



ELECTRONICS TEST AND DEVELOPMENT CENTRE

(STQC Directorate, Ministry of Communications & Information Technology)
100 ft Road, Peenya Industrial Estate, Bengaluru-560 058
(Phone: (080) 2839 4252/4647/4766/5992; Telefax: +91-080- 23722314)
E-mail: etdcbg@stqc.gov.in



T-0044

Report No.: TR/EMC/64135-1

TEST REPORT

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1. Scope

1.	Service request number:	64135	Date:24/04/2017	Job No.: 01
2.	Test requested by (Name & Address of the Organization)	M/s. CEM Solutions Pvt. Ltd. #143/A1, Bommasandra Industrial Area, Hebagodi Village, Bangalore-560099.		
3.	Description/Unambiguous identification of the item:			
	a) Nomenclature	STM/BLOX eSBC		
	b) Manufactured by	ALLO.COM		
	c) Model / type no.	ALLO-STM/eSBC		
	d) No. of items submitted	01	Sampling :Not applicable	
	e) Serial no.	SP23001910816		
4.	Date of submission of test samples	24/04/2017		
5.	Condition of test samples on receipt	Good		
6.	Test carried out at	In-house/ On-site		
7.	Date of start of tests	24/04/2017		
8.	Date of completion of tests	26/04/2017		
9.	Date of issue of test report	28/04/2017		
10.	Applicable standard/test specification	CISPR 22:2008 Class B , IEC 61000-4-Series, IEC 61000-3-2:2009 & IEC 61000-3-3:2008.		
11.	Test category	Performance Test		
12.	Laboratory Environment condition	Temp: 15 to 35°C RH: 45 to 70% except for ESD test For ESD test RH: <60%.Atm pressure: 860-1060mbar		

2. Major equipment used

SN	Nomenclature	Make	Model	Cal. Due
1.	EMI test receiver	R&S	ESC17	19/10/2017
2.	Bi-Log Antenna	Electro metrics	EM-6917B-1	04/06/2017
3.	Horn Antenna	R&S	HF 906	20/10/2017
4.	V-Network	R&S	ESH3Z5	02/05/2017
5.	ESD generator	EM Test	ESD30N	20/03/2018
6.	Signal Generator	R&S	SML03	10/01/2018
7.	EFT Generator	EM Test	UCS500-M4	23/03/2018
8.	Continuous Wave Simulator	EM Test	CWS500C	02/09/2017
9.	Field strength meter	Holaday	HI3604	20/10/2017
10.	AC power source	Pacific	140 TMX	21/03/2018

* This report refers only to the item tested and shall not be reproduced except in full without the written approval from Director, ETDC, Bengaluru. Refer to information contained on the cover.

Date of Release: 15.06.16

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Test Parameter : 1) Conducted disturbance at the mains ports
2) Radiated disturbance measurement @ 3 meter measuring distance
Test Specification : CISPR22:2008 Class B
Detector Used : Quasi Peak (QP) / Average (Avg)
Detector Bandwidth

Frequency (MHz)	Detector Bandwidth (kHz)
0.15 - 30	9
30 - 1000	120

Limits:

<i>Class B</i>				
Conducted disturbance at the mains ports			Radiated disturbance measurement @3 meter measuring distance	
Freq. Range (MHz)	QP (dB μ V)	AVG (dB μ V)	Freq. Range (MHz)	QP (dB μ V/m)
0.15 - 0.5	66 - 56	56 - 46	30 - 230 230 - 1000	40 47
0.5 - 5	56	46		
5 - 30	60	50		

EUT Configuration: The EUT is a STM/BLOX eSBC, powered by 5V DC through 230V AC to 5V DC adaptor (Make: XING YUAN, Model No: XY24S-0503000Q-U, Serial No: 1620).

Remark: The Image of EUT and test setup for Radiated disturbance measurement @3 meter measuring distance are shown in Annexure 'A' and 'B' respectively. The graphs for Conducted disturbance at the mains ports and Radiated disturbance measurement @3 meter measuring distance tests are shown in Annexure 'C' and 'D' respectively.

Summary of test results:

Conducted disturbance at the mains ports:
Meets the Class B Limits of CISPR 22:2008
Few Significant emission are reported in page no. 04
Radiated disturbance measurement @ 3 meter measuring distance:
Meets the Class B Limits of CISPR 22:2008
Few Significant emission are reported in page no. 05

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Performance Criteria

Performance criterion A: The apparatus shall continue to operate as intended **during and after the test**. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

Performance criterion B: The apparatus shall continue to operate as intended **after the test**. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed.

Performance criterion C: Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

Performance level specified by the manufacturer:

- 1) Power LED (Green) should glow continuously.
- 2) Boot LED (Blue) should glow continuously.

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Results: (1) Conducted disturbance at the mains ports.

Frequency (MHz)	Qp Reading (dB μ V)	Qp Limit (dB μ V)	Avg Reading (dB μ V)	Avg Limit (dB μ V)
On Line				
0.154	43.21	66.00	31.79	59.00
0.194	37.52	64.86	26.02	57.52
0.226	36.65	63.71	26.04	56.04
0.246	35.25	63.14	24.98	55.30
0.422	36.49	58.29	29.70	49.01
1.226	29.74	56.00	20.68	46.00
On Neutral				
0.154	44.45	66.00	33.03	59.00
0.178	41.33	65.14	29.87	57.89
0.190	39.13	64.86	28.08	57.52
0.202	37.34	64.57	26.50	57.15
0.214	36.45	64.29	27.04	56.78
1.242	30.76	56.00	21.26	46.00

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Results: (2) Radiated disturbance measurement @ 3 meter measuring distance

Frequency (MHz)	Quasi-peak emission level* (dB μ V/m)	Angle (deg)	Polarisation (H/V)**	Quasi-peak Limit (dB μ V/m)
30.20	27.32	180	H	40
250.00	23.91	180	H	47
422.64	24.50	0	H	47
500.00	31.79	270	V	47
676.16	30.30	180	H	47
754.84	31.84	0	H	47

*-The antenna height adjusted between 1 m and 4 m above the ground plane for maximum emission level at each test frequency.

** (H/V): H-Horizontal polarization, V-Vertical polarization

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Results:

Test parameter : Electrostatic discharge immunity
Test specification : IEC 61000-4-2:2008
EUT Configuration : Refer Page No.02

Wave shape / severity	Performance criteria	Test results
<p>Storage Capacitance:150pf Discharge Resistance:330Ω</p> <p><u>Discharge Mode:</u></p> <p><u>Contact Discharge :</u> : Direct Application : Indirect Application (i) HCP (ii) VCP</p> <p>Test Level : 1 to 2 Test Voltage : 2 kV to 4 kV Polarity: + Ve & -Ve</p> <p><u>Air Discharge :</u></p> <p>Test Level : 1 to 3 Test Voltage : 2 kV to 8 kV Polarity: + Ve & -Ve</p> <p>No of discharges: 10 single discharges of each polarity at selected points.</p>	<p>Performance criterion "B"</p> <p>-After the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.</p>	<p>Meets the performance criteria "B".</p> <p>- After the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.</p>

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Results:

Test Parameter : Radio-frequency, electromagnetic field immunity
Test Specification : IEC 61000-4-3:2010
EUT Configuration : Refer Page No.02

Wave shape / severity	Performance criteria	Test results
R.F Freq: 80 MHz-3 GHz Sweep rate:1% Dwell time :3Sec Mod Freq: 1kHz Amplitude modulation : 80% in depth Angle: 0°/90°/180° / 270° Polarization: 1) Horizontal 2) Vertical Test Level : 2 Field Strength : 3 V/m	Performance criterion "A" -During and after the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.	Meets the performance criteria "A". -During and after the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.

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Results:

Test Parameter : Electrical fast transient / burst immunity
Test Specification : IEC 61000-4-4:2012
EUT Configuration : Refer page 02.

Wave shape / severity	Performance criteria	Test Results
<p>Pulse Rise time: 5nS Pulse Duration: 50nS Burst Duration: 15mS Burst period: 300mS Repetition rate of impulse:5kHz</p> <p><u>Coupling on AC Power supply port</u> <u>Coupling Type: Common mode</u></p> <p>Test Level: 2 Test Voltage: 1 kV Peak Polarity: +ve & -ve Test duration: 1 minute in each polarity.</p>	<p>Performance criterion "B"</p> <p>-After the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.</p>	<p>Meets the performance criteria "B".</p> <p>-After the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.</p>

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Results:

Test Parameter : Immunity to conducted disturbances, induced by RF fields
Test Specification : IEC 61000-4-6:2013
EUT Configuration : Refer Page No.02

Wave shape / severity	Performance criteria	Test results
R.F Freq: 150kHz-80MHz Sweep rate: 1% Dwell time: 3Sec Mod Freq: 1kHz Amplitude Modulation:80% in depth <u>Coupling on AC Power Supply</u> <u>Coupling type: CDN</u> Test Level: 2 Test Voltage : 3 Vrms	Performance criterion "A" -During and after the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.	Meets the performance criteria "A". -During and after the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.

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Results:

Test Parameter : Power frequency magnetic field immunity.

Test Specification : IEC 61000-4-8:2009

EUT Configuration : Refer Page No.02

Wave shape / severity	Performance criteria	Test Results
<p><u>Coupling on Enclosure port</u></p> <p><i>Continuous field:</i></p> <p>Test Level : 1 Magnetic Field Strength: 1 A/m</p> <p>Axis: X, Y & Z</p> <p>Duration: 1 min each axis</p>	<p>Performance criterion "A"</p> <p>-During and after the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.</p>	<p>Meets the performance criteria "A".</p> <p>-During and after the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.</p>

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Results:

Test Parameter : Voltage dips and short interruptions.
Test Specification : IEC 61000-4-11:2004
EUT Configuration : Refer Page No.02

Wave shape / severity	Performance criteria	Test Results														
<p>Test Conditions : Standard Test Frequency : 50.00 Hz Test Voltage : 230.00 V Waveform : Sine No. of Dips : 3 Interval between Dips: 10 sec Mode : Synchronous Angle : 0 deg</p> <p>Test Level : Class 3 Voltage Dips :</p> <table border="1"><thead><tr><th>Voltage Dips %</th><th>Cycle</th></tr></thead><tbody><tr><td>0</td><td>1</td></tr><tr><td>40</td><td>10</td></tr><tr><td>70</td><td>25</td></tr><tr><td>80</td><td>250</td></tr></tbody></table> <p>Voltage interruption:</p> <table border="1"><thead><tr><th>Test Level %</th><th>Cycle</th></tr></thead><tbody><tr><td>0</td><td>250</td></tr></tbody></table>	Voltage Dips %	Cycle	0	1	40	10	70	25	80	250	Test Level %	Cycle	0	250	<p>Performance criterion "B"</p> <p>-After the test, 1) Power LED (Green) should glow continuously. 2) Boot LED (Blue) should glow continuously.</p>	<p>Meets the performance criteria "B".</p> <p>-After the test, 1) Power LED (Green) was glowing continuously. 2) Boot LED (Blue) was glowing continuously.</p>
Voltage Dips %	Cycle															
0	1															
40	10															
70	25															
80	250															
Test Level %	Cycle															
0	250															

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Results:

Test Parameter : Harmonic Current Emission

Test Specification : IEC 61000-3-2:2009

EUT Configuration : Refer Page No.02

Classification	: CLASS A	Test Volts	: 230.00 V
Test type	: Steady State	Test Frequency:	50Hz
Test time	: 2.5 min	Waveform	: Sine

Harmonic No.	Amps	Limit	Results	Harmonic No.	Amps	Limit	Results
1	0.027	--	PASS	21	0.011	0.107	PASS
2	0.000	1.080	PASS	22	0.000	0.084	PASS
3	0.016	2.300	PASS	23	0.010	0.098	PASS
4	0.000	0.430	PASS	24	0.000	0.077	PASS
5	0.016	1.140	PASS	25	0.010	0.090	PASS
6	0.000	0.300	PASS	26	0.000	0.071	PASS
7	0.016	0.770	PASS	27	0.009	0.083	PASS
8	0.000	0.230	PASS	28	0.000	0.066	PASS
9	0.015	0.400	PASS	29	0.008	0.078	PASS
10	0.000	0.184	PASS	30	0.000	0.061	PASS
11	0.015	0.330	PASS	31	0.007	0.073	PASS
12	0.000	0.153	PASS	32	0.000	0.058	PASS
13	0.014	0.210	PASS	33	0.006	0.068	PASS
14	0.000	0.131	PASS	34	0.000	0.054	PASS
15	0.014	0.150	PASS	35	0.005	0.064	PASS
16	0.000	0.115	PASS	36	0.000	0.051	PASS
17	0.013	0.132	PASS	37	0.005	0.061	PASS
18	0.000	0.102	PASS	38	0.000	0.048	PASS
19	0.012	0.118	PASS	39	0.004	0.058	PASS
20	0.000	0.092	PASS	40	0.000	0.046	PASS

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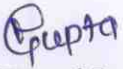
Report No.: TR/EMC/64135-1


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Results:

Test parameter : Voltage fluctuation and flicker
Test Specification : IEC 61000-3-3:2008
Test Voltage : 230.00 V
Test Frequency : 50.00 Hz
Waveform : Sine
Test time : 120 min
T-short : 10 min
EUT Configuration : Refer page 02

Voltage fluctuation and flicker	EUT DATA	LIMIT	RESULT
Pst max	0.008	1.00	PASS
Plt max	0.008	0.65	PASS
dc%	0.000	3.00	PASS
d max%	0.000	4.00	PASS
d(t) sec	0.000	0.50	PASS


Tested By
(Neeraj Gupta)
(SA 'A')

Approved By 
DR. N.C. JOSHI
Scientist 'E'
Electronics Test & Development Centre
Ministry of Comm. & IT., STQC Directorate.
Govt. of India, Bangalore

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Annexure "A"

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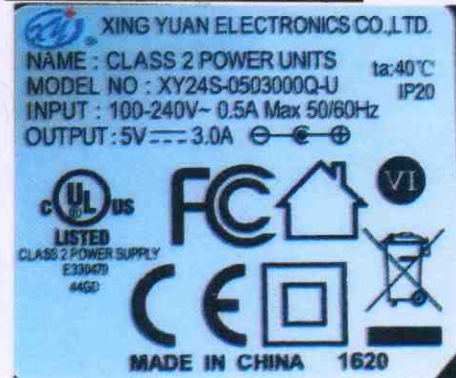
Image of EUT



Marking plate of EUT



Marking plate of Charger



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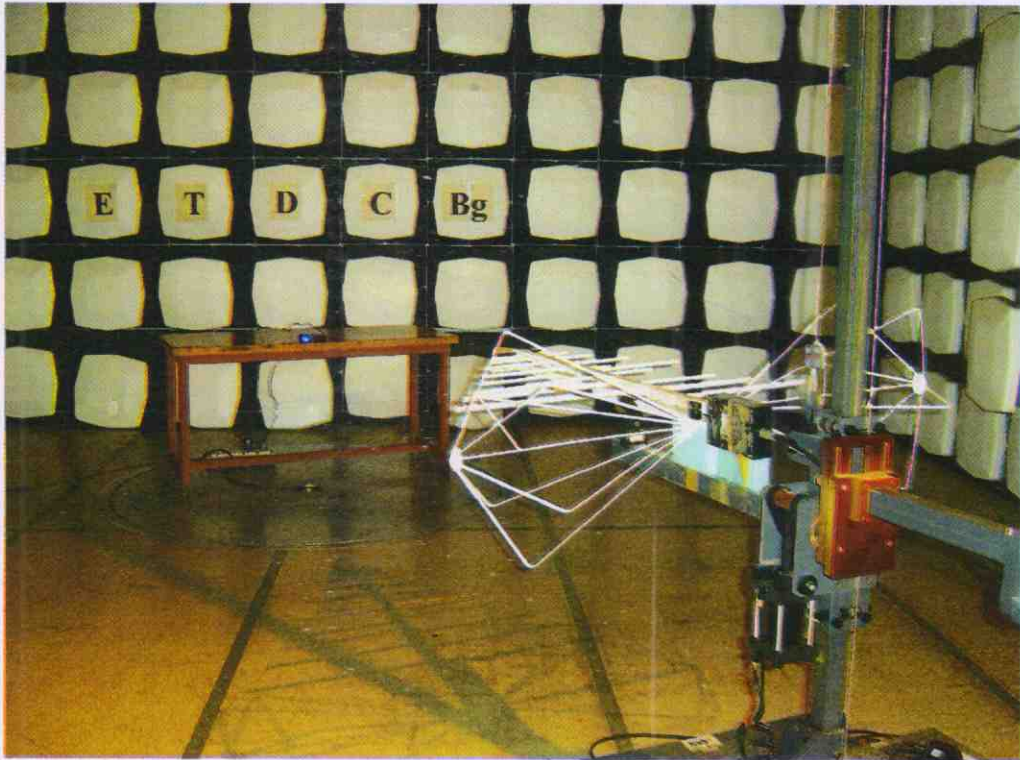
E-mail: etdcbg@stqc.gov.in

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Annexure "B"

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EUT Test Setup for Radiated disturbance measurement @3 meter measuring distance



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ELECTRONICS & IT, STQC BANGALURU

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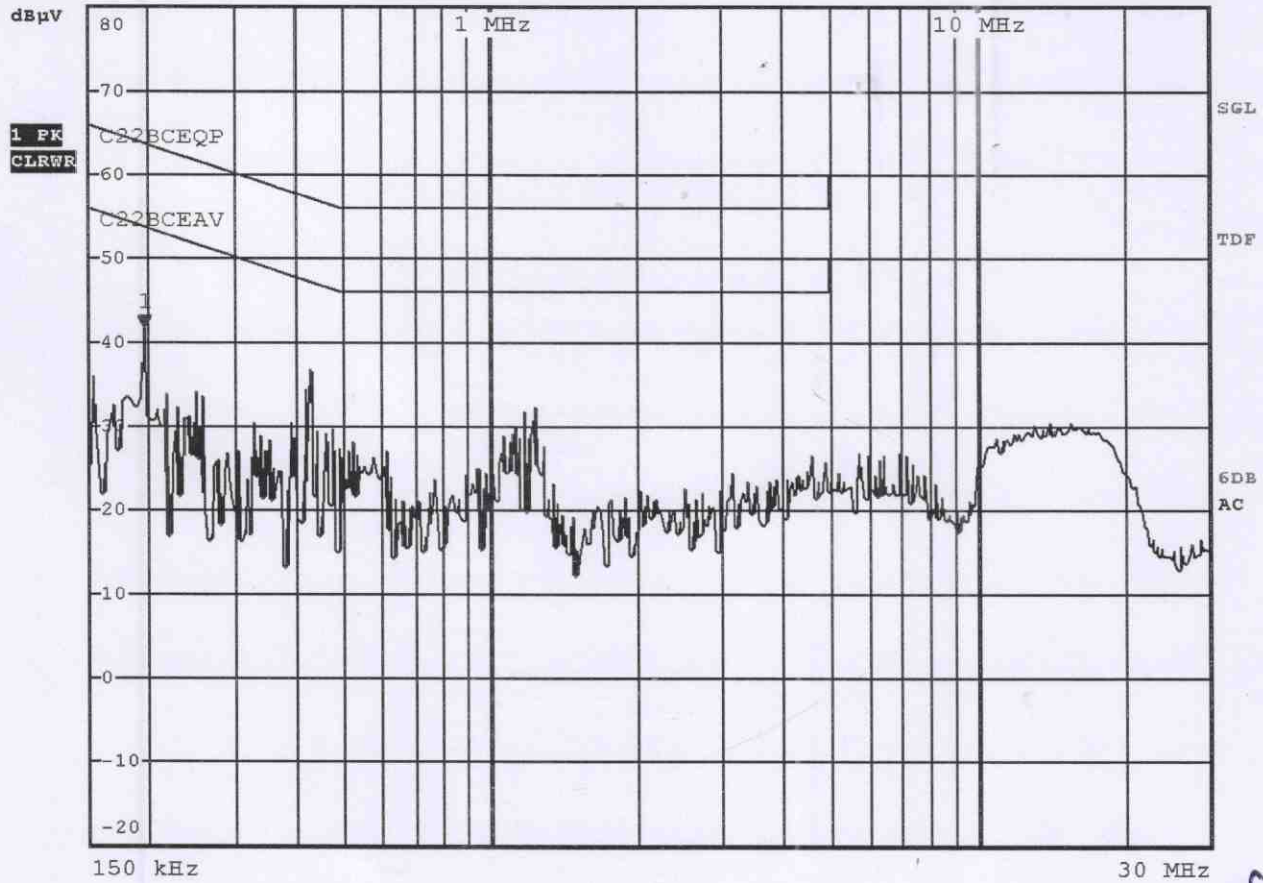
(Signature)

Graphs of Conducted disturbance at the mains ports (Peak measurement)



RBW 9 kHz Marker 1 [T1]
MT 1 s 41.79 dBµV

Att 10 dB AUTO PREAMP ON 194.000000000 kHz



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SRF:64135, CE Test on STM/BLOX eSBC, Make: ALLO.COM, Model:

ALLO- STM/eSBC, S/N: SP23001910816, on Line

Date: 25.APR.2017 10:36:20

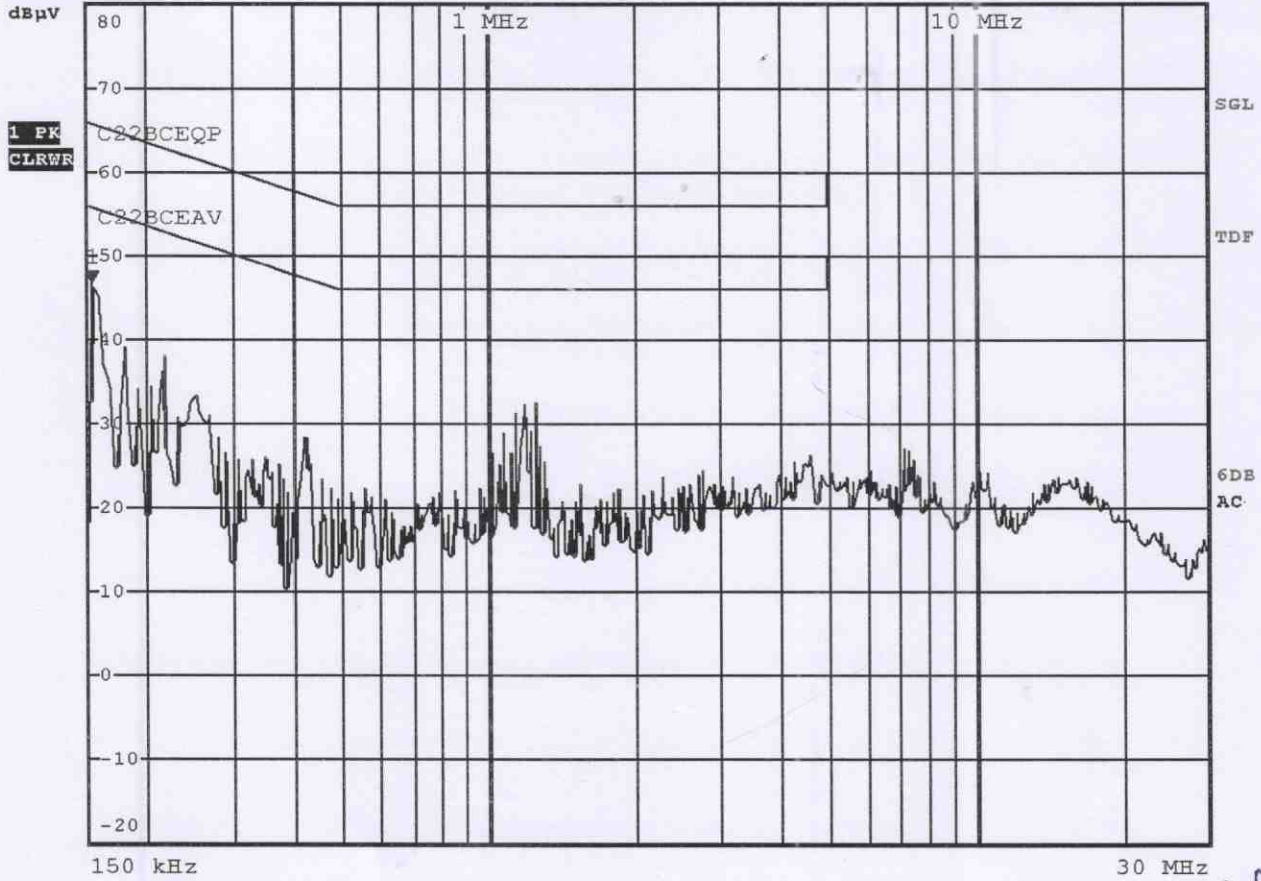


Graphs of Conducted disturbance at the mains ports (Peak measurement)



RBW 9 kHz Marker 1 [T1]
MT 1 s 46.82 dBµV

Att 10 dB AUTO PREAMP ON 154.000000000 kHz



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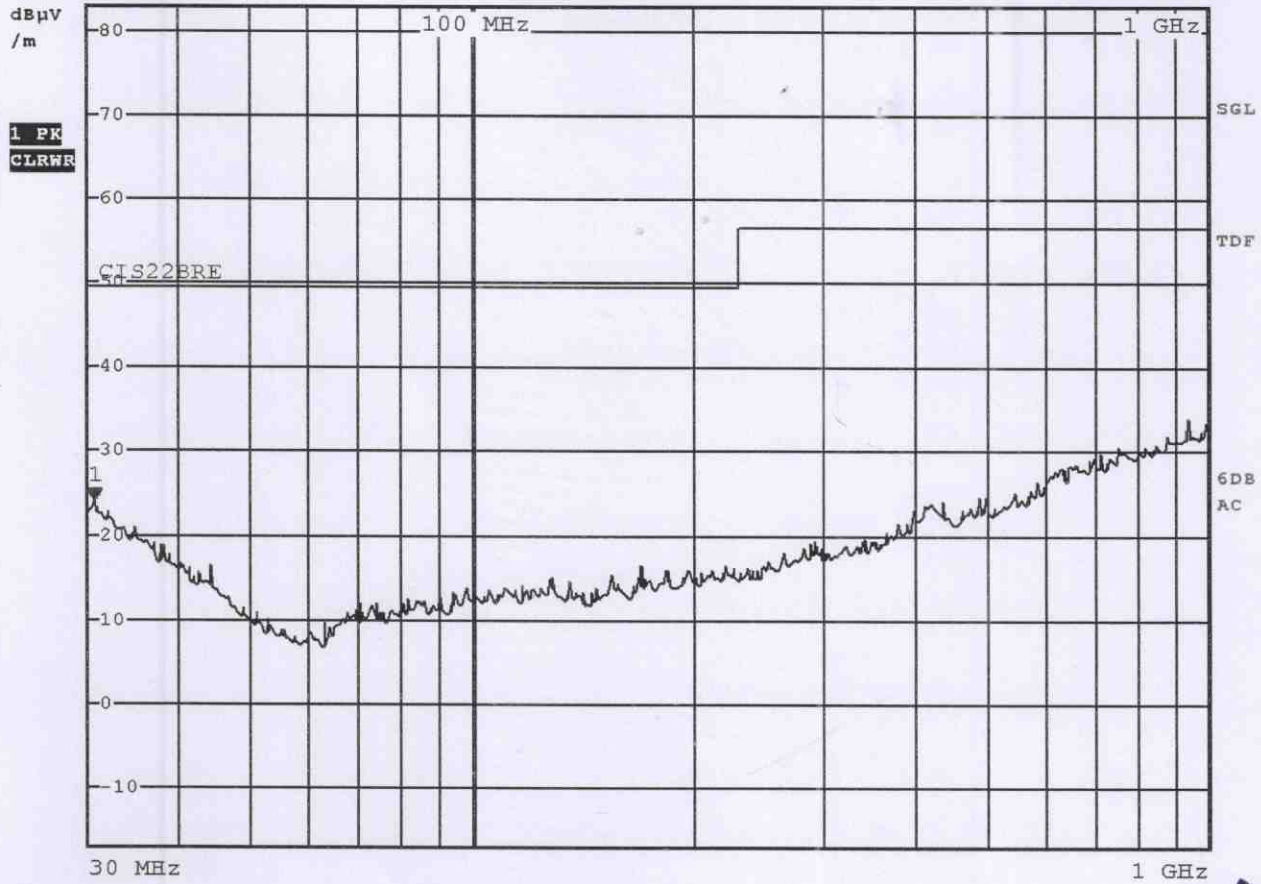
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Date: 25.APR.2017 10:40:46



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 24.00 dBµV/m
Att 0 dB AUTO PREAMP ON 30.560000000 MHz



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SRF: 64135, RE Test on STM/BLOX eSBC, Make: ALLO.COM, Model:

ALLO-STM/eSBC, S/N: SP23001910816, EUT: 0 Deg, Antenna: HP

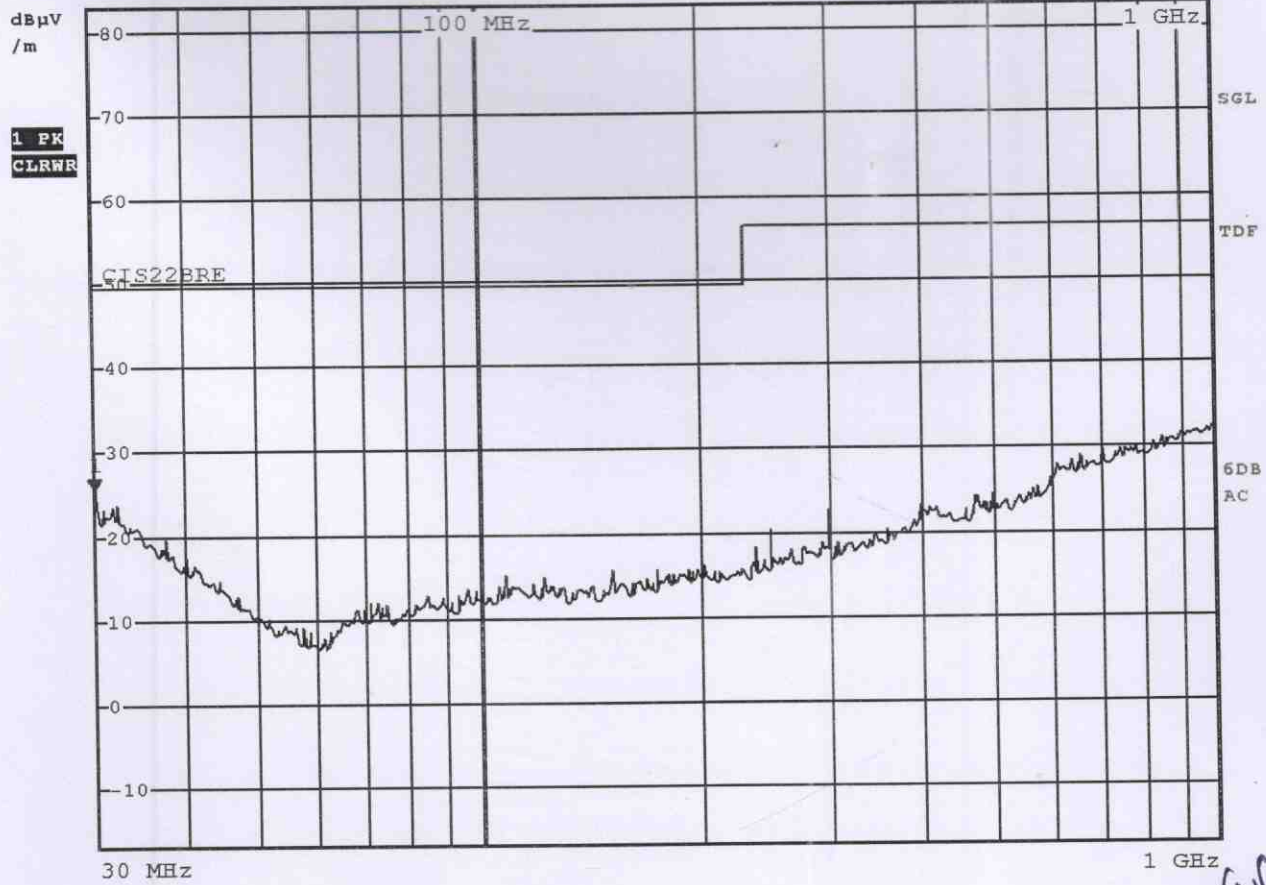
Date: 26.FEB.2017 15:29:11



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 25.73 dBμV/m
Att 0 dB AUTO PREAMP ON 30.000000000 MHz



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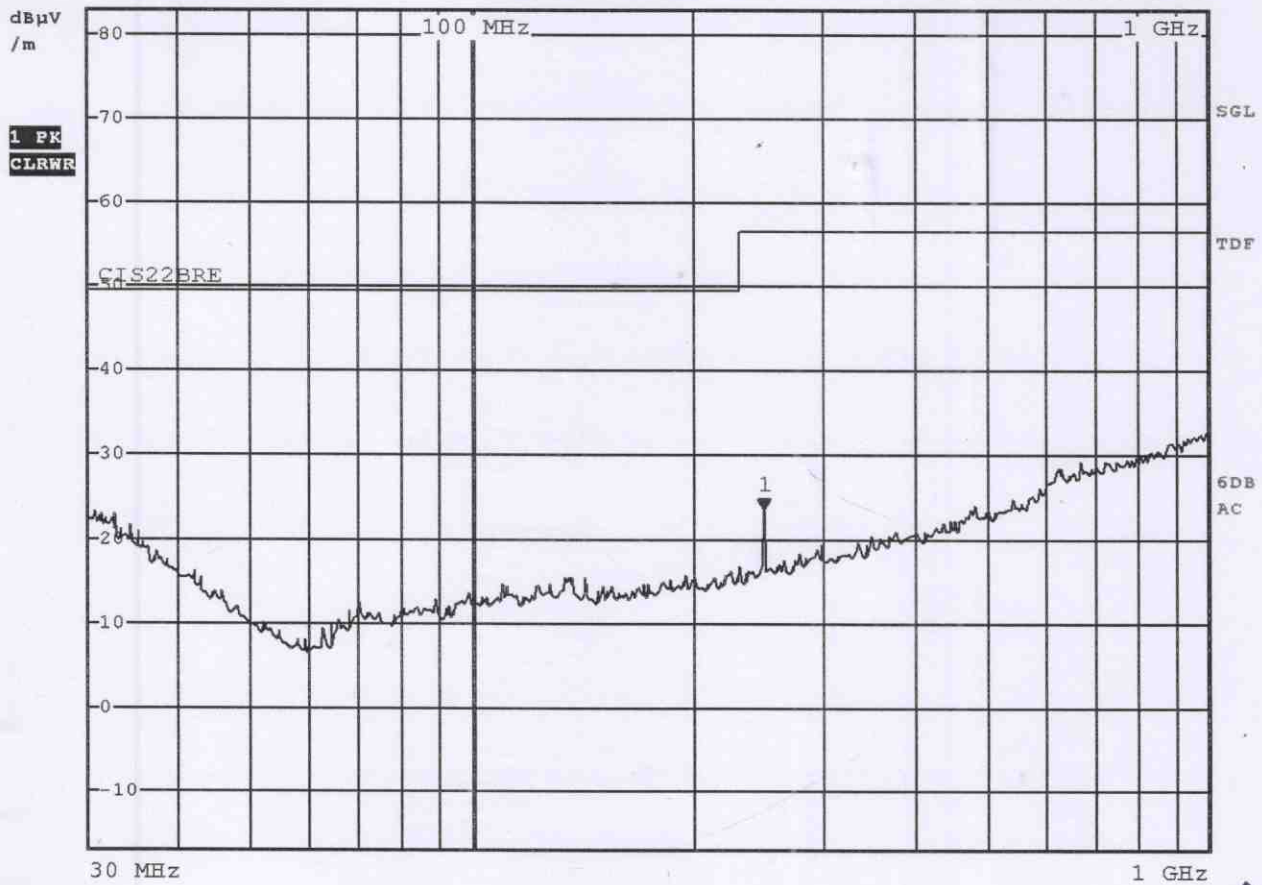
SRF: 64135, RE Test on STM/BLOX eSBC, Make: ALLO.COM, Model:
ALLO-STM/eSBC, S/N: SP23001910816, EUT: 90 Deg, Antenna: HP
Date: 26.FEB.2017 15:33:34



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 ms 23.60 dBμV/m
Att 0 dB AUTO PREAMP ON 250.00000000 MHz



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ADW

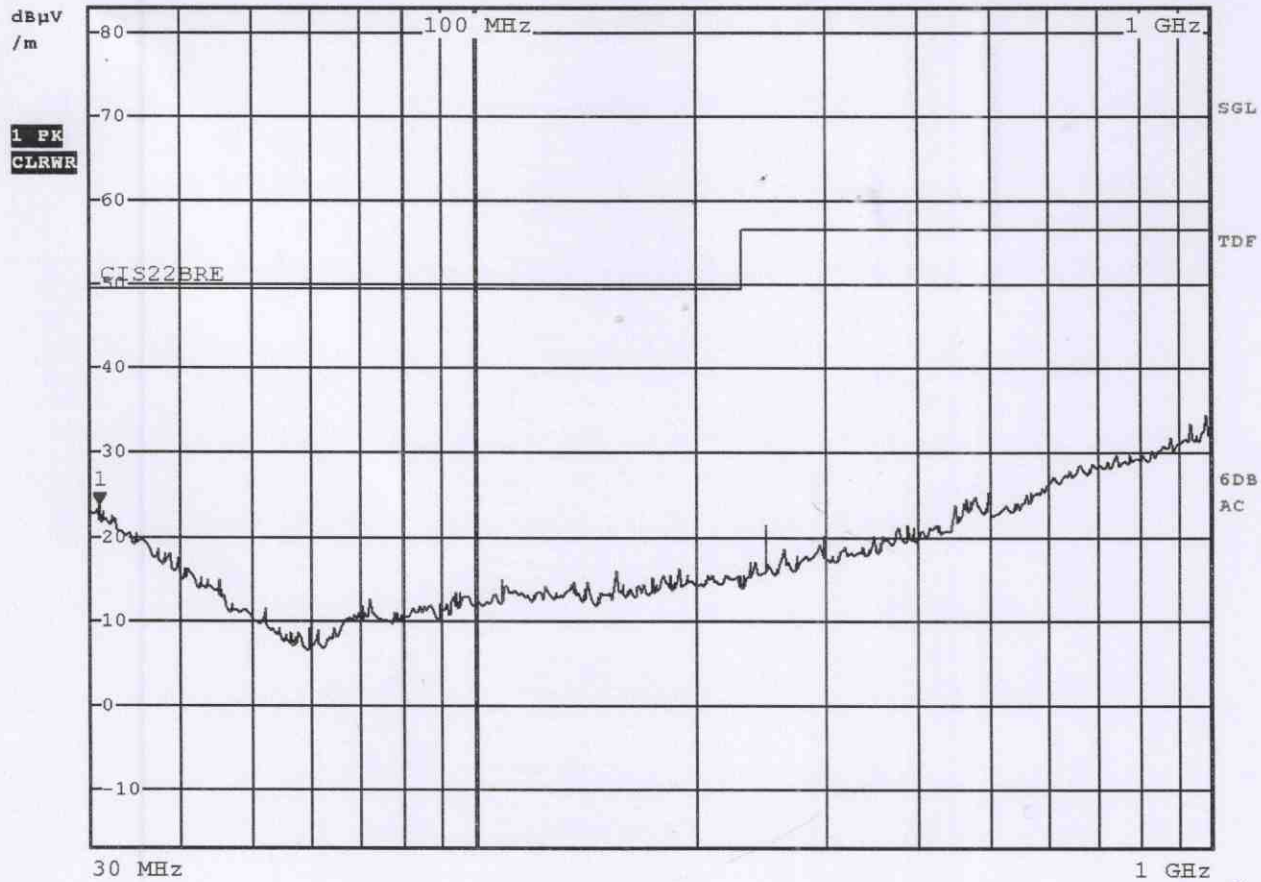
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ALLO-STM/eSBC, S/N: SP23001910816, EUT: 180 Deg, Antenna: HP
Date: 26.FEB.2017 15:46:01



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 23.90 dBµV/m
Att 0 dB AUTO PREAMP ON 30.840000000 MHz



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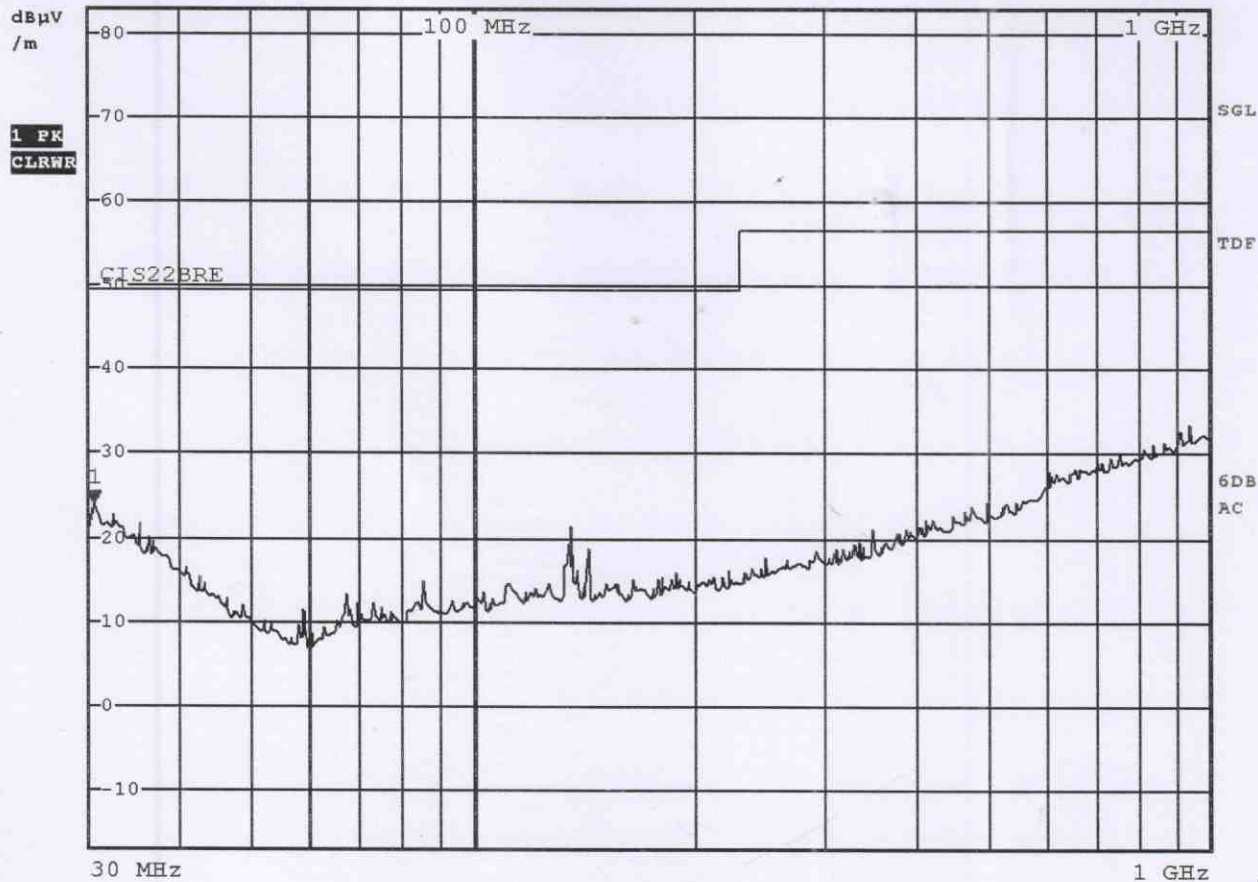
SRF: 64135, RE Test on STM/BLOX eSBC, Make: ALLO.COM, Model:
ALLO-STM/eSBC, S/N: SP23001910816, EUT: 270 Deg, Antenna: HP
Date: 26.FEB.2017 15:44:22



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 24.01 dBμV/m
Att 0 dB AUTO PREAMP ON 30.440000000 MHz



Handwritten signature

Gupta

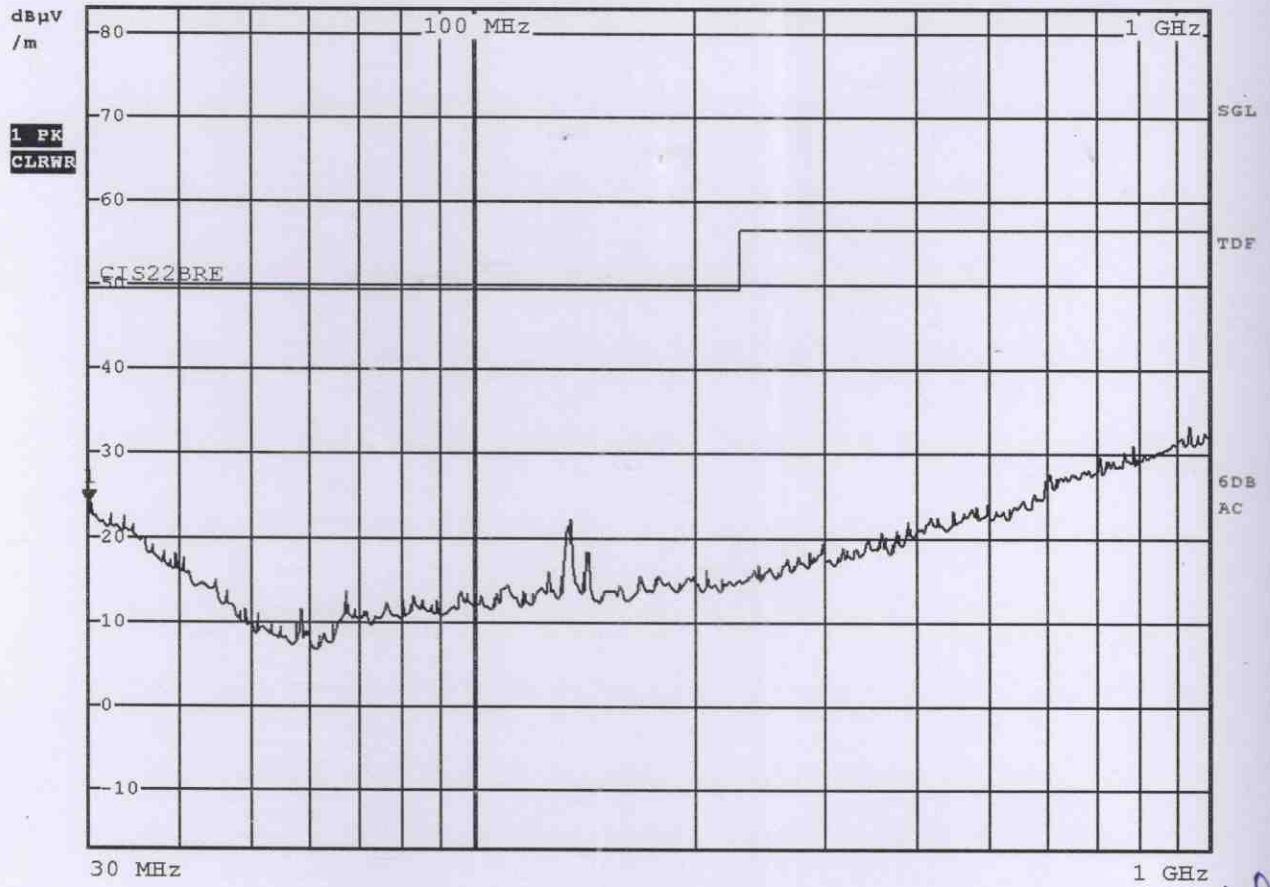
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ALLO-STM/eSBC, S/N: SP23001910816, EUT: 0 Deg, Antenna: VP
Date: 26.FEB.2017 15:49:47



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 24.05 dBμV/m
Att 0 dB AUTO PREAMP ON 30.000000000 MHz



Cupta

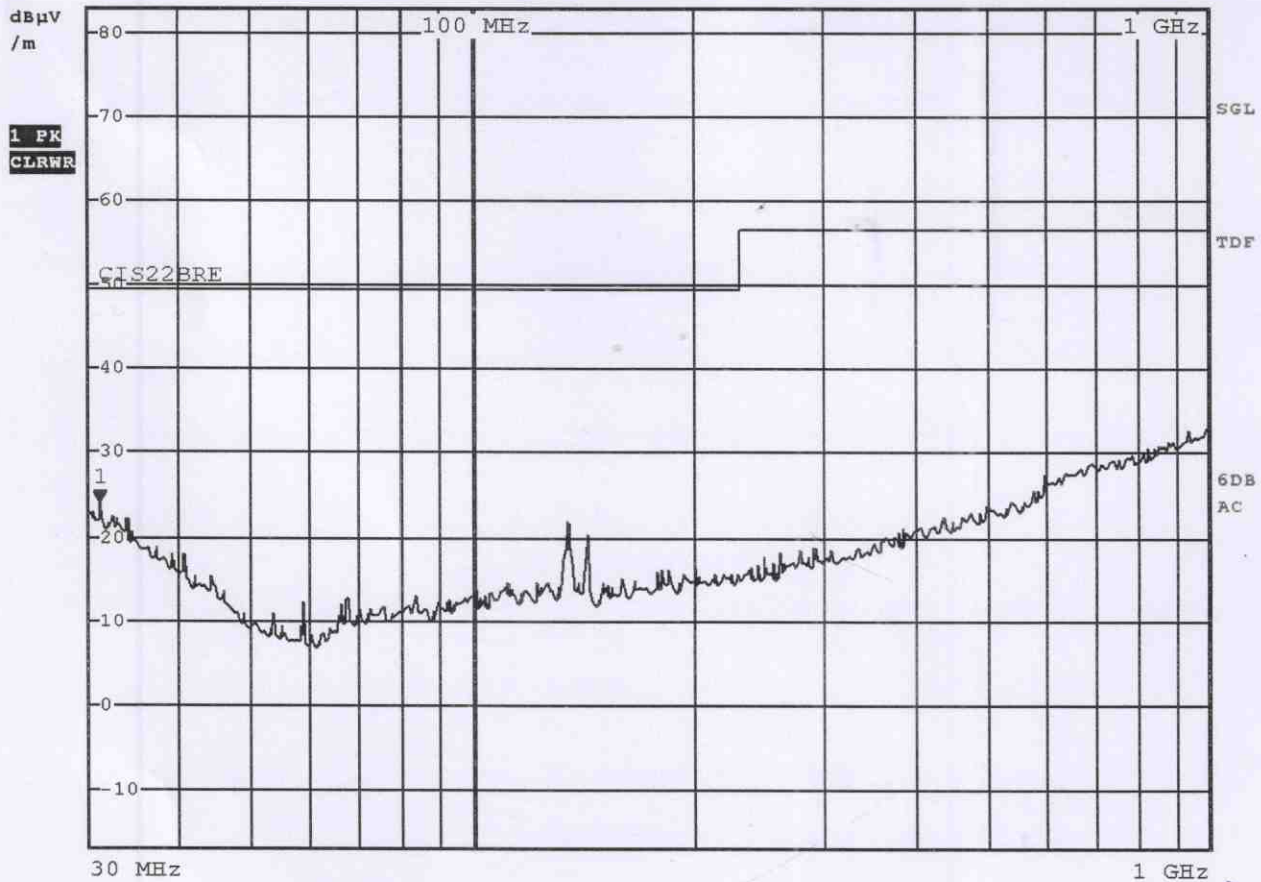
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Date: 26.FEB.2017 15:53:16



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 24.02 dBμV/m
Att 0 dB AUTO PREAMP ON 30.960000000 MHz



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Gupta

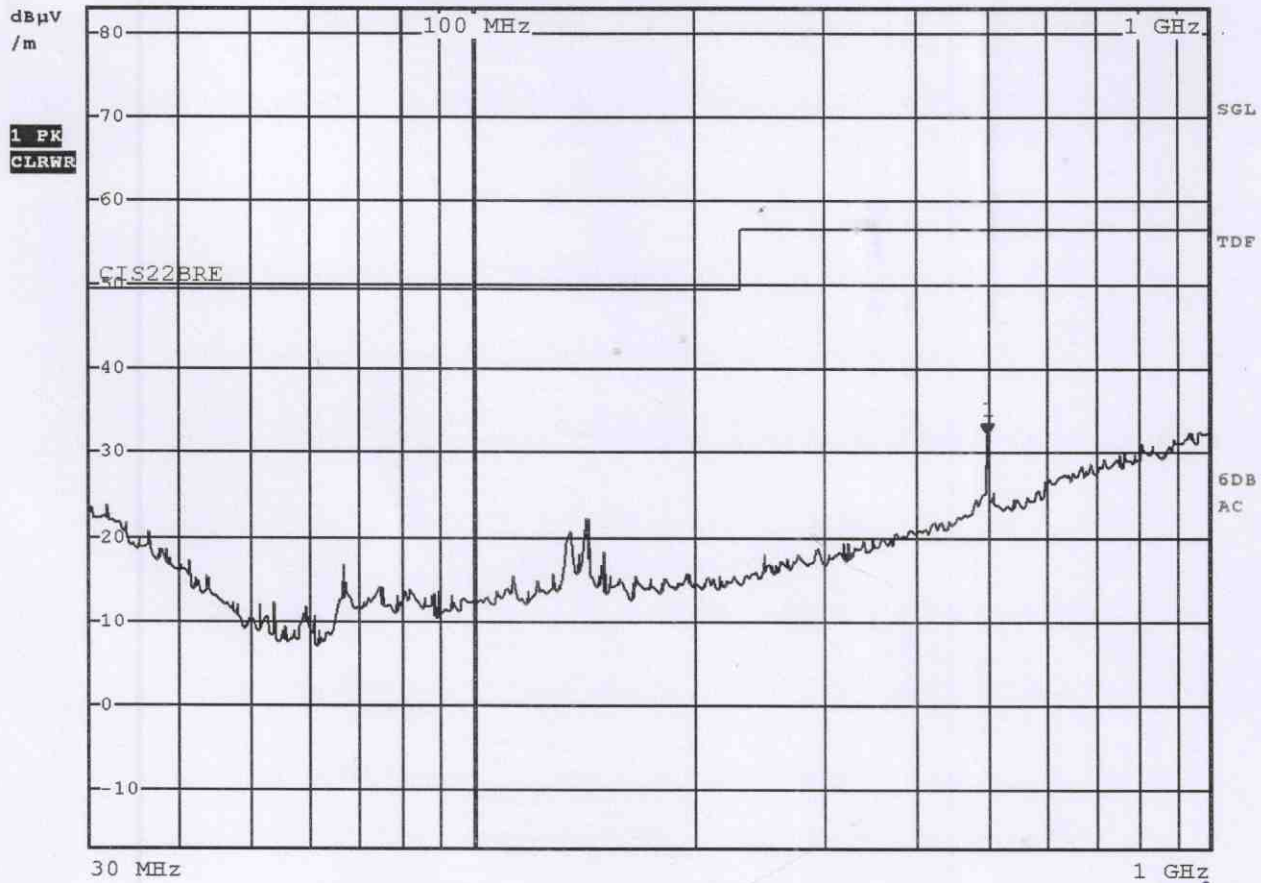
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Date: 26.FEB.2017 15:55:56



Graphs of Radiated disturbance measurement @3 meter measuring distance



RBW 120 kHz Marker 1 [T1]
MT 1 s 32.29 dBμV/m
Att 0 dB AUTO PREAMP ON 500.000000000 MHz



Handwritten signature

Signature

SRF: 64135, RE Test on STM/BLOX eSBC, Make: ALLO.COM, Model:
ALLO-STM/eSBC, S/N: SP23001910816, EUT: 270 Deg, Antenna: VP
Date: 26.FEB.2017 16:00:24

