



FCC PART 90 TEST REPORT

For

Kirisun Communications Co., Ltd.

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FCC ID: Q5ETP62001

Report Type: Original Report	Product Type: DMR Two Way Radio
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Report Number: <u>RDG150428002-00</u>	
Report Date: <u>2015-05-07</u>	
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TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S).....	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §1.1310 & §2.1093 - RF EXPOSURE.....	8
APPLICABLE STANDARD	8
TEST RESULT	8
FCC §2.1046§90.205- RF OUTPUT POWER.....	9
APPLICABLE STANDARD	9
TEST PROCEDURE	9
TEST EQUIPMENT LIST AND DETAILS.....	9
TEST DATA	9
FCC §2.1047 & §90.207 - MODULATION CHARACTERISTIC.....	11
APPLICABLE STANDARD	11
TEST PROCEDURE	11
TEST EQUIPMENT LIST AND DETAILS.....	11
TEST DATA	11
FCC §2.1049 &§90.209 & §90.210 – OCCUPIED BANDWIDTH & EMISSION MASK.....	15
APPLICABLE STANDARD	15
TEST EQUIPMENT LIST AND DETAILS.....	16
TEST PROCEDURE	16
TEST DATA	16
FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS.....	22
APPLICABLE STANDARD	22
TEST EQUIPMENT LIST AND DETAILS.....	22
TEST PROCEDURE	23
TEST DATA	23
FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS	26
APPLICABLE STANDARD	26
TEST EQUIPMENT LIST AND DETAILS.....	26
TEST PROCEDURE	26
TEST DATA	27
FCC §2.1055 & §90.213- FREQUENCY STABILITY.....	28
APPLICABLE STANDARD	28
TEST EQUIPMENT LIST AND DETAILS.....	28
TEST PROCEDURE	28

TEST DATA	28
FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR.....	30
APPLICABLE STANDARD	30
TEST EQUIPMENT LIST AND DETAILS.....	30
TEST PROCEDURE	30
TEST DATA	31

FINAL

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Kirisun Communications Co. ,Ltd.*'s product, model: *TP620 (FCC ID: Q5ETP62001)* (the "EUT") in this report is a *DMR Two Way Radio*, which was measured approximately: 22.2 cm (H) x 5.9 cm (W) x 5cm (T), rated input voltage: DC 7.4V from lithium battery or DC 12V charging from adapter.

Adapter Information:

Model: BSC60-120100

Input: AC100-240V, 50/60Hz, 0.5A, MAX

Output: DC 12V, 1.0A

** All measurement and test data in this report was gathered from production sample serial number: 7053140800002(Assigned by applicant). The EUT was received on 2015-04-30.*

Objective

This test report is prepared on behalf of *Kirisun Communications Co. ,Ltd.* in accordance with Part 2 and Part 90 of the Federal Communications Commission rules.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 90 – Private Land Mobile Radio Service

Applicable Standards: TIA 603-D and ANSI 63.4-2003.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

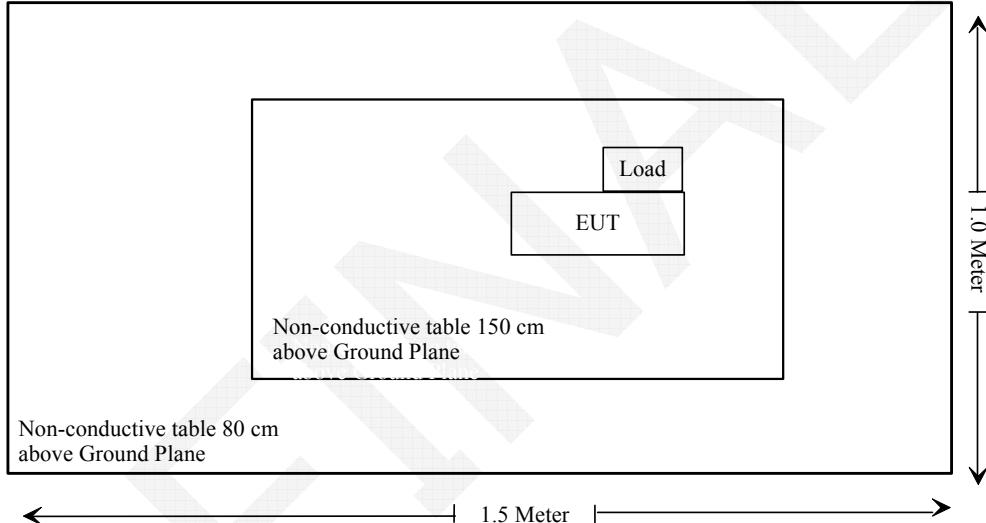
Description of Test Configuration

The system was configured for testing in a test mode.

EUT Specification:

Operating Frequency Band	136 -174 MHz
Modulation Mode	FM/4FSK
Channel Separation	12.5 kHz
Rated Output Power	High power level: 5 W Low power level: 1 W

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§2.1093	RF Exposure	Compliant
§2.1046;§90.205	RF Output Power	Compliant
§2.1047;§90.207	Modulation Characteristic	Compliant
§2.1049;§90.209;§90.210	Occupied Bandwidth & Emission Mask	Compliant
§2.1051;§90.210	Spurious Emission at Antenna Terminal	Compliant
§2.1053;§90.210	Spurious Radiated Emissions	Compliant
§2.1055;§90.213	Frequency Stability	Compliant
§90.214	Transient Frequency Behavior	Compliant

FCC §1.1310 & §2.1093 - RF EXPOSURE

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliance, please refer to the SAR report: RDG150428002-20A

FINAL

FCC §2.1046§90.205- RF OUTPUT POWER

Applicable Standard

FCC §2.1046 and §90.205.

Test Procedure

Conducted RF Output Power:

TIA-603-D section 2.2.1

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Spectrum Analyzer setting:

RBW	VBW
100 kHz	300 kHz

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	56 %
ATM Pressure:	100.3kPa

The testing was performed by Dean Liu on 2015-05-04.

Test Result: Compliant. Please refer to following tables.

Modulation mode	Channel Separation	f_c MHz	Conducted Output Power		Note
			High	Low	
			W	W	
FM	12.5 kHz	136.0125	4.92	1.02	Not for FCC Review
		155.0125	4.93	1.04	/
		173.9875	4.91	1.02	/
		136.0125	4.83	1.01	Not for FCC Review
		155.0125	4.91	0.99	/
		173.9875	4.92	1.01	/

FCC §2.1047 & §90.207 - MODULATION CHARACTERISTIC

Applicable Standard

FCC§2.1047 & §90.207:

- (a) Equipment which utilizes voice modulated communication shall show the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz. for equipment which is required to have a low pass filter, the frequency response of the filter, or all of the circuitry installed between the modulation limited and the modulated stage shall be supplied.
- (b) Equipment which employs modulation limiting, a curve showing the percentage of modulation versus the modulation input voltage shall be supplied.

Test Procedure

Test Method: TIA/EIA-603 2.2.3

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
HP	RF Communications Test Set	8920A	00 235	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	25.3°C
Relative Humidity:	56 %
ATM Pressure:	100.4 kPa

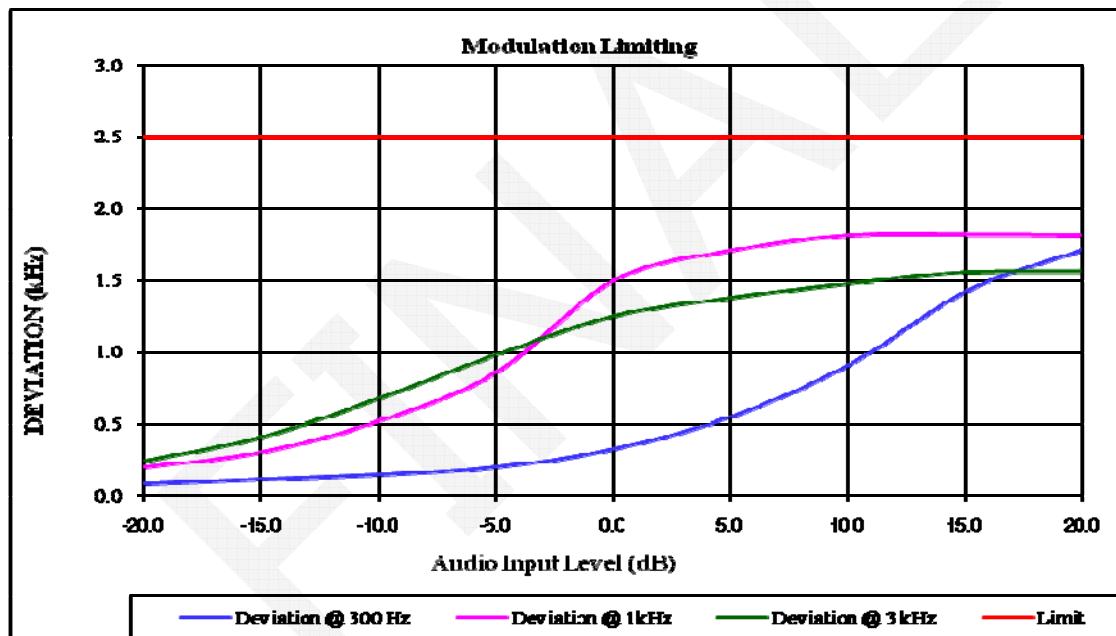
The testing was performed by Dean Liu on 2015-05-04.

Test Result: Compliant. Please refer to following table and plots.

MODULATION LIMITING

Carrier Frequency: 155.0125 MHz, Channel Separation = 12.5 kHz, high power level

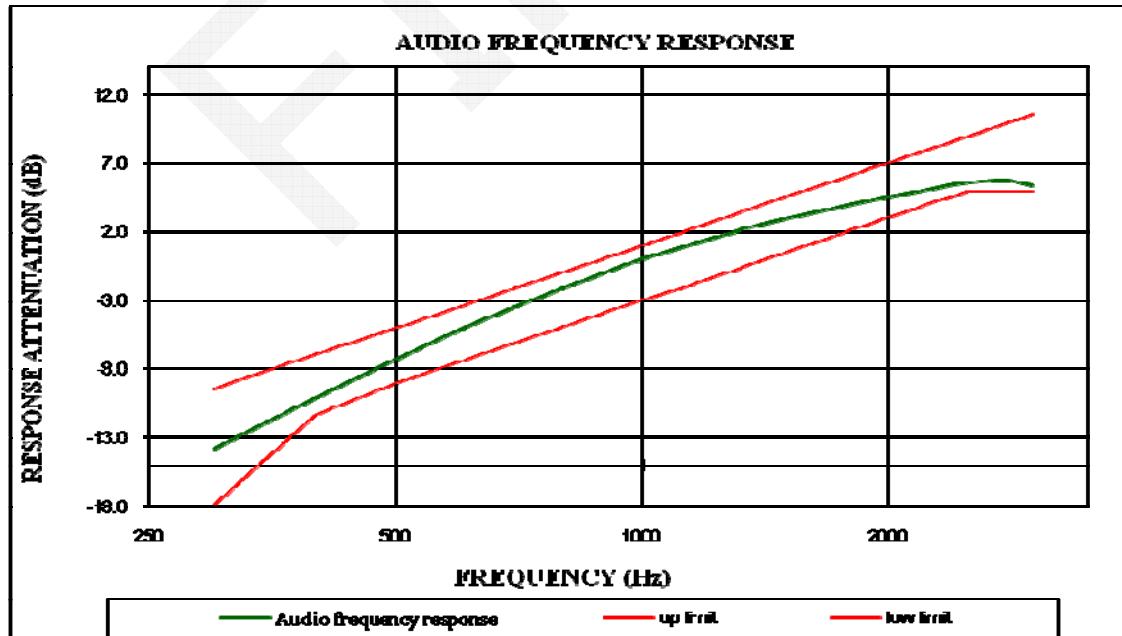
AUDIO INPUT LEVEL dB	DEVIATION (@300Hz)	DEVIATION (@ 1kHz)	DEVIATION (@ 3kHz)	Limit kHz
	kHz	kHz	kHz	
20.0	1.713	1.815	1.563	2.5
15.0	1.424	1.818	1.556	2.5
10.0	0.905	1.809	1.479	2.5
5.0	0.543	1.707	1.382	2.5
0.0	0.320	1.500	1.252	2.5
-5.0	0.198	0.852	0.978	2.5
-10.0	0.146	0.513	0.670	2.5
-15.0	0.113	0.302	0.401	2.5
-20.0	0.086	0.198	0.241	2.5



Audio Frequency Response

Carrier Frequency: 155.0125 MHz, Channel Separation = 12.5 kHz, high power level

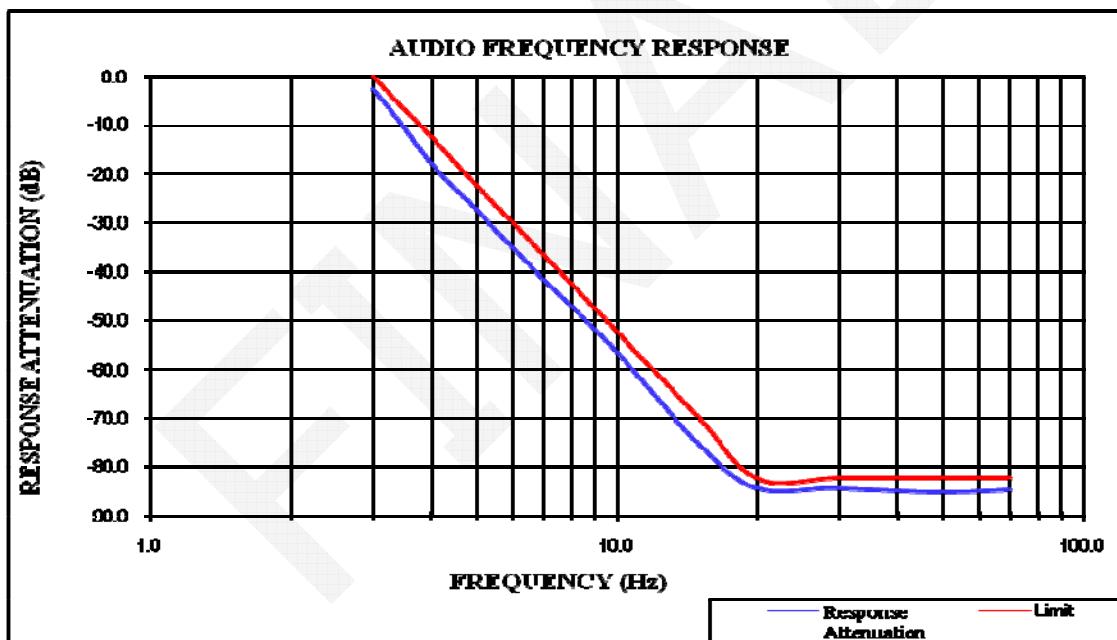
Audio Frequency	Response Attenuation
Hz	dB
300	-13.76
400	-10.07
500	-7.31
600	-5.15
700	-3.45
800	-2.12
900	-0.95
1000	0.00
1200	1.43
1400	2.53
1600	3.33
1800	3.99
2000	4.54
2200	4.96
2400	5.43
2600	5.65
2800	5.71
3000	5.31



Audio Frequency Low Pass Filter Response

Carrier Frequency: 155.0125 MHz, Channel Separation = 12.5 kHz, high power level

Audio Frequency kHz	Response Attenuation dB	Limit dB
3.0	-2.5	0.0
3.5	-10.3	-6.7
4.0	-17.8	-12.5
5.0	-27.2	-22.2
7.0	-41.8	-36.8
10.0	-56.4	-52.3
15.0	-75.5	-69.9
20.0	-84.4	-82.5
30.0	-84.4	-82.5
50.0	-85.0	-82.5
70.0	-84.7	-82.5



FCC §2.1049 &§90.209 & §90.210 – OCCUPIED BANDWIDTH & EMISSION MASK

Applicable Standard

FCC §2.1049,§90.209 and §90.210

Applicable Emission Masks

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter
Below 25	A or B	A or C
25-50	B	C
72-76	B	C
150-174	B, D, or E	C, D or E
150 paging only	B	C
220-222	F	F
421-512	B, D, or E	C, D, or E
450 paging only	B	G
806-809/851-854	B	H
809-824/854-869	B	G
896-901/935-940	I	J
902-928	K	K
929-930	B	G
4940-4990 MHz	L or M	L or M
5850-5925		
All other bands	B	C

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88)$ dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
HP	RF Communications Test Set	8920A	00 235	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

Test Data

Environmental Conditions

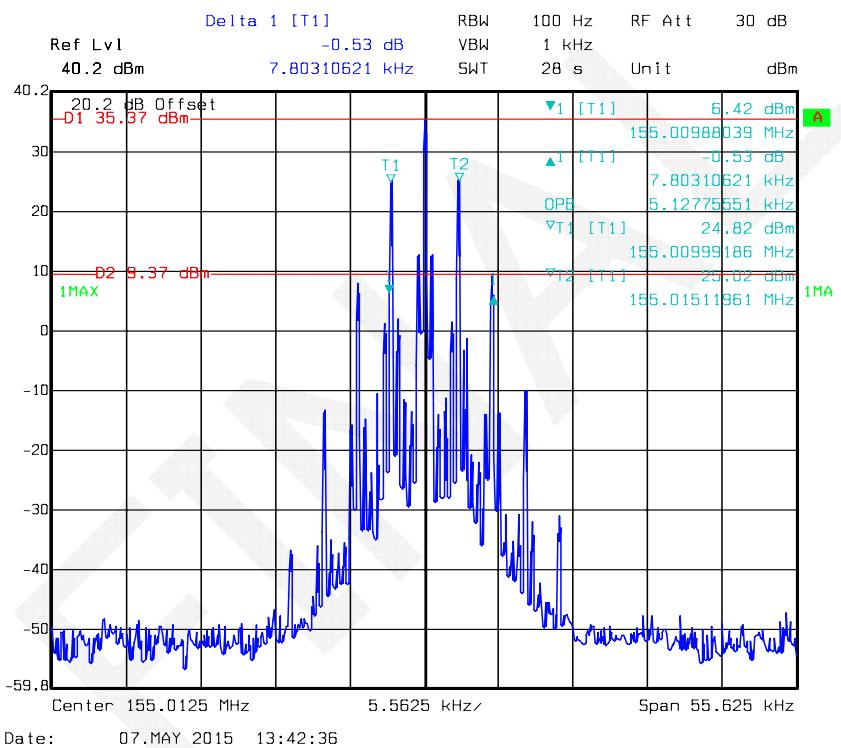
Temperature:	25.4°C
Relative Humidity:	58 %
ATM Pressure:	100.6 kPa

The testing was performed by Dean Liu on 2015-04-30.

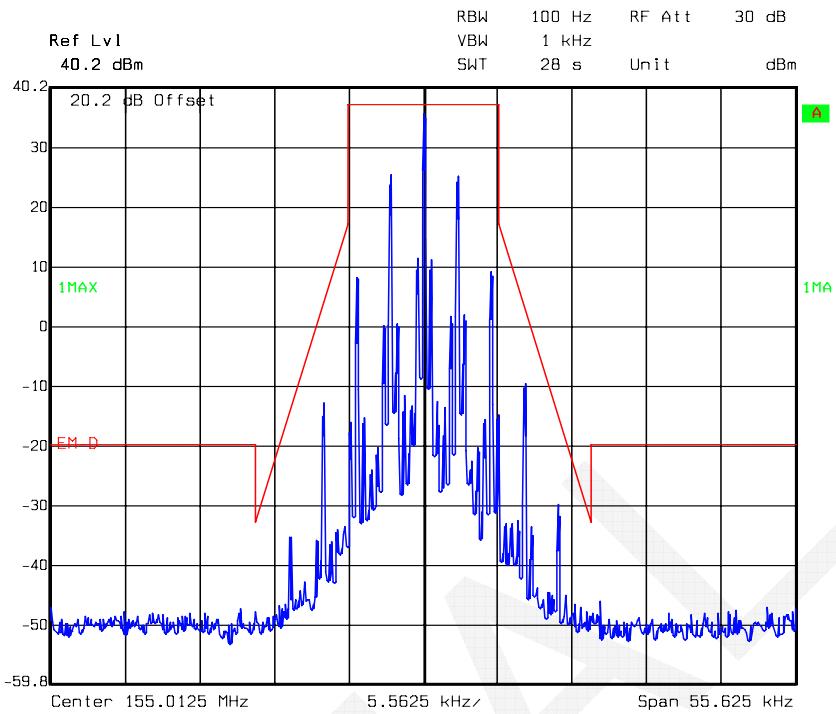
Test Result: Compliant. Please refer to the following tables and plots.

Modulation Mode	Channel Separation		f _c kHz	26 dB Bandwidth kHz	99% Occupied Bandwidth kHz	Power Level	
	kHz	MHz					
FM	12.5	155.0125	7.80	5.13	High	High	
4FSK			10.03	7.47			
FM			7.80	5.24	Low		
4FSK			10.03	7.58			

Occupied Bandwidth – FM, 155.0125 MHz, High Power Level

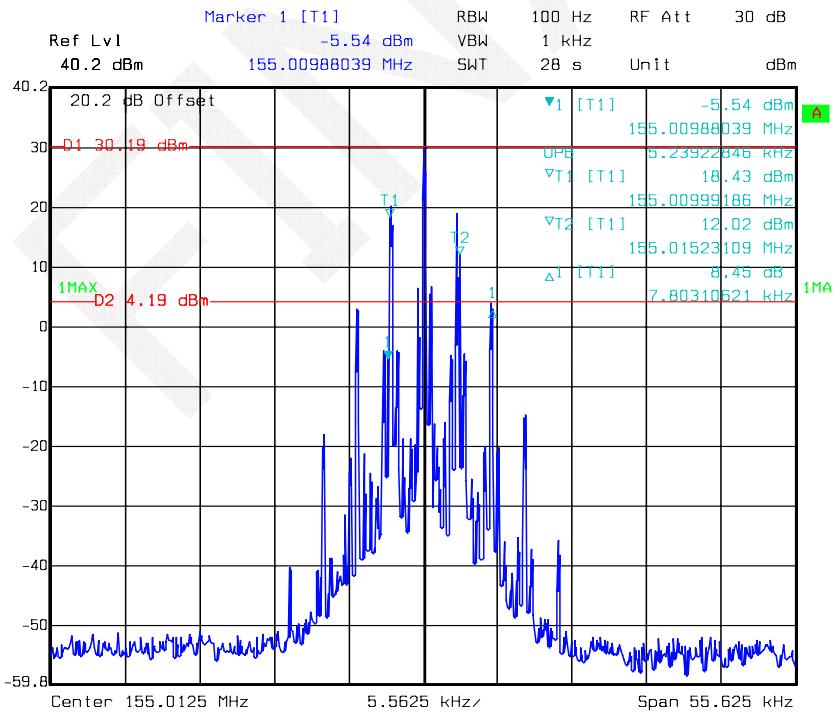


Emission Mask - Type D

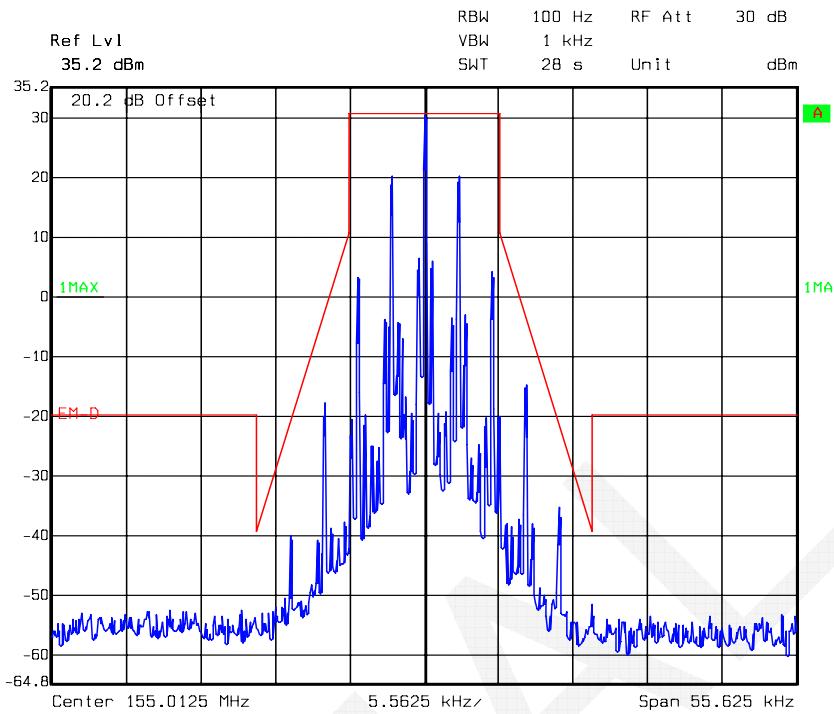


Date: 30.APR.2015 16:43:25

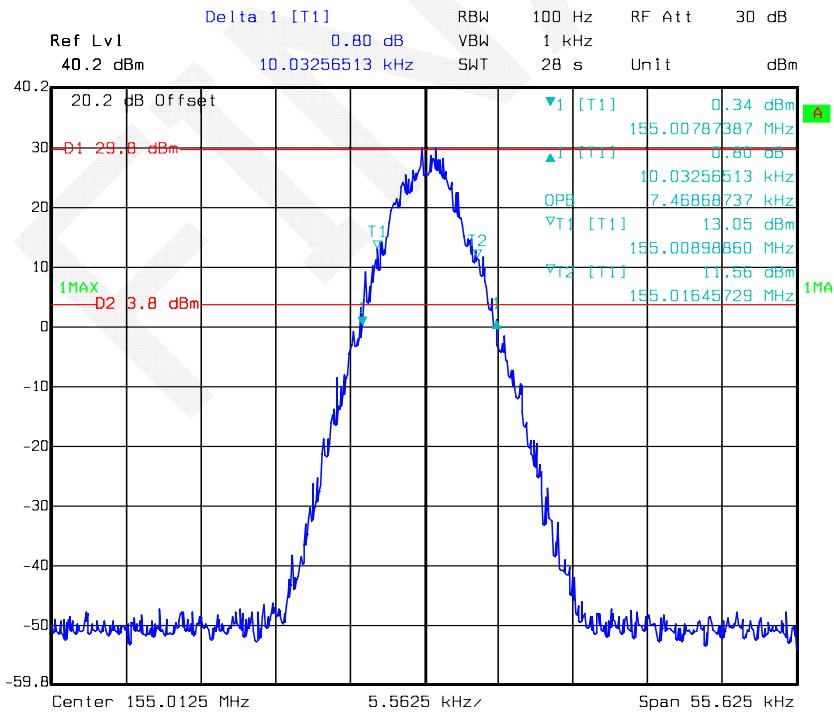
Occupied Bandwidth – FM, 155.0125 MHz, Low Power Level



Date: 07.MAY 2015 13:48:22

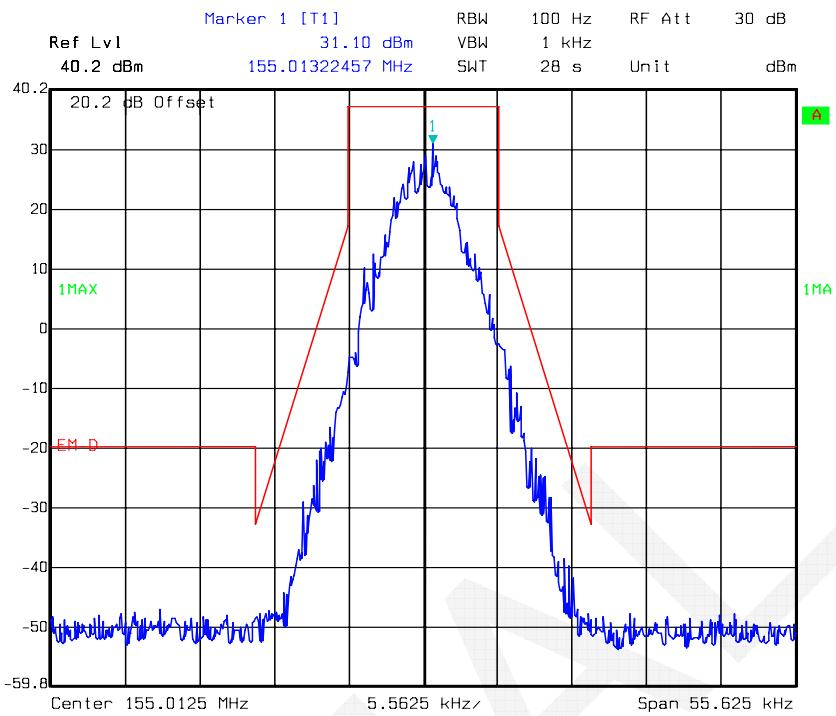
Emission Mask - Type D

Date: 30.APR.2015 16:50:06

Occupied Bandwidth -4FSK, 155.0125 MHz, High Power Level

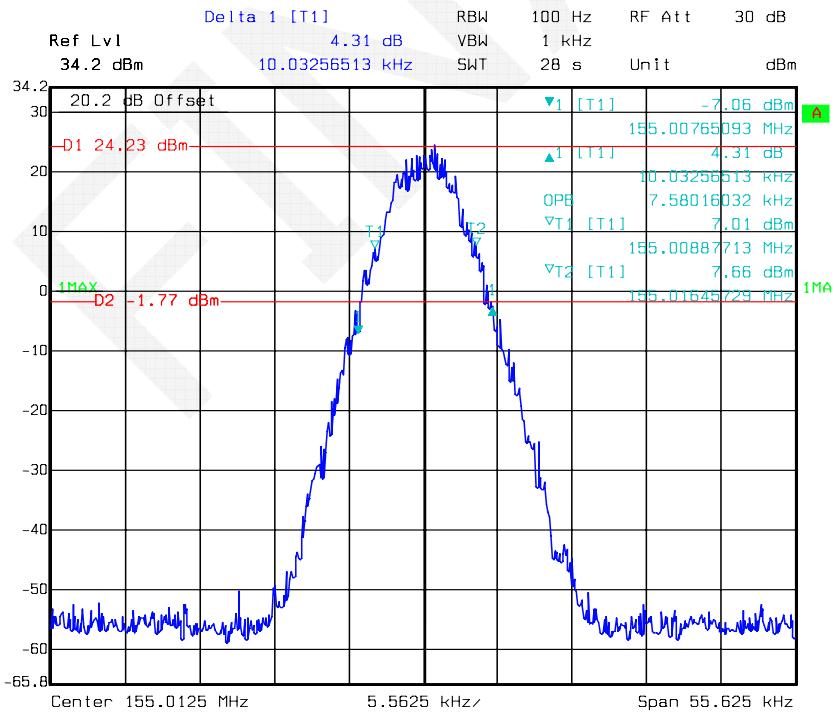
Date: 30.APR.2015 16:34:15

Emission Mask - Type D

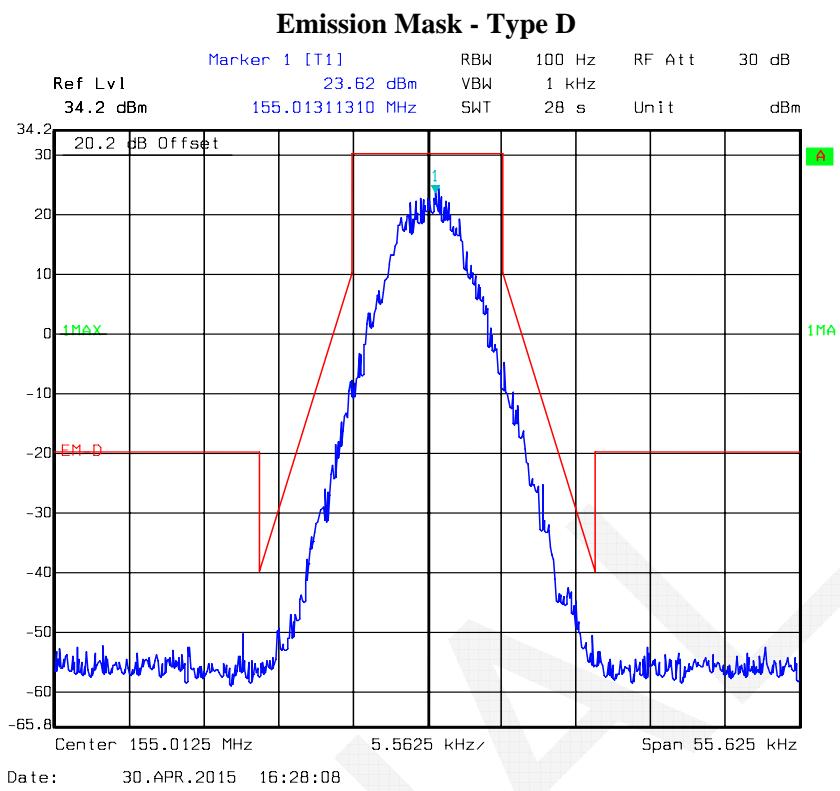


Date: 30.APR.2015 16:24:36

Occupied Bandwidth – 4FSK, 155.0125 MHz, Low Power Level



Date: 30.APR.2015 16:30:23



FCC §2.1051 & §90.210 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

Emission Mask D—12.5 kHz channel bandwidth equipment. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log (P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
HP	RF Communications Test Set	8920A	00 235	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Adjust the spectrum analyzer for the following settings:

- 1) Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
- 2) Video Bandwidth ≥ 3 times the resolution bandwidth.
- 3) Sweep Speed ≤ 2000 Hz per second.
- 4) Detector Mode = RMS or average power.

Test Data

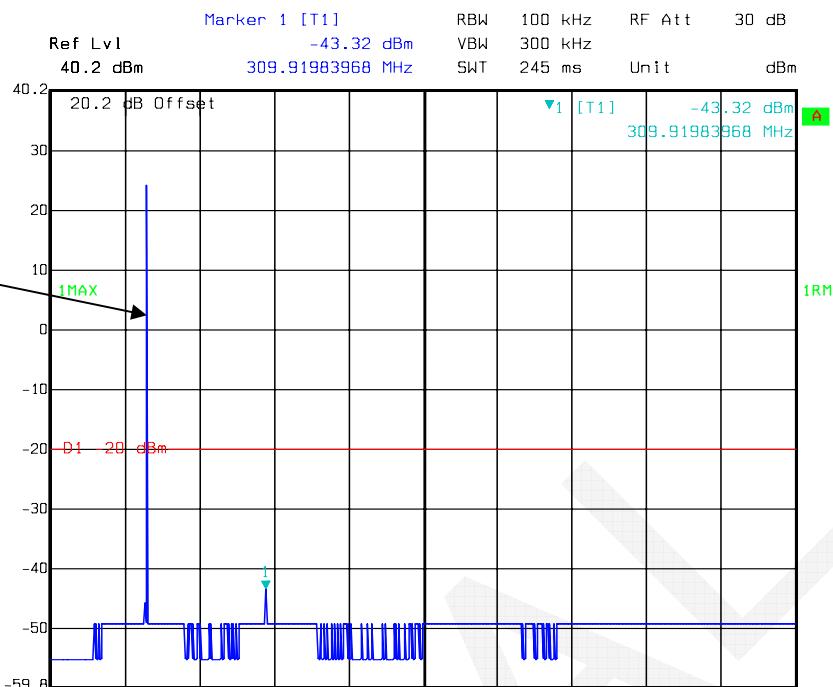
Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	59%
ATM Pressure:	100.3 kPa

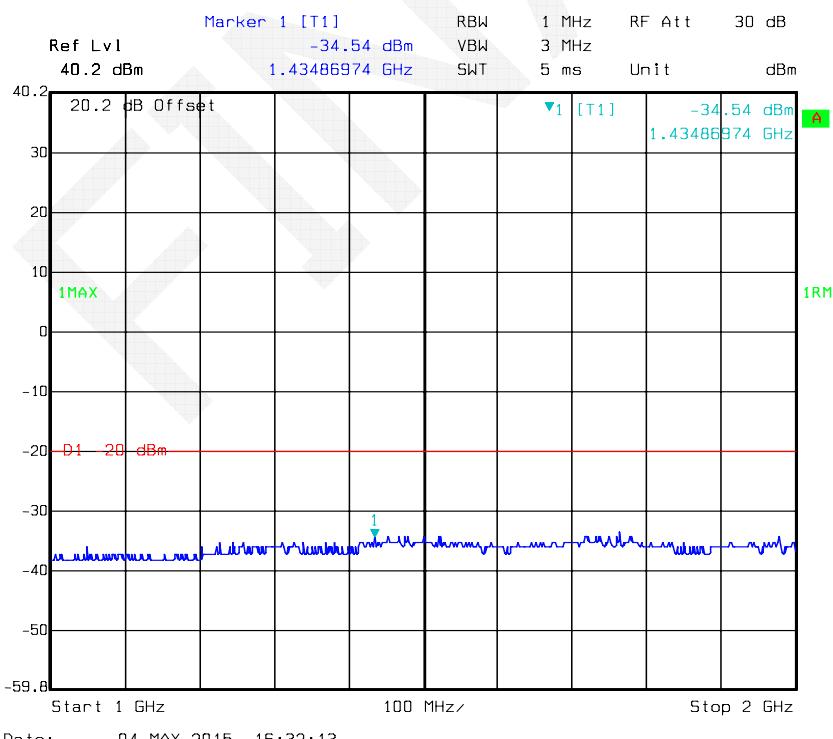
The testing was performed by Dean Liu on 2015-05-05.

Note: For conducted spurious emissions were tested at high rated power, which was the worst case. And there was a band reject filter between the EUT and test equipment when testing.

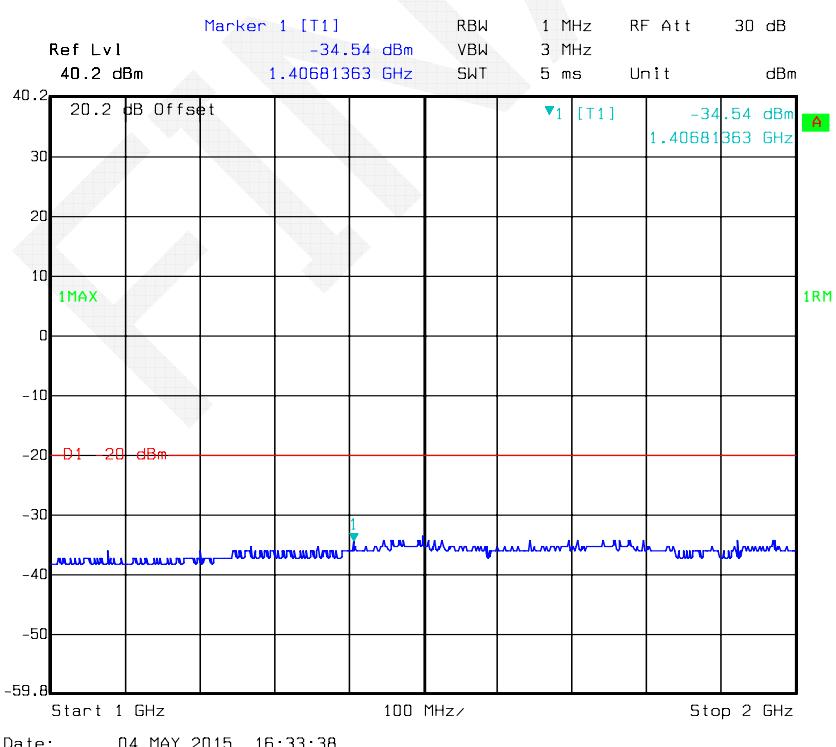
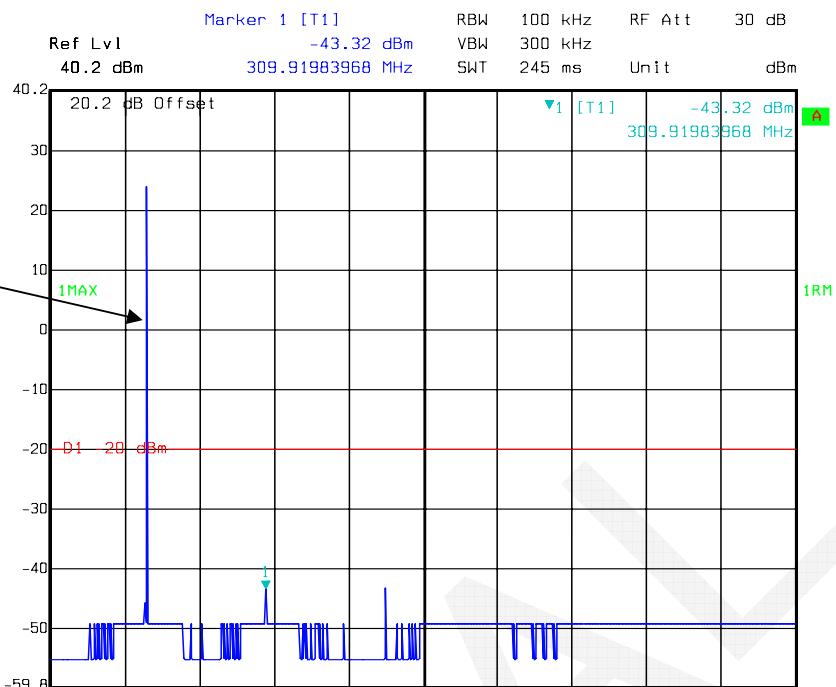
155.0125 MHz -FM Mode,High Power



Fundamental test
with Band Reject
Filter



155.0125 MHz -4FSK Mode,High Power



FCC §2.1053 & §90.210 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §2.1053 and §90.210

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
HP	Signal Generator	8648A	3426A00831	2013-11-06	2014-11-06
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Agilent	Signal Generator	E8247C	MY43321350	2014-10-16	2015-10-16
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
TDK RF	Horn Antenna	HRN-0118	130 084	2012-09-06	2015-09-06
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

For part 90:

Spurious emissions in dB = $10 \log_{10} (\text{TXpwr in Watts}/0.001)$ - the absolute level

Spurious attenuation limit in dB = $50 + 10 \log_{10}$ (power out in Watts) for EUT with a 12.5 kHz channel bandwidth.

Test Data

Environmental Conditions

Temperature:	25.6 °C
Relative Humidity:	65 %
ATM Pressure:	100.3 kPa

The testing was performed by Dean Liu on 2015-05-05.

Test Mode: Transmitting (FM mode, high power level)

Frequency	Polar	S.A. Reading	S.G. Level	Antenna Gain	Cable Loss	Absolute Level	Limit	Margin
MHz	H/V	dB μ V	dBm	dBd/dBi	dB	dBm	dBm	dB
Frequency: 155.0125 MHz								
310.0250	H	27.09	-57.6	0.0	0.5000	-58.1	-20.0	38.1
465.0375	H	25.69	-55.6	0.0	0.7000	-56.3	-20.0	36.3
620.0500	H	24.10	-55.0	0.0	0.8000	-55.8	-20.0	35.8
1085.0875	H	32.12	-40.7	7.5	1.1000	-34.3	-20.0	14.3
310.0250	V	30.43	-52.5	0.0	0.5000	-53.0	-20.0	33.0
465.0375	V	24.37	-53.9	0.0	0.7000	-54.6	-20.0	34.6
620.0500	V	25.14	-51.4	0.0	0.8000	-52.2	-20.0	32.2
1085.0875	V	32.48	-40.9	7.5	1.1000	-34.5	-20.0	14.5

Test Mode: Transmitting (4FSK mode, high power level)

Frequency	Polar	S.A. Reading	S.G. Level	Antenna Gain	Cable Loss	Absolute Level	Limit	Margin
MHz	H/V	dB μ V	dBm	dBd/dBi	dB	dBm	dBm	dB
Frequency: 155.0125 MHz								
310.0250	H	20.12	-64.5	0.0	0.5000	-65.0	-20.0	45.0
465.0375	H	29.28	-52	0.0	0.7000	-52.7	-20.0	32.7
620.0500	H	22.36	-56.7	0.0	0.8000	-57.5	-20.0	37.5
1085.0875	H	32.18	-40.6	7.5	1.1000	-34.2	-20.0	14.2
310.0250	V	24.99	-57.9	0.0	0.5000	-58.4	-20.0	38.4
465.0375	V	23.36	-54.9	0.0	0.7000	-55.6	-20.0	35.6
620.0500	V	20.35	-56.2	0.0	0.8000	-57.0	-20.0	37.0
1084.9875	V	32.44	-40.9	7.5	1.1000	-34.5	-20.0	14.5

Note1: For radiated spurious emissions were tested at high rated power, which was the worst case.

Note2: The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.

Note3: Absolute Level = SG Level - Cable loss + Antenna Gain
Margin = Limit-Absolute Level

FCC §2.1055 & §90.213- FREQUENCY STABILITY

Applicable Standard

FCC §2.1055,§90.213

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09
Dongzhixu	High Temperature Test Chamber	DP1000	201105083-3	2014-08-11	2015-08-11
UNI-T	Multimeter	UT39A	M130199938	2015-04-10	2016-04-10

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to DC power supply and the RF output was connected to a frequency counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The power leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the counter.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

Test Data

Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	59 %
ATM Pressure:	100.3kPa

The testing was performed by Dean Liu on 2015-05-05.

Test Mode: Transmitting

Reference Frequency: 155.0125 MHz, Limit: 5.0 ppm			
Temerature	Voltage	Reading	Frequency Error
°C	V _{DC}	MHz	ppm
-30	7.4	155.012595	0.61
-20	7.4	155.012582	0.53
-10	7.4	155.012574	0.48
0	7.4	155.012565	0.42
10	7.4	155.012568	0.44
20	7.4	155.012563	0.41
30	7.4	155.012564	0.41
40	7.4	155.012571	0.46
50	7.4	155.012566	0.43
20	6.7	155.012553	0.34

Note: The battery operating end point is 6.7V which specified by the manufacturer.

FCC §90.214 - TRANSIENT FREQUENCY BEHAVIOR

Applicable Standard

Regulations: FCC §90.214

Test method: ANSI/TIA-603-D 2010, section 2.2.19.3

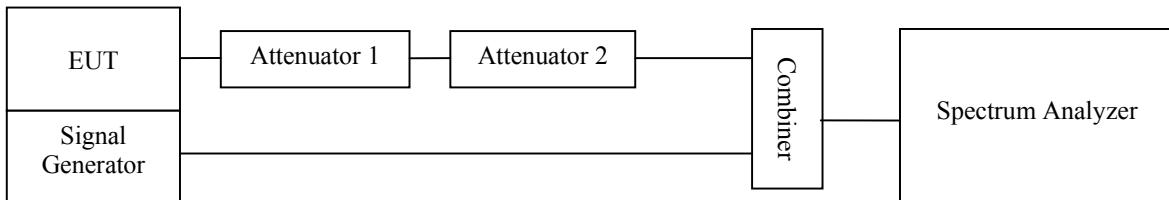
Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
HP	Signal Generator	8648A	3426A00831	2014-11-06	2015-11-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

- a) Connect the EUT and test equipment as shown on the following block diagram.
- b) Set the Spectrum Analyzer to measure FM deviation, and tune the RF frequency to the transmitter assigned frequency.
- c) Set the signal generator to the assigned transmitter frequency and modulate it with a 1 kHz tone at ± 12.5 kHz deviation and set its output level to -100dBm.
- d) Turn on the transmitter.
- e) Supply sufficient attenuation via the RF attenuator to provide an input level to the Spectrum Analyzer that is 40 dB below the maximum allowed input power when the transmitter is operating at its rated power level. Note this power level on the Spectrum Analyzer as P_0 .
- f) Turn off the transmitter.
- g) Adjust the RF level of the signal generator to provide RF power equal to P_0 . This signal generator RF level shall be maintained throughout the rest of the measurement.
- h) Remove the attenuation 1, so the input power to the Spectrum Analyzer is increased by 30 dB when the transmitter is turned on.
- i) Adjust the vertical amplitude control of the spectrum analyzer to display the 1000 Hz at ± 4 divisions vertically centered on the display. Set trigger mode of the Spectrum Analyzer to “Video”, and tune the “trigger level” on suitable level. Then set the “tiger offset” to -10ms for turn on and -15ms for turn off.
- j) Turn on the transmitter and the transient wave will be captured on the screen of Spectrum Analyzer. Observe the stored display. The instant when the 1 kHz test signal is completely suppressed is considered to be t_{on} . The trace should be maintained within the allowed divisions during the period t_1 and t_2 .
- k) Then turn off the transmitter, and another transient wave will be captured on the screen of Spectrum Analyzer. The trace should be maintained within the allowed divisions during the period t_3 .



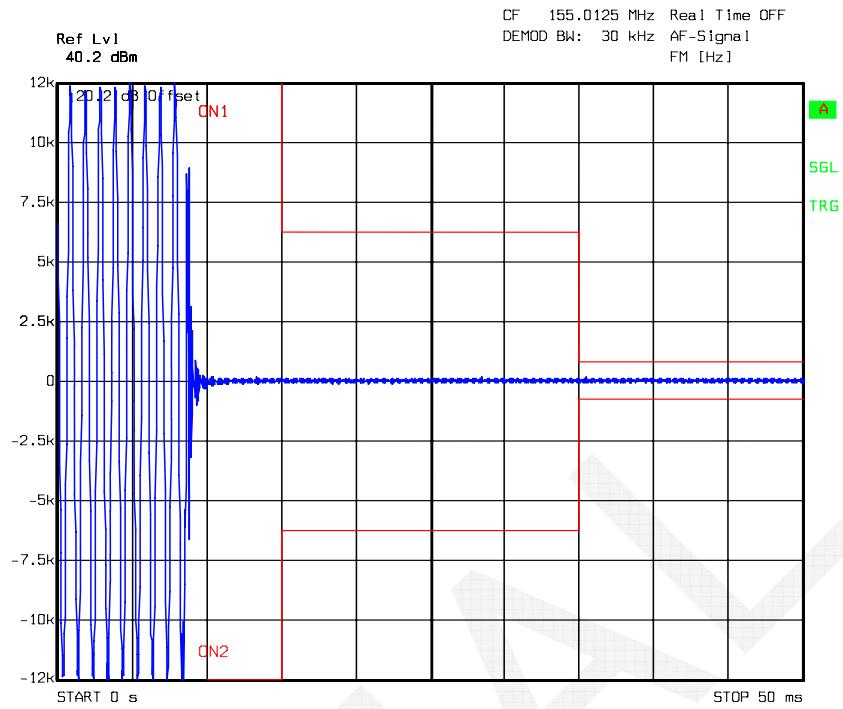
Test Data**Environmental Conditions**

Temperature:	25.3°C
Relative Humidity:	56 %
ATM Pressure:	100.4 kPa

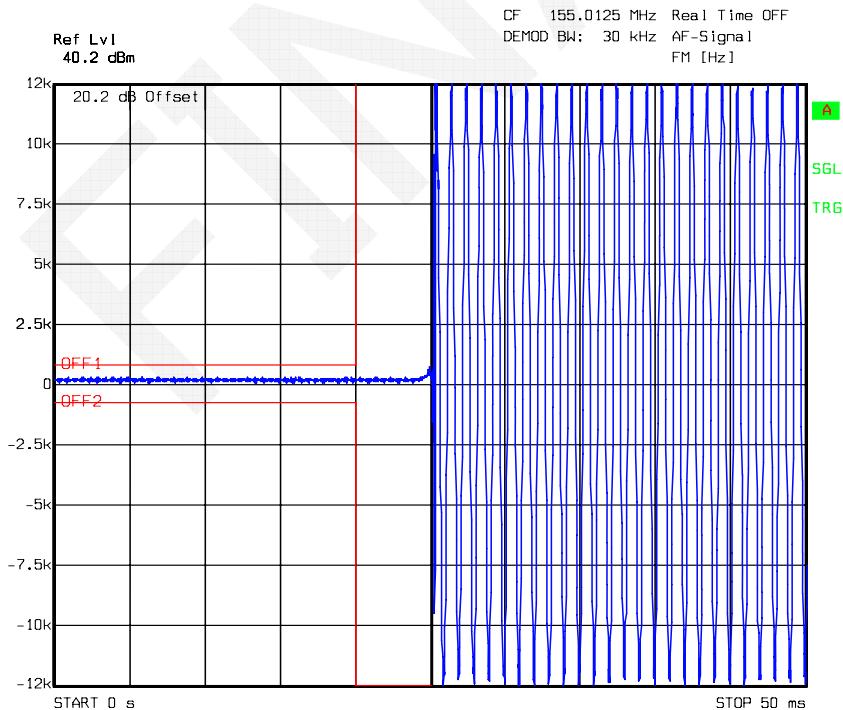
The testing was performed by Dean Liu on 2015-05-04.

Channel Separation (kHz)	Transient Period (ms)	Maximum frequency difference	Result
12.5	<5(t_1)	± 12.5 kHz	Pass
	<20(t_2)	± 6.25 kHz	
	<5(t_3)	± 12.5 kHz	

Please refer to the following plots.

Turn on – 155.0125 MHz, High power level

Date: 04.MAY 2015 17:19:40

Turn off – 155.0125 MHz, High power level

Date: 04.MAY 2015 17:27:21

******* END OF REPORT *******