13.18	PASS				
		High	Hop 2480	6.15	-41.45	≤-13.85	PASS				