

FCC CERTIFICATION
On Behalf of
The Source (Bell) Electronics Inc.

FM Transmitter with Memory slot and USB
Model No.: 1419854

FCC ID: ZHW-1419854

Prepared for : The Source (Bell) Electronics Inc.
Address : 279 Bayview Drive, P.O. Box 34000 Barrie Ontario L4M
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Report Number : ATE20110638
Date of Test : April 23, 2011
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APPENDIX I (TEST CURVES) (9 pages)

Test Report Certification

Applicant : The Source (Bell) Electronics Inc.
Manufacturer : DAZA Electronics Company
EUT Description : FM Transmitter with Memory slot and USB
(A) MODEL No.: 1419854
(B) Brand Name: Centrios
(C) Power Supply: DC 12V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.239
ANSI 63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.239 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : April 23, 2011

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : FM Transmitter with Memory slot and USB
 Model Number : 1419854
 Brand Name : Centrios
 Power Supply : DC 12V
 Operate Frequency : 88.1-107.9MHz (step 0.1MHz)
 Applicant : The Source (Bell) Electronics Inc.
 Address : 279 Bayview Drive, P.O. Box 34000 Barrie Ontario L4M 4W5 Canada
 Manufacturer : DAZA Electronics Company
 Address : BLDG G, XIN MU SHENG LOW CARBON INDUSTRIAL PARK, NO.6 XIN MU ROAD, PINGHU, LONGGANG DISTRICT, SHENZHEN, CHINA
 Date of sample received : April 18, 2011
 Date of Test : April 23, 2011

1.2. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen
 Listed by FCC
 The Registration Number is 752051
 Listed by Industry Canada
 The Registration Number is 5077A-2
 Accredited by China National Accreditation Committee for Laboratories
 The Certificate Registration Number is L3193
 Name of Firm : ACCURATE TECHNOLOGY CO. LTD
 Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012
iPod	Apple	A1238	8K039T1Y9ZU	----

3. SUMMARY OF TEST RESULTS

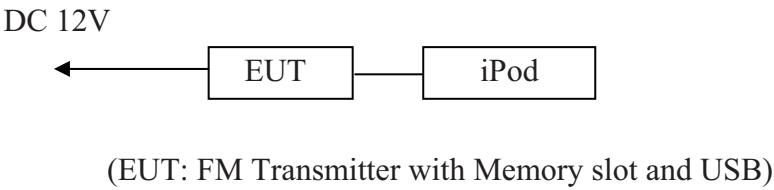
FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.239(c) Section 15.209	Harmonics and Spurious Radiated Emission	Compliant
Section 15.239(b)	Fundamental Radiated Emission	Compliant
Section 15.239(a)	Occupied Bandwidth	Compliant
Section 15.239	Tuning Range	Compliant

Remark: “N/A” means “Not applicable”.

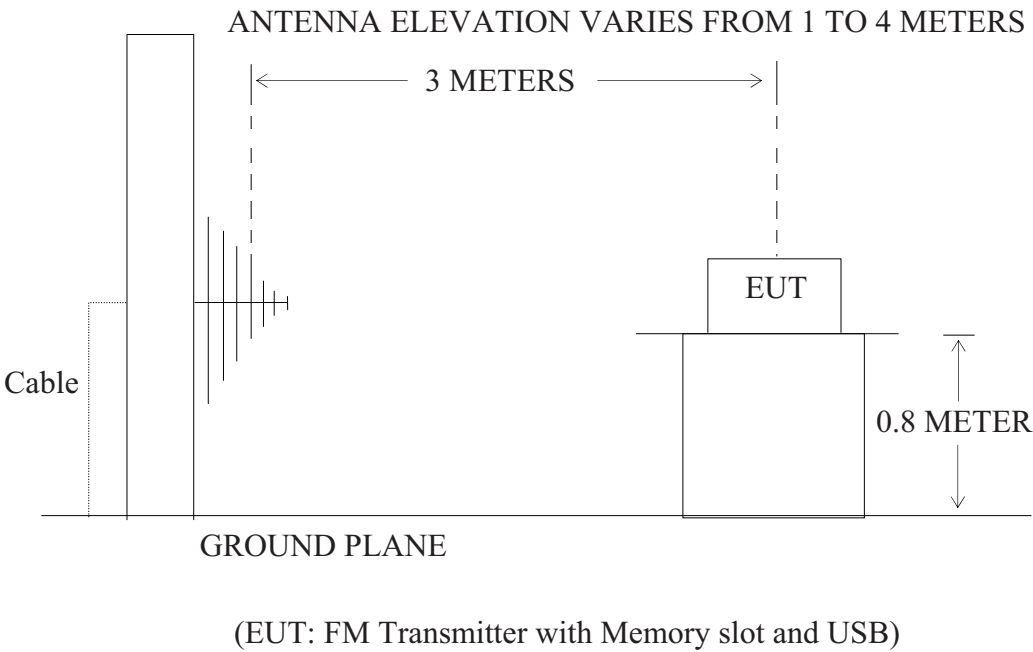
4. HARMONICS AND SPURIOUS RADIATED EMISSION FOR FCC PART 15 SECTION 15.239(C)

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.1.2. Semi-Anechoic Chamber Test Setup Diagram



4.2.The Emission Limit for section 15.239(c)

4.2.1. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit,		The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

4.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1.FM Transmitter with Memory slot and USB (EUT)

Model Number : 1419854
 Serial Number : N/A
 Manufacturer : DAZA Electronics Company

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes [Connect EUT use iPod playing typical audio signal ('Highway Blues' from sample music of windows XP) with maximum audio level] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.0M, 107.9MHz TX frequency to transmit.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz.

The frequency range from 30MHz to 1000MHz is checked.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range 30MHz to 1000MHz is investigated.

Date of Test:	April 23, 2011	Temperature:	25°C
EUT:	FM Transmitter with Memory slot and USB	Humidity:	50%
Model No.:	1419854	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with Line in	Test Engineer:	PEI

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	176.2074	23.37	15.76	39.13	43.50	-4.37
Horizontal	264.3109	22.14	18.66	40.80	46.00	-5.20
Horizontal	352.4148	18.97	20.94	39.91	46.00	-6.09
Vertical	176.2075	24.56	15.76	40.32	43.50	-3.18
Vertical	264.3107	23.53	18.66	42.19	46.00	-3.81
Vertical	352.4149	20.13	20.94	41.07	46.00	-4.93

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	<u>April 23, 2011</u>	Temperature:	<u>25°C</u>
EUT:	<u>FM Transmitter with Memory slot and USB</u>	Humidity:	<u>50%</u>
Model No.:	<u>1419854</u>	Power Supply:	<u>DC 12V</u>
Test Mode:	<u>TX 98.0MHz with Line in</u>	Test Engineer:	<u>PEI</u>

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	196.0040	24.55	16.03	40.58	43.50	-2.92
Horizontal	294.0050	23.90	18.60	42.50	46.00	-3.50
Horizontal	392.0045	19.05	21.96	41.01	46.00	-4.99
Vertical	196.0043	24.26	16.15	40.41	43.50	-3.09
Vertical	294.0057	23.85	18.60	42.45	46.00	-3.55
Vertical	392.0048	20.73	21.96	42.69	46.00	-3.31

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	April 23, 2011	Temperature:	25°C
EUT:	FM Transmitter with Memory slot and USB	Humidity:	50%
Model No.:	1419854	Power Supply:	DC 12V
Test Mode:	TX 107.9MHz with Line in	Test Engineer:	PEI

Polarization	Frequency (MHz)	Reading(dBμV/m) QP	Factor Corr.(dB)	Result(dBμV/m) QP	Limits(dBμV/m) QP	Margin(dB) QP
Horizontal	215.8110	23.52	16.56	40.08	43.50	-3.42
Horizontal	323.7143	23.24	19.50	42.74	46.00	-3.26
Horizontal	431.6230	18.69	22.96	41.65	46.00	-4.35
Vertical	215.8113	24.35	16.56	40.91	43.50	-2.59
Vertical	323.7151	23.47	19.50	42.97	46.00	-3.03
Vertical	431.6222	18.95	22.96	41.91	46.00	-4.09

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

5. FUNDAMENTAL RADIATED EMISSION FOR FCC PART 15

SECTION 15.239(B)

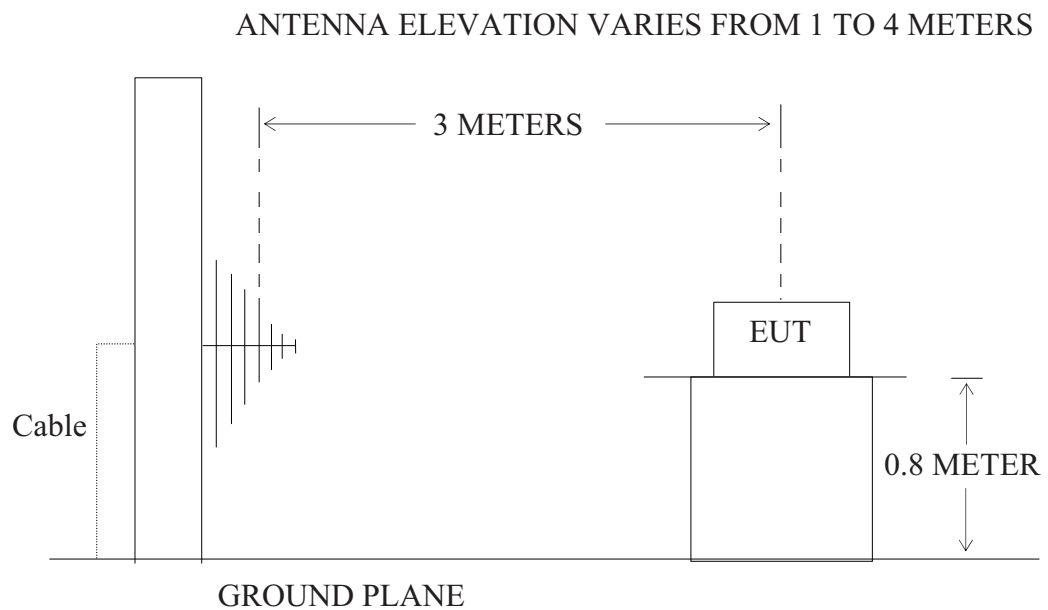
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: FM Transmitter with Memory slot and USB)

5.1.2. Semi-Anechoic Chamber Test Setup Diagram



(EUT: FM Transmitter with Memory slot and USB)

5.2. The Emission Limit For Section 15.239(b)

5.2.1. The field strength of any emission within the permitted 200kHz band shall not exceed 250microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

5.3.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.FM Transmitter with Memory slot and USB (EUT)

Model Number : 1419854
Serial Number : N/A
Manufacturer : DAZA Electronics Company

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes [Connect EUT use iPod playing typical audio signal ('Highway Blues' from sample music of windows XP) with maximum audio level] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.0M, 107.9MHz TX frequency to transmit.

5.5.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz.

5.6.The Emission Measurement Result

PASS.

Date of Test:	April 23, 2011	Temperature:	25°C
EUT:	FM Transmitter with Memory slot and USB	Humidity:	50%
Model No.:	1419854	Power Supply:	DC 12V
Test Mode:	TX 88.1MHz with Line in	Test Engineer:	PEI

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
88.1040	29.01	30.97	13.75	42.76	44.72	48	68	-5.24	-23.28	Horizontal
88.1050	30.13	31.91	13.73	43.86	45.64	48	68	-4.14	-22.36	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test: April 23, 2011
 EUT: FM Transmitter with Memory slot
 and USB
 Model No.: 1419854
 Test Mode: TX 98.0MHz with Line in

Temperature: 25°C
 Humidity: 50%
 Power Supply: DC 12V
 Test Engineer: PEI

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
98.0035	29.40	31.10	14.03	43.43	45.13	48	68	-4.57	-22.87	Horizontal
98.0020	30.28	32.11	13.93	44.21	46.04	48	68	-3.79	-21.96	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test: April 23, 2011
 EUT: FM Transmitter with Memory slot
 and USB
 Model No.: 1419854
 Test Mode: TX 107.9MHz with Line in

Temperature: 25°C
 Humidity: 50%
 Power Supply: DC 12V
 Test Engineer: PEI

Fundamental Radiated Emissions

Frequency (MHz)	Reading(dBμV/m)		Factor (dB) Corr.	Result(dBμV/m)		Limit(dBμV/m)		Margin (dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
107.9060	30.17	31.96	13.77	43.94	45.73	48	68	-4.06	-22.27	Horizontal
107.9065	30.39	32.32	14.19	44.58	46.51	48	68	-3.42	-21.49	Vertical

Note:

1. Measurement was performed with modulated signal with average detector and peak detector.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

$$\text{Where Corrected Factor} = \text{Antenna Factor} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$
3. The spectral diagrams in appendix I display the measurement of peak values.

6. OCCUPIED BANDWIDTH FOR FCC PART 15 SECTION

15.239(A)

6.1.The Requirement For Section 15.239(a)

6.1.1. Emission from the device shall be confined within a band 200kHz wide centered on the operating frequency. The 200kHz band shall lie wholly within the frequency range of 88-108MHz.

6.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.2.1.FM Transmitter with Memory slot and USB (EUT)

Model Number : 1419854
Serial Number : N/A
Manufacturer : DAZA Electronics Company

6.3.Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 5.1.

6.3.2.Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes [Connect EUT use iPod playing typical audio signal ('Highway Blues' from sample music of windows XP) with maximum audio level] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.0M, 107.9MHz TX frequency to transmit.

6.4.Test Procedure

6.4.1. The EUT was placed on a turn table which is 0.8m above ground plane.

6.4.2. Set EUT as normal operation. Playing typical audio signal (the volume control was set to maximum.)

6.4.3. Set EMI test receiver Center Frequency = fundamental frequency, RBW= 3kHz, VBW= 10kHz, Span=500kHz.

6.4.4. Set EMI test receiver Max hold. Mark peak, -26dB.

6.5. Test Result

The EUT does meet the FCC requirement.

FM 88.1MHz
-26dB bandwidth = 113.0kHz

FM 98.0MHz
-26dB bandwidth = 119.0kHz

FM 107.9MHz
-26dB bandwidth = 111.0kHz

7. TUNING RANGE

7.1.The Requirement For Section 15.239

88-108MHz

7.2.EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.2.1. FM Transmitter with Memory slot and USB (EUT)

Model Number : 1419854
Serial Number : N/A
Manufacturer : DAZA Electronics Company

7.3.Operating Condition of EUT

7.3.1.Setup the EUT and simulator as shown as Section 5.1.

7.3.2.Turn on the power of all equipment.

7.3.3. Let the EUT work in TX modes [Connect EUT use iPod playing typical audio signal ('Highway Blues' from sample music of windows XP) with maximum audio level] measure it. The transmit frequency are 88.1-107.9MHz. We are select 88.1M, 98.0M, 107.9MHz TX frequency to transmit.

7.4.Test Procedure

7.4.1.The EUT was placed on a turn table which is 0.8m above ground plane.

7.4.2.Set the EUT working on the working frequency.

7.4.3. Set EMI test receiver center frequency = working frequency, RBW=3kHz, VBW= 10kHz, Span=500kHz.

7.4.4.Measuring the working frequency.

7.4.5.The working frequency should be inside 88-108MHz.

7.5. Test Result

The EUT does meet the FCC requirement.

Low Frequency = 88.104MHz	EUT LED display 88.1MHz
Mid Frequency = 98.000MHz	EUT LED display 98.0MHz
High Frequency = 107.925MHz	EUT LED display 107.9MHz

The working frequency rang is from 88.1 to 107.9MHz.

APPENDIX I (Test Curves)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: pei #3535

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 88.1MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Horizontal

Power Source: DC 12V

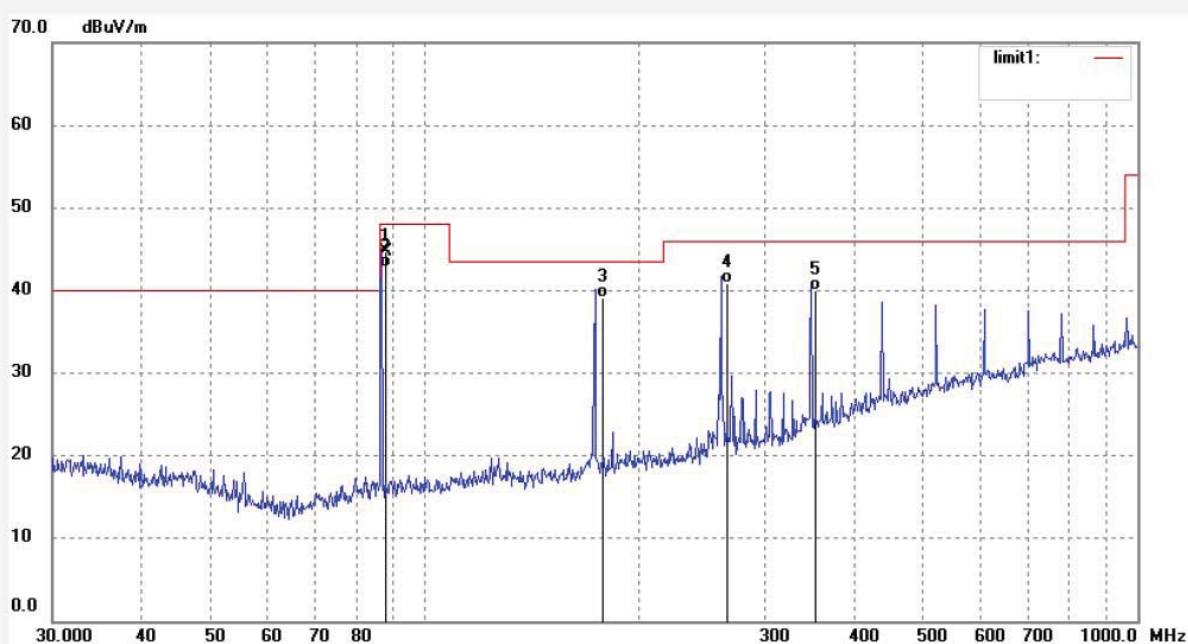
Date: 11/04/23/

Time: 9/49/05

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20110638



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1040	30.97	13.75	44.72	68.00	-23.28	peak			
2	88.1040	29.01	13.75	42.76	48.00	-5.24	AVG			
3	176.2074	23.37	15.76	39.13	43.50	-4.37	QP			
4	264.3109	22.14	18.66	40.80	46.00	-5.20	QP			
5	352.4148	18.97	20.94	39.91	46.00	-6.09	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: pei #3536

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 88.1MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Vertical

Power Source: DC 12V

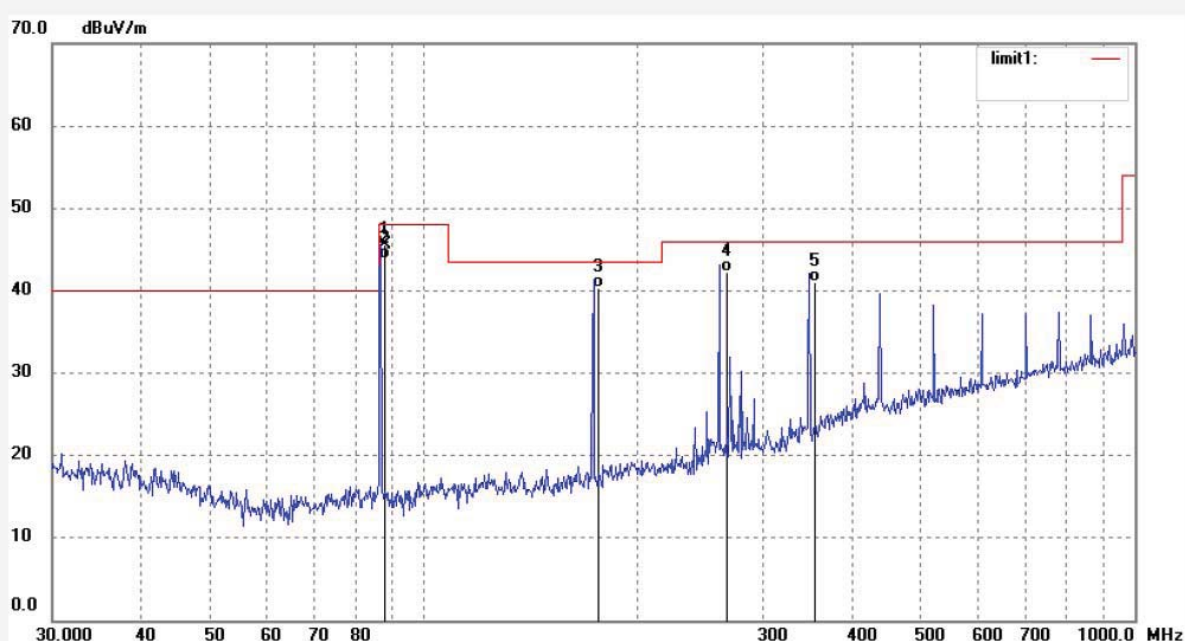
Date: 11/04/23/

Time: 10/01/20

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20110638



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	88.1050	31.91	13.73	45.64	68.00	-22.36	peak			
2	88.1050	30.13	13.73	43.86	48.00	-4.14	AVG			
3	176.2075	24.56	15.76	40.32	43.50	-3.18	QP			
4	264.3107	23.53	18.66	42.19	46.00	-3.81	QP			
5	352.4149	20.13	20.94	41.07	46.00	-4.93	QP			



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #3534

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 98MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Horizontal

Power Source: DC 12V

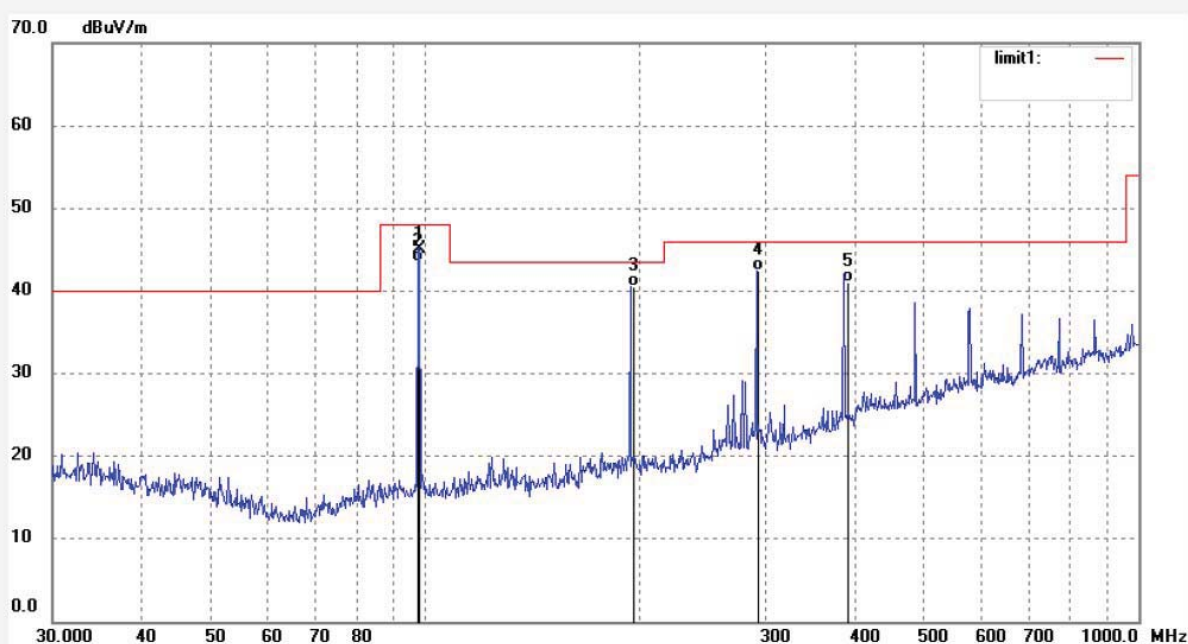
Date: 11/04/23/

Time: 9/37/18

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20110638



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.0035	31.10	14.03	45.13	68.00	-22.87	peak			
2	98.0035	29.40	14.03	43.43	48.00	-4.57	AVG			
3	196.0040	24.55	16.03	40.58	43.50	-2.92	QP			
4	294.0050	23.90	18.60	42.50	46.00	-3.50	QP			
5	392.0045	19.05	21.96	41.01	46.00	-4.99	QP			



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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: pei #3533

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 98MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Vertical

Power Source: DC 12V

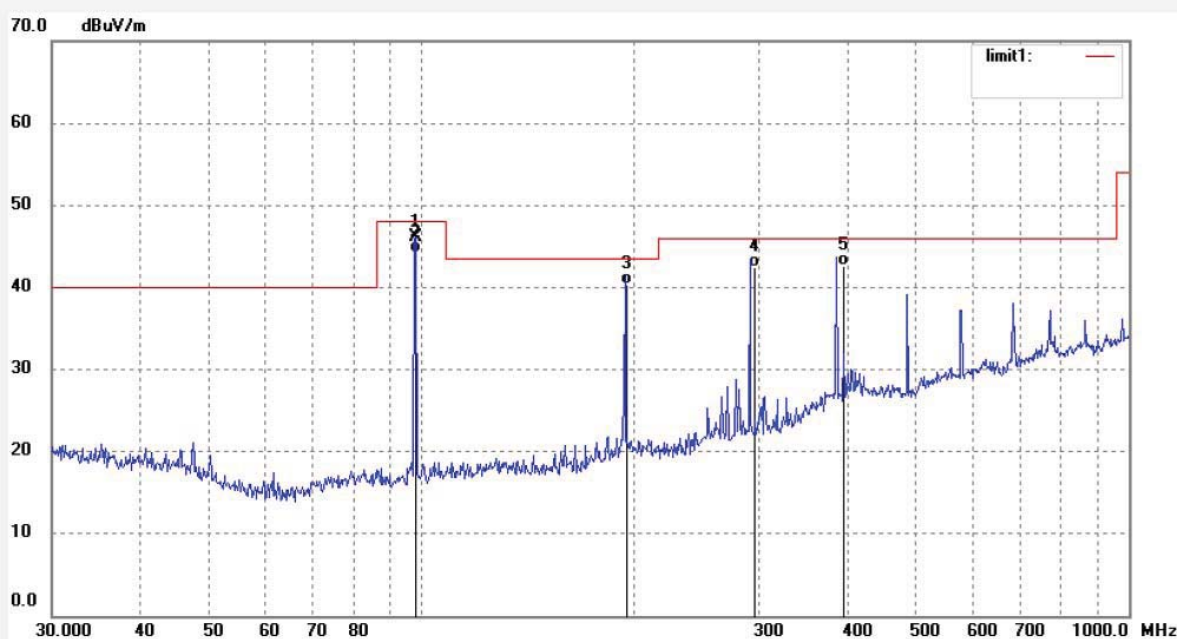
Date: 11/04/23/

Time: 9/25/52

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20110638



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.0020	32.11	13.93	46.04	68.00	-21.96	peak			
2	98.0020	30.28	13.93	44.21	48.00	-3.79	AVG			
3	196.0043	24.26	16.15	40.41	43.50	-3.09	QP			
4	294.0057	23.85	18.60	42.45	46.00	-3.55	QP			
5	392.0048	20.73	21.96	42.69	46.00	-3.31	QP			



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Site: 966 chamber
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Job No.: pei #3531

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 107.9MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Horizontal

Power Source: DC 12V

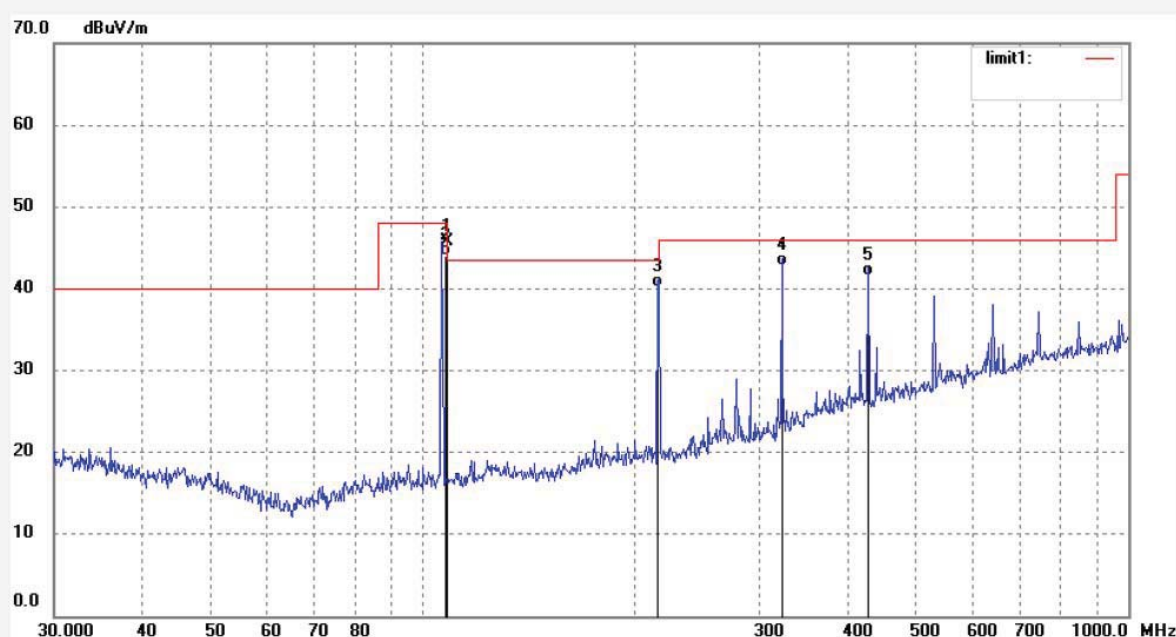
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Time: 9/00/29

Engineer Signature: PEI

Distance: 3m

Note: Report No.:ATE20110638



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9060	31.96	13.77	45.73	68.00	-22.27	peak			
2	107.9060	30.17	13.77	43.94	48.00	-4.06	AVG			
3	215.8110	23.52	16.56	40.08	43.50	-3.42	QP			
4	323.7143	23.24	19.50	42.74	46.00	-3.26	QP			
5	431.6230	18.69	22.96	41.65	46.00	-4.35	QP			



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: pei #3532

Standard: FCC PART 15 (FMT)

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 51 %

EUT: FM Transmitter with Memory slot and USB

Mode: TX 107.9MHz with Line in

Model: 1419854

Manufacturer: DAZA Electronics Company

Polarization: Vertical

Power Source: DC 12V

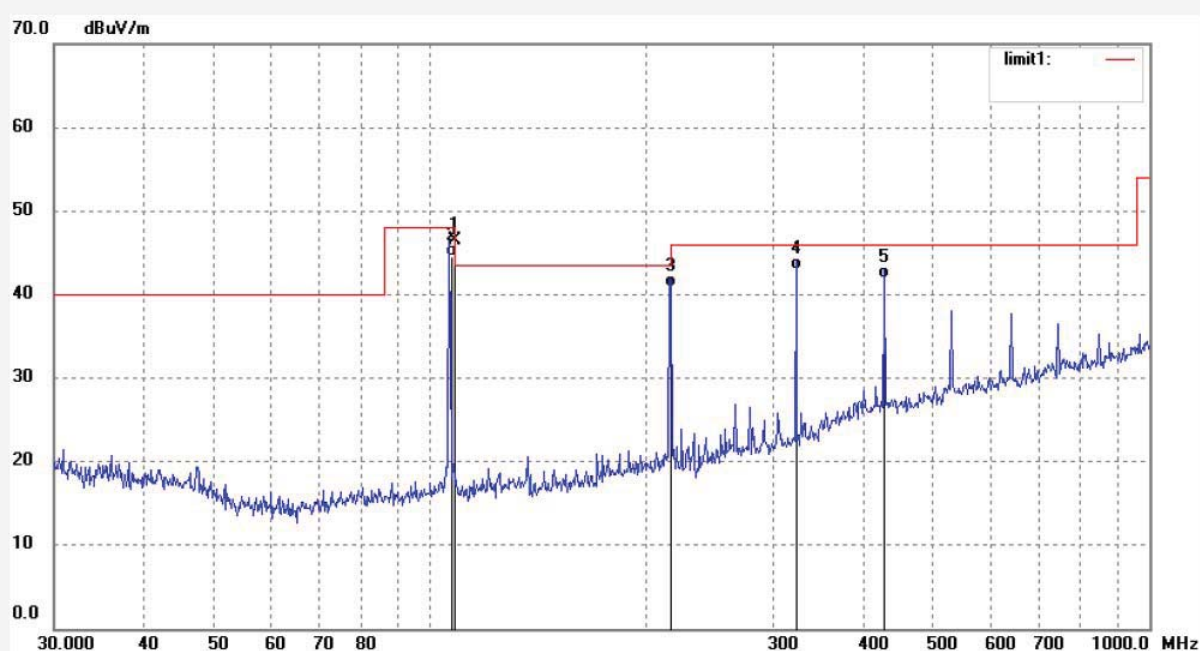
Date: 11/04/23/

Time: 9/13/39

Engineer Signature: PEI

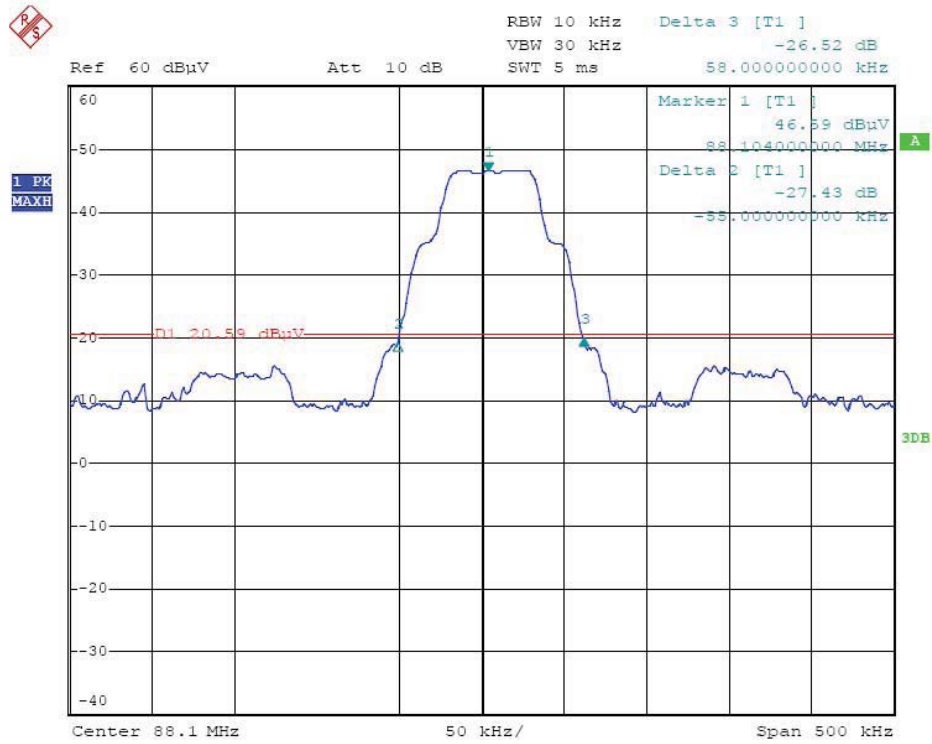
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Note: Report No.:ATE20110638



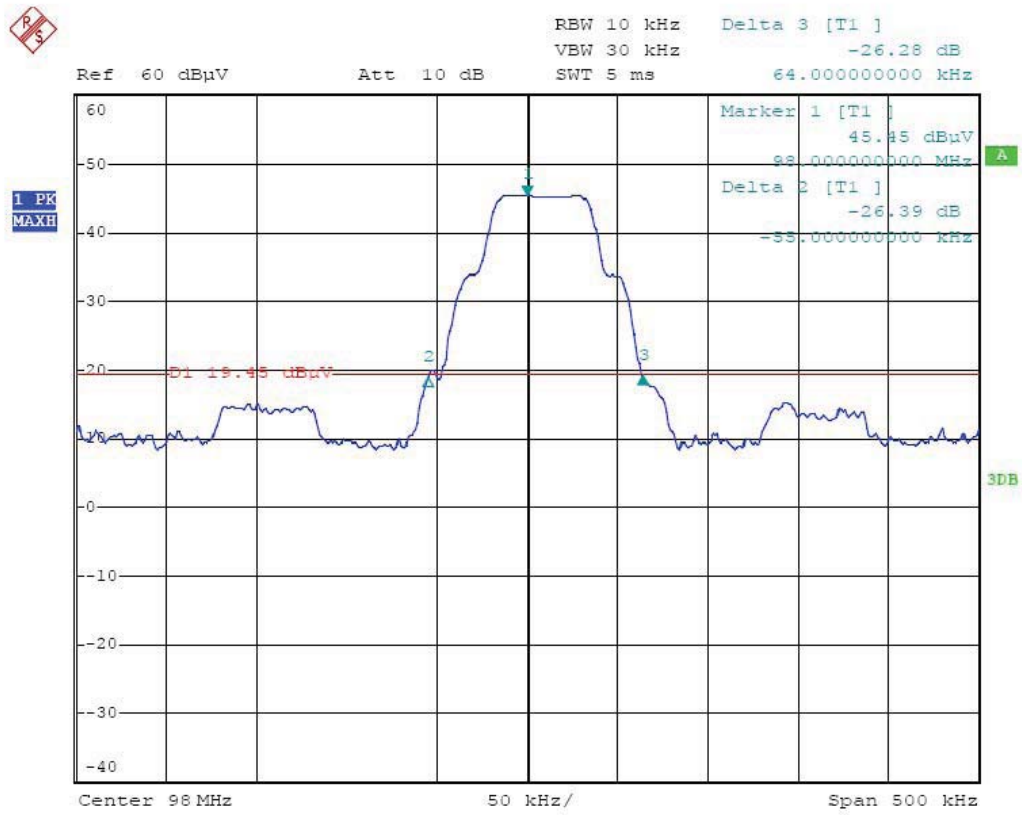
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	107.9065	32.32	14.19	46.51	68.00	-21.49	peak			
2	107.9065	30.39	14.19	44.58	48.00	-3.42	AVG			
3	215.8113	24.35	16.56	40.91	43.50	-2.59	QP			
4	323.7151	23.47	19.50	42.97	46.00	-3.03	QP			
5	431.6222	18.95	22.96	41.91	46.00	-4.09	QP			

FM 88.1MHz



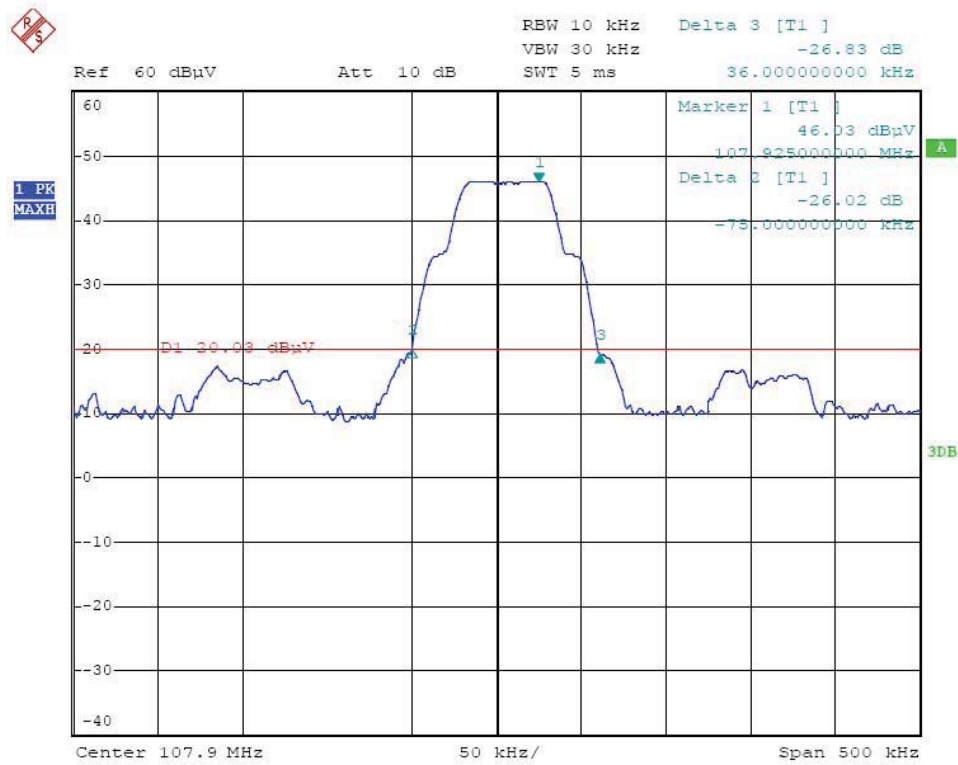
Date: 23.APR.2011 15:48:24

FM 98.0MHz



Date: 23.APR.2011 15:44:02

FM 107.9MHz



Date: 23.APR.2011 15:37:06