FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Avi-on Labs, Inc.

Avi-on Remote Access Bridge

Model Number: 2001RAB

FCC ID: 2AFZI-2001RAB

Prepared for: Avi-on Labs, Inc.

2750 Rasmussen, Suite 206, Park City, Utah, 84098 United States.

Prepared By: EST Technology Co., Ltd.

San Tun Management Zone, Houjie District, Dongguan, China

Tel: 86-769-83081888-808

Report Number: ESTE-R1607043 Date of Test : June 27 ~ July 16, 2016

Date of Report: July 20, 2016



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Test Report Verification

	lest Report Verification				
Applicant:	Avi-on Labs, Inc.				
Address:	2750 Rasmussen, Suite 206, Park City, Utah, 84098 United States.				
Manufacturer Address: TCL Technoly Electronics(Huizhou) Co.,Ltd Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006.					
E.U.T:	Avi-on Remote Access Bridge				
Model Number:	2001RAB				
Power Supply:	AC 100-240V ~ 50/60Hz				
Test Voltage:	AC 120V/60Hz AC 240V/60Hz				
Trade Name:	AVI-ON Serial No.:				
Date of Receipt:	June 15, 2016 Date of Test: June 27 ~ July 16, 2016				
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013				
Test Result:	The device described above is tested by EST Technology Co., Ltd The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: July 20, 2016				
Prepared by:	Tested by: Approved by				
Ada	tom? Trementhe				
Ada / Assistant	Tony.Tang/ Engineer IcemanHu / Manager				
Other Aspects: None.					
Abbreviations: OK/P=pas.	sed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested				
	a single evaluation of one sample of above mentioned products ,It is not permitted to be out written approval of EST Technology Co., Ltd.				



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Avi-on Remote Access Bridge					
Model Number	:	2001RAB					
FCC ID	:	2AFZI-2001RAB					
Operation frequency	:	2402MHz~2480MHz					
Number of channel	:	79	40				
Antenna	:	Internal antenna, 1 dBi gain					
Modulation	:	Dual-mode Bluetooth 4.0 BT BDR: GFSK BT EDR (4 DORSK) BUBLE: GFSK					
		BT EDR: $\pi/4$ -DQPSK BT EDR: 8-DPSK					



2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
	FCC Part 15: 15.207	DACC
Power Line Conducted Emission	ANSI C63.10:2013	PASS
	FCC Part 15: 15.209	
Radiated Emission	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Band Edge Compliance	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
6dB Bandwidth	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Peak Output Power	ANSI C63.10:2013	PASS
	KDB 558074	
	FCC Part 15: 15.247	
Power Spectral Density	ANSI C63.10:2013	PASS
	KDB 558074	
Antenna requirement	FCC Part 15: 15.203	PASS

Note: KDB 558074 D01 DTS Meas Guidance v03r05



2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA

Registration No.: L5288

Date of registration: December 07, 2015

Certificated by FCC, USA Registration No.: 989591

Date of registration: November 20, 2013

Certificated by Industry Canada Registration No.: 9405A-1

Date of registration: December 30, 2015

Certificated by VCCI, Japan

Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011

Certificated by Siemic, Inc. Registration No.: SLCN021

Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan,

Guangdong, China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

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

2.4. Assistant equipment used for test

2.4.1. Notebook

Manufacturer : DELL

M/N : Laititude E6420 Adapter : M/N: DA90PM111

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Bluetooth test mode by software before test.



(EUT: Avi-on Remote Access Bridge)

2.6. Test mode

A special test software was used to control EUT work in Continuous TX mode(100% duty cycle), and select test channel, wireless mode and data rate.

Mode	Channel	Frequency
	Low	2402MHz
BT 4.0-BLE GFSK	Middle	2440MHz
	High	2480MHz



2.7. Channel List for Bluetooth

Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)
1	2402	2	2404
3	2406	4	2408
5	2410	6	2412
7	2414	8	2416
9	2418	10	2420
11	2422	12	2424
13	2426	14	2428
15	2430	16	2432
17	2434	18	2436
19	2438	20	2440
21	2442	22	2444
23	2446	24	2448
25	2450	26	2452
27	2454	28	2456
29	2458	30	2460
31	2462	32	2464
33	2466	34	2468
35	2470	36	2472
37	2474	38	2476
39	2478	40	2480



2.8. Test Equipment

2.8.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 25,16	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June 25,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 25,16	1 Year

2.8.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 25,16	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 25,16	3 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

2.8.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 25,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 28,15	3 Year
Signal Amplifier	Agilent	310N	187037	June 25,16	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

2.8.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK		BBHA9120D1 002	June 28,15	3 Year
Board-Band Horn Antenna	SCHWARZB ECK	BBHA 9170	9170-497	June 28,15	3Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 25,16	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 25,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 25,16	1 Year

EST

3 POWER LINE CONDUCTED EMISSION TEST

3.1Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	$dB(\mu V)$	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. * Decreasing linearly with logarithm of frequency.

3.2 Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2009 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

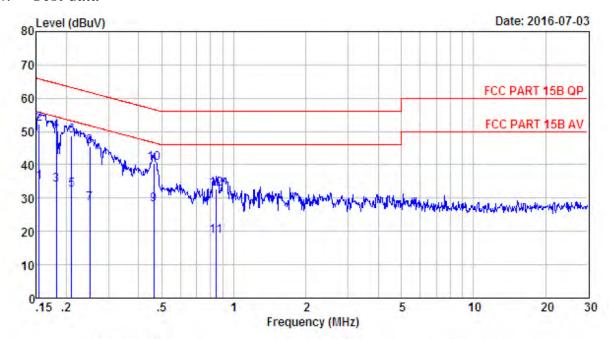
3.3. Test Result

PASS. (All emissions not reported below are too low against the prescribed limits.)



^{2.} The lower limit shall apply at the transition frequencies.

3.4. Test data



Site no : 844 Shield Room Data no. : 170
Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

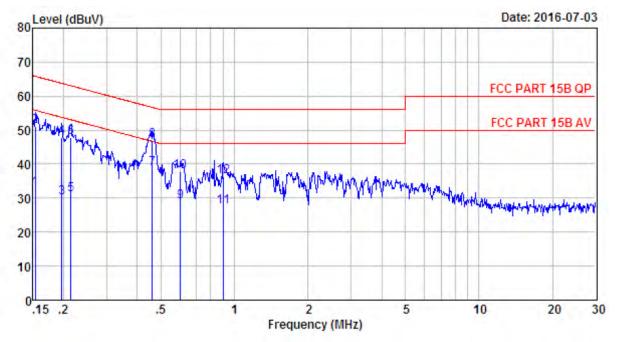
Engineer : Tony

EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuy)	Margin (dB)	Remark
1	0.15	9.47	9.81	15.63	34.91	55.78	20.87	Average
2	0.15	9.47	9.81	33.00	52.28	65.78	13.50	Peak
3	0.18	9.55	9.80	14.68	34.03	54.42	20.39	Average
4	0.18	9.55	9.80	30.96	50.31	64.42	14.11	QP
5	0.21	9.60	9.80	13.21	32.61	53.18	20.57	Average
6	0.21	9.60	9.80	29.32	48.72	63.18	14.46	QP
7	0.25	9.60	9.82	8.98	28.40	51.73	23.33	Average
8	0.25	9.60	9.82	26.02	45.44	61.73	16.29	Peak
9	0.46	9.59	9.81	8.54	27.94	46.63	18.69	Average
10	0.46	9.59	9.81	20.93	40.33	56.63	16.30	QP
11	0.84	9.62	9.82	-0.72	18.72	46.00	27.28	Average
12	0.84	9.62	9.82	13.27	32.71	56.00	23.29	QP



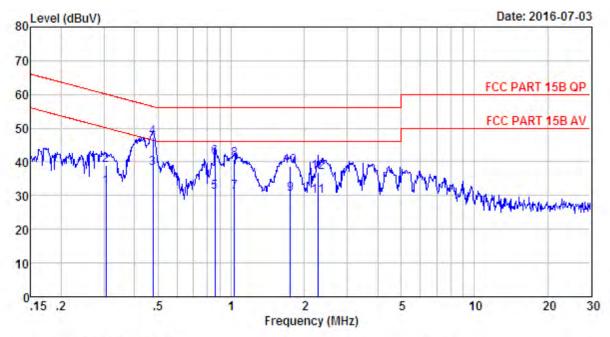


Site no : 844 Shield Room Data no. : 172 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP
Engineer : Tony
EUT : Avi-on Remote Access Bridge
Power : AC 120V/60Hz : 2001RAB Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9,61	9.81	13,29	32.71	55.82	23.11	Average
2	0.15	9.61	9.81	31.66	51.08	65.82	14.74	QP
3	0.20	9.61	9.80	10.67	30.08	53.76	23.68	Average
4	0.20	9.61	9.80	28.56	47.97	63.76	15.79	QP
5	0.21	9.61	9.80	11.44	30.85	53.05	22.20	Average
6	0.21	9.61	9.80	28.37	47.78	63.05	15.27	QP
7	0.46	9.61	9.81	19.16	38.58	46.67	8.09	Average
8	0.46	9.61	9.81	27.41	46.83	56.67	9.84	QP
9	0.60	9.60	9.82	9.61	29.03	46.00	16.97	Average
10	0.60	9.60	9.82	18.33	37.75	56.00	18.25	QP
11	0.90	9.63	9.82	8.11	27.56	46.00	18.44	Average
12	0.90	9.63	9.82	16.98	36.43	56.00	19.57	QP





Site no : 844 Shield Room Data no. : 174 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE

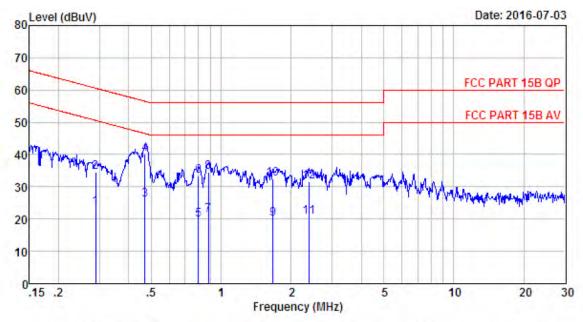
Limit : FCC PART 15B QP

Engineer : Tony

EUT : Avi-on Remote Access Bridge

Power : AC 240V/60Hz M/N : 2001RAB Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.31	9.61	9.83	13,09	32.53	50.10	17.57	Average
2	0.31	9.61	9.83	19.56	39.00	60.10	21.10	QP
3	0.48	9.61	9.81	18.64	38.06	46.41	8.35	Average
4	0.48	9.61	9.81	27.77	47.19	56.41	9.22	QP
5	0.86	9.62	9.82	11.58	31.02	46.00	14.98	Average
6	0.86	9.62	9.82	21.96	41.40	56.00	14.60	QP
7	1.03	9.64	9.85	11.40	30.89	46.00	15.11	Average
8	1.03	9.64	9.85	21.15	40.64	56.00	15.36	QP
9	1.75	9.62	9.82	10.85	30.29	46.00	15.71	Average
10	1.75	9.62	9.82	19.21	38.65	56.00	17.35	QP
11	2.27	9.62	9.84	10.36	29.82	46.00	16.18	Average
12	2.27	9.62	9.84	17.47	36.93	56.00	19.07	QP



Site no : 844 Shield Room Data no. : 176 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL

: FCC PART 15B QP : Tony Limit

Engineer

EUT : Avi-on Remote Access Bridge

: AC 240V/60Hz Power M/N : 2001RAB Test Mode : TX Mode

		LISN	Cable		Emission			
	Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.29	9.60	9.83	4.04	23.47	50.54	27.07	Average
2	0.29	9.60	9.83	14.98	34.41	60.54	26.13	QP
3	0.47	9.59	9.81	6.71	26.11	46.49	20.38	Average
4	0.47	9.59	9.81	20.61	40.01	56.49	16.48	QP
5	0.80	9.62	9.81	0.27	19.70	46.00	26.30	Average
6	0.80	9.62	9.81	13.91	33.34	56.00	22.66	QP
7	0.88	9.62	9.82	1.73	21.17	46.00	24.83	Average
8	0.88	9.62	9.82	15.18	34.62	56.00	21.38	QP
9	1.67	9.62	9.83	0.59	20.04	46.00	25.96	Average
10	1.67	9.62	9.83	12.98	32.43	56.00	23.57	QP
11	2.38	9.63	9.83	1.16	20.62	46.00	25.38	Average
12	2.38	9.63	9.83	12.22	31.68	56.00	24.32	QP



4 RADIATED EMISSION TEST

4.1 Limit

4.1.1 15.209 limits

Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark : (1) Emission level $dB\mu V = 20 \log Emission$ level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.1.2 15.205 Restricted bands of operation

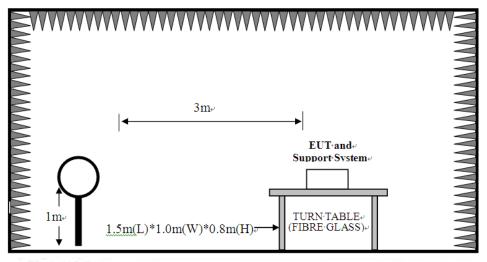
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

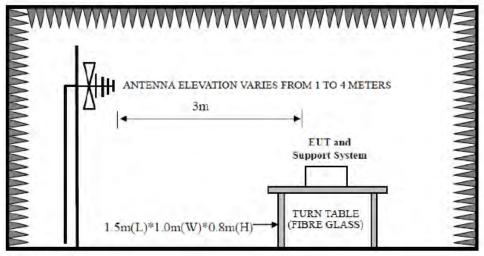


4.2. Block Diagram of Test setup

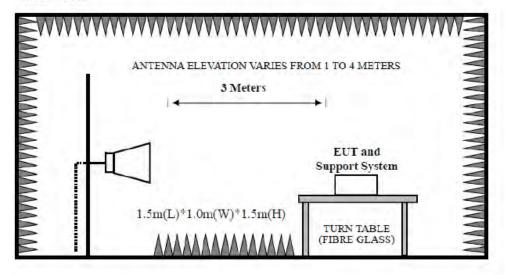
9kHz~30MHz.



30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and wiich is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement, PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2402MHz . 2440MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



4.5. Test Data

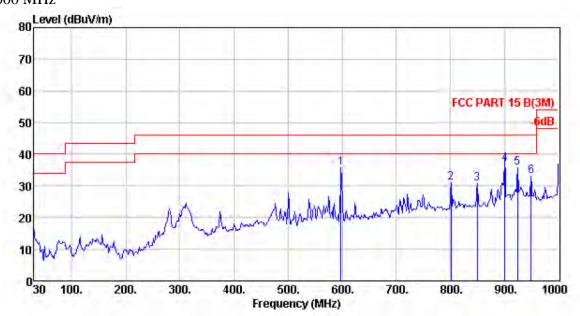
9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



30-1000 MHz



Site no. : 966 1# chamber Data no. : 131
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

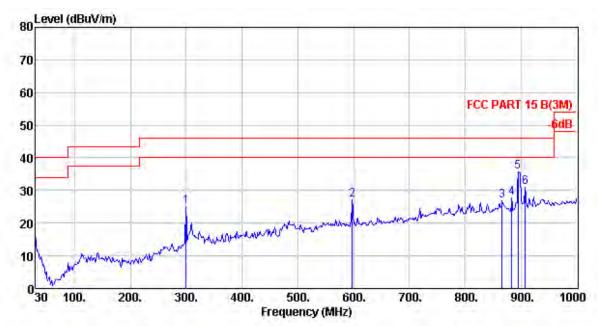
EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2402MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	597.45	19.55	3.39	12.66	35.60	46.00	10.40	QP
2	801,15	22.07	3.83	4.98	30.88	46.00	15.12	QP
3	849.65	22.95	3.73	4.15	30.83	46.00	15.17	QP
4	901.06	23.28	4.16	9.42	36.86	46.00	9.14	QP
5	924.34	24,13	4.50	7.02	35.65	46.00	10.35	QP
6	949.56	24.54	4.63	3.97	33.14	46.00	12.86	QP





Site no. : 966 l# chamber Data no. : 132

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi: 56%; Press: 101.52kPa

Engineer : Tony

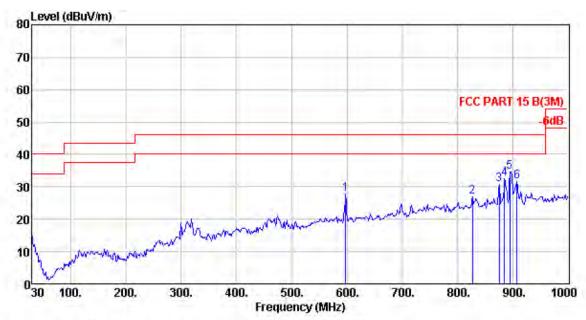
EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2402MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	299.66	13.01	2.38	9.60	24.99	46.00	21.01	QP
2	597.45	19.55	3.39	4.18	27.12	46.00	18.88	QP
3	866.14	22.87	3.79	0.15	26.81	46.00	19.19	QP
4	883.60	22.72	3.99	1.17	27.88	46.00	18.12	QP
5	895.24	23.05	4.07	8.47	35.59	46.00	10.41	QP
6	907.85	23.48	4.08	3.32	30.88	46.00	15.12	QP





Site no. : 966 1# chamber Data no. : 133
Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

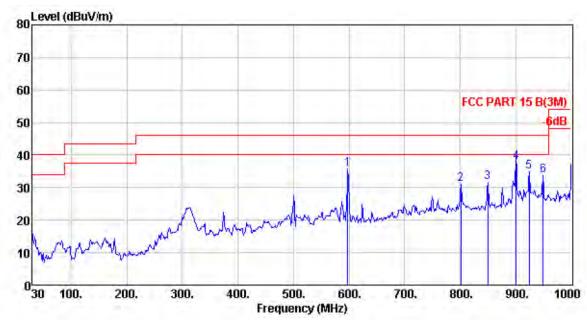
EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2440MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	597.45	19.55	3,39	4.86	27.80	46.00	18.20	QP
2	827.34	22.46	3.86	0.49	26.81	46.00	19.19	QP
3	875.84	22.72	3.94	4.06	30.72	46.00	15.28	QP
4	885.54	22.76	3.78	5.82	32.36	46.00	13.64	QP
5	895.24	23.05	4.07	7.56	34.68	46.00	11.32	QP
6	907.85	23.48	4.08	4.09	31.65	46.00	14.35	QP





Site no. : 966 1# chamber Data no. : 134
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

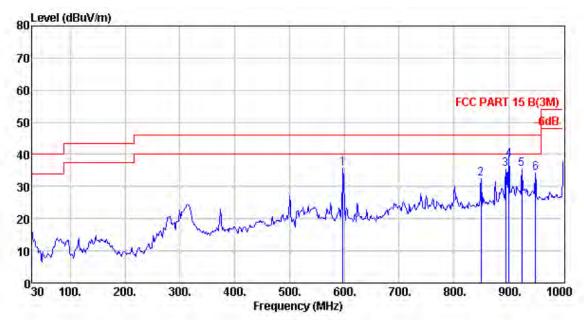
EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2440MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	597.45	19.55	3.39	12.89	35.83	46.00	10.17	QP
2	801.15	22.07	3.83	5.06	30.96	46.00	15.04	QP
3	849.65	22.95	3.73	4.85	31.53	46.00	14.47	QP
4	901.06	23.28	4.16	10.49	37.93	46.00	8.07	QP
5	924.34	24.13	4.50	6.07	34.70	46.00	11.30	QP
6	949.56	24.54	4.63	4.34	33.51	46.00	12.49	QP





Site no. : 966 l# chamber Data no. : 135
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

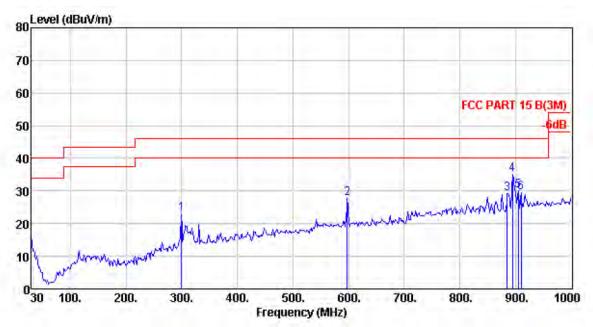
EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2480MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	597.45	19.55	3.39	12.79	35.73	46.00	10.27	QP
2	849.65	22.95	3.73	5.70	32.38	46.00	13.62	QP
3	895.24	23.05	4.07	8.24	35.36	46.00	10.64	QP
4	901.06	23.28	4.16	11.08	38.52	46.00	7.48	QP
5	924.34	24.13	4.50	6.76	35.39	46.00	10.61	QP
6	949.56	24.54	4.63	4.97	34.14	46.00	11.86	QP





Site no. : site Dis. / Ant. : 3m 27137 Data no. : 136 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

: AC 120V/60Hz Power M/N : 2001RAB

Test Mode : GFSK TX 2480MHz

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	299.66	13.01	2.38	7.78	23.17	46.00	22.83	QP
2	597.45	19.55	3.39	4.74	27.68	46.00	18.32	QP
3	885.54	22.76	3.78	2.79	29.33	46.00	16.67	QP
4	895.24	23.05	4.07	7.87	34.99	46.00	11.01	QP
5	904.94	23.40	4.10	2.69	30.19	46.00	15.81	QP
6	910.76	23.58	4.12	1.95	29.65	46.00	16.35	QP



Above 1000MHz

Site no. : 966 l# chamber
Dis. / Ant. : 3m ANT 1-18G
Limit : FCC PART 15C PEAK Data no. : 121 Ant. pol. : VERTICAL

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

: AC 120V/60Hz Power M/N : 2001RAB

Test Mode : GFSK TX 2402MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	96.95	96.54	74.00	-22.54	Peak
2	4804.00	31.25	11.77	35.64	32.33	39.71	74.00	34.29	Peak
3	7206.00	36.52	11.54	33.95	29.62	43.73	74.00	30.27	Peak
4	8684.00	37.32	11.45	33.66	29.62	44.73	74.00	29.27	Peak
5	14124.00	41.57	10.91	33.22	27.55	46.81	74.00	27.19	Peak
6	17864.00	45.12	11.22	30.66	23.30	48.98	74.00	25.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 966 l# chamber
Dis. / Ant. : 3m ANT 1-18G
Limit : FCC PART 15C PEAK Data no. : 122 Ant. pol. : HORIZONTAL

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

: Tony Engineer

: Avi-on Remote Access Bridge : AC 120V/60Hz : 2001RAB EUT

Power M/N

Test Mode : GFSK TX 2402MHz

_		Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	2402.00	27.61	6.62	34.64	91.56	91.15	74.00	-17.15	Peak
	2	4804.00	31.25	11.77	35.64	32.31	39.69	74.00	34.31	Peak
	3	7206.00	36.52	11.54	33.95	30.95	45.06	74.00	28.94	Peak
	4	13546.00	40.21	11.44	32.61	29.00	48.04	74.00	25.96	Peak
	5	14940.00	40.42	10.87	33.59	30.38	48.08	74.00	25.92	Peak
	6	17898.00	45.45	11.26	30.94	24.40	50.17	74.00	23.83	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Data no. : 123

Site no. : 966 l# chamber Data no.
Dis. / Ant. : 3m ANT 1-18G Ant. pol
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony Ant. pol. : HORIZONTAL

: Avi-on Remote Access Bridge

Power : AC 120V/60Hz

M/N : 2001RAB
Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.60	6.67	34.85	90.91	90.33	74.00	-16.33	Peak
2	4880.00	31.37	12.07	35.76	31.94	39.62	74.00	34.38	Peak
3	7320.00	36.55	11.57	34.14	32.74	46.72	74.00	27.28	Peak
4	10996.00	39.52	11.29	34.11	32.30	49.00	74.00	25.00	Peak
5	13716.00	40.69	11.24	32.94	29.91	48.90	74.00	25.10	Peak
6	17898.00	45.45	11.26	30.94	25.24	51.01	74.00	22.99	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 966 1# chamber Data no. : 124
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.60	6.67	34.85	93.71	93.13	74.00	-19.13	Peak
2	4880.00	31.37	12.07	35.76	32.85	40.53	74.00	33.47	Peak
3	7320.00	36.55	11.57	34.14	32.26	46.24	74.00	27.76	Peak
4	11115.00	39.44	11.20	33.55	29.91	47.00	74.00	27.00	Peak
5	14090.00	41.54	10.91	33.13	29.24	48.56	74.00	25.44	Peak
6	17864.00	45.12	11.22	30.66	24.69	50.37	74.00	23.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 966 l# chamber
Dis. / Ant. : 3m ANT 1-18G Data no. : 125 Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony

Engineer

EUT : Avi-on Remote Access Bridge

Power : AC 120V/60Hz

M/N : 2001RAB
Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	95.40	94.58	74.00	-20.58	Peak
2	4960.00	31.49	12.44	36.01	30.01	37.93	74.00	36.07	Peak
3	7440.00	36.54	11.61	34.22	28.89	42.82	74.00	31.18	Peak
4	11285.00	39.33	11.08	33.32	27.88	44.97	74.00	29.03	Peak
5	15450.00	38.10	11.08	32.88	31.45	47.75	74.00	26.25	Peak
6	17949.00	45.95	11.32	31.58	26.25	51.94	74.00	22.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 966 l# chamber
Dis. / Ant. : 3m ANT 1-18G
Limit : FCC PART 15C PEAK Data no. : 126 Ant. pol. : HORIZONTAL

Limit

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

: Tony Engineer

: Avi-on Remote Access Bridge : AC 120V/60Hz : 2001RAB EUT

Power

Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	87.08	86.26	74.00	-12.26	Peak
2	4960.00	31.49	12.44	36.01	32.53	40.45	74.00	33.55	Peak
3	7440.00	36.54	11.61	34.22	29.76	43.69	74.00	30.31	Peak
4	11064.00	39.48	11.24	33.83	27.94	44.83	74.00	29.17	Peak
5	13954.00	41.35	10.96	32.99	28.52	47.84	74.00	26.16	Peak
6	17864.00	45.12	11.22	30.66	24.51	50.19	74.00	23.81	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

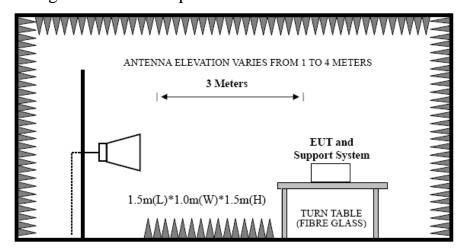


5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 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:

Peak: RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto. AV: RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

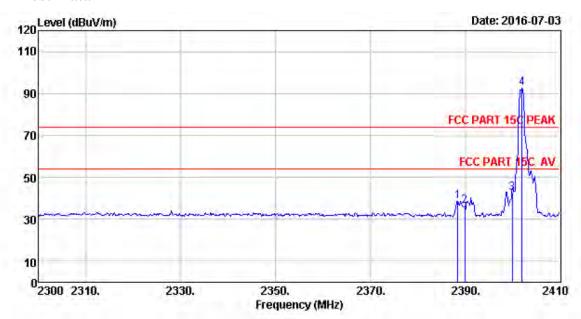
5.4 Test Result

Pass (The testing data was attached in the next pages.)

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2402MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



5.5 Test Data



Site no. : 966 1# chamber Data no. : 127

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

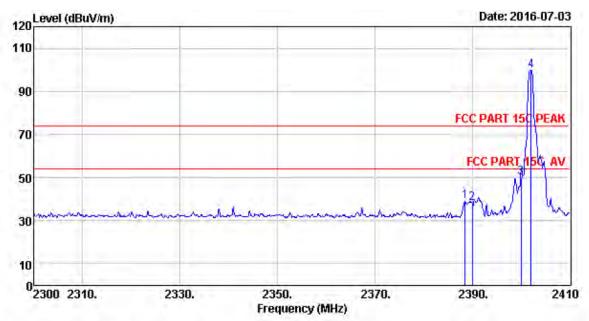
Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.55	27.64	6.62	34.62	38.88	38.52	74.00	35.48	Peak
2	2390.00	27.64	6.62	34.62	36.67	36.31	74.00	37.69	Peak
3	2400.00	27.61	6.62	34.64	42.85	42.44	74.00	31.56	Peak
4	2402.08	27.61	6.62	34.64	92.81	92.40	74.00	-18.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 966 1# chamber Data no. : 128

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

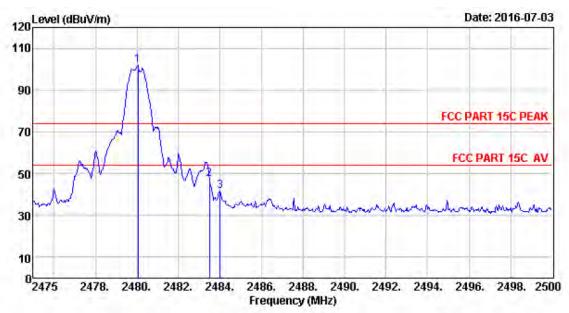
Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2402MHz

. 12012	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388,55	27.64	6.62	34.62	39.18	38.82	74.00	35.18	Peak
2	2390.00	27.64	6.62	34.62	38.49	38.13	74.00	35.87	Peak
3	2400.00	27.61	6.62	34.64	50.61	50.20	74.00	23.80	Peak
4	2402.08	27.61	6.62	34.64	100.25	99.84	74.00	-25.84	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 966 1# chamber Data no. : 129
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Avi-on Remote Access Bridge

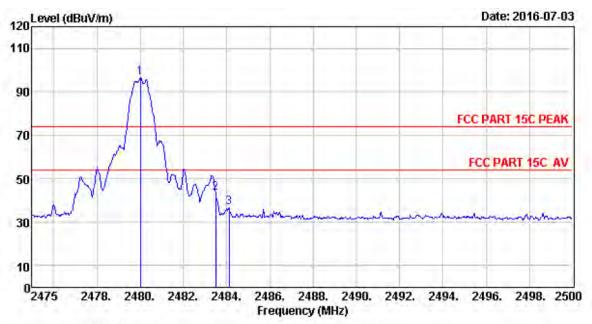
Power : AC 120V/60Hz M/N : 2001RAB

Test Mode : GFSK TX 2480MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.05	27.58	6.71	35.11	102.55	101.73	74.00	-27.73	Peak
2	2483.50	27.58	6.71	35.11	48.02	47.20	74.00	26.80	Peak
3	2484.00	27.58	6.71	35.11	42.57	41.75	74.00	32.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 966 l# chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 130

Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa

: Tony Engineer

: Avi-on Remote Access Bridge EUT

: AC 120V/60Hz Power : 2001RAB M/N

: GFSK TX 2480MHz Test Mode

.00000	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	97.32	96.50	74.00	-22.50	Peak
2	2483.50	27.58	6.71	35.11	44.29	43.47	74.00	30.53	Peak
3	2484.13	27.58	6.71	35.11	37.38	36.56	74.00	37.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



6 6dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set resolution bandwidth (RBW) = 100 kHz.
 - (2). Set the video bandwidth (VBW) $\geq 3 \times RBW$.
 - (3). Detector = Peak.
 - (4). Trace mode = max hold.
 - (5). Sweep = auto couple.
 - (6). Allow the trace to stabilize.
 - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

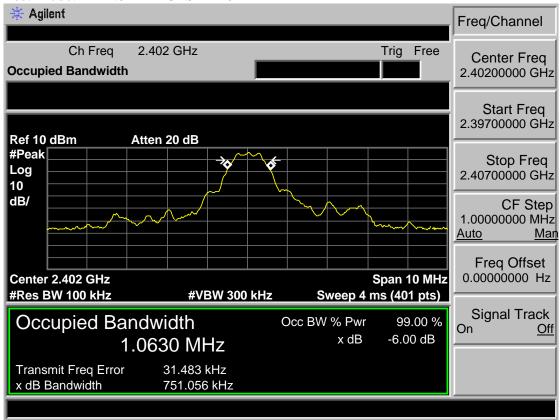
6.3 Test Result

EUT: Avi-on Remote Access Bridge						
M/N: 2001RA	В					
Test date: 2016-07-10		Tested by: Tony.Tang	Test site: RF Site			
Test Mode	СН	6dB bandwidth (MHz)	Limit (KHz)			
BT 4.0-BLE GFSK	CH1	0.751	>500			
	CH20	0.766	>500			
	CH40	0.758	>500			
Conclusion: PASS						

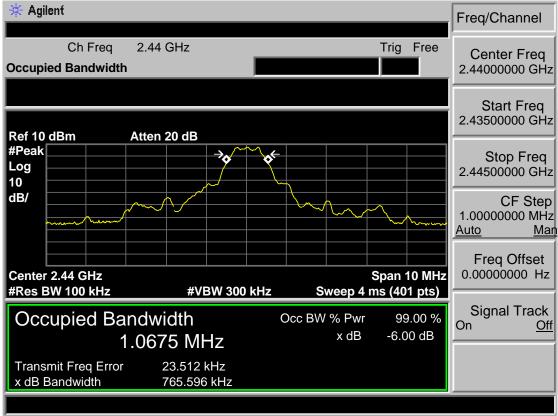


6.4 Test Data

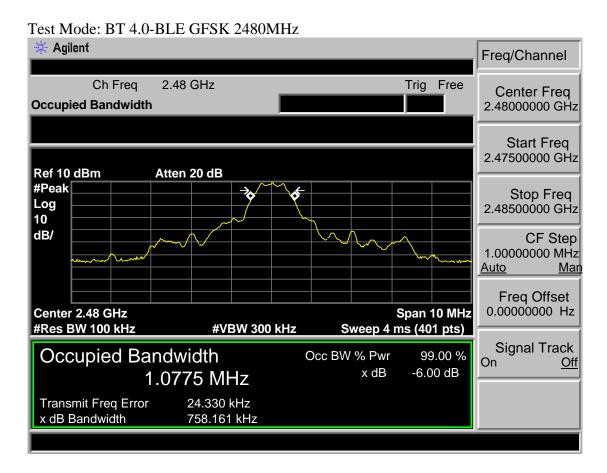
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz









7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1). Set the RBW \geq DTS bandwidth.
 - (2). Set VBW \geq 3 x RBW.
 - (3). Set span \geq 3 x RBW.
 - (4). Sweep time = auto couple.
 - (5). Detector = peak.
 - (6). Trace mode = max hold.
 - (7). Allow trace to fully stabilize.
 - (8). Use peak marker function to determine the peak amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offs



7.3 Test Result

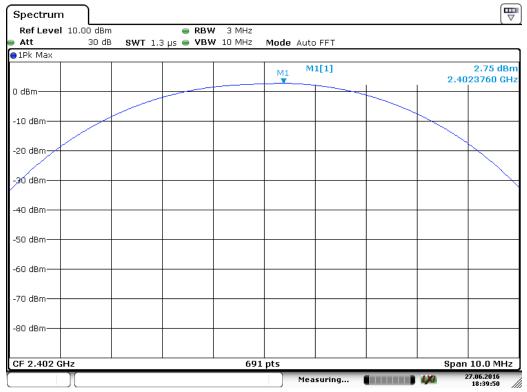
EUT: Avi-on Remote Access Bridge						
M/N:2001RAB						
Test date: 2016-06-27		Test site: 3m Chamber	Tested by: Tony Tang			
Pass						
Test Mode	СН	Peak output Power (dBm)	Limit (dBm)			
BT 4.0-BLE GFSK	CH1	2.75	30			
	CH20	4.15	30			
	CH40	3.57	30			
Conclusion: PA	ASS					



EST Technology Co., Ltd

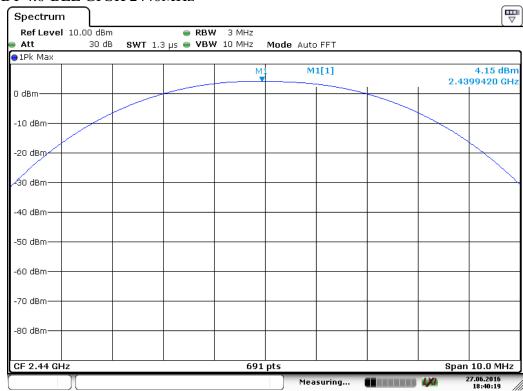
7.4 Test Data

Test Mode: BT 4.0-BLE GFSK 2402MHz



Date: 27 JUN .2016 18:39:50

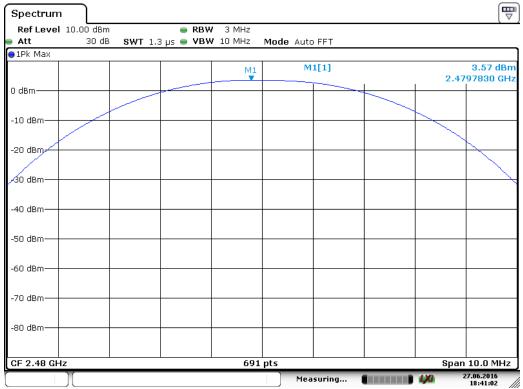
Test Mode: BT 4.0-BLE GFSK 2440MHz



Date: 27 JUN 2016 18:40:19



Test Mode: BT 4.0-BLE GFSK 2480MHz



Date: 27 JUN 2016 18:41:02



8 POWER SPECTRAL DENSITY TEST

8.1 Limit

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

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
- (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 \geq 3 RBW.
- (5). 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.
- (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



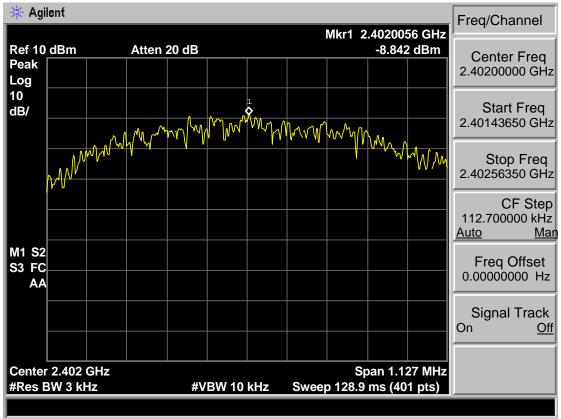
8.3 Test Result

EUT: Avi-on Remote Access Bridge						
M/N: 2001RAB						
Test date: 2016-07-10		Test site: 3m Chamber	Tested by: Tony Tang			
Pass						
Test Mode	СН	Power density (dBm/3kHz)	Limit (dBm/3kHz)			
BT 4.0-BLE GFSK	CH1	-8.842	8			
	CH20	-6.854	8			
	CH40	-5.993	8			
Conclusion: PA	ASS					

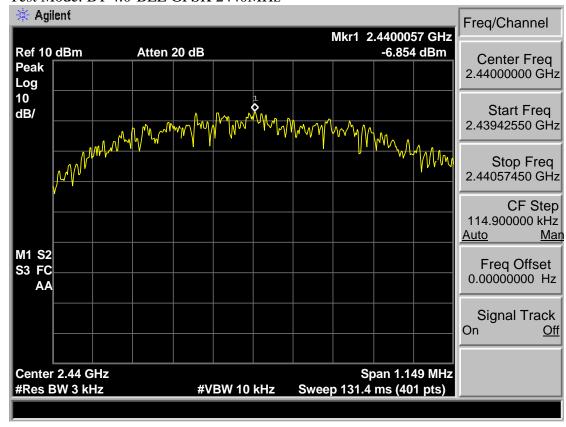


8.4 Test Data

Test Mode: BT 4.0-BLE GFSK 2402MHz



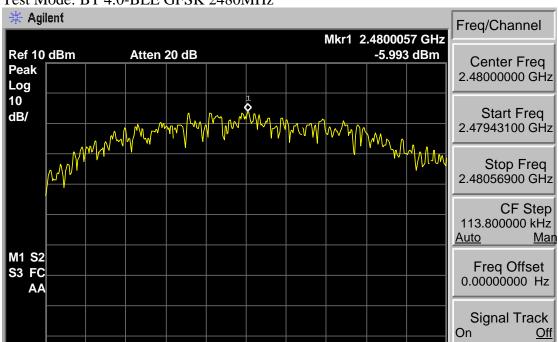
Test Mode: BT 4.0-BLE GFSK 2440MHz





Center 2.48 GHz

#Res BW 3 kHz



#VBW 10 kHz





Span 1.138 MHz

Sweep 130.1 ms (401 pts)

9 ANTENNA REQUIREMENTS

9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

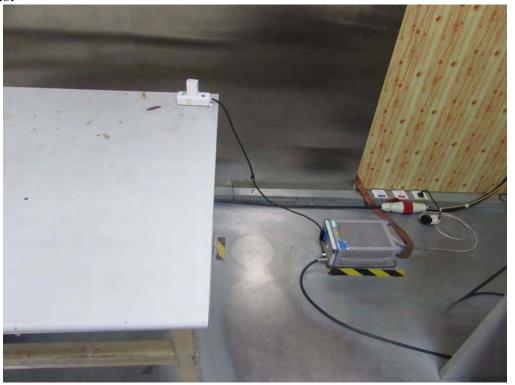
9.2 Result

The antennas used for this product are internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1dBi.



10 TEST SETUP PHOTO

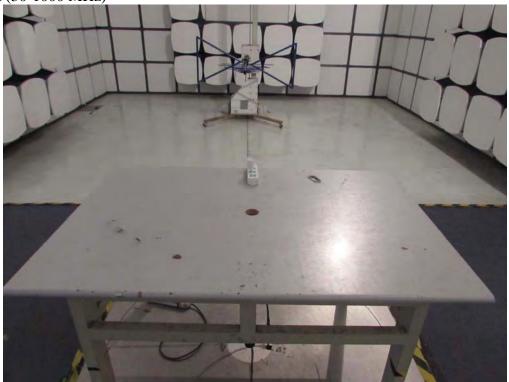
Conducted Test



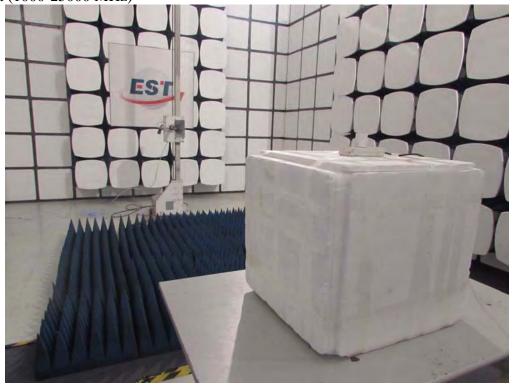




Radiated Test (30-1000 MHz)



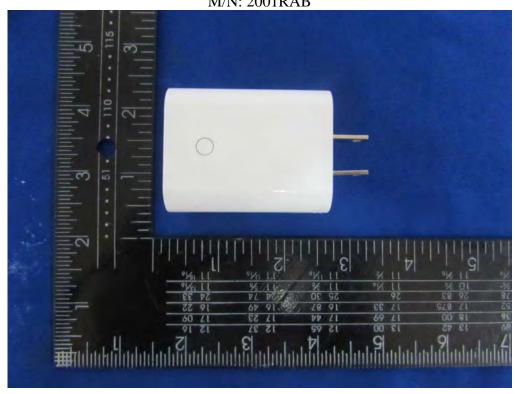
Radiated Test (1000-25000 MHz)

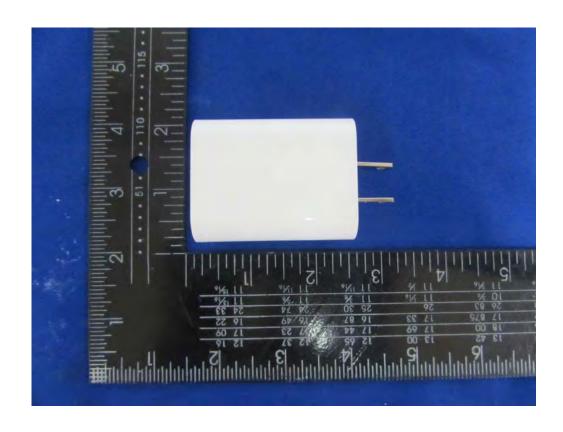




11 PHOTO EUT

External Photos M/N: 2001RAB







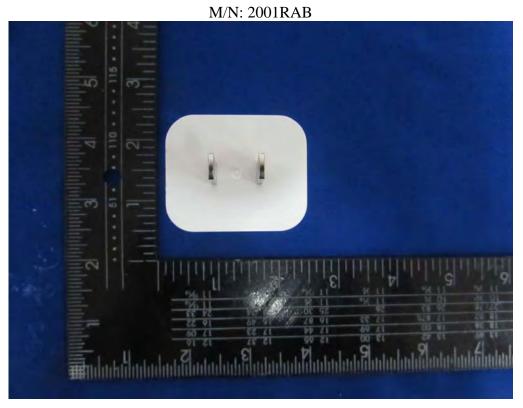
External Photos







External Photos

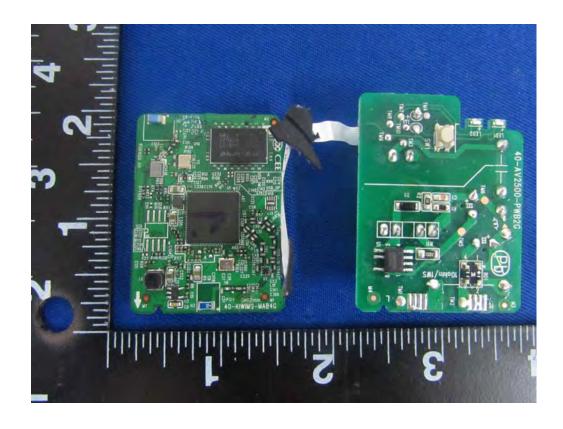




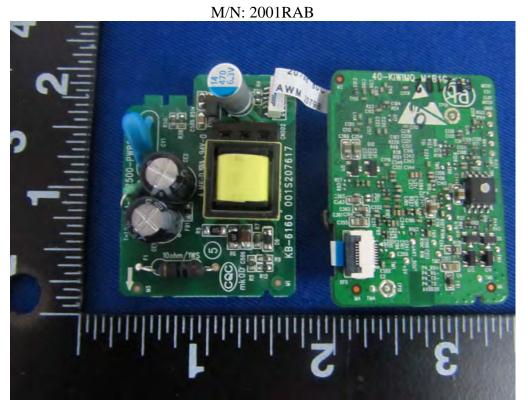


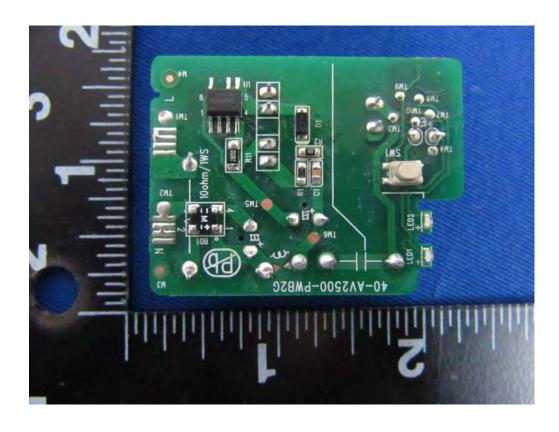
Internal Photos M/N: 2001RAB



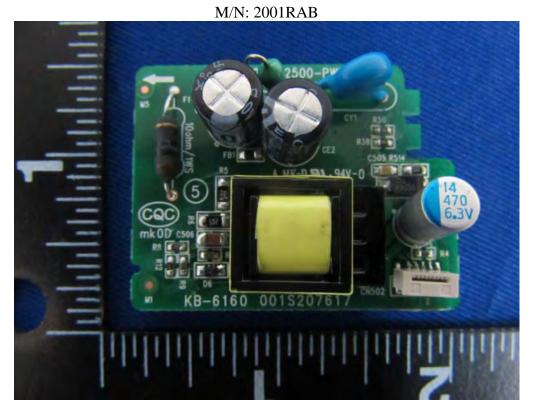


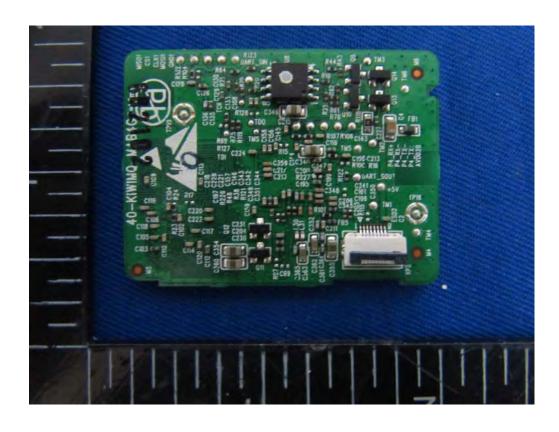






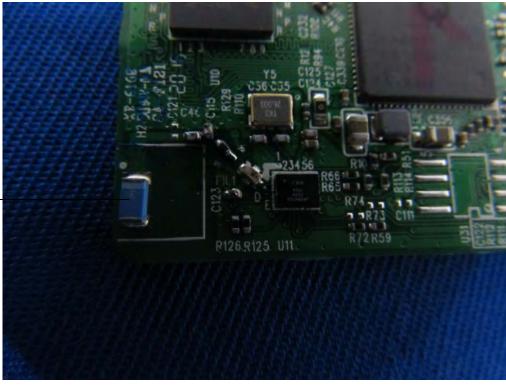








M/N: 2001RAB



Bluetooth Antenna



Wi-Fi Antenna



