

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Headrest monitor with DVD-player

Brand Name: Myron & Davis

Model Name: MD9

Model Differences: N/A

FCC ID: VEIMD9

Report No.: E2/2015/A0059

FCC Rule Part: §15.239

Issue Date: Nov. 16, 2015

Prepared for: CENEC CORP.
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VERIFICATION OF COMPLIANCE

Applicant: CENEC CORP.
4F, NO. 122, Qiaohe Rd., Zhonghe Dist., New Taipei City,
Taiwan

Equipment Under Test: Headrest monitor with DVD-player

Brand Name: Myron & Davis

Model No.: MD9

Model Difference: N/A

FCC ID: VEIMD9

File Number: E2/2015/A0059

Date of test: Nov. 04, 2015 ~ Nov. 09, 2015

Date of EUT Received: Nov. 04, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. 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.

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

Test By:

Pony Chen

Date

Nov. 16, 2015

Pony Chen / Engineer

Prepared By:

Violetta Tang

Date

Nov. 16, 2015

Violetta Tang / Clerk

Approved By:

Jim Chang

Date

Nov. 16, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/A0059	Rev.00	Initial creation of document	Nov. 16, 2015

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name	Headrest monitor with DVD-player
Brand Name	Myron & Davis
Model Name	MD9
Model Difference	N/A
Hardware Version:	N/A
Software Version:	N/A
USB Cable:	Model No.: N/A, Supplier: N/A
HDMI Cable:	Model No.: N/A, Supplier: N/A
Power Supply	12Vdc

FM Transmitter:

Operating Frequency	88.1 – 107.9MHz
Transmit Power	35.21dBuV/m
Modulation Technique	Frequency Modulation
Number of Channels	199, channel step: 0.1MHz
Operating Mode	Point-to-Point
Antenna Type	Wire Antenna

The EUT is compliance with FM 88.1MHz -107.9MHz Standard.
This test report applies for FM transmitter.

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.239

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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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 7 and 13 of ANSI C63.10: 2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz 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 and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.10: 2013.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range	Limits	
	dB(uV)	
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

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(2) Radiated Emission

- a. Emission from the intentional radiator shall be confined with a band 200kHz wide centered on the operation frequency. The 200kHz band shall lie wholly within the frequency range of 88-108 MHz.
- b. The field strength of any emission within the permitted 200kHz band shall not exceed 250 micro volts/meter at 3 meters. (48dB μ V at 3m) 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.
- c. The field strength of any emissions radiated on any frequency outside of the specified 200kHz band shall not exceed the general radiated emission limits in section Part 15.209 Table 2 (Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength μ V/m	Distance (m)	Field strength at 3m dB μ V/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

- Remark 1. Emission level in dB μ V/m=20 log (μ V/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 § 15.205 Table 1
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of §15.205 Table 1, then the general radiated emission limits in § 15.209 Table 2 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

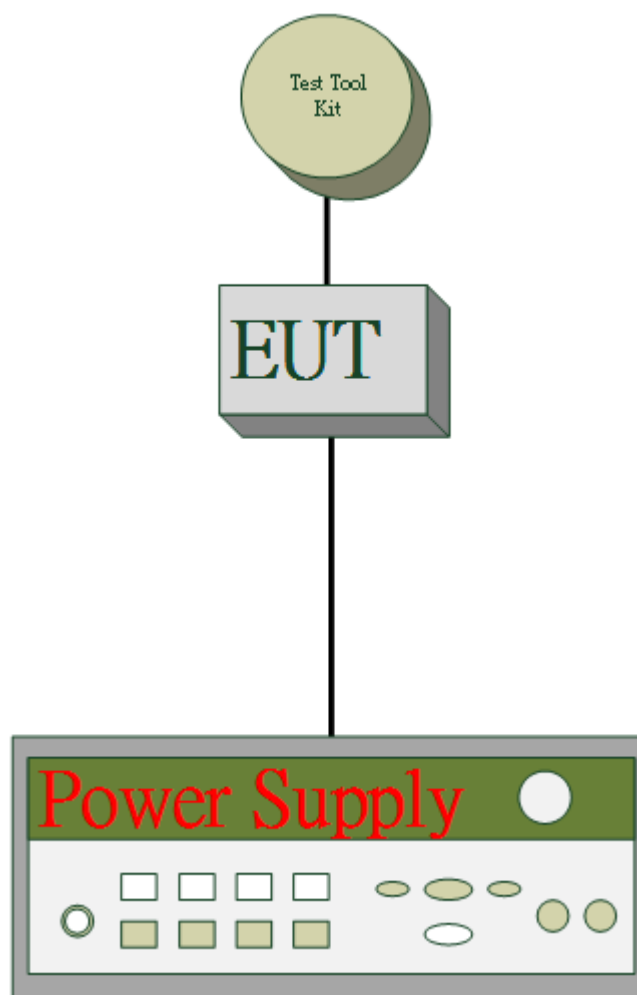


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Test Tool Kit	N/A	N/A	N/A	N/A	N/A

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3. Summary of Test Results

FCC Rules	Description Of Test	Remark
§15.207(a)	AC Power Line Conducted Emission	N/A
§15.239	Radiated Emission	Complied
§2.1049 §15.215 (c)	20dB Bandwidth	Complied
§15.203	Antenna Requirement	Complied

4. Description of test modes

4.1 Operated in 88.1 ~ 107.9MHz Band

199 channels are provided for FM 88.1 ~ 107.9MHz, channel step: 0.1MHz.

4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
FM	1 to 199	1,98,199	FM

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for FM Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST			
20dB Band Width			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
FM	1 to 199	1,98,199	FM

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 51.33 Hz
20 dB OCCUPIED BANDWIDTH	+/- 51.33 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. Conducted Emissions Test

6.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2014	12/11/2015
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2015	01/07/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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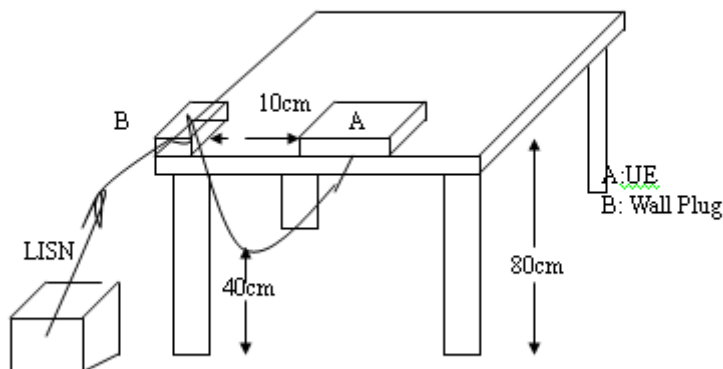
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result:

N/A, the power supply is 12Vdc.

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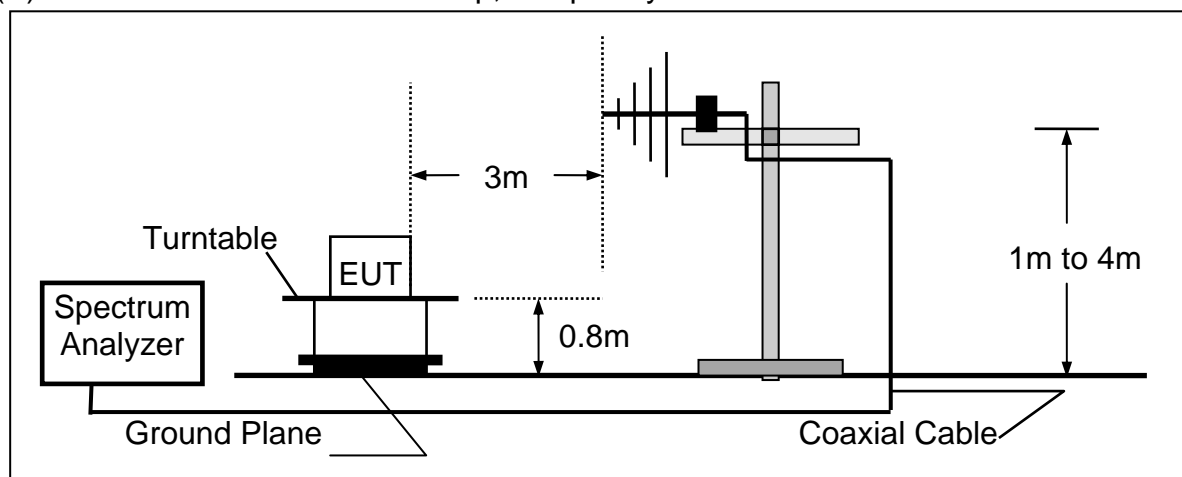
7. Radiated Emission Test

7.1 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.

7.2 Test SET-UP (Block Diagram of Configuration)

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



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7.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

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

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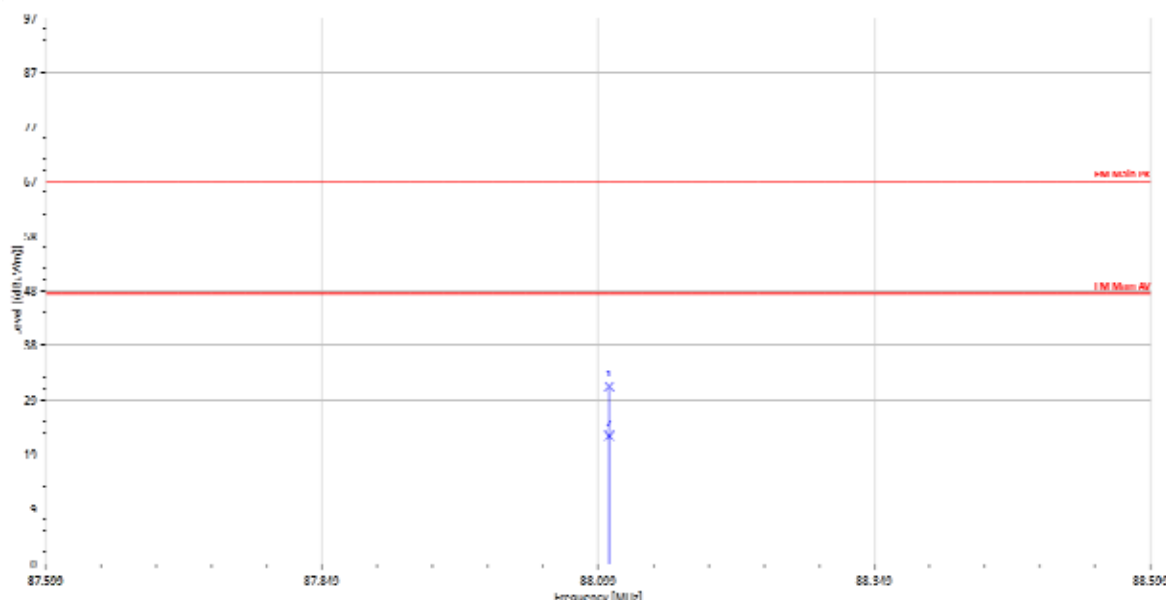
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7.5 Radiated Spurious Emission Measurement Result (MAIN)

Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:88.1MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN LOW	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
88.11	Peak	F	57.30	-25.87	31.43	67.95	-36.52
88.11	Average	F	48.54	-25.87	22.67	47.95	-25.28

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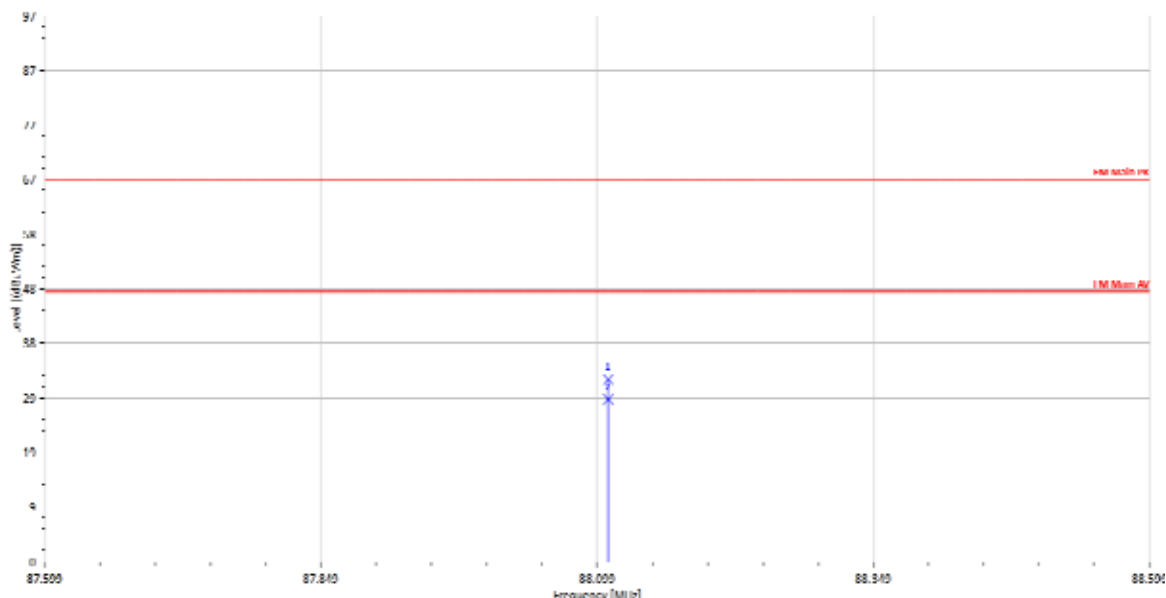
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:88.1MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN LOW	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
88.11	Peak	F	58.21	-25.87	32.34	67.95	-35.61
88.11	Average	F	54.68	-25.87	28.81	47.95	-19.14

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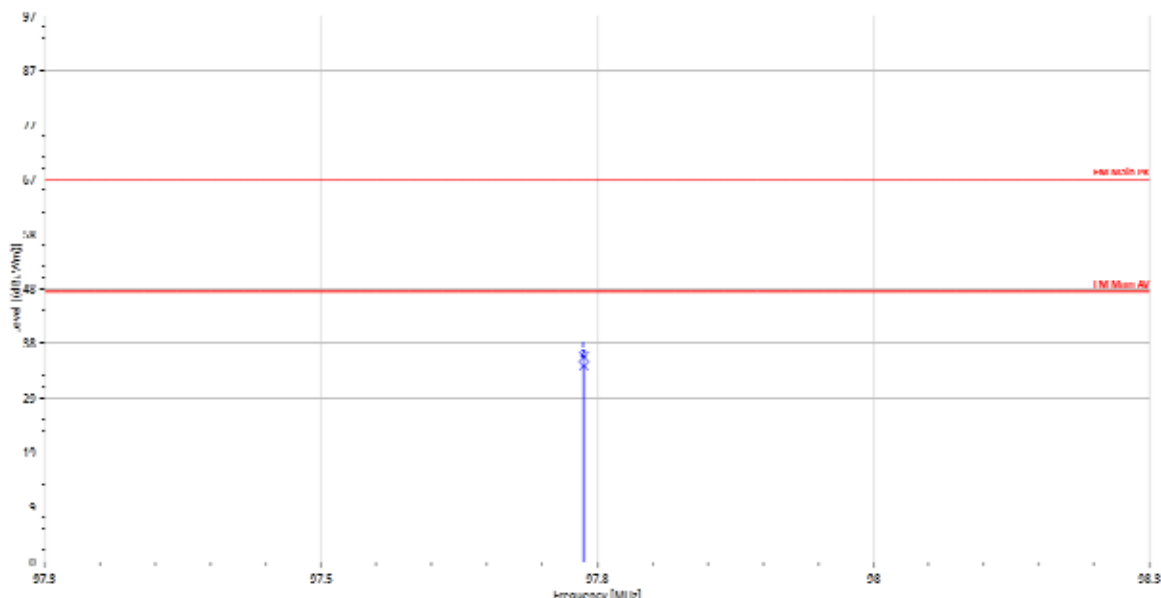
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:97.8MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN MID	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
97.79	Peak	F	60.61	-24.21	36.40	67.95	-31.55
97.79	Average	F	58.91	-24.21	34.70	47.95	-13.25

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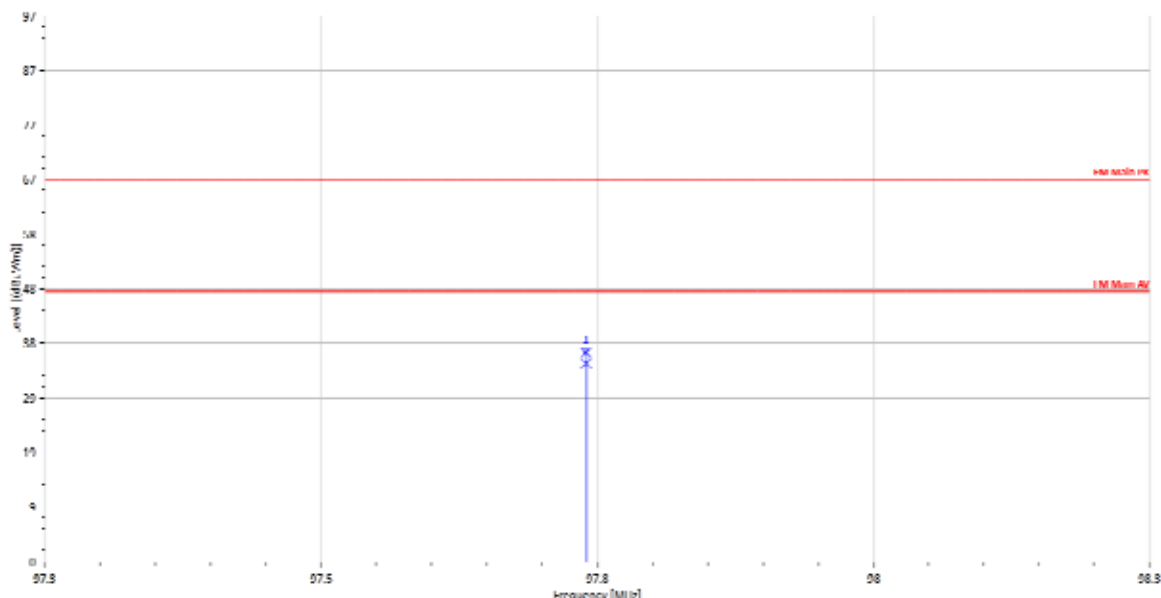
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:97.8MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN MID	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
97.79	Peak	F	61.30	-24.21	37.09	67.95	-30.86
97.79	Average	F	59.42	-24.21	35.21	47.95	-12.74

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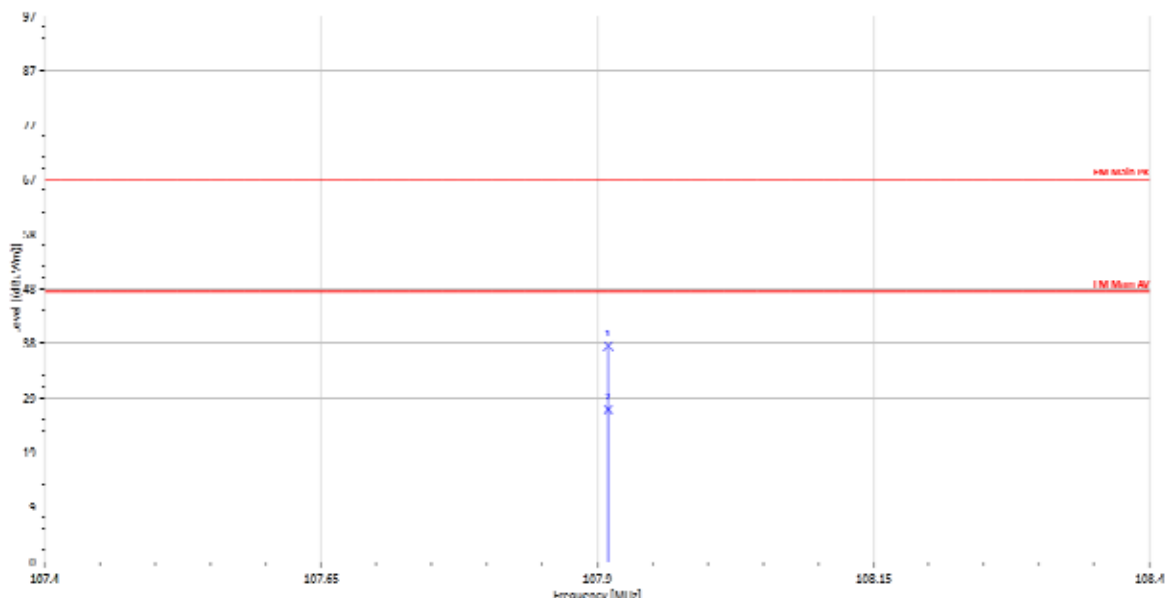
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:107.9MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN HIGH	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
107.91	Peak	F	60.95	-22.63	38.32	67.95	-29.63
107.91	Average	F	49.61	-22.63	26.98	47.95	-20.97

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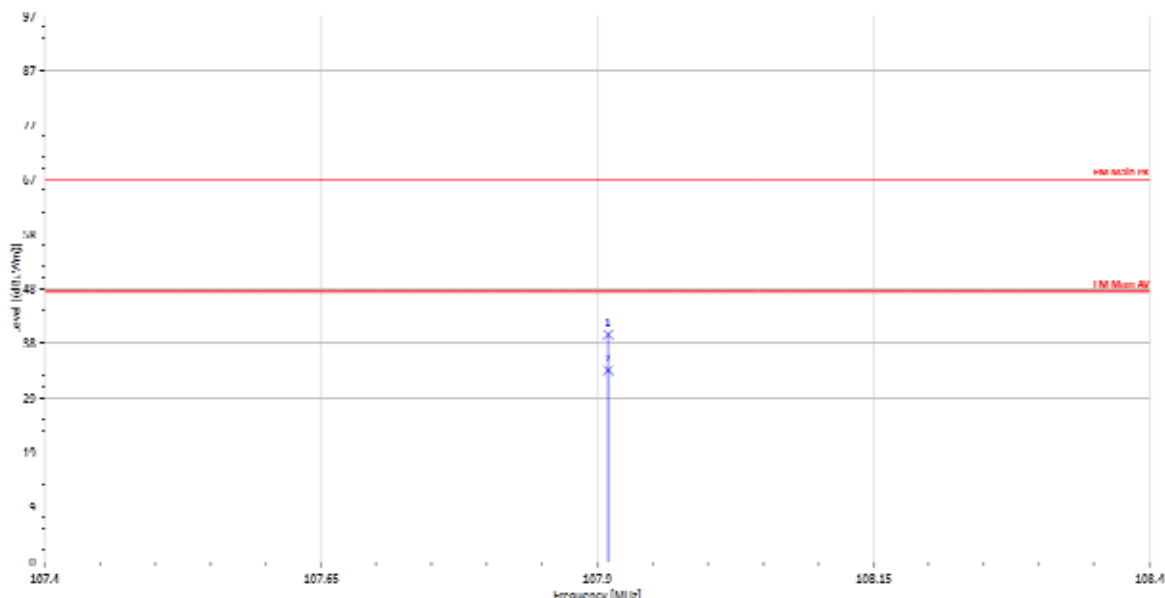
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:107.9MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:MAIN HIGH	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
	Mode		Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
107.91	Peak	F	62.91	-22.63	40.28	67.95	-27.67
107.91	Average	F	56.57	-22.63	33.94	47.95	-14.01

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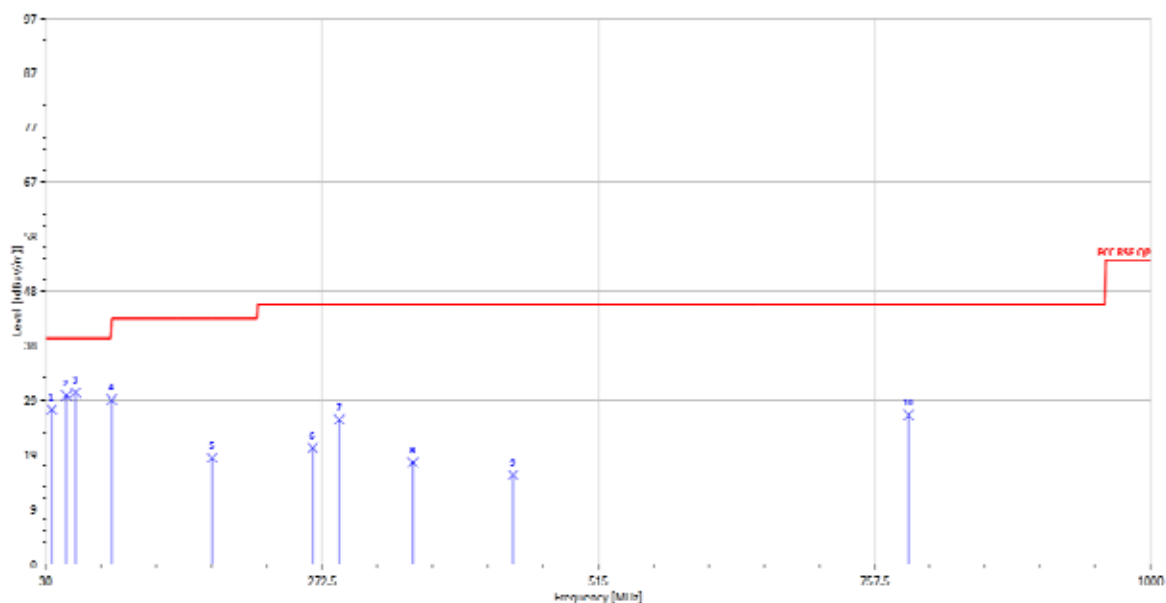
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7.6 Radiated Spurious Emission Measurement Result (TX) For Frequency from 30MHz to 1000MHz

Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:88.1MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:TX LOW	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBuV/m	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
35.63	Peak	S	43.59	-16.22	27.36	40.00	-12.64
48.43	Peak	S	54.42	-24.55	29.87	40.00	-10.13
56.19	Peak	S	57.75	-27.33	30.42	40.00	-9.58
88.20	Peak	S	54.96	-25.86	29.10	43.50	-14.40
176.20	Peak	H	42.90	-24.11	18.79	43.50	-24.71
264.30	Peak	H	40.05	-19.50	20.55	46.00	-25.45
288.02	Peak	S	45.05	-19.45	25.60	46.00	-20.40
352.40	Peak	H	35.24	-17.31	17.93	46.00	-28.07
440.50	Peak	H	31.12	-15.33	15.78	46.00	-30.22
787.57	Peak	S	36.33	-9.93	26.39	46.00	-19.61

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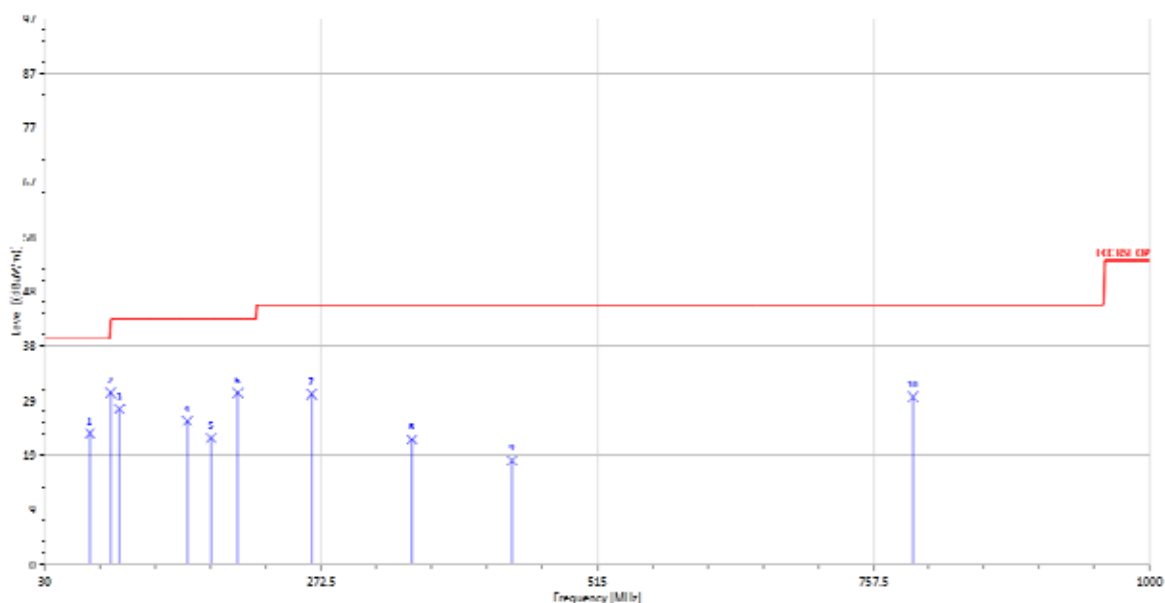
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:88.1MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:TX LOW	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
Mode			Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
69.77	Peak	S	51.01	-27.80	23.21	40.00	-16.79
88.20	Peak	S	56.29	-25.86	30.43	43.50	-13.07
95.96	Peak	S	52.06	-24.54	27.52	43.50	-15.98
155.13	Peak	S	48.23	-22.82	25.41	43.50	-18.09
176.20	Peak	H	46.53	-24.11	22.42	43.50	-21.08
199.75	Peak	S	53.67	-23.28	30.39	43.50	-13.11
264.30	Peak	H	49.69	-19.50	30.19	46.00	-15.81
352.40	Peak	H	39.46	-17.31	22.15	46.00	-23.85
440.50	Peak	H	33.70	-15.33	18.37	46.00	-27.63
792.42	Peak	S	39.44	-9.75	29.69	46.00	-16.31

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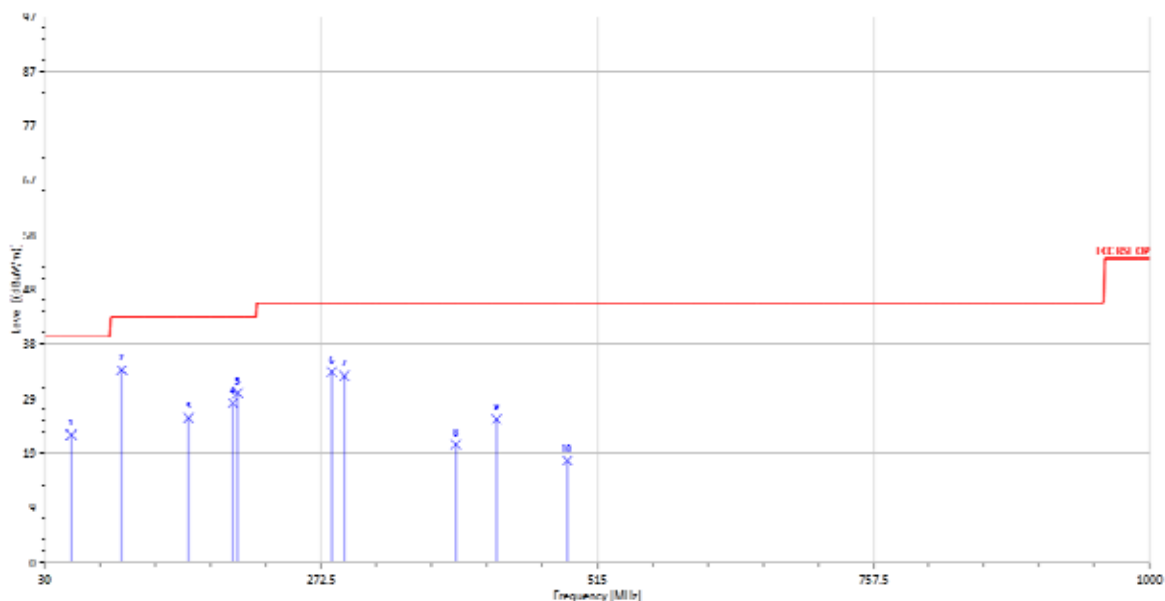
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Operation Band :FM
Fundamental Frequency :97.8MHz
Operation Mode :TX MID
EUT Pol. :E2 Plane

Test Date :2015-11-09
Temp./Humi. :23.0 deg_C/60 RH
Engineer :Pony
Measurement Antenna Pol. :VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
Mode			Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
53.28	Peak	S	49.12	-26.52	22.61	40.00	-17.39
97.90	Peak	S	58.30	-24.19	34.11	43.50	-9.39
156.10	Peak	S	48.52	-22.90	25.62	43.50	-17.88
195.60	Peak	H	51.93	-23.66	28.27	43.50	-15.23
199.75	Peak	S	53.33	-23.28	30.05	43.50	-13.45
282.20	Peak	S	53.37	-19.61	33.76	46.00	-12.24
293.40	Peak	H	52.43	-19.37	33.07	46.00	-12.93
391.20	Peak	H	37.05	-16.20	20.85	46.00	-25.15
426.73	Peak	S	40.90	-15.51	25.39	46.00	-20.61
489.00	Peak	H	32.14	-14.16	17.99	46.00	-28.01

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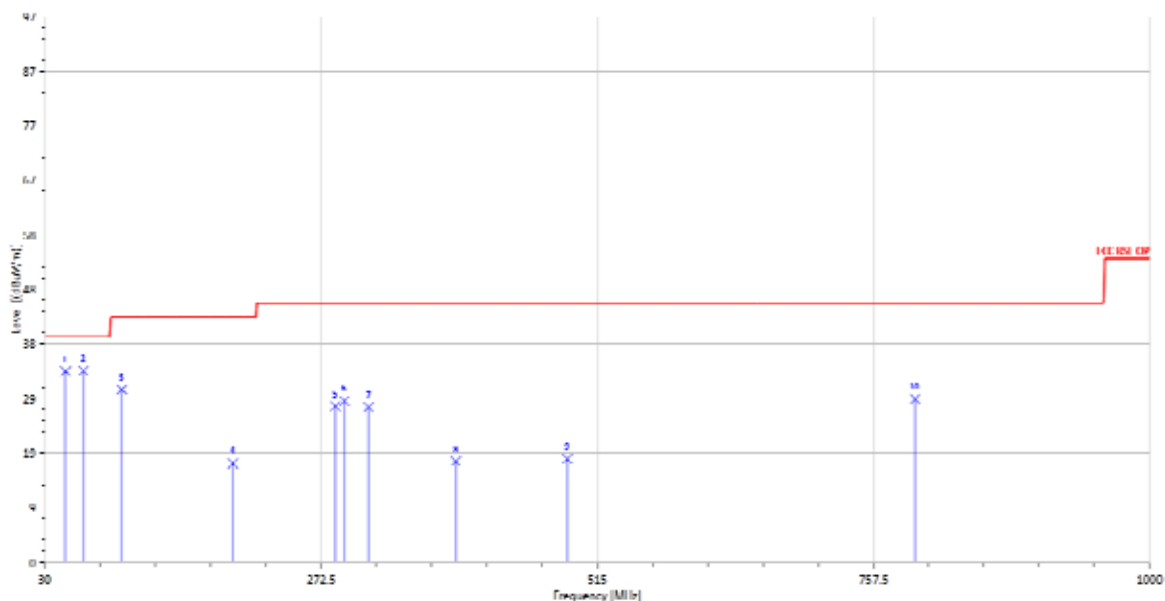
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:97.8MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:TX MID	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
Mode			Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
48.43	Peak	S	58.41	-24.55	33.86	40.00	-6.14
63.95	Peak	S	62.17	-28.21	33.96	40.00	-6.04
97.90	Peak	S	54.82	-24.19	30.64	43.50	-12.86
195.60	Peak	H	41.14	-23.66	17.48	43.50	-26.02
285.34	Peak	S	47.22	-19.53	27.69	46.00	-18.31
293.40	Peak	S	48.02	-19.37	28.65	46.00	-17.35
314.21	Peak	S	46.12	-18.62	27.49	46.00	-18.51
391.20	Peak	H	34.06	-16.20	17.86	46.00	-28.14
489.00	Peak	H	32.46	-14.16	18.30	46.00	-27.70
794.36	Peak	S	38.71	-9.71	29.00	46.00	-17.00

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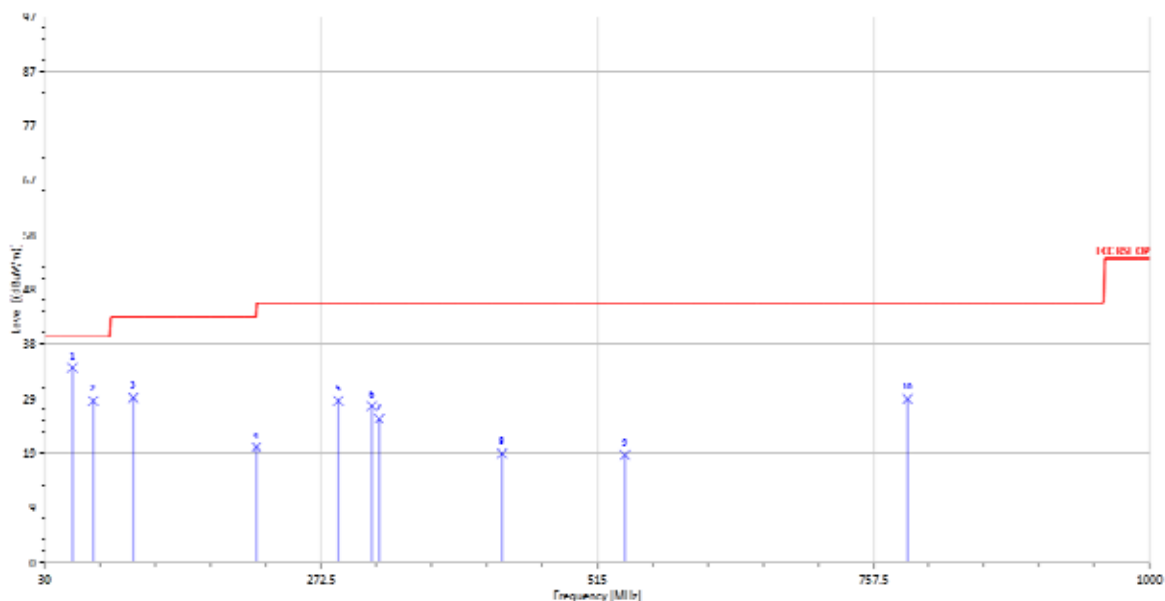
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:107.9MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:TX HIGH	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
Mode			Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
54.25	Peak	S	61.33	-26.79	34.53	40.00	-5.47
72.68	Peak	S	56.21	-27.54	28.66	40.00	-11.34
107.60	Peak	S	51.91	-22.68	29.22	43.50	-14.28
215.80	Peak	H	43.38	-22.96	20.42	43.50	-23.08
288.02	Peak	S	48.13	-19.45	28.69	46.00	-17.31
317.12	Peak	S	46.24	-18.54	27.70	46.00	-18.30
323.70	Peak	H	43.97	-18.54	25.44	46.00	-20.56
431.60	Peak	H	34.62	-15.34	19.28	46.00	-26.72
539.50	Peak	H	32.32	-13.30	19.02	46.00	-26.98
787.57	Peak	S	38.95	-9.93	29.02	46.00	-16.98

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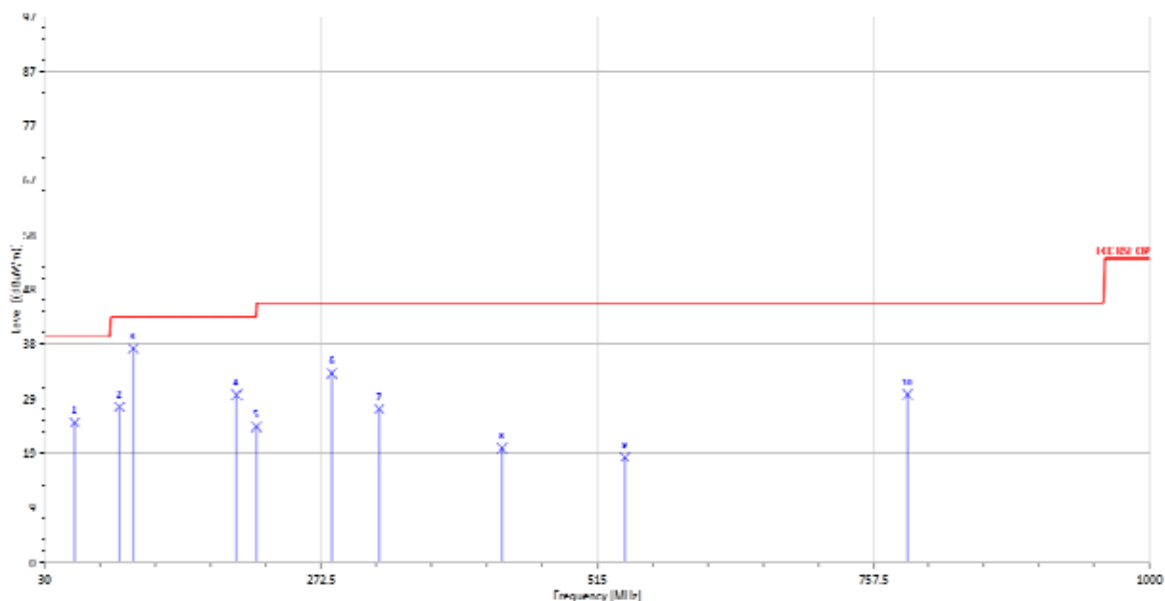
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Operation Band	:FM	Test Date	:2015-11-09
Fundamental Frequency	:107.9MHz	Temp./Humi.	:23.0 deg_C/60 RH
Operation Mode	:TX HIGH	Engineer	:Pony
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Frequency	Detector	Note	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
Mode			Level				
MHz	PK/QP/AV	F/H/E/S	dBuV/m	dB	dBuV/m	dBuV/m	dB
56.19	Peak	S	52.09	-27.33	24.76	40.00	-15.24
95.96	Peak	S	52.10	-24.54	27.56	43.50	-15.94
107.60	Peak	S	60.62	-22.68	37.94	43.50	-5.56
198.78	Peak	S	53.07	-23.37	29.71	43.50	-13.79
215.80	Peak	H	46.99	-22.96	24.03	43.50	-19.47
282.20	Peak	S	53.13	-19.61	33.51	46.00	-12.49
323.70	Peak	H	45.72	-18.54	27.18	46.00	-18.82
431.60	Peak	H	35.55	-15.34	20.21	46.00	-25.79
539.50	Peak	H	31.91	-13.30	18.60	46.00	-27.40
787.57	Peak	S	39.71	-9.93	29.77	46.00	-16.23

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8. 20dB Occupied Bandwidth

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation by FM digital modulation.
3. Set SPA Center Frequency = fundamental frequency, RBW= 10kHz, VBW= 30kHz, Span =300kHz.
4. Set SPA Max hold. Mark RMS detector, -20dB of Spectrum Analyzer.
5. EUT Operating Conditions: The EUT is connected with a USB dongle and playing songs under testing frequency (adjusted to maximum volume) while playing FM radio by a phone on the other side.
6. Note: Because in the event that a 16dB increase cannot be achieved, the level of the tone shall be set to the EUT maximum rated input to the modulator.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016

8.4 Measurement Results

Frequency	OBW (kHz)
88.1MHz	77.1
97.8MHz	68.7
107.9MHz	73.8

Please refer to next page for test plots.

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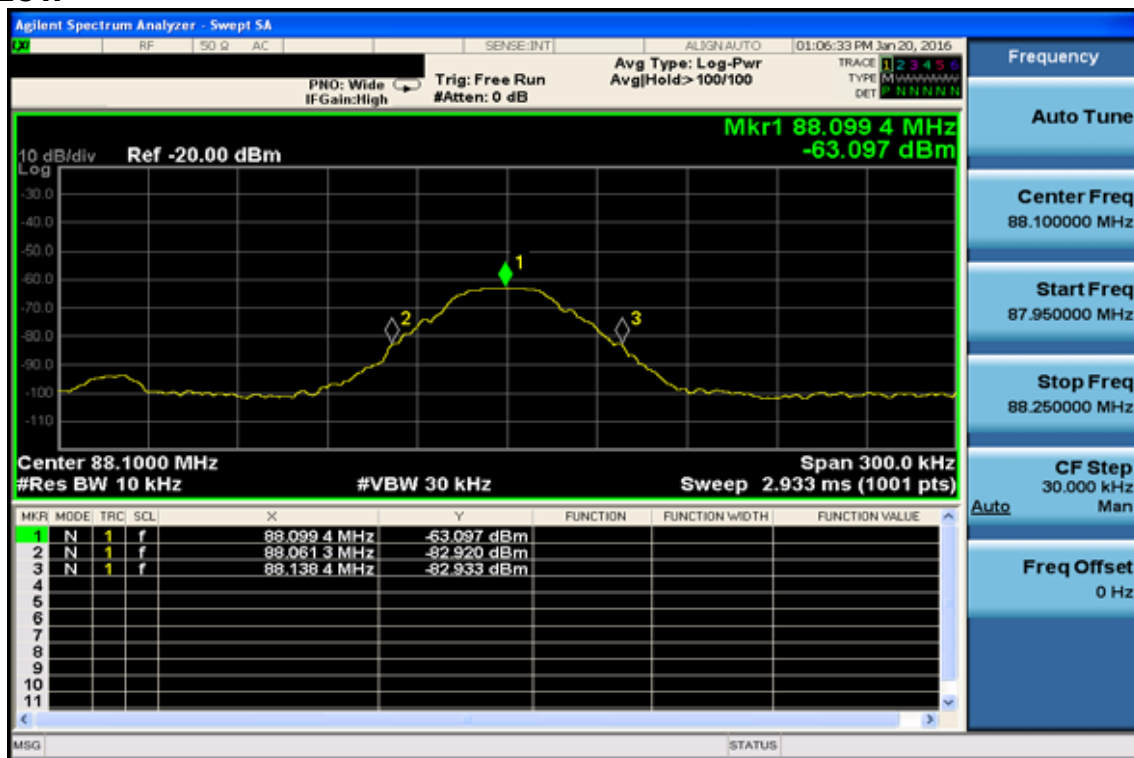
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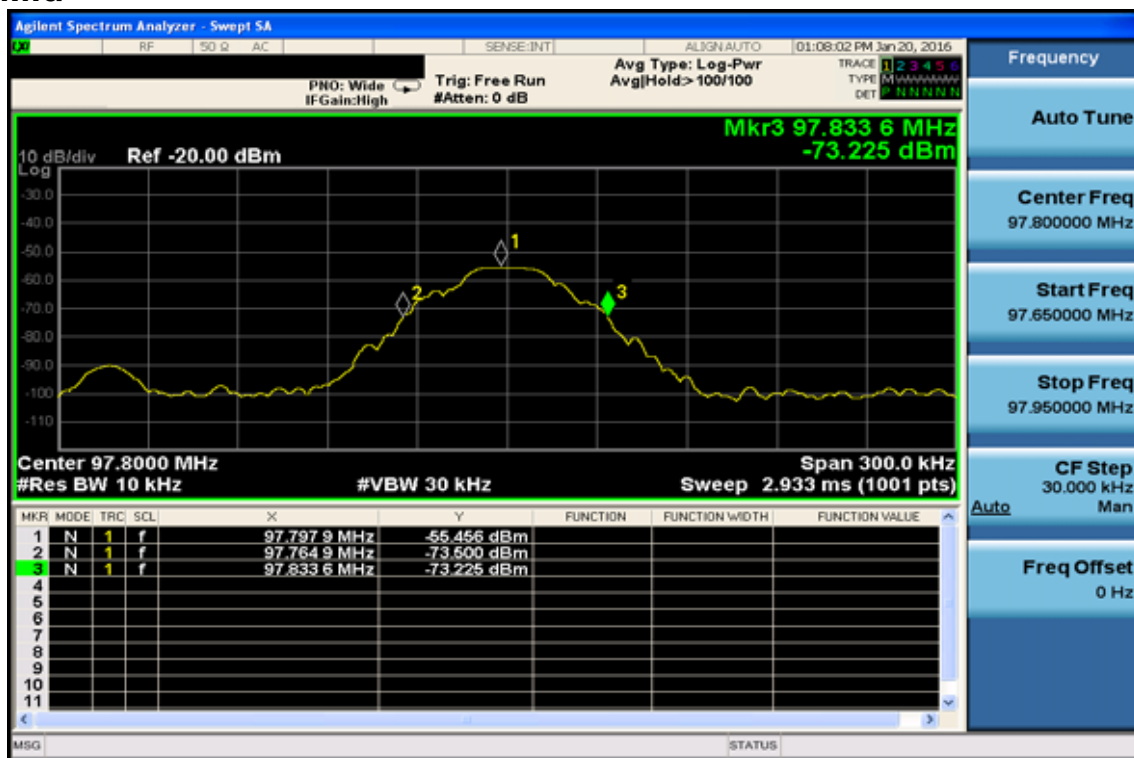
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CH Low



CH Mid



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CH High



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9. Antenna Requirement

9.1 Standard Applicable

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

9.2 Antenna Connected Construction

A wire antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement.
Please see EUT photo for details.

~ End of Report ~

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