FCC 47 CFR PART 15 SUBPART C

Report No.: C180524Z01-RP1-2

for

MainStream Main Unit Wireless presenter
Model: MUV1, MUV2, MUV3, MUV4, MUV5, MUV6

Brand: MainStream

<u>Test Report Number:</u>

C180524Z01-RP1-2

Issued for

Certus Eiger Ltd.
814, Houston Center, Mody Road, TST East, Kowloon, Hong Kong

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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> Issued Date: June 12, 2018



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Revision History

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Rev.	Issue Data	Revisions	Effect Page	Revised By
00	June 12, 2018	Initial Issue	ALL	Sinphy Xie

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1 TEST CERTIFICATION

Product	MainStream Main Unit Wireless presenter
Model	MUV1, MUV2, MUV3, MUV4, MUV5, MUV6
Brand	MainStream
Tested	May 24~ June 12, 2018
Applicant	Certus Eiger Ltd. 814, Houston Center, Mody Road, TST East, Kowloon, Hong Kong
Manufacturer	Certus Eiger Ltd. 814, Houston Center, Mody Road, TST East, Kowloon, Hong Kong

APPLICABLE STANDARDS						
Standard	Test Type	Standard	Test Type			
15.207(a)	Power Line Conducted Emissions	15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions			
15.247(a)(2)	6dB Bandwidth Measurement	15.247(b)(3) 15.247(b)(4)	Peak Power Measurement			
15.247(d)	Band Edges Measurement	15.247(e)	Peak Power Spectral Density			

We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Eve Wang

Supervisor of EMC Dept.

Compliance Certification Services (Shenzhen)

Inc.

Nancy Fu

Supervisor of Report Dept.

Compliance Certification Services (Shenzhen)

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Inc.

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2 TEST RESULT SUMMARY

APPLICABLE STANDARDS						
Standard	Test Type	Result	Remark			
15.247(a)(2)	6dB Bandwidth Measurement	Pass	Meet the requirement of limit.			
15.247(b)(3) 15.247(b)(4)	Peak Power Measurement	Pass	Meet the requirement of limit.			
15.247(d)	Band Edges Measurement	Pass	Meet the requirement of limit.			
15.247(e)	Peak Power Spectral Density	Pass	Meet the requirement of limit.			
15.247(d) 15.209(a)	Spurious EmissionsConducted MeasurementRadiated Emissions	Pass	Meet the requirement of limit.			
15.207(a)	Power line Conducted Emissions	Pass	Meet the requirement of limit.			

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Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.

^{2.} The information of measurement uncertainty is available upon the customer's request.

3 EUT DESCRIPTION

Product	MainStream Main Unit Wireless presenter		
Model	MUV1, MUV2, MUV3, MUV4, MUV5, MUV6		
Brand	MainStream		
Model Discrepancy	They are identical to each other except for market designation		
model Disoreparity	for marketing purpose.		
Identify Number	C180524Z01-RP1-2		
Received Date May 24, 2018			
Power Supply	DC5V supplied by the adapter		
	Adapter 1:		
	Moso Power Supply Technology Co., Ltd.		
	Model: MSA-C2000IC5.0-12W-US		
	Input: 100-240Vac 50/60Hz 0.5A max.		
	Output: 5.0Vdc 2A		
Adapter Specification	DC cable: Unshielded, 1.20m(with a core)		
Adapter Specification	Adapter 2:		
	Shenzhen TEKA Technology Co.,Ltd.		
	MODEL: TEKA012-0502000XX		
	INPUT: 100-240Vac 50/60Hz 0.35A MAX		
	OUTPUT: 5Vdc 2A		
	DC cable: Unshielded, 1.20m(with a core)		
HDMI Cable	Shielded, 1.50m		
Frequency Range	2402MHz ~2480MHz		
Transmit Power	6.28dBm		
Modulation Technique	GFSK for 1Mbps		
Number of Channels	40 Channels		
Antenna Specification	Internal antenna with 2dBi gain (Max)		
Temperature Range	0°C ~ +45°C		
Hardware Version	1.7		
Software Version	4.9		

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Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

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^{2.} This submittal(s) (test report) is intended for <u>FCC ID:2APYB-9C1D3E</u> filing to comply with Section 15.207, 15.209 and 15.247of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Used the "RFTestTool-com.ampak.rftesttool-1.0-1.apk" software to control the EUT for

staying in continuous transmitting and receiving mode is programmed.

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: Normal (AC120V/60Hz)	
	Mode 2: Normal (AC240V/50Hz)	\boxtimes
Radiated Emission	Mode 1: Continuously Transmitting	\boxtimes

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After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

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5 SETUP OF EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF SUPPORT UNITS

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

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No	Equipment	Model	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Monitor	P2317H	CN-02J06R-74261-7 27-3A88-A00	N/A	DELL	Shielded 1.50m	Unshielded 1.50m
2	Keyboard	PR1101V	539130-001	N/A	DELL	Shielded 1.50m	N/A
3	Mouse	WB365PA#AB2	2HTJMB101178-317	N/A	DELL	Shielded 1.45m	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

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5.3. TEST INSTRUMENTS

Conducted Emission Test Site							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	01/27/2018	01/26/2019		
LISN(EUT)	ROHDE&SCHWARZ	ENV216	101543-WX	01/27/2018	01/26/2019		
LISN	EMCO	3825/2	8901-1459	01/27/2018	01/26/2019		
Temp. / Humidity Meter	VICTOR	HTC-1	N/A	01/29/2018	01/28/2019		
Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE					

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Radiated Emission Test Site 966 (2)							
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration		
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019		
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	01/27/2018	01/26/2019		
Amplifier	EMEC	EM330	060661	01/27/2018	01/26/2019		
High Noise Amplifier	Agilent	8449B	3008A01838	01/27/2018	01/26/2019		
Loop Antenna	COM-POWER	AL-130	121044	01/30/2018	01/29/2019		
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2018	02/20/2019		
Horn Antenna	SCHWARZBECK	BBHA9120	D286	01/27/2018	01/26/2019		
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	01/24/2018	01/23/2019		
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R		
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R		
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R		
Controller	СТ	N/A	N/A	N.C.R	N.C.R		
Temp. / Humidity Meter	Anymetre	JR913	N/A	01/29/2018	01/28/2019		
Test S/W	Test S/W FARAD LZ-RF / CCS-SZ-3A2						

Antenna Conducted Spurious Emission						
Name of Equipment Manufacturer Model Number Serial Number Calibration Calibration						
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019	

		6dB Bandwidth			
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019

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Antenna Gain									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration				
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019				

Peak Output Power										
Name of Equipment Manufacturer Model Number Serial Number Calibration Calibration										
Power Meter	Anritsu	ML2495A	1204003	01/27/2018	01/26/2019					
Power Sensor	Anritsu	MA2411B	1126150	01/27/2018	01/26/2019					

Band edges									
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration				
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019				

Peak Power Spectral Density									
Name of Equipment Manufacturer Model Number Serial Number Last Due Calibration									
Spectrum Analyzer	Agilent	N9010A	MY52221469	01/27/2018	01/26/2019				

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.

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6 FACILITIES AND ACCREDITATIONS

6.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No. 10-1, Mingkeda Logistics Park, No.18 Huanguan South RD. Guan Lan Town, Baoan District, Shenzhen China

The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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6.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA FCC

Japan VCCI(C-4815, R-4320, T-2317, G-10624)

Canada INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccssz.com

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6.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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Parameter	Uncertainty		
Radiated Emission, 30 to 200 MHz Test Site : 966(2)	+/-3.6880dB		
Radiated Emission, 200 to 1000 MHz Test Site : 966(2)	+/-3.6695dB		
Radiated Emission, 1 to 8 GHz	+/-5.1782dB		
Radiated Emission, 8 to 18 GHz	+/-5.2173dB		
Conducted Emissions	+/-3.6836dB		
Band Width	178kHz		
Peak Output Power MU	+/-1.906dB		
Band Edge MU	+/-0.182dB		
Channel Separation MU	416.178Hz		
Duty Cycle MU	0.054ms		
Frequency Stability MU	226Hz		

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

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

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7 FCC PART 15.247 REQUIREMENTS

7.1. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

7.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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Frequency Range		nits ;µV)
(MHz)	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

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7.1.2. TEST PROCEDURES (please refer to measurement standard)

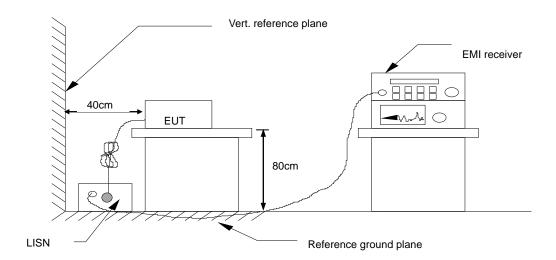
• The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.

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- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

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7.1.3. TEST SETUP



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For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

7.1.4. DATA SAMPLE

Frequency (MHz)		Average Reading (dBuV)		QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Margin	Remark (Pass/Fail)
x.xxxx	34.99	19.33	10.15	45.14	29.48	65.99	56.00	-20.85	-26.52	Pass

Factor = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Reading/ Average Reading + Factor

Limit = Limit stated in standard Margin = Result (dBuV) – Limit (dBuV)

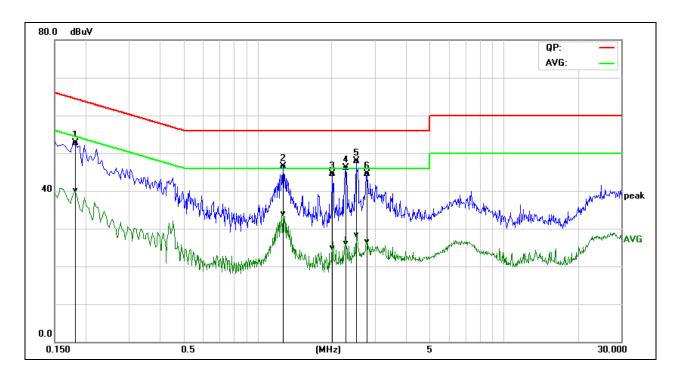
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7.1.5. TEST RESULTS

Test Data

Model No.	MUV1	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Luja Huang	Line	L1
Test Date	May 30, 2018		

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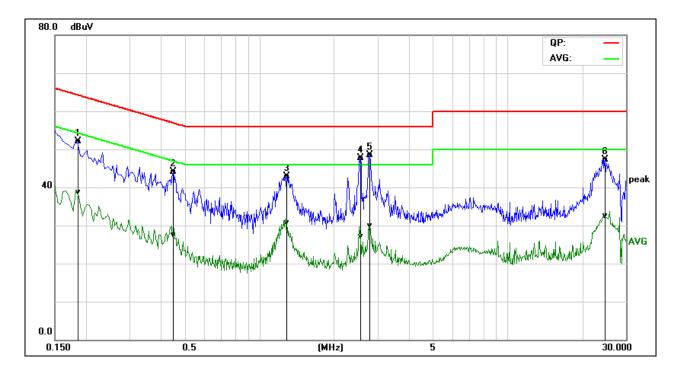


Frequency				QuasiPeak		QuasiPeak	Average	QuasiPeak		Remark
(MHz)	Reading (dBuV)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Result (dBuV)	Limit (dBuV)	Limit (dBuV)	Margin (dB)	Margin (dB)	(Pass/Fail)
0.1819	33.10	20.42	19.63	52.73	40.05	64.39	54.40	-11.66	-14.35	Pass
1.2740	26.98	14.23	19.60	46.58	33.83	56.00	46.00	-9.42	-12.17	Pass
2.0220	24.69	5.25	19.72	44.41	24.97	56.00	46.00	-11.59	-21.03	Pass
2.2940	26.39	6.38	19.72	46.11	26.10	56.00	46.00	-9.89	-19.90	Pass
2.5260	28.12	8.65	19.72	47.84	28.37	56.00	46.00	-8.16	-17.63	Pass
2.7940	24.79	6.69	19.72	44.51	26.41	56.00	46.00	-11.49	-19.59	Pass

REMARKS: L1 = Line One (Live Line)

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Model No.	MUV1	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Luja Huang	Line	L2
Test Date	May 30, 2018		

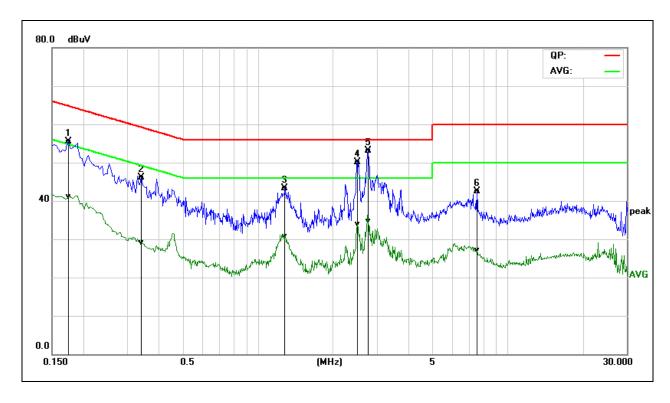


Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
(MHz)	Reading (dBuV)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Result (dBuV)	Limit (dBuV)	Limit (dBuV)	Margin (dB)	Margin (dB)	(Pass/Fail)
0.1860	32.59	19.13	19.53	52.12	38.66	64.21	54.21	-12.09	-15.55	Pass
0.4500	24.64	8.06	19.53	44.17	27.59	56.87	46.88	-12.70	-19.29	Pass
1.2940	23.33	11.09	19.60	42.93	30.69	56.00	46.00	-13.07	-15.31	Pass
2.5540	27.95	7.46	19.74	47.69	27.20	56.00	46.00	-8.31	-18.80	Pass
2.7860	28.80	10.24	19.75	48.55	29.99	56.00	46.00	-7.45	-16.01	Pass
24.7460	26.69	11.90	20.62	47.31	32.52	60.00	50.00	-12.69	-17.48	Pass

REMARKS: L2 = Line Two (Neutral Line)

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Model No.	MUV1	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 2
Tested by	Luja Huang	Line	L1
Test Date	May 30, 2018	Test Voltage	AC 240V/50Hz

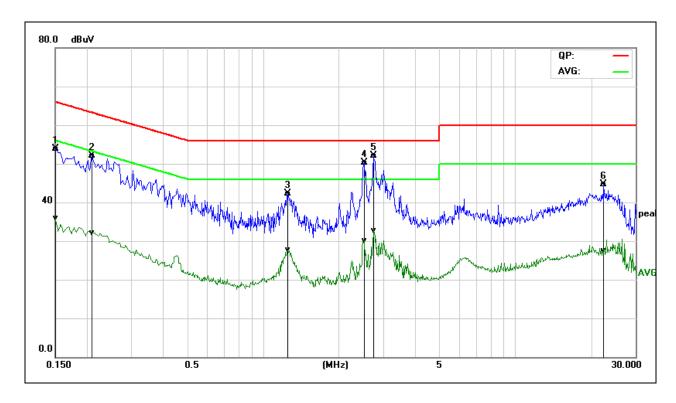


Frequency		9		QuasiPeak		QuasiPeak	Average		3 -	Remark
(MHz)	Reading (dBuV)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Result (dBuV)	Limit (dBuV)	Limit (dBuV)	Margin (dB)	Margin (dB)	(Pass/Fail)
0.1740	35.86	21.38	19.63	55.49	41.01	64.76	54.77	-9.27	-13.76	Pass
0.3420	26.54	9.55	19.59	46.13	29.14	59.15	49.15	-13.02	-20.01	Pass
1.2860	23.65	11.01	19.60	43.25	30.61	56.00	46.00	-12.75	-15.39	Pass
2.5059	30.46	14.15	19.72	50.18	33.87	56.00	46.00	-5.82	-12.13	Pass
2.7780	33.38	15.07	19.72	53.10	34.79	56.00	46.00	-2.90	-11.21	Pass
7.5620	22.53	7.15	19.89	42.42	27.04	60.00	50.00	-17.58	-22.96	Pass

REMARKS: L1 = Line One (Live Line)

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Model No.	MUV1	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 2
Tested by	Luja Huang	Line	L2
Test Date	May 30, 2018	Test Voltage	AC 240V/50Hz



Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average			QuasiPeak	Average	Remark
(MHz)	Reading (dBuV)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Result (dBuV)	Limit (dBuV)	Limit (dBuV)	Margin (dB)	Margin (dB)	(Pass/Fail)
0.1500	34.34	16.47	19.52	53.86	35.99	65.99	56.00	-12.13	-20.01	Pass
0.2100	32.53	12.53	19.54	52.07	32.07	63.20	53.21	-11.13	-21.14	Pass
1.2579	22.66	8.10	19.60	42.26	27.70	56.00	46.00	-13.74	-18.30	Pass
2.5180	30.61	10.42	19.74	50.35	30.16	56.00	46.00	-5.65	-15.84	Pass
2.7460	32.46	12.99	19.74	52.20	32.73	56.00	46.00	-3.80	-13.27	Pass
22.4540	24.37	7.04	20.43	44.80	27.47	60.00	50.00	-15.20	-22.53	Pass

REMARKS: L2 = Line Two (Neutral Line)

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7.2. SPURIOUS EMISSIONS MEASUREMENT

7.2.1. CONDUCTED EMISSIONS MEASUREMENT

7.2.1.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

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7.2.1.2. TEST PROCEDURE (please refer to measurement standard)

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site. The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

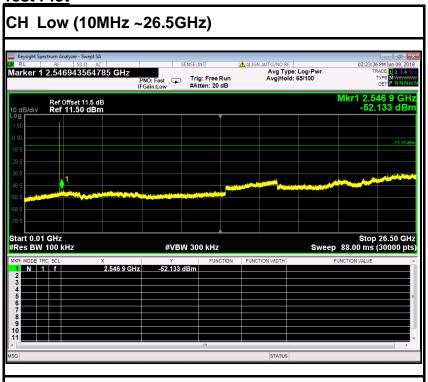
Measurements are made over the 9kHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels. No emission found between lowest internal

used/generated frequency to 10MHz, it is only recorded 10MHz to 26GHz.

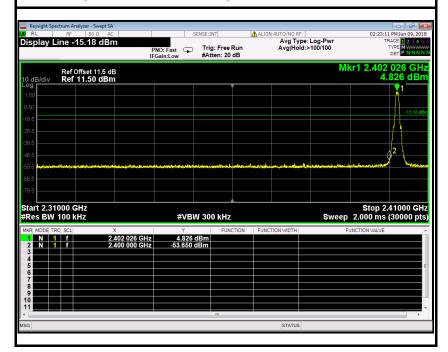
FCC ID:2APYB-9C1D3E Page 20 / 52

7.2.1.3. TEST RESULTS

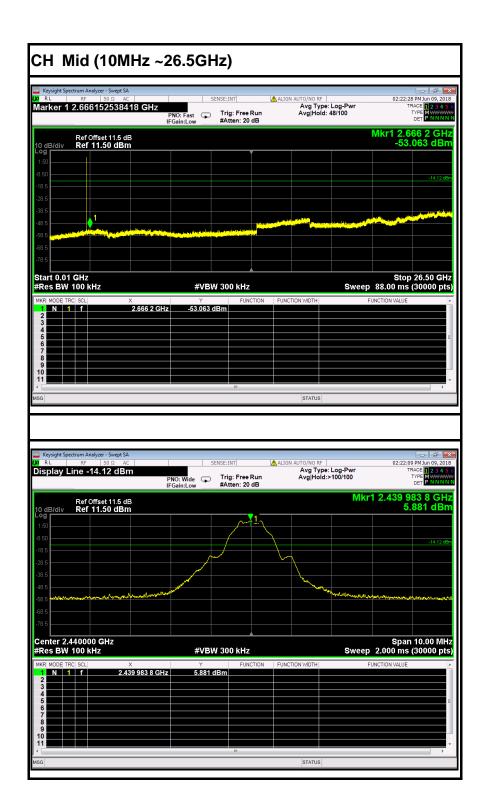
Test Plot



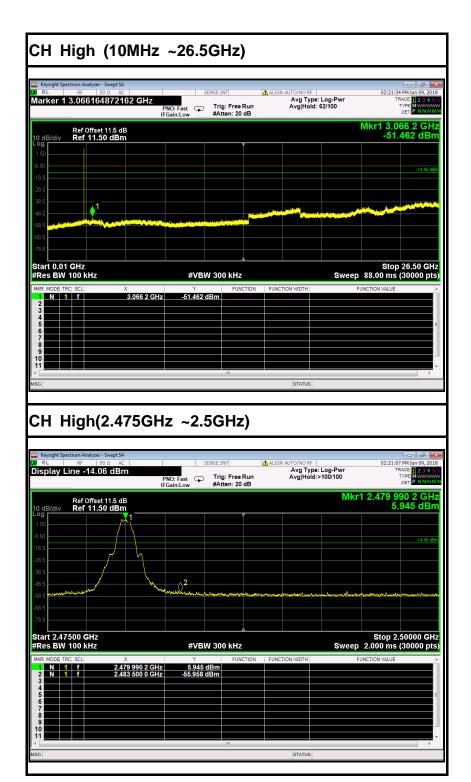
CH Low (2.31GHz ~2.41GHz)



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7.2.2. RADIATED EMISSIONS MEASUREMENT

7.2.2.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

1. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

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

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7.2.2.2. Measuring Instruments and Setting

The following table is the setting of spectrum analyzer and receiver.

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

Report No.: C180524Z01-RP1-2

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

7.2.2.3. TEST PROCEDURE (please refer to measurement standard)

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 0.8 meter.

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--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

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Final measurement:

- --- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

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Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

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- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

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Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

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- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

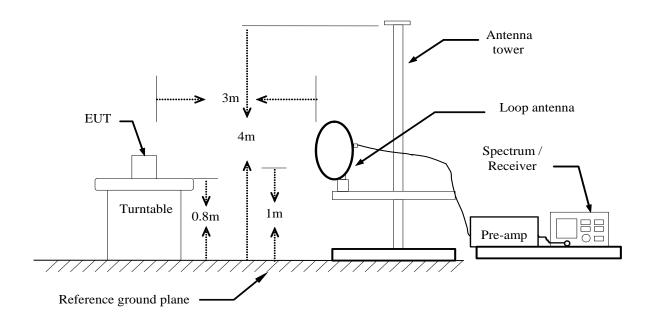
Final measurement:

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

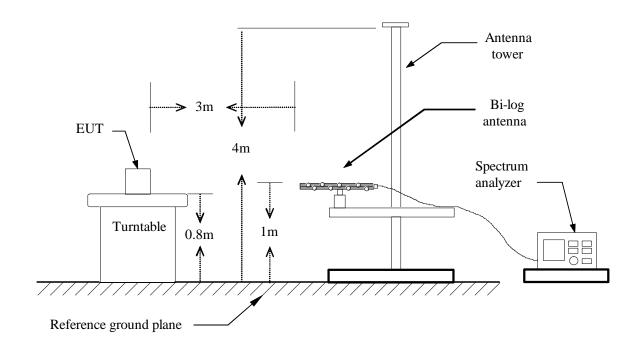
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7.2.2.4. TEST SETUP

Below 30MHz

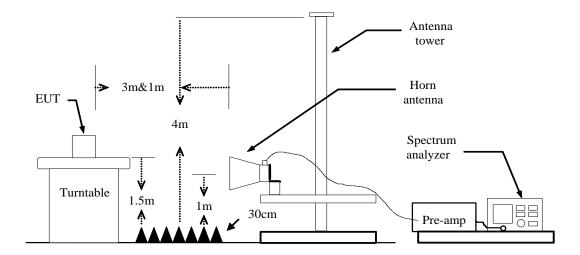


Below 1 GHz



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Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

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7.2.2.5. DATA SAMPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	53.41	-18.63	34.78	43.50	-8.72	V	QP

Report No.: C180524Z01-RP1-2

Frequency (MHz) = Emission frequency in MHz

= Uncorrected Analyzer / Receiver reading Reading (dBuV) Correct Factor (dB/m) = Antenna factor + Cable loss - Amplifier gain Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) - Limit (dBuV/m)

Q.P. = Quasi-peak Reading

Above 1GHz

	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
	XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
Ī	XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

= Emission frequency in MHz Frequency (MHz)

Reading (dBuV) = Uncorrected Analyzer / Receiver reading Correction Factor (dB/m) = Antenna factor + Cable loss - Amplifier gain = Reading (dBuV) + Corr. Factor (dB/m) Result (dBuV/m)

= Limit stated in standard Limit (dBuV/m)

= Result (dBuV/m) - Limit (dBuV/m) Margin (dB)

Peak = Peak Reading **AVG** = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m) Result (dBuV/m) = Reading (dBuV) + Correction Factor

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7.2.2.6. TEST RESULTS

Below 1 GHz

Test Mode: TX Tested by: Saber Huang

Report No.: C180524Z01-RP1-2

Ambient temperature: 24°C Relative humidity: 52% RH Date: June 5, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
46.4900	56.26	-19.52	36.74	40.00	-3.26	V	QP
196.8400	47.77	-22.77	25.00	43.50	-18.50	V	QP
416.0600	40.64	-15.49	25.15	46.00	-20.85	V	QP
460.6800	45.89	-15.15	30.74	46.00	-15.26	V	QP
593.5700	32.38	-12.98	19.40	46.00	-26.60	V	QP
789.5100	29.55	-11.17	18.38	46.00	-27.62	V	QP
129.9100	44.22	-20.75	23.47	43.50	-20.03	Н	QP
181.3200	51.31	-22.94	28.37	43.50	-15.13	Н	QP
275.4100	34.22	-20.44	13.78	46.00	-32.22	Н	QP
352.0400	29.47	-17.61	11.86	46.00	-34.14	Н	QP
416.0600	32.97	-15.49	17.48	46.00	-28.52	Н	QP
611.0300	28.24	-12.64	15.60	46.00	-30.40	Н	QP

Notes:

- 1. No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)

Remark:

- 1. Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

4. Frequency (MHz). = Emission frequency in MHz

Reading $(dB\mu V/m)$ = Receiver reading

Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

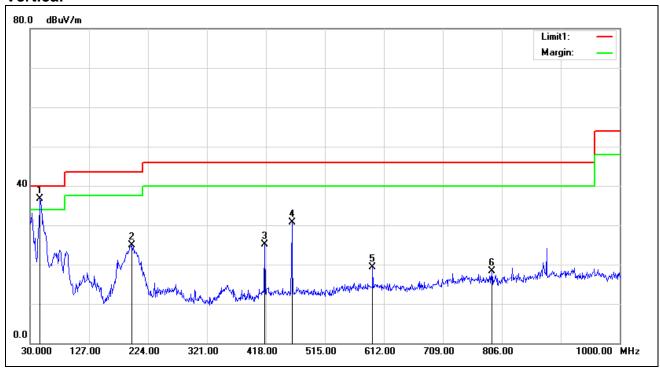
Limit ($dB\mu V/m$) = Limit stated in standard

Margin (dB) = Measured (dB μ V/m) – Limits (dB μ V/m)

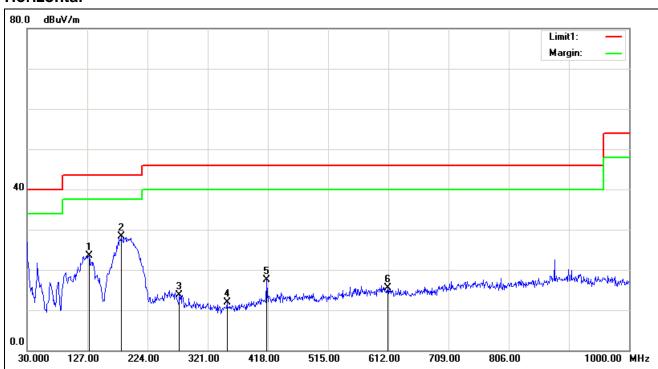
Antenna Pol e (H/V) = Current carrying line of reading

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Vertical



Horizontal



Above 1 GHz

Test Mode: GFSK (CH Low)

Tested by: Saber Huang

Report No.: C180524Z01-RP1-2

Ambient temperature: 24°C Relative humidity: 52% RH Date: June 5, 2018

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2503.000	44.29	-2.25	42.04	74.00	-31.96	V	peak
3241.000	41.60	-0.96	40.64	74.00	-33.36	V	peak
3628.000	41.70	0.02	41.72	74.00	-32.28	V	peak
3997.000	41.53	1.58	43.11	74.00	-30.89	V	peak
4609.000	40.60	3.71	44.31	74.00	-29.69	V	peak
5581.000	39.62	5.90	45.52	74.00	-28.48	V	peak
2512.000	43.15	-2.24	40.91	74.00	-33.09	Н	peak
3358.000	42.53	-0.76	41.77	74.00	-32.23	Н	peak
4015.000	41.40	1.64	43.04	74.00	-30.96	Н	peak
4852.000	40.74	4.50	45.24	74.00	-28.76	Н	peak
6220.000	40.02	6.44	46.46	74.00	-27.54	Н	peak
7327.000	40.18	8.34	48.52	74.00	-25.48	Н	peak

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Test Mode: GFSK (CH Mid) Tested by: Saber Huang

Report No.: C180524Z01-RP1-2

Relative humidity: 52% RH Ambient temperature: 24°C **Date:** June 5, 2018

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2791.000	43.79	-1.74	42.05	74.00	-31.95	V	peak
3601.000	41.02	-0.09	40.93	74.00	-33.07	V	peak
4141.000	41.17	2.09	43.26	74.00	-30.74	V	peak
4933.000	40.36	4.76	45.12	74.00	-28.88	V	peak
5176.000	40.27	5.29	45.56	74.00	-28.44	V	peak
5932.000	40.34	6.05	46.39	74.00	-27.61	V	peak
2269.000	45.12	-3.53	41.59	74.00	-32.41	Н	peak
2647.000	44.50	-2.00	42.50	74.00	-31.50	Н	peak
3223.000	41.53	-0.99	40.54	74.00	-33.46	Н	peak
3889.000	40.72	1.12	41.84	74.00	-32.16	Н	peak
4870.000	40.05	4.56	44.61	74.00	-29.39	Н	peak
5545.000	40.26	5.89	46.15	74.00	-27.85	Н	peak

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- Average test would be performed if the peak result were greater than the average limit or as 3. required by the applicant.
- Data of measurement within this frequency range shown " --- " in the table above means the 4. reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with 5. " N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

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Report No.: C180524Z01-RP1-2

Relative humidity: 52% RH Ambient temperature: 24°C Date: June 5, 2018

Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2251.000	44.22	-3.62	40.60	74.00	-33.40	V	peak
2512.000	43.52	-2.24	41.28	74.00	-32.72	V	peak
3331.000	41.79	-0.80	40.99	74.00	-33.01	V	peak
4366.000	40.60	2.88	43.48	74.00	-30.52	V	peak
5203.000	40.08	5.34	45.42	74.00	-28.58	V	peak
5860.000	40.21	6.02	46.23	74.00	-27.77	V	peak
1477.000	45.91	-6.92	38.99	74.00	-35.01	Н	peak
2107.000	44.11	-4.41	39.70	74.00	-34.30	Н	peak
2620.000	44.70	-2.04	42.66	74.00	-31.34	Н	peak
2809.000	43.14	-1.70	41.44	74.00	-32.56	Н	peak
3988.000	41.31	1.54	42.85	74.00	-31.15	Н	peak
4510.000	40.89	3.38	44.27	74.00	-29.73	Н	peak

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- Data of measurement within this frequency range shown " --- " in the table above means the 4. reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with 5. " N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) - Average limit (dBuV/m).

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7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

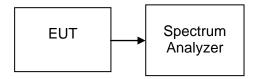
Report No.: C180524Z01-RP1-2

7.3.2. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

7.3.3. TEST SETUP



7.3.4. TEST RESULTS

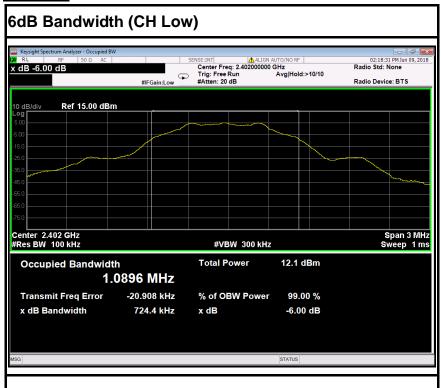
No non-compliance noted

Test Data

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2402	724.4		PASS
Mid	2440	724.7	>500	PASS
High	2480	725.6		PASS

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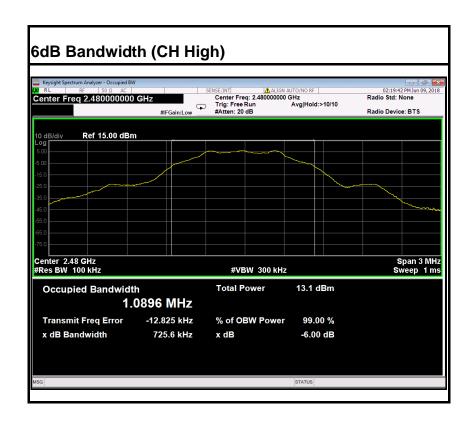
Test Plot



6dB Bandwidth (CH Mid)



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7.4. ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module.

MEASUREMENT PARAMETERS

Measurement parameter					
Detector	Peak				
Sweep time	Auto				
Resolution bandwidth	3 MHz				
Video bandwidth	3 MHz				
Trace-Mode	Max hold				

LIMITS

FCC	IC				
Antenna Gain					
6 dBi					

TEST RESULTS

GFSK

T _{nom}	V_{nom}	Lowest channel 2402MHz	Middle channel 2440MHz	Highest channel 2480MHz	
·	Conducted power [dBm] Measured with GFSK modulation		6.16	6.28	
Radiated power [dBm] Measured with GFSK modulation		7.21	7.55	7.86	
Gain [dBi] Calculated		1.76 1.39		1.58	
Measurement und	ertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			

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7.5. PEAK OUTPUT POWER

7.5.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

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- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz: 1 Watt.
- 2. According to §15.247(b)(4), 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.

7.5.2. TEST PROCEDURES (please refer to measurement standard)

9.1.1 RBW ≥ DTS bandwidth

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS* bandwidth.

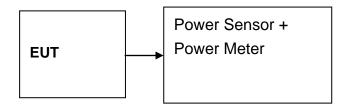
- a) Set the RBW ≥ *DTS bandwidth*.
- b) Set VBW ≥ 3 RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

9.1.2 PKPM1 Peak power meter method

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 utilize a fast-responding diode detector.

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7.5.3. TEST SETUP



7.5.4. TEST RESULTS

No non-compliance noted

Test Data

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Peak /AVG	Result
Low	2402	5.45	0.00351			PASS
Mid	2440	6.16	0.00413	1	peak	PASS
High	2480	6.28	0.00425			PASS
Low	2402	5.30	0.00339			PASS
Mid	2440	6.01	0.00399	1	AVG	PASS
High	2480	6.10	0.00407			PASS

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7.6. BAND EDGES MEASUREMENT

7.6.1. LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

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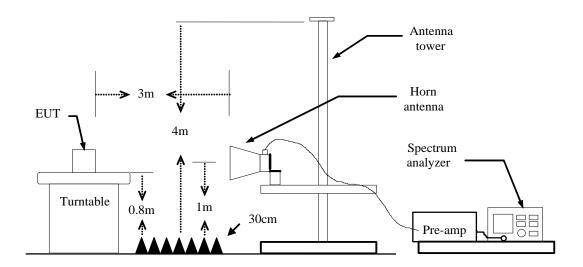
7.6.2. TEST PROCEDURES (please refer to measurement standard)

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

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- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz / VBW=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

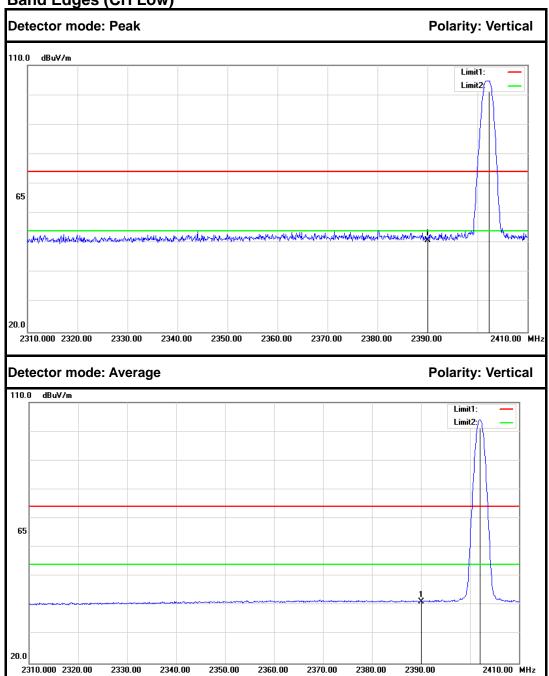
7.6.3. TEST SETUP



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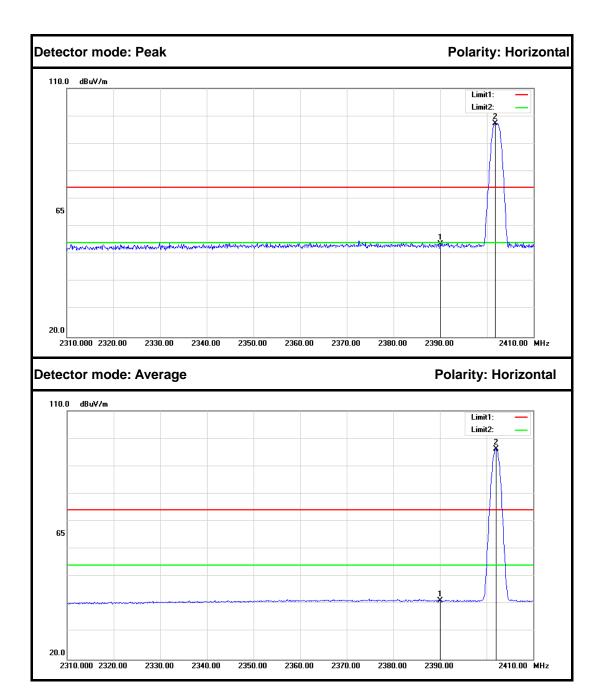
7.6.4. TEST RESULTS Test Plot

Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	53.74	-2.86	50.88	74.00	-23.12	Peak	Vertical
2	2402.300	107.62	-2.80	104.82			Peak	Vertical
1	2390.000	44.16	-2.86	41.30	54.00	-12.70	Average	Vertical
2	2402.000	106.86	-2.80	104.06			Average	Vertical

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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	56.40	-2.86	53.54	74.00	-20.46	Peak	Horizontal
2	2401.800	100.01	-2.80	97.21			Peak	Horizontal
1	2390.000	44.20	-2.86	41.34	54.00	-12.66	Average	Horizontal
2	2402.000	98.98	-2.80	96.18			Average	Horizontal

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2500.00 MHz

2495.00

2492.50

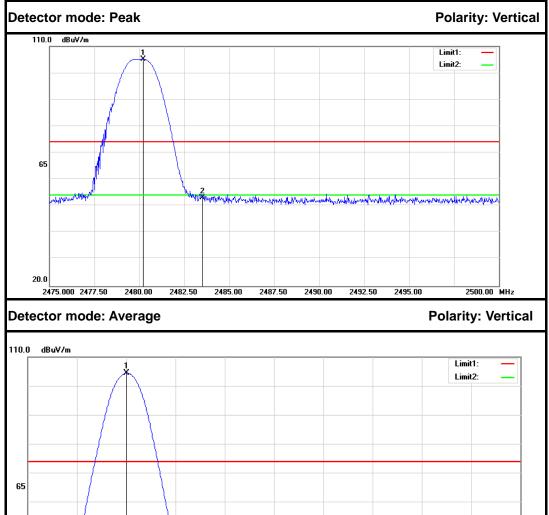


2480.00

2482.50

2485.00

2475.000 2477.50

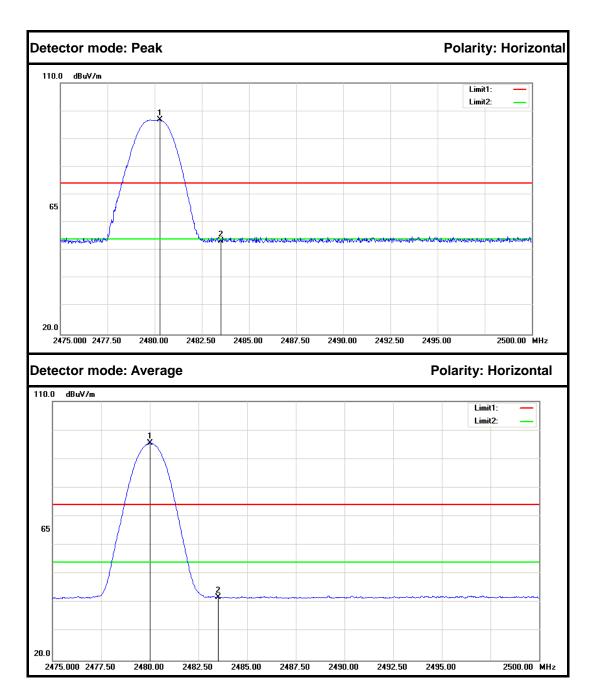


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1.	2480.225	107.59	-2.37	105.22			Peak	Vertical
2.	2483.500	55.59	-2.35	53.24	74.00	-20.76	Peak	Vertical
1.	2480.025	106.85	-2.37	104.48			Average	Vertical
2.	2483.500	45.77	-2.35	43.42	54.00	-10.58	Average	Vertical

2487.50

2490.00

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No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2480.275	99.13	-2.37	96.76			Peak	Horizontal
2	2483.500	55.76	-2.35	53.41	74.00	-20.59	Peak	Horizontal
1	2480.000	97.80	-2.37	95.43			Average	Horizontal
2	2483.500	44.29	-2.35	41.94	54.00	-12.06	Average	Horizontal

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7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.7.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

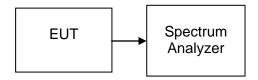
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According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

7.7.2. TEST PROCEDURES (please refer to measurement standard)

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 4. Set the VBW ≥ 3 RBW.
- Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.7.3. TEST SETUP



7.7.4. TEST RESULTS

No non-compliance noted

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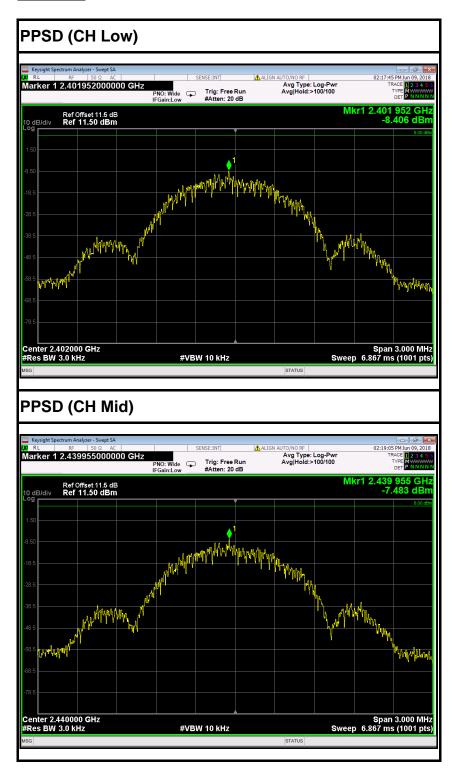
Test Data

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2402	-8.406		PASS
Mid	2440	-7.483	8.00	PASS
High	2480	-7.398		PASS

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Test Plot



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