

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Hardwire FIA

MODEL No.: Hardwire FIA

FCC ID: 2AKAM2288

Trademark: N/A

REPORT NO: ES161129051E

ISSUE DATE: December 20, 2016

Prepared for

Roseman Engineering Ltd. Kiryat Atidim. St. Dvora Nevia, Bld.3, floor 5., Tel Aviv, Israel

Prepared by EMTEK (SHENZHEN) CO., LTD.

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VERIFICATION OF COMPLIANCE

Applicant:	Roseman Engineering Ltd. Kiryat Atidim. St. Dvora Nevia, Bld.3, floor 5., Tel Aviv, Israel
Manufacturer:	Roseman Engineering Ltd. Kiryat Atidim. St. Dvora Nevia, Bld.3, floor 5., Tel Aviv, Israel
Product product:	Hardwire FIA
Model Number:	Hardwire FIA
Trademark:	N/A
File Number:	ES161129051E
Date of Test:	December 5, 2016 to December 20, 2016

We hereby certify that:

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. 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 conducted and radiated emission limits of FCC Rules Part 15C.

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

Date of Test :

December 5, 2016 to December 20, 2016

Prepared by :

oanna. Tiao

Joanna Jiao/Editor

Reviewer :

Joe Xia/Supervisor

Approve & Authorized Signer :

Lisa Wang/Manager

ENZHE

ESTING

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Table of Contents

1	GEN	JERAL INFORMATION	4
2	1.1 1.2 1.3 1.4 1.5 1.6	PRODUCT DESCRIPTION RELATED SUBMITTAL(S) / GRANT(S) TEST METHODOLOGY SPECIAL ACCESSORIES EQUIPMENT MODIFICATIONS TEST FACILITY TEM TEST CONFIGURATION	4 5 5 5 5
2			
	2.1 2.2	EUT CONFIGURATIONEUT EXERCISE	
	2.2	Test Procedure	
	2.4	CONFIGURATION OF TESTED SYSTEM	
3	SUN	IMARY OF TEST RESULTS	8
4	CON	NDUCTED EMISSIONS TEST	9
	4.1 4.2 4.3 4.4 4.5 4.6	MEASUREMENT PROCEDURE TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) MEASUREMENT EQUIPMENT USED CONDUCTED EMISSION LIMIT MEASUREMENT RESULT	9 9 9 0
5	RAD	DIATED EMISSION TEST	3
	5.1 5.2 5.3 5.4 5.5 5.6	MEASUREMENT PROCEDURE 1 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 1 MEASUREMENT EQUIPMENT USED 1 RADIATED EMISSION LIMIT 1 MEASUREMENT RESULT 1 RADIATED MEASUREMENT PHOTOS 2	3 4 4 6



1 General Information

1.1 Product Description

Characteristics	Description		
Product	Hardwire FIA		
Model Number	Hardwire FIA		
Power Supply	DC12V from fleet journal		
Operation Frequency	10 KHz		
Modulation	АМ		
Antenna Type	Loop Antenna		
Antenna Gain	0 dBi		

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AKAM2288 filing to comply with FCC Part 15, Subpart C Rules.



1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description	
EMC Lab.	 Accredited by CNAS, 2016.10.24 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L2291.
	Accredited by TUV Rheinland Shenzhen 2015.4 The Laboratory has been assessed according to the requirements ISO/IEC 17025.
	Accredited by FCC, April 17, 2013 The Certificate Registration Number is 709623.
	Accredited by FCC, July 13, 2016 The Certificate Registration Number is 406365.
	Accredited by Industry Canada, November 24, 2015 The Certificate Registration Number is 4480A.
Name of Firm Site Location	 EMTEK (SHENZHEN) CO., LTD. Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China



2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

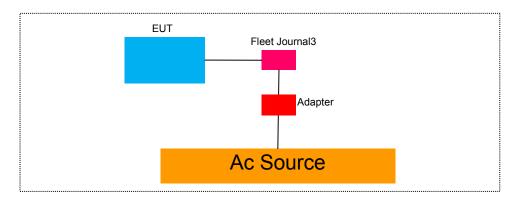


Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1.	Car Dara Logger	N/A	Fleet Journal3	JAKFG3E		
2.	Adapter	MASS POWER	NBS12E120100 UV-1	N/A		

Note:

(1) Unless otherwise denoted as EUT in [Remark] column, device(s) used in tested system is a support equipment.



3 Summary of Test Results

FCC Rules	Description Of Test	Result	
§15.207	AC Power Conducted Emission	Pass	
§15.209	Radiated Emission	Pass	

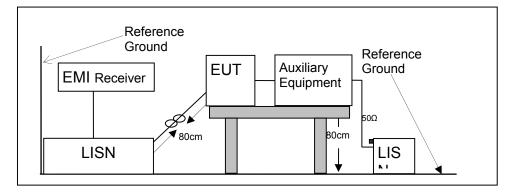


4 Conducted Emissions Test

4.1 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured was complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/29/2016	05/29/2017				
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/28/2016	05/28/2017				
50Ω Coaxial Switch	Anritsu	MP59B	M20531	05/29/2016	05/29/2017				
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/28/2016	05/28/2017				
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/28/2016	05/28/2017				
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/28/2016	05/28/2017				

4.4 Conducted Emission Limit

Conducted Emission		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

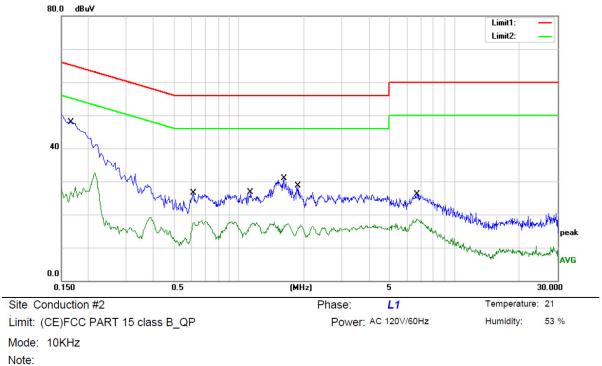
Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



4.5 Measurement Result

We test the EUT at 120V and 240V, and show the worst result as bellow.



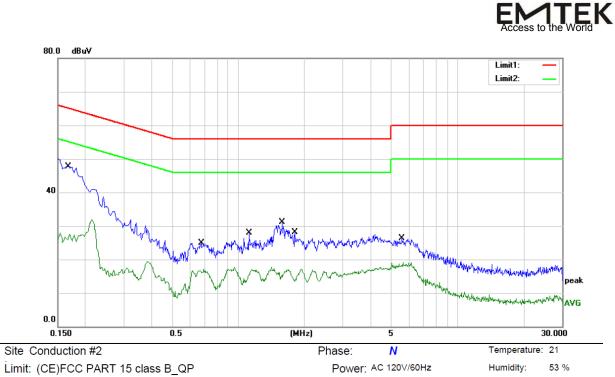
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBu∨	dBuV	dB	Detector	Comment
1	*	0.1660	38.29	9.62	47.91	65.16	-17.25	QP	
2		0.1660	23.03	9.62	32.65	55.16	-22.51	AVG	
3		0.6140	16.82	9.74	26.56	56.00	-29.44	QP	
4		0.6140	8.40	9.74	18.14	46.00	-27.86	AVG	
5		1.1340	16.87	9.85	26.72	56.00	-29.28	QP	
6		1.1340	7.66	9.85	17.51	46.00	-28.49	AVG	
7		1.6180	21.14	9.85	30.99	56.00	-25.01	QP	
8		1.6180	7.43	9.85	17.28	46.00	-28.72	AVG	
9		1.8780	18.88	9.85	28.73	56.00	-27.27	QP	
10		1.8780	6.95	9.85	16.80	46.00	-29.20	AVG	
11		6.7220	16.14	9.88	26.02	60.00	-33.98	QP	
12		6.7220	8.89	9.88	18.77	50.00	-31.23	AVG	

*:Maximum data x:Over li

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator:





MHz dBuV dB dBuV dBuV dB Detector Comment 1 * 0.1685 37.99 9.62 47.61 65.03 -17.42 QP 2 0.1685 22.29 9.62 31.91 55.03 -23.12 AVG 3 0.6780 15.13 9.76 24.89 56.00 -31.11 QP 4 0.6780 6.99 9.76 16.75 46.00 -29.25 AVG 5 1.1180 18.04 9.85 27.89 56.00 -28.11 QP 6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
1 0.1003 37.33 3.02 47.01 00.03 17.42 Q1 2 0.1685 22.29 9.62 31.91 55.03 -23.12 AVG 3 0.6780 15.13 9.76 24.89 56.00 -31.11 QP 4 0.6780 6.99 9.76 16.75 46.00 -29.25 AVG 5 1.1180 18.04 9.85 27.89 56.00 -28.11 QP 6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG		MHz	dBu∨	dB	dBu∨	dBuV	dB	Detector	Comment
3 0.6780 15.13 9.76 24.89 56.00 -31.11 QP 4 0.6780 6.99 9.76 16.75 46.00 -29.25 AVG 5 1.1180 18.04 9.85 27.89 56.00 -28.11 QP 6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	1 *	0.1685	37.99	9.62	47.61	65.03	-17.42	QP	
4 0.6780 6.99 9.76 16.75 46.00 -29.25 AVG 5 1.1180 18.04 9.85 27.89 56.00 -28.11 QP 6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	2	0.1685	22.29	9.62	31.91	55.03	-23.12	AVG	
5 1.1180 18.04 9.85 27.89 56.00 -28.11 QP 6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	3	0.6780	15.13	9.76	24.89	56.00	-31.11	QP	
6 1.1180 7.22 9.85 17.07 46.00 -28.93 AVG 7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	4	0.6780	6.99	9.76	16.75	46.00	-29.25	AVG	
7 1.5860 21.25 9.85 31.10 56.00 -24.90 QP 8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	5	1.1180	18.04	9.85	27.89	56.00	-28.11	QP	
8 1.5860 7.13 9.85 16.98 46.00 -29.02 AVG	6	1.1180	7.22	9.85	17.07	46.00	-28.93	AVG	
	7	1.5860	21.25	9.85	31.10	56.00	-24.90	QP	
	8	1.5860	7.13	9.85	16.98	46.00	-29.02	AVG	
9 1.8180 18.20 9.85 28.05 56.00 -27.95 QP	9	1.8180	18.20	9.85	28.05	56.00	-27.95	QP	
10 1.8180 7.32 9.85 17.17 46.00 -28.83 AVG	10	1.8180	7.32	9.85	17.17	46.00	-28.83	AVG	
11 5.5740 16.39 9.87 26.26 60.00 -33.74 QP	11	5.5740	16.39	9.87	26.26	60.00	-33.74	QP	
12 5.5740 9.20 9.87 19.07 50.00 -30.93 AVG	12	5.5740	9.20	9.87	19.07	50.00	-30.93	AVG	

*:Maximum data x:Over li

x:Over limit !:over margin

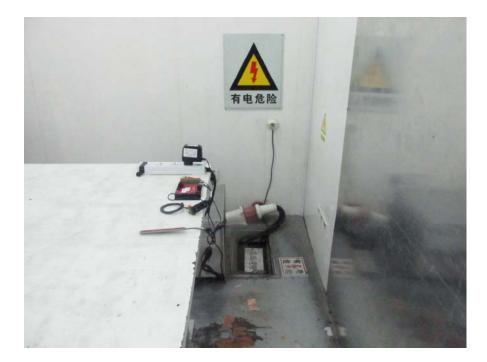
Comment: Factor build in receiver.

Operator:



4.6 Conducted Measurement Photo







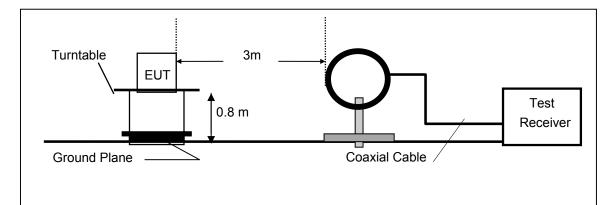
5 Radiated Emission Test

5.1 Measurement Procedure

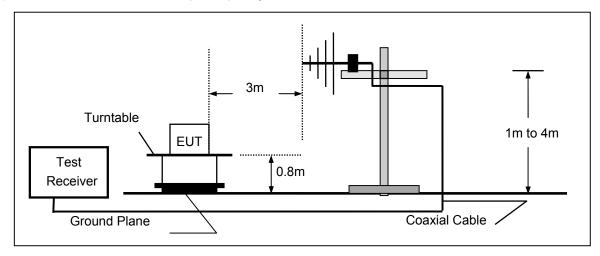
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.
- Use the following receiver/spectrum analyzer settings: Span = wide enough to fully capture the emission being measured RBW=200Hz for 9KHz to 150KHz, RBW=9kHz for 150KHz to 30MHz, RBW=120KHz for 30MHz to 1GHz VBW ≥ 3*RBW Sweep = auto Detector function = QP Trace = max hold

5.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

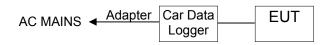


(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz





(C) Block Diagram of EUT System



(EUT: Hardwire FIA)

5.3 Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.	CAL DUE.
TYPE		NUMBER	NUMBER		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/29/2016	05/29/2017
Pre-Amplifier	HP	8447D	2944A07999	05/28/2016	05/28/2017
Bilog Antenna	Schwarzbeck	VULB9163	142	05/28/2016	05/28/2017
Loop Antenna	ARA	PLA-1030/B	1029	05/28/2016	05/28/2017
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/28/2016	05/28/2017
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/28/2016	05/16/2016
Cable	Schwarzbeck	AK9513	ACRX1	05/29/2016	05/29/2017
Cable	Rosenberger	N/A	FP2RX2	05/29/2016	05/29/2017
Cable	Schwarzbeck	AK9513	CRPX1	05/29/2016	05/29/2017
Cable	Schwarzbeck	AK9513	CRRX2	05/29/2016	05/29/2017

5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209								
	Field Streng	gth	Field Strength Limitation Frequency tion at 3m					
Frequency	Limitation		Meas	urement Dist				
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)				
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80				
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40				
1.705 – 30.00	30	30m	100* 30	20log 30 + 40				
30.0 - 88.0	100	3m	100	20log 100				
88.0 - 216.0	150	3m	150	20log 150				
216.0 - 960.0	200	3m	200	20log 200				
Above 960.0	500	3m	500	20log 500				



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)

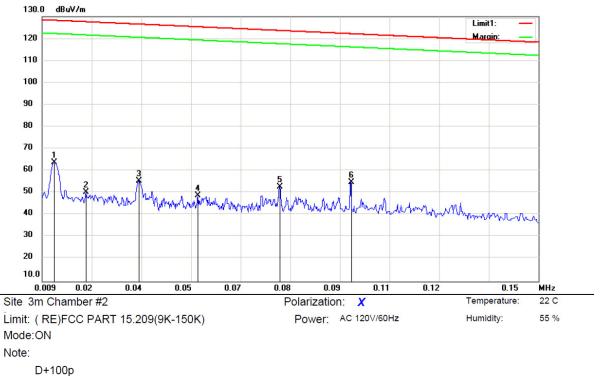
15.205 Restricted bands of operation

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



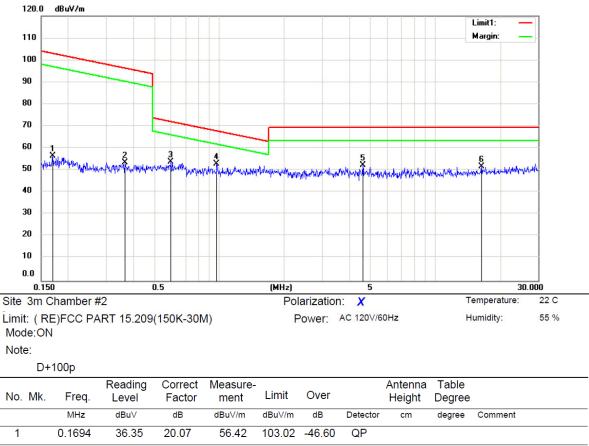


5.5 Measurement Result

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	0.0126	44.48	19.35	63.83	128.24	-64.41	QP			
2	0.0214	30.71	19. <mark>5</mark> 3	50.24	127.61	-77.37	QP			
3	0.0365	35.75	19.83	55.58	126.52	-70.94	QP			
4	0.0533	28.82	20.08	48.90	125.30	-76.40	QP			
5	0.0765	32.83	19.94	52.77	123.63	-70.86	QP			
6	0.0967	34.92	19.87	54.79	122.17	-67.38	QP			

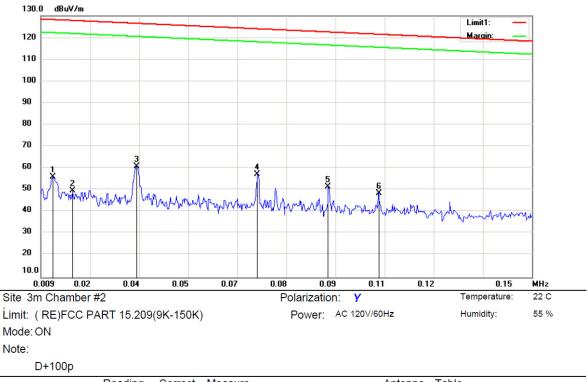
*:Maximum data x:Over limit !:over margin





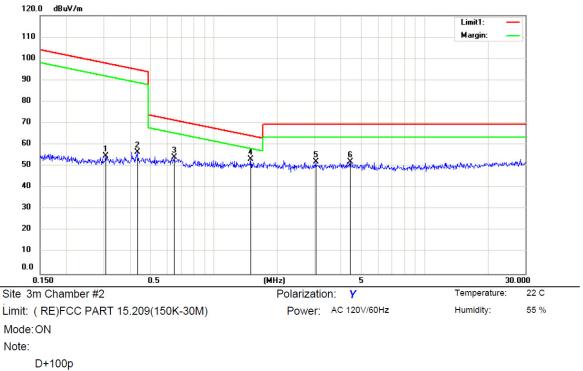
1	0.1694	36.35	20.07	56.42	103.02 -46.60	QP	
2	0.3673	33.21	20.29	53.50	96.30 -42.80	QP	
3	0.5980	33.62	20.38	54.00	72.07 -18.07	QP	
4 *	0.9735	32.57	20.35	52.92	67.85 -14.93	QP	
5	4.6223	32.15	20.05	52.20	69.50 -17.30	QP	
6	16.3985	31.70	20.07	51.77	69.50 -17.73	QP	





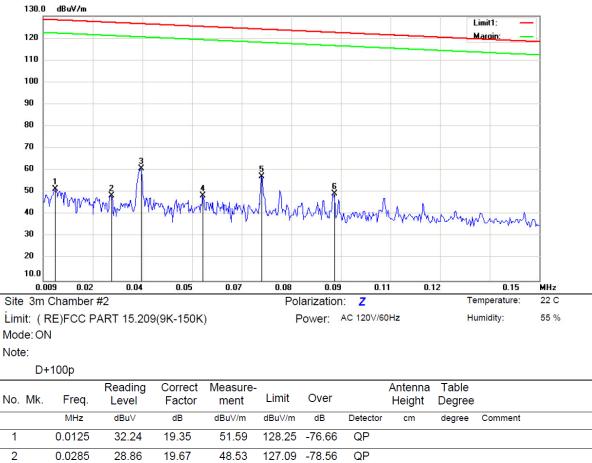
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0126	36.70	19.35	56.05	128.24	-72.19	QP			
2	0.0183	30.24	19.47	49.71	127.83	-78.12	QP			
3 *	0.0366	41.12	19.83	60.95	126.51	-65.56	QP			
4	0.0713	37.42	19.97	57.39	124.01	-66.62	QP			
5	0.0916	31.58	19.90	51.48	122.54	-71.06	QP			
6	0.1061	28.67	19.87	48.54	121.50	-72.96	QP			





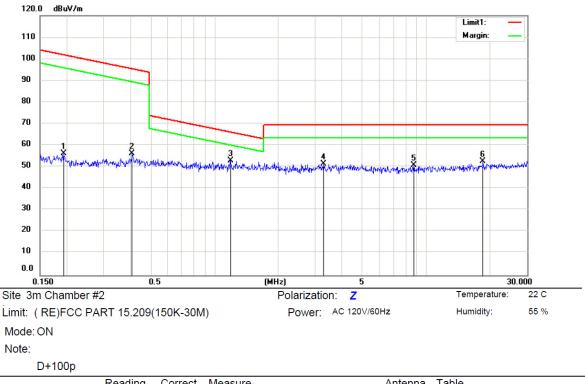
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.3066	34.61	20.24	54.85	97.87	-43.02	QP			
2	0.4328	36.31	20.34	56.65	94.88	-38.23	QP			
3	0.6473	33.84	20.38	54.22	71.39	-17.17	QP			
4 *	1.4953	33.21	20.09	53.30	64.14	-10.84	QP			
5	3.0412	32.05	19.93	51.98	69.50	-17.52	QP			
6	4.4303	31.93	20.03	51.96	69.50	-17.54	QP			





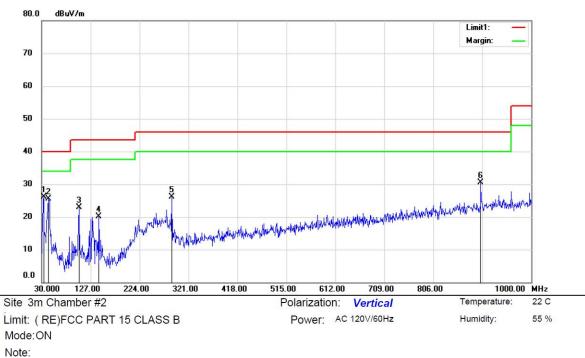
2	0.0285	28.86	19.67	48.53	127.09 -78.56	QP
3 *	0.0370	40.88	19.84	60.72	126.48 -65.76	QP
4	0.0545	28.38	20.07	48.45	125.22 -76.77	QP
5	0.0713	37.24	19.97	57.21	124.01 -66.80	QP
6	0.0918	29.45	19.90	49.35	122.53 -73.18	QP





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1934	36.19	20.14	56.33	101.87	-45.54	QP			
2		0.4083	35.95	20.32	56.27	95.38	-39.11	QP			
3	*	1.1907	32.74	20.24	52.98	66.11	-13.13	QP			
4		3.2756	31.36	19.95	51.31	69.50	-18.19	QP			
5		8.7293	31.24	19.75	50.99	69.50	-18.51	QP			
6		18.5237	32.28	20.26	52.54	69.50	-16.96	QP			



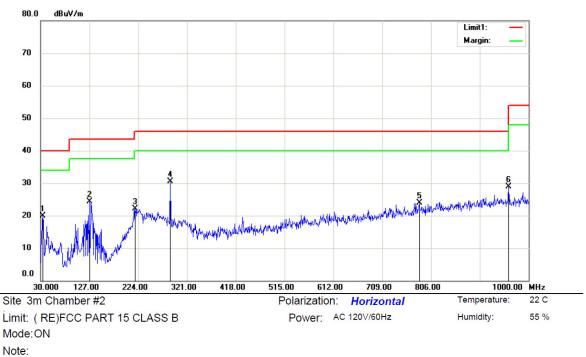


D+100p

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	33.8800	43.23	-17.06	26.17	40.00	-13.83	QP			
2		43.5800	39.72	-14.14	25.58	40.00	-14.42	QP			
3		103.7200	38.06	-15.15	22.91	43.50	-20.59	QP			
4		143.4900	38.87	-18.81	20.06	43.50	-23.44	QP			
5		288.0200	38.27	-12.22	26.05	46.00	-19.95	QP			
6		900.0900	31.08	-0.54	30.54	46.00	-15.46	QP			

*:Maximum data x:Over limit !:over margin





D+100p

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		34.8500	36.70	-16.86	19.84	40.00	-20.16	QP			
2		127.9700	42.55	-18.16	24.39	43.50	-19.11	QP			
3		218.1800	36.67	-14.54	22.13	46.00	-23.87	QP			
4	* 4	288.0200	42.74	-12.22	30.52	46.00	-15.48	QP			
5		782.7200	26.14	-2.26	23.88	46.00	-22.12	QP			
6	9	960.2300	28.69	0.24	28.93	54.00	-25.07	QP			

*:Maximum data x:Over limit !:over margin



5.6 Radiated Measurement Photos

