Shenzhen EBO Technology Co., Ltd.

North 710, Yihua Building, Shennan Road, Futian District,
Shenzhen, P. R. China
Telephone：86-755-83187996,
Fax: 86-755-22639141

FCC REPORT

Application No.:	FCC10-RTE06251ITE
Applicant:	ARCHOS S.A.
Address of Applicant:	12 Rue Ampere ZI 91430 Igny, France
FCC ID:	SOV8200
Equipment Under Test (EUT):	
EUT Name:	A32 Internet Tablet
Item No.:	8200
Serial No.:	Not supplied by client
Standards:	FCC PART 15 Subpart B: 2008
Date of Receipt:	25 June. 2010
Date of Test:	28 June. 2010 to 29 June.2010
Date of Issue:	07 July. 2010
Test Result :	**PASS***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kavin Yu
Manager

1 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Conducted Emissions	FCC PART 15:2008	Section 15.107	PASS
Radiated Emission	FCC PART 15:2008	Section 15.109	PASS

2 Contents

3 General Information

3.1 Client Information

Applicant: ARCHOS S.A.

Address of Applicant: 12 Rue Ampere ZI 91430 Igny, France

3.2 General Description of E.U.T.

Equipment Under Test: Digital Device

Trade Name: ARCHOS

Type Designation: A32 Internet tablet

Model Number: 8200

Power Supply: Lithium polymer battery 3.7V

Date of Test: June 28-29, 2010

3.3 Test Location

All tests were sub-contracted to:

ATC Lab Co., Ltd (Guangdong, China).

205#, Yingfeng Building, Ronggu Rd,Foshan, Guangdong, China（528305）

Phone:0757-23612690

Fax:0757-23612537

3.4 Test Supporting System Details

Equipment Name	Modle No.	Manufacturer	FCC Status
PC	M2700	Lenovo	DOC
Monitor	TFT1780PS	AOV	DOC
Printer	LaserJet P2014	HP	DOC
Keyboard	JME7053	Lenovo	DOC
Mouse	N/A	Lenovo	DOC

3.5 Test Facility

FCC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on Oct. 29th, 2008.

3.6 Measurement Uncertainty

of +/- 4.5 dB for Radiated Emissions

of +/- 2.3 dB for Conducted Emissions

3.7 Other Information Requested by the Customer

None

4 Equipment Used during Test

Conducted Emission

No.	Test Equipment	Manufacturer	Mo del No.	Serial No.	Cal. Due Date
GAL-EMC002	Shielding Room	ETS	N/A	N/A	2011-05-18
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2010-07-08
GAL-EMC005	Line impedance stabilization network	EMCO	4825/2	1161	2010-07-08
GAL-EMC098	Line impedance stabilization network	EMCO	3810/2	2516	2010-07-08

RF in Chamber

No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due Date
GAL-EMC001	Semi-anechoic Chamber	ETS	N/A	N/A	2011-05-25
GAL-EMC003	Receiver	SCHAFFNER	SMR4503	11725	2010-07-08
GAL-EMC007	Double-ridged Wave guide horn	ETS	3115	6587	2010-08-02
GAL-EMC008	Microwave system amplifier (0.5G-26.5G)	Agilent	83017A	MY39500438	2010-07-08
GAL-EMC017	Biconilog Antenna	ETS	3142C	00042672	2010-09-26
GAL-EMC055	Band-pass Filter	Micro-Tronic	BRM50702	S/N-030	2010-11-09
GAL-EMC056	Spectrum Analyzer 9KHz-30GHz	R&S	FSP30	100755	2010-11-02

5 Test Results

5.1 Conducted Emissions

Test Requirement: FCC Part15 B Section 15.107

Test Method: ANSI C63.4:2003

Frequency Range: 150KHz to 30MHz

Class/Severity: Class B

Detector: Peak for pre-scan (9 kHz resolution bandwidth)

Test Mode: USB mode (Connect the EUT with PC ,and exchange data between them)

Test Voltage: 120Vac, 60Hz

Test Date: 28 June. 2010

Temperature: 23°C

Humidity: 51%

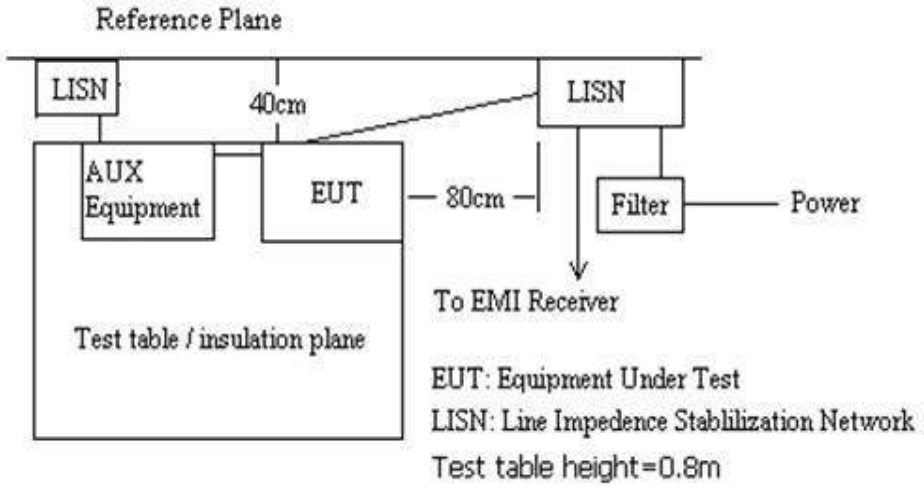
Limit:

(a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power lineon any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in thefollowing table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies atthe band edges.

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.

5.1.1 Test Setup



5.1.2 Test Procesure

The Device was conneted to the artifical main network via PC(refer to section 3.3 for details), And test the EUT with actived in USB mode.

5.1.3 Measurement Data

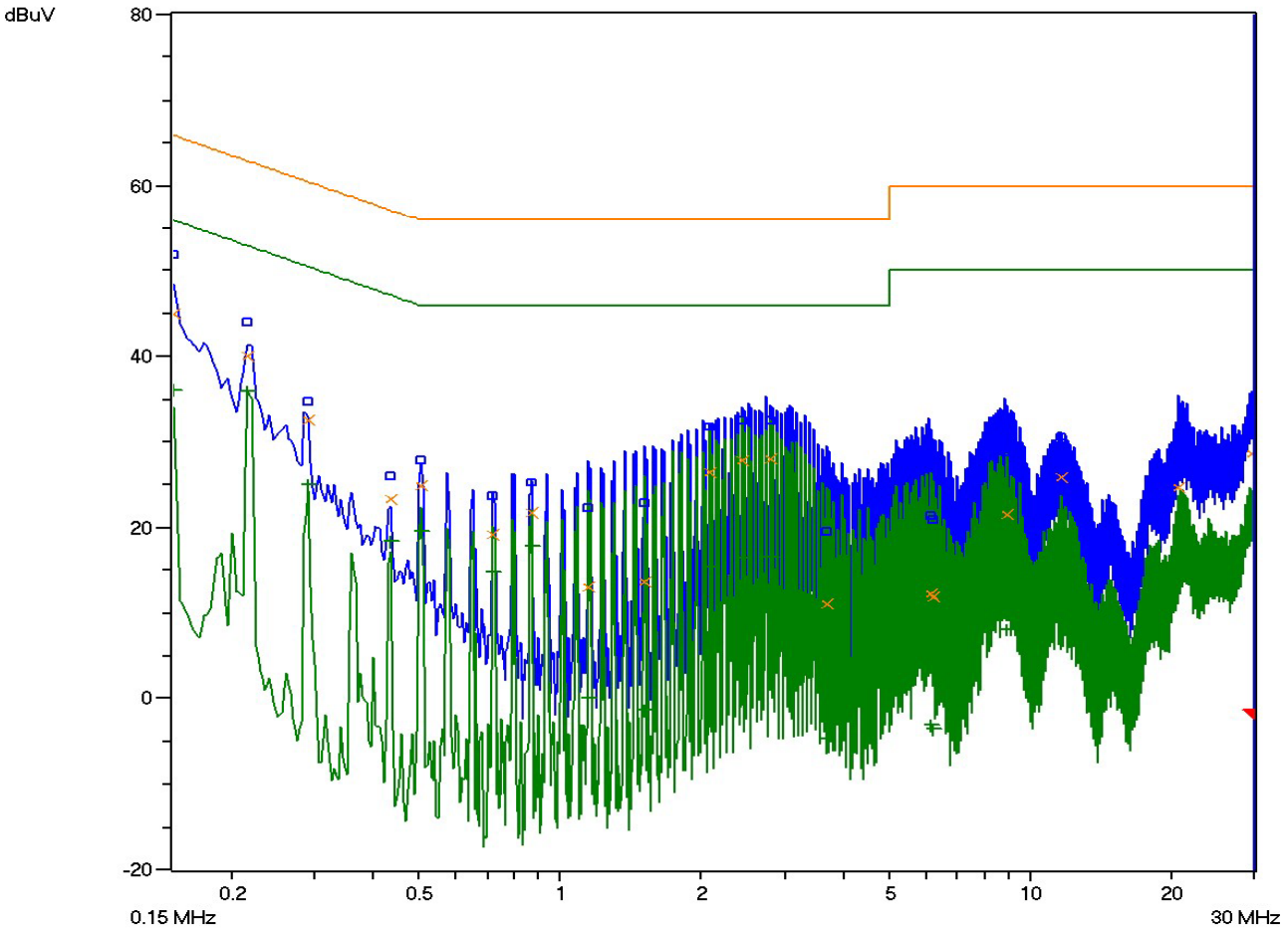
Measure the maximised peak emissions from the EUT for both the Live and Neutral Lines. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Frequency (MHz)	Line	Measured QP (dBuV)	QP Limit (dBuV)	Measured AV (dBuV)	AV Limit (dBuV)	Over Limit QP	Over Limit AV
0.1500	L	44.90	65.92	36.20	55.92	-21.02	-19.72
0.2150	L	40.00	62.95	35.80	52.95	-22.95	-17.15
0.2900	L	32.50	60.49	25.10	50.49	-27.99	-25.39
2.4450	L	27.80	56.00	16.40	46.00	-28.20	-29.60
2.8050	L	28.00	56.00	16.60	46.00	-28.00	-29.40
29.6350	L	28.70	60.00	20.30	50.00	-31.30	-29.70
0.1550	N	38.90	65.65	12.60	55.65	-26.75	-43.05
0.2200	N	40.20	62.76	36.80	52.76	-22.56	-15.96
0.2900	N	31.10	60.49	23.60	50.49	-29.39	-26.89
2.0300	N	29.60	56.00	26.30	46.00	-26.40	-19.70
2.6100	N	29.60	56.00	24.20	46.00	-26.40	-21.80
21.1150	N	28.00	60.00	20.20	50.00	-32.00	-29.80

Live Line Scan Graph

Frequency Range(s)		Range 1
Start Frequency		150 kHz
Stop Frequency		30 MHz
Step Frequency		5 kHz
Attenuator		Auto
Detector	(Pre)	AV CISPR
IF Bandwidth	(Pre)	9 kHz
Measure Time	(Pre)	10 ms
Detector	(Final)	QP
IF Bandwidth	(Final)	9 kHz
Measure Time	(Final)	1 s
Sub Ranges	(Final)	20

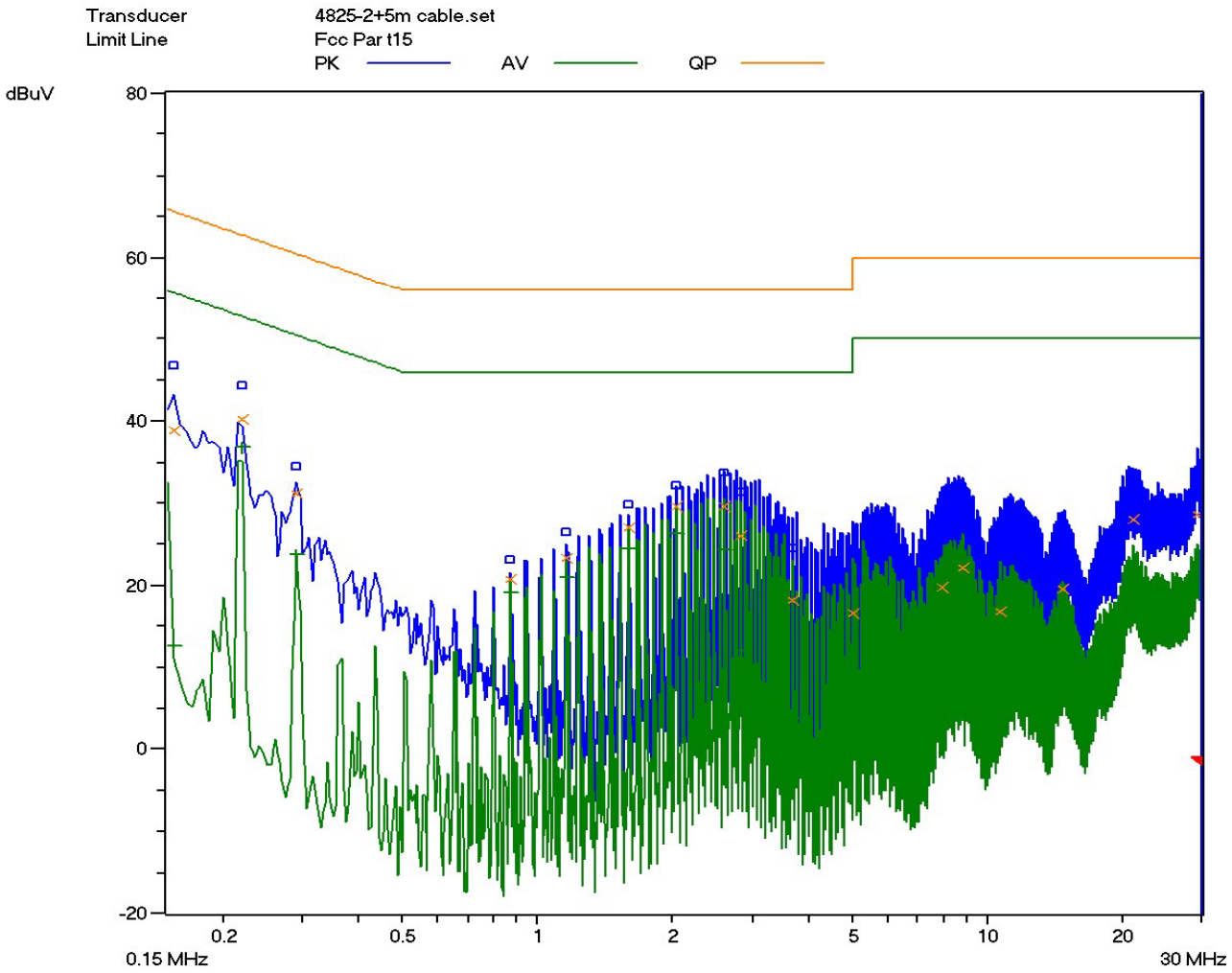
Transducer 4825-2+5m cable.set
Limit Line Fcc Par t15
PK AV QP



FCC ID: SOV 8200

Nuetral Line Scan Graph

Frequency Range(s)		Range 1
Start Frequency		150 kHz
Stop Frequency		30 MHz
Step Frequency		5 kHz
Attenuator		Auto
Detector	(Pre)	AV CISPR
IF Bandwidth	(Pre)	9 kHz
Measure Time	(Pre)	10 ms
Detector	(Final)	QP
IF Bandwidth	(Final)	9 kHz
Measure Time	(Final)	1 s
Sub Ranges	(Final)	20



FCC ID: SOV 8200

5.2 Radiated Emissions

Test Requirement: FCC Part15 B Section 15.109

Test Method: ANSI C63.4:2003

Frequency Range: 30MHz to 5GHz

Class/Severity: Class B

Detector: QP Detector(RBW=120kHz,VBW=300kHz)for 30 to 1000 MHz RE testing
Peak Detector(RBW=VBW=1MHz) for 1 to 25 GHz RE Peak value testing
Peak Detector(RBW=1MHz,VBW=10Hz) for 1 to 25 GHz RE AV value testing

Test Mode: USB mode (Connect the EUT with PC ,and exchange data between them)

Test Date: 29 June. 2010

Temperature: 23°C

Humidity: 52%

Limit:

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission	Field Strength	
(MHz)	(microvolts/meter)	dB (μV/m)
30 - 88	100	40(QP)
88 - 216	150	43.5(QP)
216 - 960	200	46(QP)
960-1000	500	54(QP)
Above 1000	500	54(AV) 74(PK)

5.2.1 Test Setup

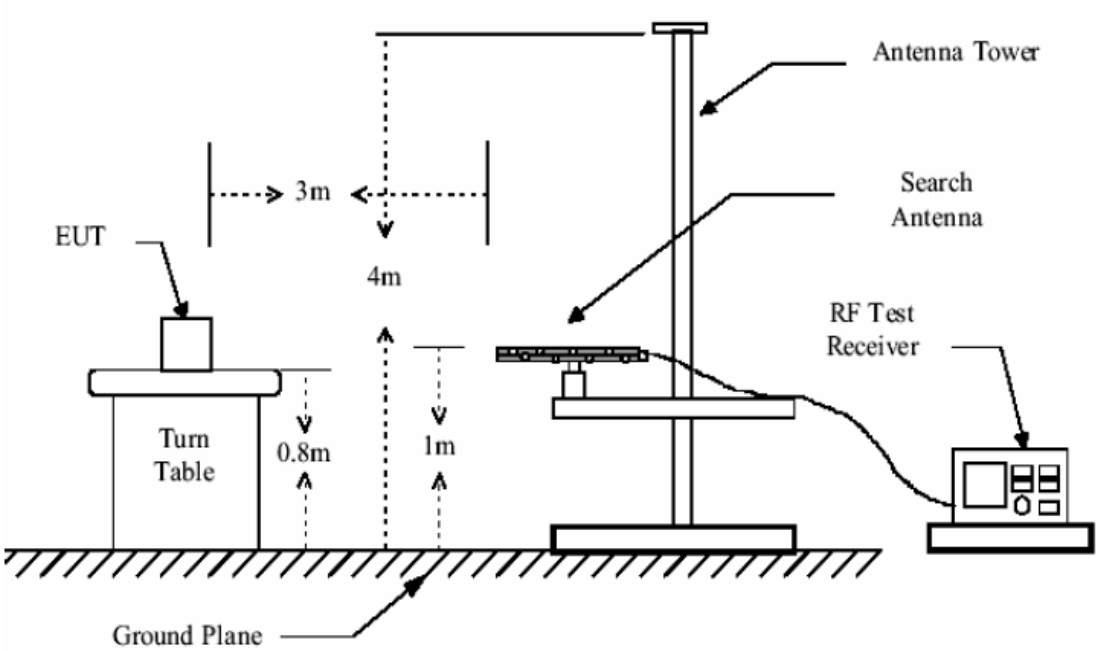


Figure1: 30MHz to 1GHz radiated emissions test setup

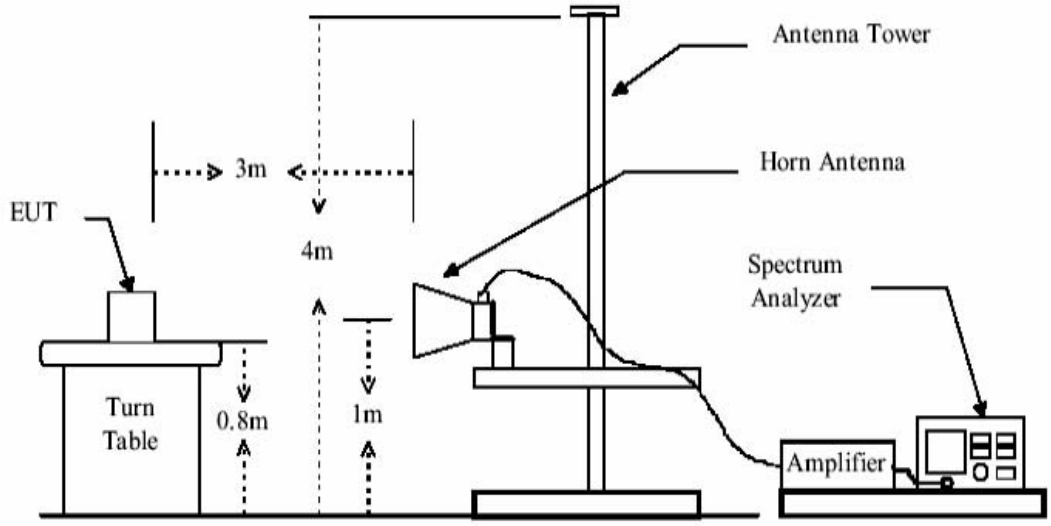


Figure 2: Above 1GHz radiated emissions test setup

5.2.2Test Prosesure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain

5.2.3Measurement Data

An initial pre-scan was performed in peak detection mode. Peak measurement was performed at the frequencies with maximized peak emission were detected.

Radiated Emission below 1GHz

Frequency (MHz)	Antenna Polarity	Detector Mode	Reading (dBuV)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	QP Limit (dBuV/m)	Over Limit(dB)
35.000	H	QP	-2.90	16.70	13.80	40.00	-26.20
300.000	H	QP	25.23	14.57	39.80	46.00	-6.20
420.000	H	QP	1.41	17.19	18.60	46.00	-27.40
624.000	H	QP	9.60	22.40	32.00	46.00	-14.00
798.000	H	QP	11.31	24.59	35.90	46.00	-10.10
930.640	H	QP	0.36	26.54	26.90	46.00	-19.10
34.160	V	QP	10.53	16.67	27.20	40.00	-12.80
298.640	V	QP	21.83	14.47	36.30	46.00	-9.70
454.800	V	QP	17.51	18.49	36.00	46.00	-10.00
599.920	V	QP	11.19	21.01	32.20	46.00	-13.80
797.840	V	QP	0.91	24.59	25.50	46.00	-20.50
959.280	V	QP	0.96	26.64	27.60	46.00	-18.40

Radiated Emission Above 1GHz

Frequency (MHz)	Antenna Polarity	Detector Mode	Reading (dBuV)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	PK Limit (dBuV/m)	Over Limit(dB)
1056.000	H	PK	56.64	-3.00	53.64	74.00	-20.36
1174.000	H	PK	49.73	-3.00	46.73	74.00	-27.27
1324.000	H	PK	50.55	-2.50	48.05	74.00	-25.95
1450.000	H	PK	46.62	-2.50	44.12	74.00	-29.88
1594.000	H	PK	36.40	-0.50	35.90	74.00	-38.10
4112.000	H	PK	43.01	5.80	48.81	74.00	-25.19
1056.000	V	PK	60.16	-3.00	57.16	74.00	-16.84
1174.000	V	PK	55.53	-3.00	52.53	74.00	-21.47
1324.000	V	PK	56.43	-2.50	53.93	74.00	-20.07
1450.000	V	PK	51.04	-2.50	48.54	74.00	-25.46
1576.000	V	PK	47.91	-0.50	47.41	74.00	-26.59
2978.000	V	PK	38.37	2.88	41.25	74.00	-32.75

Frequency (MHz)	Antenna Polarity	Detector Mode	Reading (dBuV)	Ant./CL/ Amp.CF (dB)	Measured Level (dBuV/m)	AV Limit (dBuV/m)	Over Limit(dB)
1056.000	H	AV	39.47	-3.00	36.47	54.00	-17.53
1174.000	H	AV	34.70	-3.00	31.70	54.00	-22.30
1324.000	H	AV	34.51	-2.50	32.01	54.00	-21.99
1450.000	H	AV	32.52	-2.50	30.02	54.00	-23.98
1594.000	H	AV	31.41	-0.50	30.91	54.00	-23.09
3016.000	H	AV	30.35	2.92	33.27	54.00	-20.73
1056.000	V	AV	42.45	-3.00	39.45	54.00	-14.55
1174.000	V	AV	36.71	-3.00	33.71	54.00	-20.29
1324.000	V	AV	39.10	-2.50	36.60	54.00	-17.40
1450.000	V	AV	34.60	-2.50	32.10	54.00	-21.90
1594.000	V	AV	33.84	-0.50	33.34	54.00	-20.66
2978.000	V	AV	30.68	2.88	33.56	54.00	-20.44