FCC EMC Test Report

Applicant:	Rajant Corporation
Address of Applicant:	200 Chesterfield Parkway, Malvern PA 19355, United States
Equipment Under Test (EUT)	
Product Name:	Breadcrumb Module AG1
Model No.:	AG1-5250M
Trade Mark:	Cardinal
FCC ID:	VJA-AG15250M
Applicable Standards:	FCC CFR Title 47 Part 15B
Date of Sample Receipt:	19 Jun., 2023
Date of Test:	20 Jun., to 24 Aug., 2023
Date of report Issued:	25 Aug., 2023
Test Result:	PASS

Tested by:	June Li ***Test Engineer***	***Date:***	*25 Aug., 2023*
Reviewed by:	Jane Wang ***Project Engineer***	***Date:***	*25 Aug., 2023*
Approved by:	Marc Zhang ***Manager***	***Date:***	*25 Aug., 2023*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	*25 Aug., 2023*	*Original*

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3 General Information

3.1 Client Information

Applicant:	Rajant Corporation
Address:	200 Chesterfield Parkway, Malvern PA 19355, United States
Manufacturer:	8devices
Address:	Antakalnio g. 17, LT-10312 Vilnius
Factory:	8devices
Address:	Zirniu g. 26D, LT-02119 Vilnius

3.2 General Description of E.U.T.

Product Name:	Breadcrumb Module AG1
Model No.:	AG1-5250M
Power Supply:	DC 24V
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode

Operating Mode	Detail Description
Working mode:	Keep the EUT in Working mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

3.4 Description of Test Auxiliary Equipment

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC
TRIAD	Adapter	824WSU240-1000	WSU240-1000-R	DoC

3.5 Description of Cable Used

Cable Type	Description	Length	From	To
N/A				

3.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 10MHz)	1.9 dB
Conducted Emission for LISN (10MHz ~ 30MHz)	2.6 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	3.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	3.6 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	3.7 dB

Note: *All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.*

3.7 Additions to, Deviations, or Exclusions from the Method

No

3.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

3.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

3.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

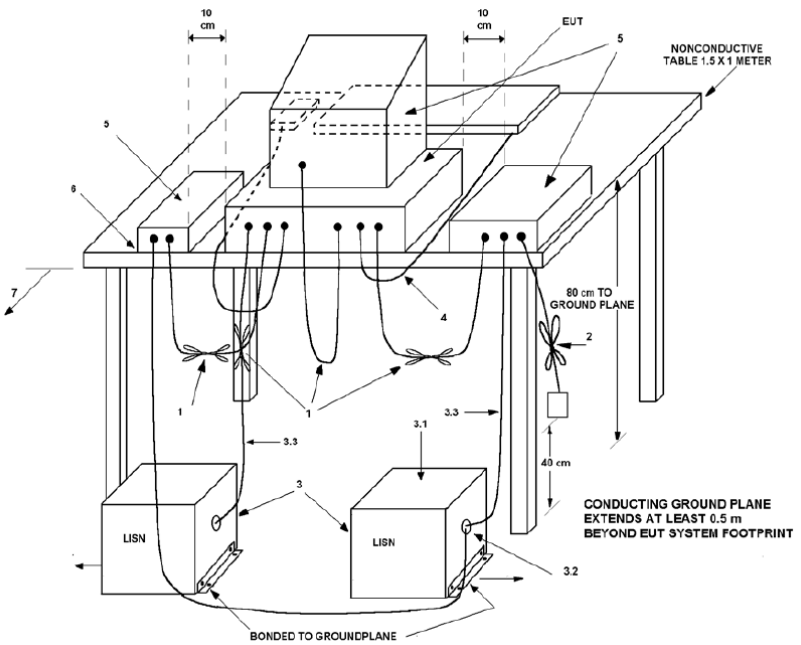
Radiated Emission(10m SAC):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	01-17-2023	01-16-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	01-10-2023	01-09-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-3	01-10-2023	01-09-2024
EMI Test Receiver	R&S	ESR 3	WXJ090-4	01-11-2023	01-09-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	01-10-2023	01-09-2024
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	01-10-2023	01-09-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-18-2023	01-17-2024
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-18-2023	01-17-2024
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	07-12-2022	07-11-2023
				07-09-2023	07-10-2024
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	01-10-2023	01-09-2024
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	01-11-2023	01-10-2024
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	01-18-2023	01-17-2024
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

4 Measurement Setup and Procedure

4.1 Test Setup

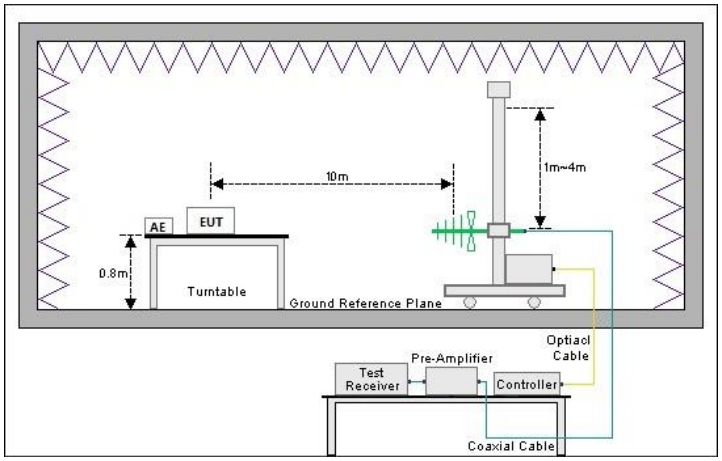
1) Conducted emission measurement:



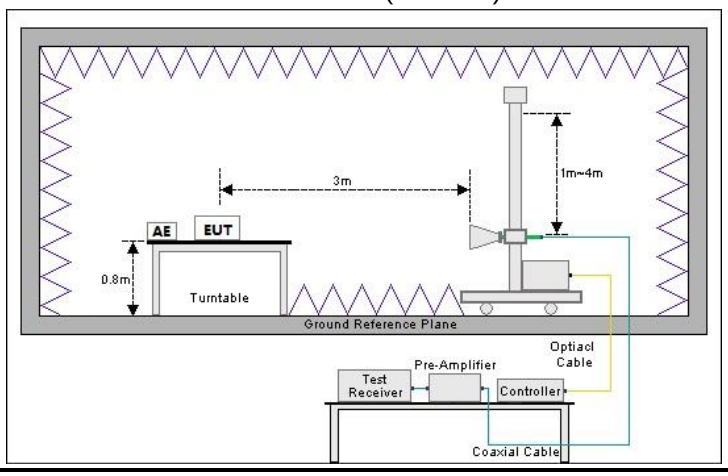
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (10m SAC)



Above 1GHz (3m SAC)



4.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	**For below 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. **For above 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

5 Test Results

5.1 Summary

5.1.1 Clause and data summary

Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 5.2	Pass
Radiated Emission	Part 15.109	See Section 5.3	Pass

Remark:

1. *The EUT is a **Class A** digital device.*
2. *Pass: The EUT complies with the essential requirements in the standard.*
3. *N/A: Not Applicable.*

Test Method:	*ANSI C63.4:2014*

5.1.2 Test Limit

Test items	Limit
Conducted Emission	
Radiated Emission	

Frequency (MHz)	Class A Limit (dBμV)		Class B Limit (dBμV)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15 – 0.5	79	66	66 to 56 Note 1	56 to 46 Note 1
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50

Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.
Note 2: The more stringent limit applies at transition frequencies.

Frequency (MHz)	Class A Limit (dBμV/m)		Class B Limit (dBμV/m)	
	Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m
30 – 88	49.0	39.0	40.0	30.0
88 – 216	53.5	43.5	43.5	33.5
216 – 960	56.0	46.0	46.0	36.0
960 – 1000	60.0	50.0	54.0	44.0

Note: The more stringent limit applies at transition frequencies.

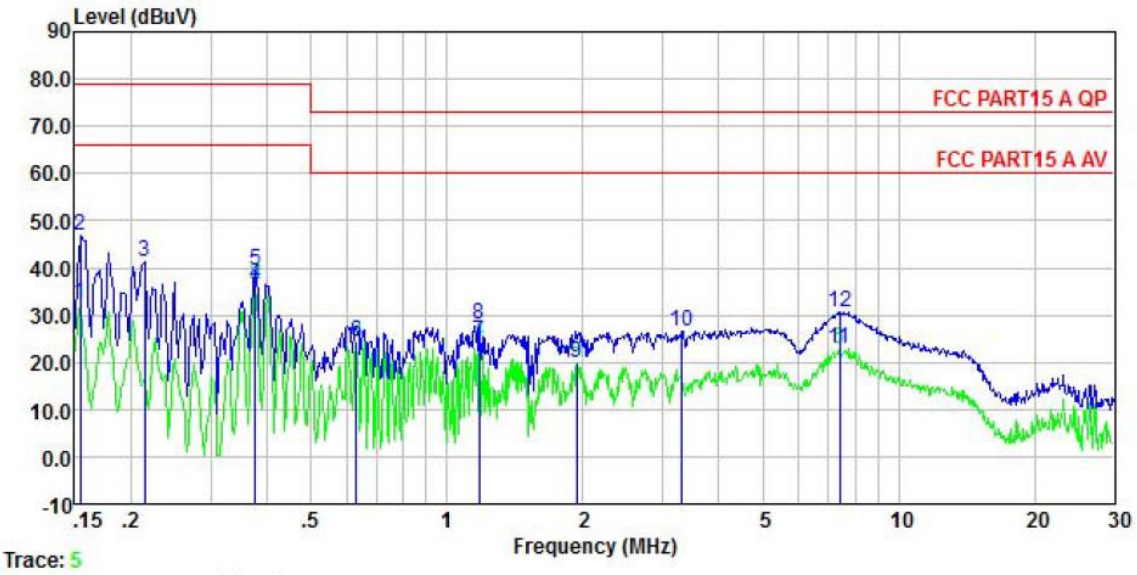
Frequency	Class A Limit (dBμV/m) @ 3m		Class B Limit (dBμV/m) @ 3m	
	Average	Peake	Average	Peake
Above 1 GHz	60.0	80.0	54.0	74.0

Note: The measurement bandwidth shall be 1 MHz or greater.

5.2 Conducted Emission

ANT1:

Product name:	Breadcrumb Module AG1	**Product model:**	AG1-5250M
Test by:	June	**Test mode:**	Working mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Line
Test voltage:	AC 120 V/60 Hz		

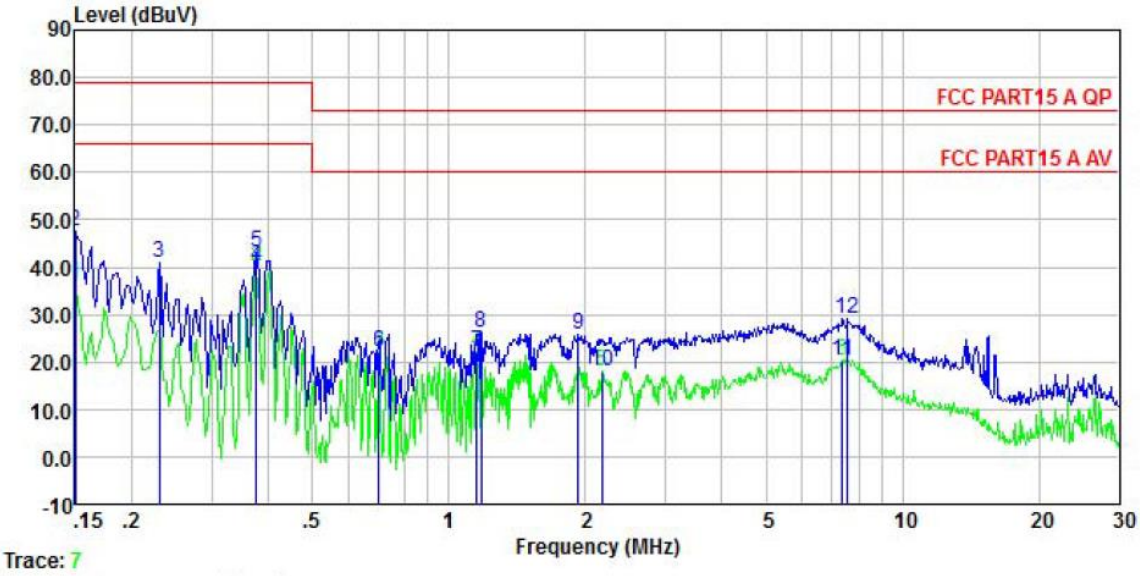


	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	21.87	0.20	10.50	0.01	32.58	66.00	-33.42	Average
2	0.154	36.12	0.20	10.50	0.01	46.83	79.00	-32.17	QP
3	0.214	30.68	0.20	10.50	0.03	41.41	79.00	-37.59	QP
4	0.377	25.88	0.20	10.50	0.03	36.61	66.00	-29.39	Average
5	0.377	28.75	0.20	10.50	0.03	39.48	79.00	-39.52	QP
6	0.630	13.51	0.20	10.50	0.02	24.23	60.00	-35.77	Average
7	1.178	13.70	0.20	10.50	0.09	24.49	60.00	-35.51	Average
8	1.178	17.06	0.20	10.50	0.09	27.85	73.00	-45.15	QP
9	1.939	9.01	0.20	10.50	0.20	19.91	60.00	-40.09	Average
10	3.293	15.64	0.20	10.50	0.07	26.41	73.00	-46.59	QP
11	7.407	12.03	0.20	10.50	0.10	22.83	60.00	-37.17	Average
12	7.407	19.95	0.20	10.50	0.10	30.75	73.00	-42.25	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Breadcrumb Module AG1	**Product model:**	AG1-5250M
Test by:	June	**Test mode:**	Working mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Neutral
Test voltage:	AC 120 V/60 Hz		



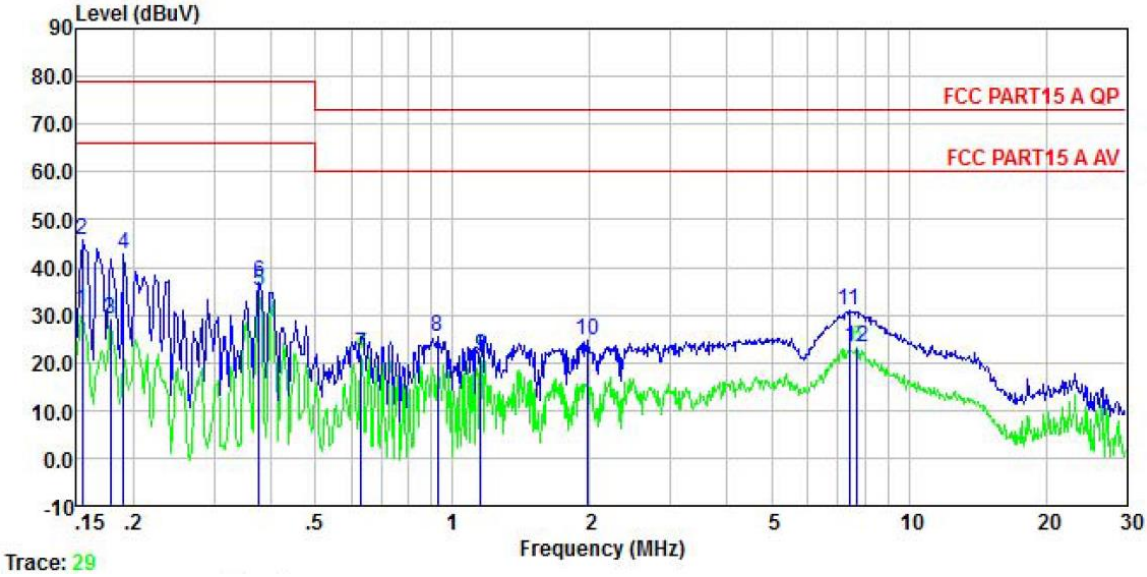
	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	25.75	0.20	10.50	0.01	36.46	66.00	-29.54	Average
2	0.150	36.68	0.20	10.50	0.01	47.39	79.00	-31.61	QP
3	0.230	30.05	0.20	10.50	0.02	40.77	79.00	-38.23	QP
4	0.377	29.48	0.20	10.50	0.03	40.21	66.00	-25.79	Average
5	0.377	32.39	0.20	10.50	0.03	43.12	79.00	-35.88	QP
6	0.701	11.38	0.20	10.50	0.03	22.11	60.00	-37.89	Average
7	1.153	11.45	0.22	10.50	0.08	22.25	60.00	-37.75	Average
8	1.178	15.31	0.22	10.50	0.09	26.12	73.00	-46.88	QP
9	1.928	14.90	0.30	10.50	0.20	25.90	73.00	-47.10	QP
10	2.178	7.09	0.30	10.50	0.18	18.07	60.00	-41.93	Average
11	7.368	9.52	0.31	10.50	0.10	20.43	60.00	-39.57	Average
12	7.566	18.25	0.32	10.50	0.10	29.17	73.00	-43.83	QP

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

ANT2:

Product name:	Breadcrumb Module AG1	**Product model:**	AG1-5250M
Test by:	June	**Test mode:**	Working mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Line
Test voltage:	AC 120 V/60 Hz		

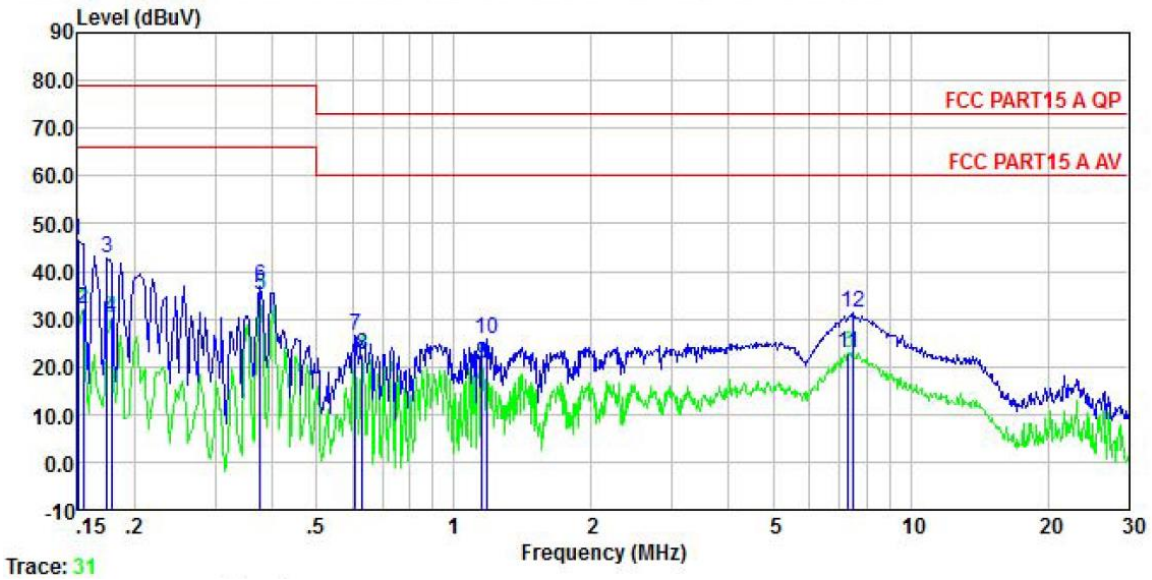


	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.154	20.20	0.20	10.50	0.01	30.91	66.00	-35.09	Average
2	0.154	34.87	0.20	10.50	0.01	45.58	79.00	-33.42	QP
3	0.178	18.41	0.20	10.50	0.01	29.12	66.00	-36.88	Average
4	0.190	31.93	0.20	10.50	0.03	42.66	79.00	-36.34	QP
5	0.377	24.31	0.20	10.50	0.03	35.04	66.00	-30.96	Average
6	0.377	26.13	0.20	10.50	0.03	36.86	79.00	-42.14	QP
7	0.630	11.11	0.20	10.50	0.02	21.83	60.00	-38.17	Average
8	0.928	14.73	0.20	10.50	0.04	25.47	73.00	-47.53	QP
9	1.153	10.58	0.20	10.50	0.08	21.36	60.00	-38.64	Average
10	1.970	13.72	0.20	10.50	0.21	24.63	73.00	-48.37	QP
11	7.407	19.99	0.20	10.50	0.10	30.79	73.00	-42.21	QP
12	7.687	12.38	0.20	10.50	0.10	23.18	60.00	-36.82	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Breadcrumb Module AG1	**Product model:**	AG1-5250M
Test by:	June	**Test mode:**	Working mode
Test frequency:	150 kHz ~ 30 MHz	**Phase:**	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Aux2 Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	35.59	0.20	10.50	0.01	46.30	79.00	-32.70	QP
2	0.154	21.43	0.20	10.50	0.01	32.14	66.00	-33.86	Average
3	0.174	32.02	0.20	10.50	0.01	42.73	79.00	-36.27	QP
4	0.178	19.40	0.20	10.50	0.01	30.11	66.00	-35.89	Average
5	0.377	24.43	0.20	10.50	0.03	35.16	66.00	-30.84	Average
6	0.377	26.26	0.20	10.50	0.03	36.99	79.00	-42.01	QP
7	0.608	15.95	0.20	10.50	0.02	26.67	73.00	-46.33	QP
8	0.630	11.69	0.20	10.50	0.02	22.41	60.00	-37.59	Average
9	1.153	9.89	0.22	10.50	0.08	20.69	60.00	-39.31	Average
10	1.178	14.81	0.22	10.50	0.09	25.62	73.00	-47.38	QP
11	7.290	11.99	0.31	10.50	0.10	22.90	60.00	-37.10	Average
12	7.486	20.23	0.32	10.50	0.10	31.15	73.00	-41.85	QP

Remark:

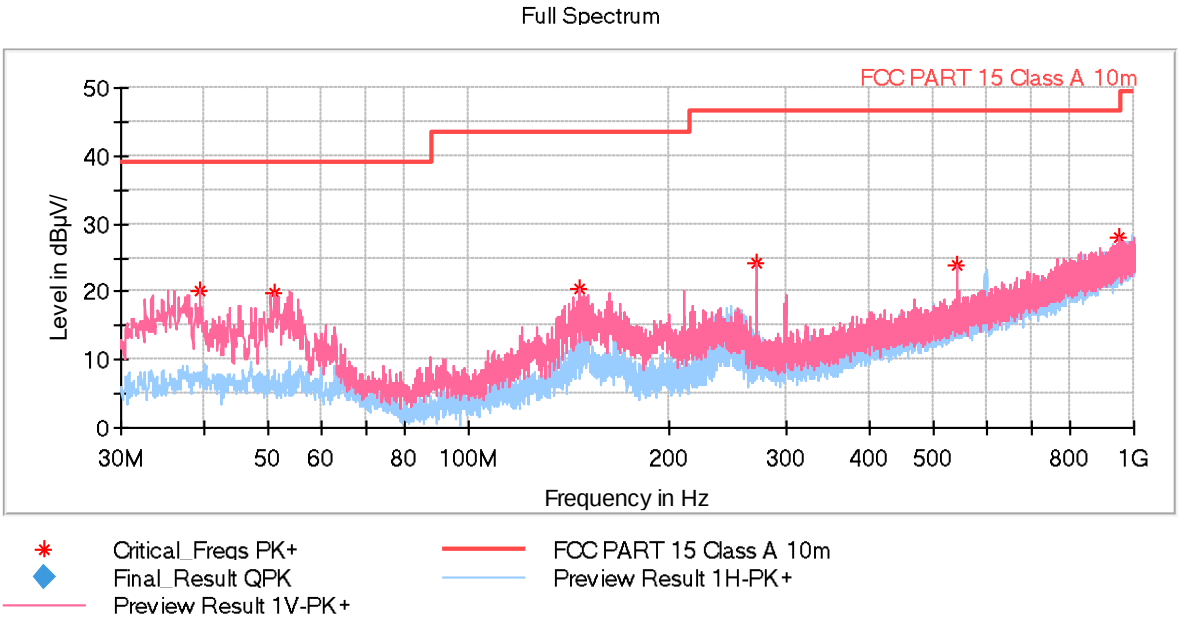
1. Level = Read level + LISN Factor + Cable Loss.

5.3 Radiated Emission

Below 1GHz:

ANT1:

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical & Horizontal
Test Voltage:	AC 120V/60Hz		



Critical_Freqs

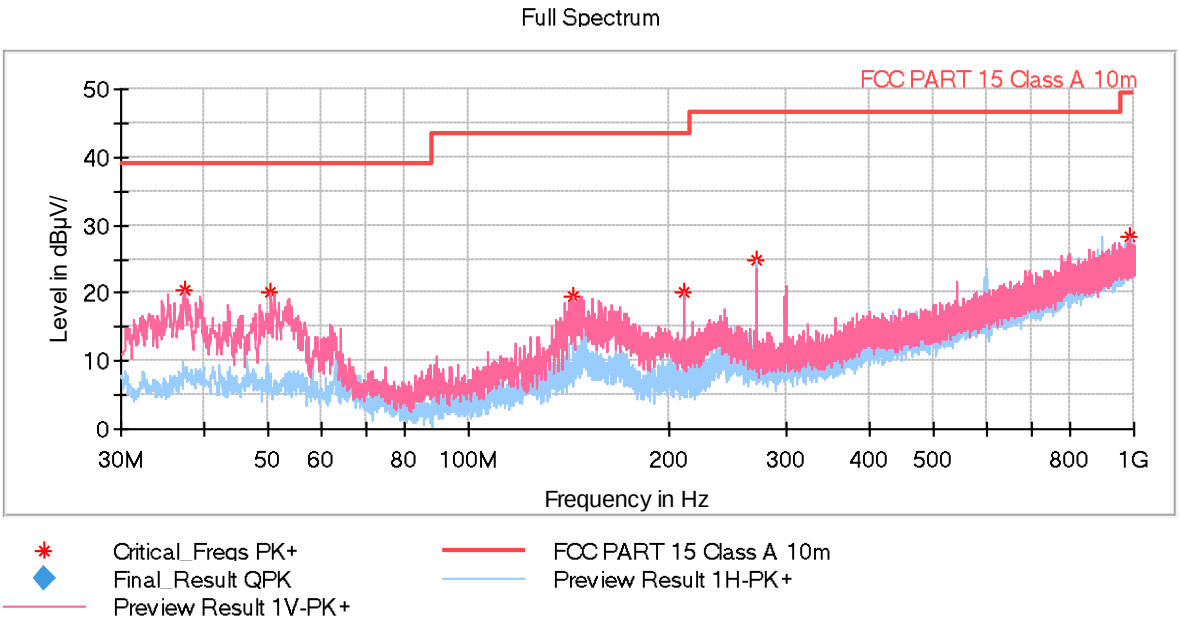
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.457500	20.28	39.00	18.72	100.0	V	109.0	-15.4
50.952000	19.71	39.00	19.29	100.0	V	262.0	-16.0
146.885000	20.48	43.50	23.02	100.0	V	121.0	-15.3
269.978000	24.11	46.40	22.29	100.0	V	0.0	-15.6
539.977500	24.03	46.40	22.37	100.0	V	46.0	-8.1
946.601500	27.96	46.40	18.44	100.0	V	146.0	0.0

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

ANT2:

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	30 MHz ~ 1 GHz	**Polarization:**	Vertical & Horizontal
Test Voltage:	AC 120V/60Hz		



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.323500	20.40	39.00	18.60	100.0	V	2.0	-15.8
50.418500	20.16	39.00	18.84	100.0	V	226.0	-16.1
143.296000	19.51	43.50	23.99	100.0	V	113.0	-15.8
209.983500	19.99	43.50	23.51	100.0	V	84.0	-17.6
269.978000	24.69	46.40	21.71	100.0	H	84.0	-15.8
984.868000	28.41	49.50	21.09	100.0	V	295.0	0.3

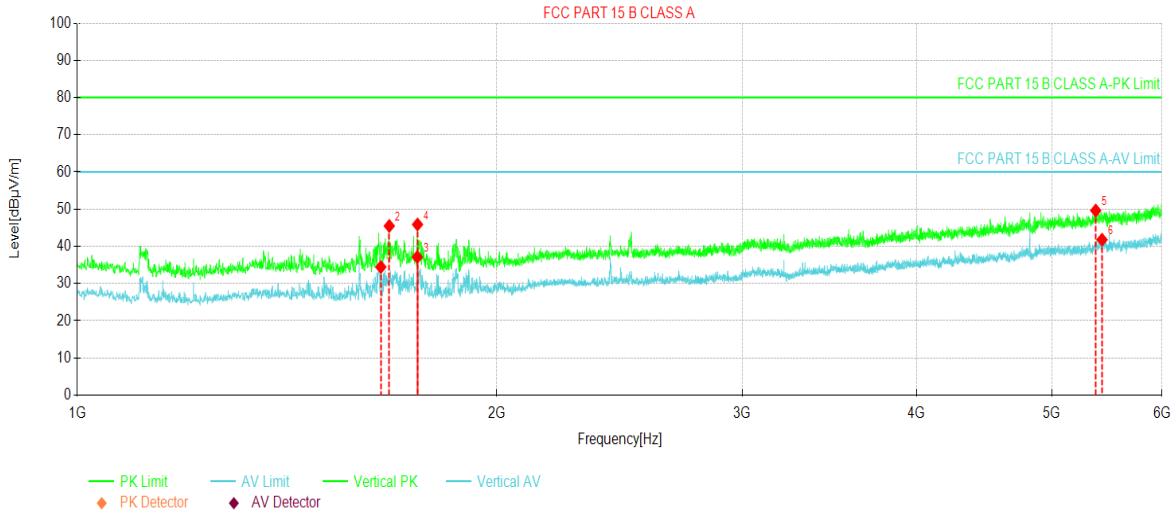
Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Above 1GHz:

ANT1:

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Vertical
Test Voltage:	AC 120V/60Hz		

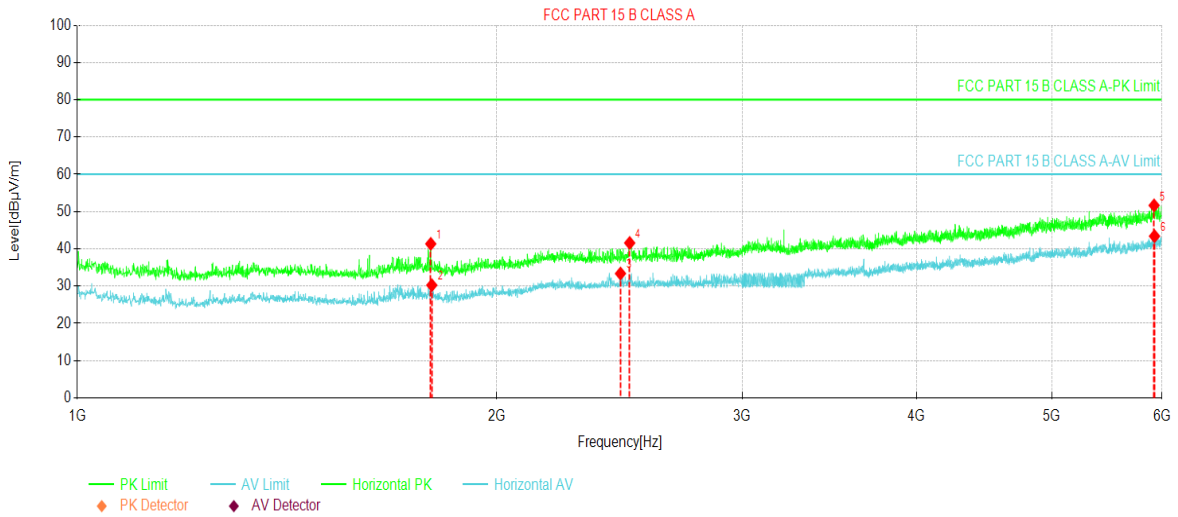


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1651.25	57.39	34.45	-22.94	60.00	25.55	AV	Vertical
2	1674.37	68.10	45.48	-22.62	80.00	34.52	PK	Vertical
3	1753.75	59.12	37.13	-21.99	60.00	22.87	AV	Vertical
4	1754.37	67.87	45.88	-21.99	80.00	34.12	PK	Vertical
5	5378.12	56.32	49.63	-6.69	80.00	30.37	PK	Vertical
6	5434.37	48.29	41.78	-6.51	60.00	18.22	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Horizontal
Test Voltage:	AC 120V/60Hz		



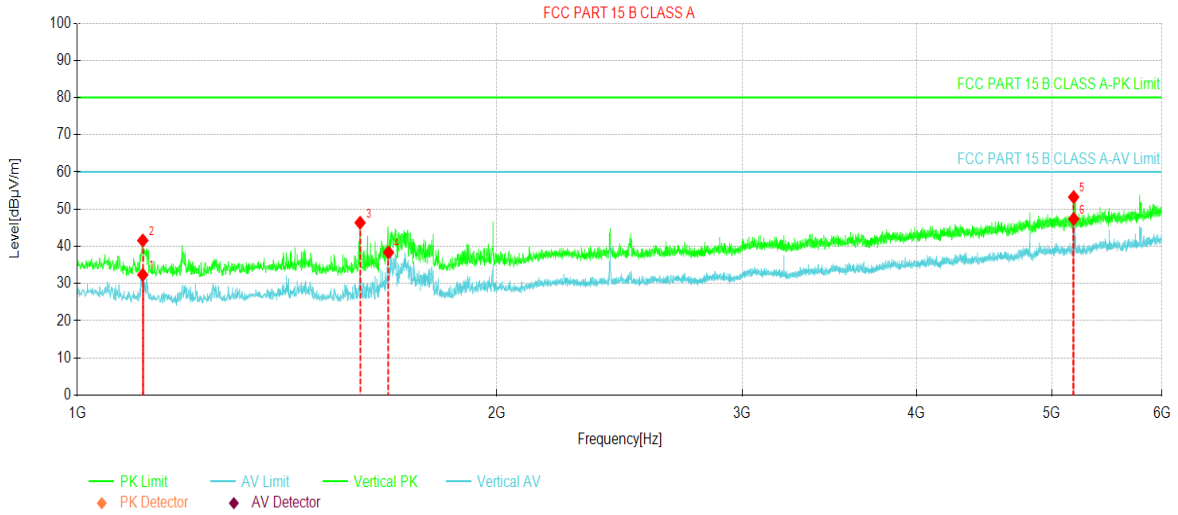
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1793.12	63.41	41.33	-22.08	80.00	38.67	PK	Horizontal
2	1796.25	52.32	30.23	-22.09	60.00	29.77	AV	Horizontal
3	2453.12	51.39	33.37	-18.02	60.00	26.63	AV	Horizontal
4	2490.62	59.58	41.57	-18.01	80.00	38.43	PK	Horizontal
5	5922.50	56.25	51.65	-4.60	80.00	28.35	PK	Horizontal
6	5926.25	47.99	43.40	-4.59	60.00	16.60	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

ANT2:

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Vertical
Test Voltage:	AC 120V/60Hz		

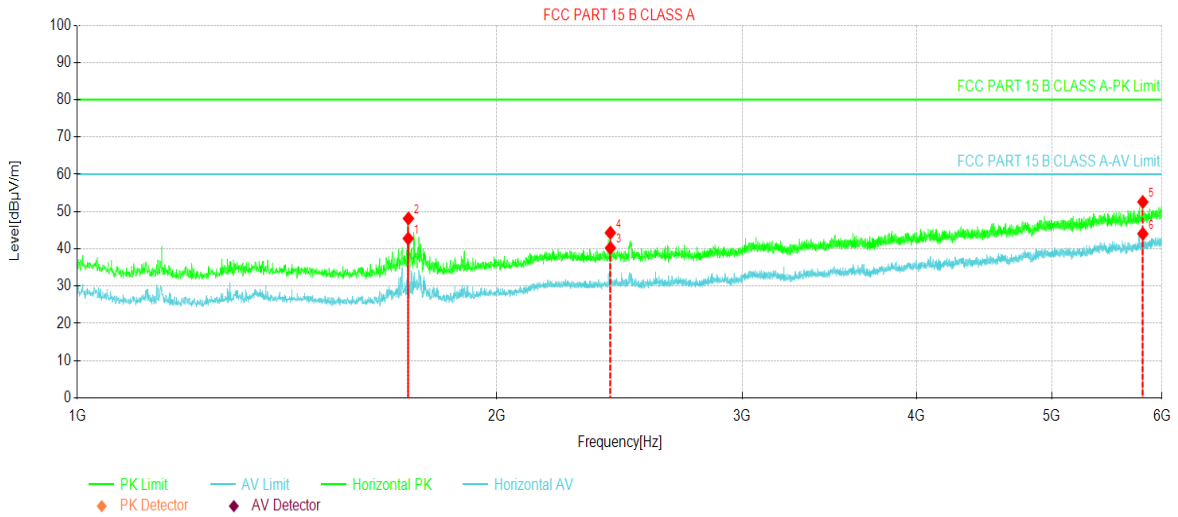


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1114.37	55.60	32.35	-23.25	60.00	27.65	AV	Vertical
2	1114.37	64.83	41.58	-23.25	80.00	38.42	PK	Vertical
3	1595.62	69.38	46.34	-23.04	80.00	33.66	PK	Vertical
4	1672.50	60.99	38.35	-22.64	60.00	21.65	AV	Vertical
5	5185.62	61.19	53.25	-7.94	80.00	26.75	PK	Vertical
6	5185.62	55.32	47.38	-7.94	60.00	12.62	AV	Vertical

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

Product Name:	Breadcrumb Module AG1	**Product Model:**	AG1-5250M
Test By:	June	**Test mode:**	Working mode
Test Frequency:	1000 MHz ~ 6000 MHz	**Polarization:**	Horizontal
Test Voltage:	AC 120V/60Hz		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1727.50	64.88	42.77	-22.11	60.00	17.23	AV	Horizontal
2	1728.12	70.24	48.14	-22.10	80.00	31.86	PK	Horizontal
3	2412.50	58.46	40.21	-18.25	60.00	19.79	AV	Horizontal
4	2412.50	62.56	44.31	-18.25	80.00	35.69	PK	Horizontal
5	5813.12	58.05	52.57	-5.48	80.00	27.43	PK	Horizontal
6	5813.12	49.52	44.04	-5.48	60.00	15.96	AV	Horizontal

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

------End of report------