



Most Technology Service Co., Ltd.
Tel: (86) 755-26825180 Fax: (86) 755-86170310
Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: ODock@RF

FCC ID: VL5-RFDOCK

MODEL NO.:PF405 RFDOCK, WIP043 LCD PreoDock, AD120R RFDOCK

Applicant:

Plastoform Industries Ltd.
Units 6A-12, 15 Floor, Mita Centre, 552-556 Castle Peak Road,
Kwai Chung, Hong Kong

Date Received: 11/09/2009

Date Tested: 11/07-08/2009

APPLICANT: Plastoform Industries Ltd.
FCC ID: VL5-RFDOCK

Cover Sheet



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EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100492	Mar. 10,2009	1 Year
LISN	ROHDE&SCHWARZ	ENV216	100093	Mar. 10,2009	1 Year
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101202	Mar. 10,2009	1 Year
Spectrum Analyzer	ANRITSU	MS2651B	6200238316	Mar. 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar. 10,2009	1 Year
Bilog Antenna	Sunol	JB3	A121206	Mar. 10,2009	1 Year
Horn Antenna	EMCO	3115	640201028-06	Mar. 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar. 10,2009	1 Year
Cable	Resenberger	N/A	NO.1	Mar. 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar. 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar. 10,2009	1 Year
Single Phase Power Line Filter	Kikusui	LIN40MA-PC R-L	LM002352	Mar. 10,2009	1 Year
AC Power Source	Kikusui	AC40MA	LM003232	Mar. 10,2009	1 Year
Test analyzer	Kikusui	KHA1000	LM003720	Mar. 10,2009	1 Year
ESD Tester	Kikusui	KES4021	LM003537	Mar. 10,2009	1 Year
Signal Generator	IFR	2032	203002/100	Mar. 10,2009	1 Year
Amplifier	A&R	150W1000	301584	NCR	NCR
Dual Directional Coupler	A&R	DC6080	301508	Mar. 10,2009	1 Year
Power Head	A&R	PH2000	301193	Mar. 10,2009	1 Year
Power Meter	A&R	PM2002	302799	Mar. 10,2009	1 Year
Field Monitor	A&R	FM5004	300329	Mar. 10,2009	1 Year
Field Probe	A&R	FP5000	300221	Mar. 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar. 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar. 10,2009	1 Year

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 uH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB = 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.207

REQUIREMENTS:

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE: ANSI STANDARD C63.4-2003

APPLICANT: Plastoform Industries Ltd.
FCC ID: VL5-RFDOCK

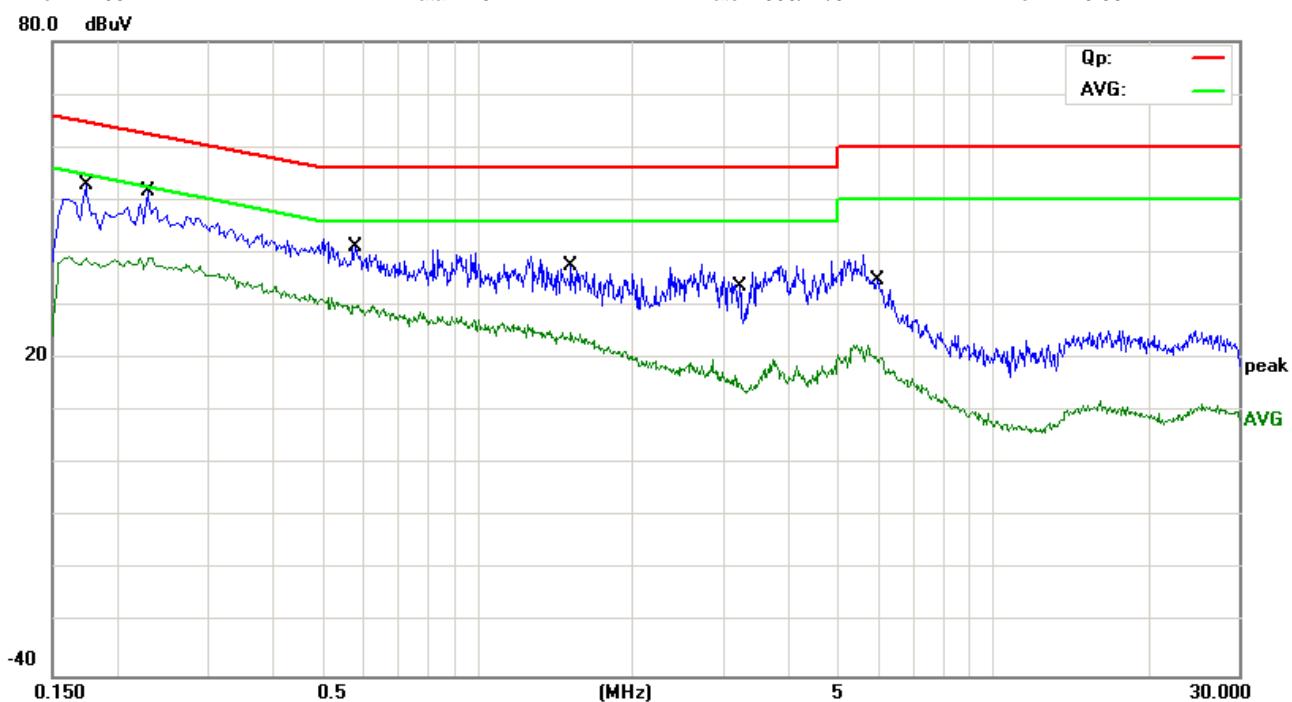
Conducted Emission Measurement

File :PF405

Data :#25

Date: 2009/11/07

Time: 17:20:55



Site site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 C Class B QP

Power: DC 5V Adaptor AC 120V/60Hz

Humidity: 60 %

EUT: ODock@RF

M/N: PF405 RFDOCK

Mode: Operating

Note: M/N of Adaptor:KSAA0500120W1UV-1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1740	42.28	10.44	52.72	64.77	-12.05	QP
2	*	0.2300	39.86	11.80	51.66	62.45	-10.79	QP
3		0.5820	31.13	10.00	41.13	56.00	-14.87	QP
4		1.5220	28.13	9.48	37.61	56.00	-18.39	QP
5		3.2300	23.43	10.23	33.66	56.00	-22.34	QP
6		5.9700	23.53	11.42	34.95	60.00	-25.05	QP

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

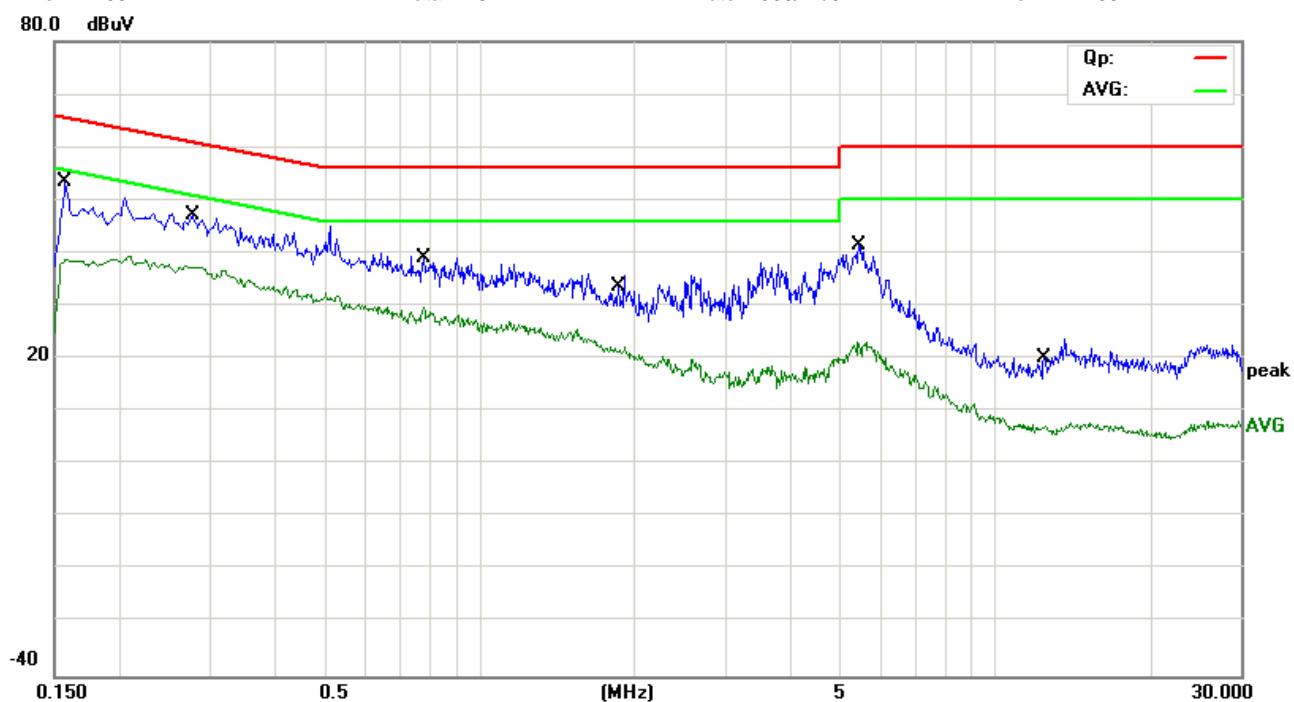
Conducted Emission Measurement

File :PF405

Data :#26

Date: 2009/11/07

Time: 17:22:35



Site site #1

Phase: N

Temperature: 26

Limit: FCC Part15 C Class B QP

Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %

EUT: ODock@RF

M/N: PF405 RFDOCK

Mode: Operating

Note: M/N of Adaptor:KSAA0500120W1UV-1

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1582	42.60	9.49	52.09	65.56	-13.47	QP	
2		0.2787	35.14	11.48	46.62	60.85	-14.23	QP	
3		0.7820	29.18	10.00	39.18	56.00	-16.82	QP	
4		1.8660	24.46	9.13	33.59	56.00	-22.41	QP	
5		5.4500	29.59	11.73	41.32	60.00	-18.68	QP	
6		12.4940	11.28	9.00	20.28	60.00	-39.72	QP	

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

Conducted Emission Measurement

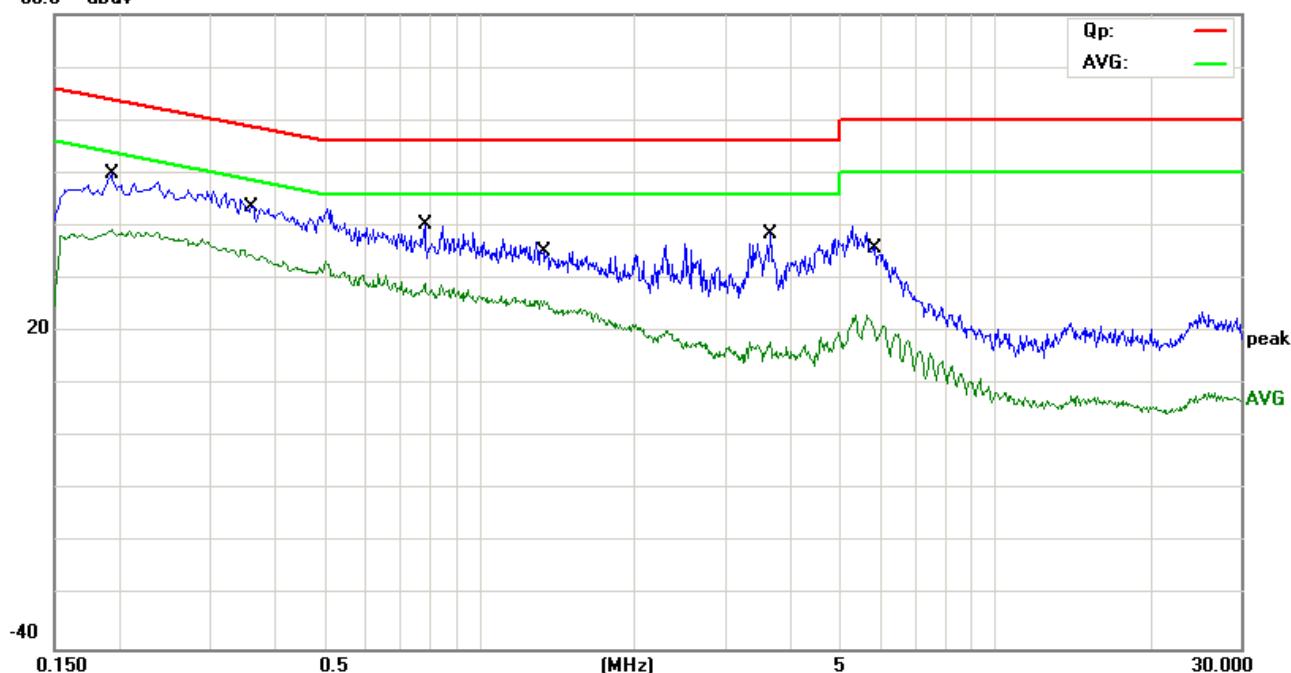
File :PF405

Data :#27

Date: 2009/11/07

Time: 17:24:55

80.0 dBuV



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 C Class B QP

Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %

EUT: ODock@RF

M/N: PF405 RFDOCK

Mode: Operating

Note: M/N of Adaptor: SSA-5W-05 EU 050100F

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1940	38.15	11.64	49.79	63.86	-14.07	QP	
2		0.3620	32.62	10.92	43.54	58.68	-15.14	QP	
3		0.7860	30.14	10.00	40.14	56.00	-15.86	QP	
4		1.3340	25.35	9.67	35.02	56.00	-20.98	QP	
5		3.6620	27.77	10.66	38.43	56.00	-17.57	QP	
6		5.8540	24.41	11.49	35.90	60.00	-24.10	QP	

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

Conducted Emission Measurement

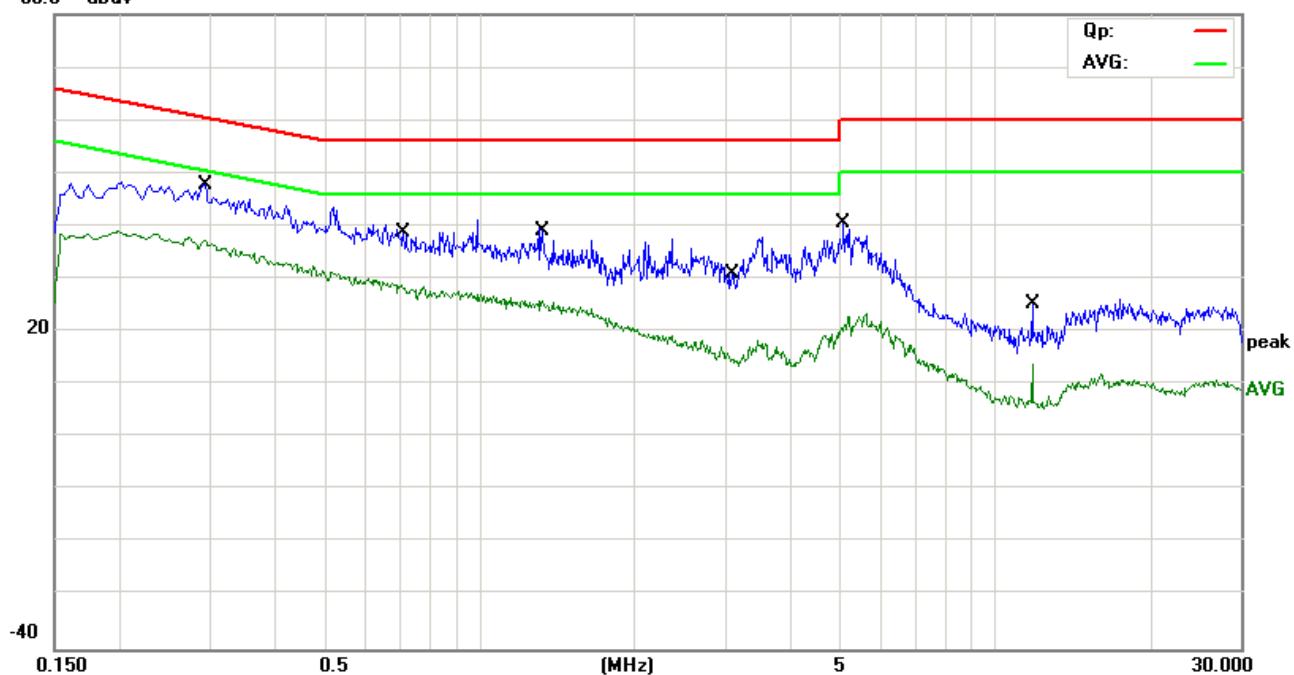
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Data :#28

Date: 2009/11/07

Time: 17:27:14

80.0 dBuV



Site site #1

Phase: *L1*

Temperature: 26

Limit: FCC Part15 C Class B QP

Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %

EUT: ODock@RF

M/N: PF405 RFDOCK

Mode: Operating

Note: M/N of Adaptor: SSA-5W-05 EU 050100F

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1	*	0.2940	36.49	11.37	47.86	60.41	-12.55	QP
2		0.7140	28.61	10.00	38.61	56.00	-17.39	QP
3		1.3300	29.32	9.67	38.99	56.00	-17.01	QP
4		3.1060	20.72	10.11	30.83	56.00	-25.17	QP
5		5.0900	28.56	11.95	40.51	60.00	-19.49	QP
6		11.8220	16.35	9.00	25.35	60.00	-34.65	QP

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



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APPLICANT: Plastoform Industries Ltd.

FCC ID: VL5-RFDOCK

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209
902-928 MHz 2.4-2.4835 GHz		30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 216-960 MHz 46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
Low frequency (2433.00MHz)					
134.50	Vertical	---	34.21	36.79	43.5
2433.20	Vertical	---	---	85.20	94.0
4866.14	Vertical	---	---	34.19	54.0
7299.20	Vertical	---	---	32.64	54.0
9732.09	Vertical	---	---	34.09	54.0
204.54	Horizontal	---	33.24	35.98	43.5
2433.76	Horizontal	---	---	84.30	94.0
4866.25	Horizontal	---	---	33.60	54.0
7299.06	Horizontal	---	---	32.55	54.0
9732.89	Horizontal	---	---	32.08	54.0
Middle frequency (2454.90MHz)					
136.79	Vertical	---	33.49	36.67	43.5
2454.92	Vertical	---	---	85.23	94.0
4909.88	Vertical	---	---	31.14	54.0
7364.72	Vertical	---	---	30.20	54.0
9819.63	Vertical	---	---	33.31	54.0
211.49	Horizontal	---	33.06	36.07	43.5
2454.94	Horizontal	---	---	84.34	94.0
4909.86	Horizontal	---	---	33.30	54.0
7364.72	Horizontal	---	---	32.23	54.0
9819.65	Horizontal	---	---	32.36	54.0

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209
902-928 MHz 2.4-2.4835 GHz		30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 216-960 MHz 46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Continued:

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
High frequency (2470.20MHz)					
134.31	Vertical	---	34.01	36.32	43.5
2470.25	Vertical	---	---	85.89	94.0
4940.43	Vertical	---	---	33.20	54.0
7410.60	Vertical	---	---	33.09	54.0
9880.81	Vertical	---	---	31.12	54.0
209.9	Horizontal	---	33.12	36.57	43.5
2470.22	Horizontal	---	---	83.75	94.0
4940.44	Horizontal	---	---	33.24	54.0
7410.62	Horizontal	---	---	32.65	54.0
9880.83	Horizontal	---	---	31.80	54.0

Emissions attenuated more than 20 dB below the permissible value are not reported.

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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FCC ID: VL5-RFDOCK

NAME OF TEST: Occupied Bandwidth and Band Edge Compliance

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.209.

Band edge emissions plots are included on the following pages

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the Spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dB per division.

TEST RESULTS: The unit does meet the FCC requirements.

Band Edge Compliance Test						
Band Edge Frequency	Antenna Polarization	AV dBuV/m	QP dBuV/m	Peak dBuV/m	Limit (Peak) dBuV/m	Limit (AV) dBuV/m
2390.0 MHz	H	43.08	---	59.36	74.00	54.00
2390.0 MHz	V	42.28	---	55.48	74.00	54.00
2483.5 MHz	H	43.13	---	59.27	74.00	54.00
2483.5 MHz	V	42.30	---	55.32	74.00	54.00

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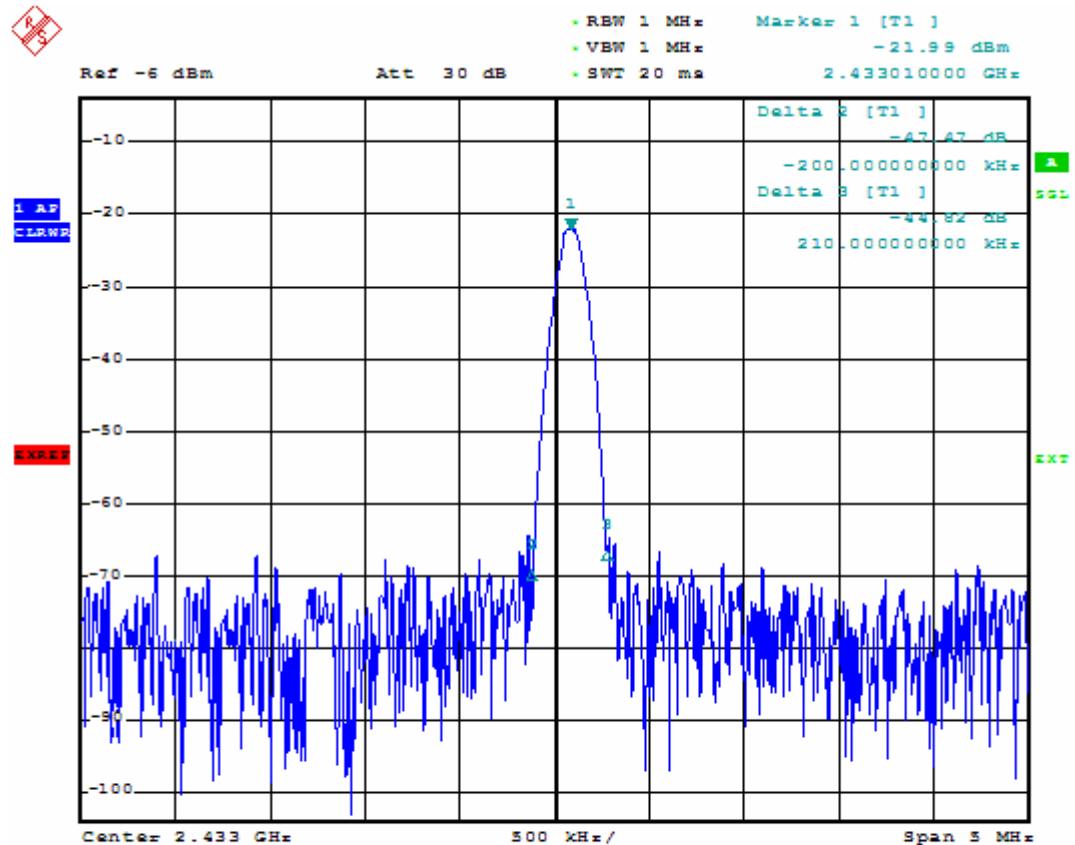


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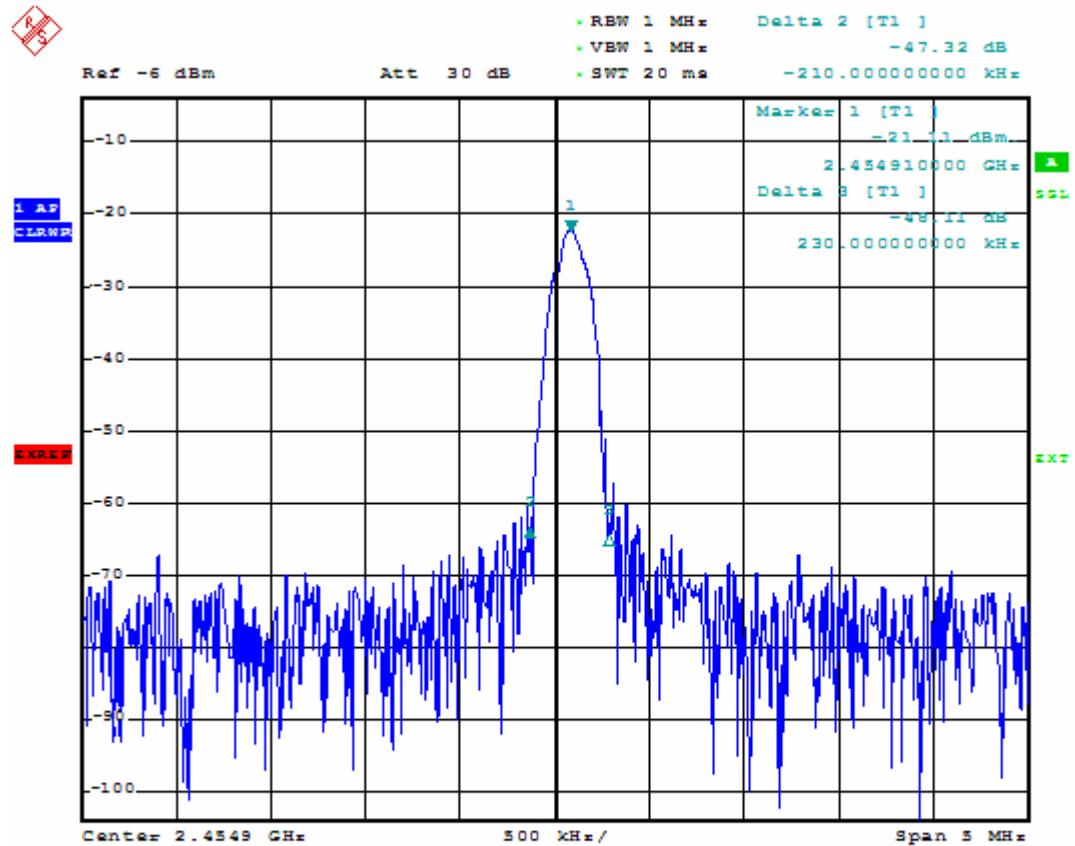
Low



APPLICANT: Plastoform Industries Ltd.

AMERICAN FIASCO
FCC ID: VL5-RFDOCK

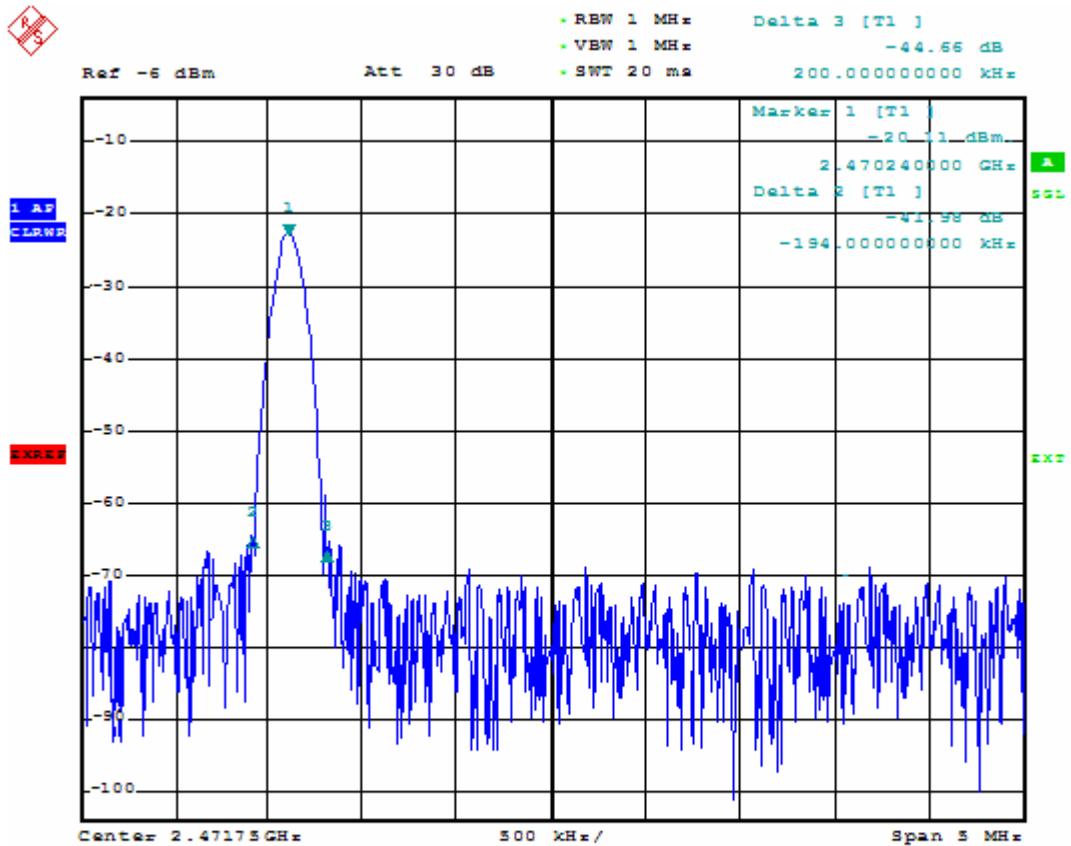
Middle





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High



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