

Texas Instruments

EMC TEST REPORT FOR

Serializer, DS90UB933-Q1
Deserializer, DS90UB934-Q1

Tested to The Following Standards:

CISPR 25 (2008) and ISO 11452-4 (2005)

Report No.: 99145-4

Date of issue: December 19, 2016



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Texas Instruments
3875 Kifer Rd
Santa Clara, CA 95051

Representative: Darryl Jeong
Customer Reference Number: 4513178287

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

REPORT PREPARED BY:

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

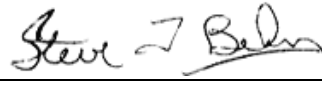
Project Number: 99145

October 7, 2016

October 7 – November 11, 2016

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

A handwritten signature in black ink, reading "Steve Behm", is positioned above a horizontal line.

Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.02
EMITest Immunity	5.03.02

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN
Fremont	US0082	SL2-IN-E-1148R	3082B-1	US1023	A-0149

SUMMARY OF RESULTS

Standard / Specification: CISPR 25 (2008)

Test Procedure	Description	Modifications	Results
6.4	Radiated Emissions – ALSE Method	Mod. #33	PASS

Standard / Specification: ISO 11452-4 (2005)

Test Procedure	Description	Modifications	Results
ISO 11452-4	Bulk Current Injection (BCI)	Mod. #6	Pass

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions
MOD #33: 1m Cable – DACAR462 • Taped up holes (high speed cable) with copper tape on both boxes • Added a bit more copper tape on entrance of Serializer box • Open Box • Powered up SER & DES • Removed camera • Initialized and wrote to a register 0x3E = 0x13 spread spectrum • No camera • OEN = low • Shorted the Y3 Oscillator • Serializer – reg 0x02 wrote 0xC0 • Deserializer – reg 0x14 wrote 0x02, SSCG On, 0x02 = 0xC0 • Measured approximately 129MHz • Programmed 12-bit mode in 100MHz internal oscillator • Turned on SSCG 0x3E=0x13 • Disabled MSP430 • Shorted Y3
MOD #6: 1m Cable – DACAR462 Taped up holes (high speed cable) with copper tape on both boxes. Removed lid off of DES & SER Added more copper tape on entrance of Serializer box.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1 = Configuration A

Equipment Tested:

Device	Manufacturer	Model #	S/N
Deserializer	Texas Instruments	DS90UB934-Q1	None
Serializer	Texas Instruments	DS90UB933-Q1	None

Support Equipment:

Device	Manufacturer	Model #	S/N
12V Battery	DIE HARD	550 CCA M2	None

CISPR 25 EMISSIONS

Section 6.4 – Radiated Emissions

Test Setup / Conditions / Data

Seq. #	Frequency / Test Polarity / Test Condition
	BROADCAST
1	0.15-30MHz / Vertical / Broadcast
14	30-300MHz / Vertical / Broadcast / Mod. 33 in place during testing. / Failing Data
15	30-300MHz / Vertical / Broadcast / Mod. 33 in place during testing. / Failing Data
20	30-300MHz / Vertical / Broadcast / Mod. 33 in place during testing. / Failing Data
23	30-300MHz / Vertical / Broadcast / Mod. 33 in place during testing. / Failing Data
26	30-300MHz / Vertical / Broadcast / Failing Data
27	30-300MHz / Vertical / Broadcast / Failing Data
29	1-2.345GHz / Vertical / Broadcast / AP2 / Mod. 33 in place during testing.
	GPS
21	1.567-1.583 / Vertical / GPS / P1 / Mod. 33 in place during testing.
24	1.567-1.583 / Horizontal / GPS / P1 / Mod. 33 in place during testing.
27	1.567-1.583 / Horizontal / GPS / P2 / Mod. 33 in place during testing.
30	1.567-1.583 / Vertical / GPS / P2 / Mod. 33 in place during testing.
	MOBILE
2	26-30MHz / Vertical / Mobile
10	300MHz-1GHz / Vertical / Mobile / Mod. 33 in place during testing.
11	300MHz-1GHz / Vertical / Mobile / AMBIENT
12	300MHz-1GHz / Horizontal / Mobile / Mod. 33 in place during testing.
13	300MHz-1GHz / Horizontal / Mobile / AMBIENT
19	1-2.5GHz / Vertical / Mobile / P1 / Mod. 33 in place during testing.
22	1-2.5GHz / Horizontal / Mobile / P1 / Mod. 33 in place during testing.
25	1-2.5GHz / Horizontal / Mobile / P2 / Mod. 33 in place during testing.
28	1-2.5GHz / Vertical / Mobile / P2 / Mod. 33 in place during testing.

Note: P1 = Serializer, P2 = Deserializer

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/10/2016
 Test Type: **Radiated Scan** Time: 1:24:40 PM
 Tested By: N. Gamez Sequence#: 1
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

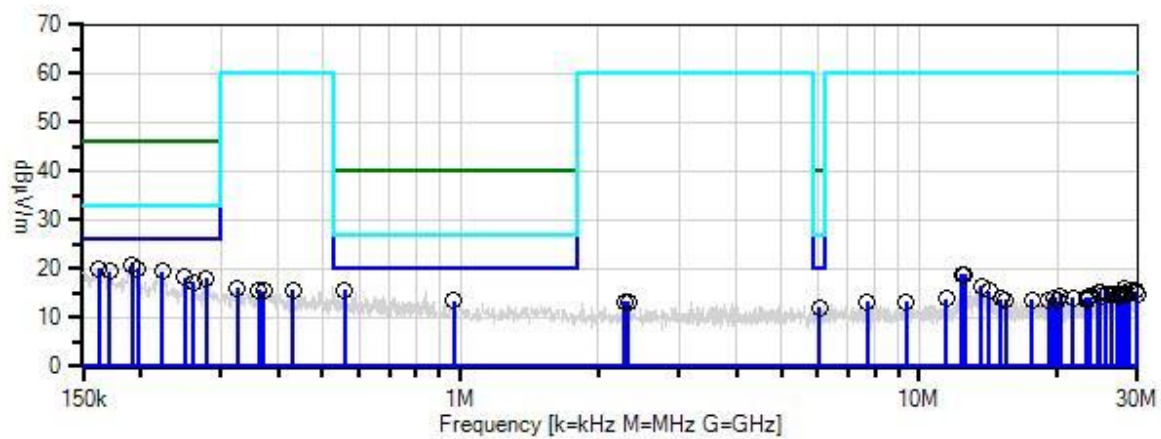
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 0.15-30MHz Broadcast Temperature: 23.7°C Humidity: 49% Atmospheric Pressure: 101.4kPa

Texas Instruments W/O#: 99145 Sequence#: 1 Date: 10/10/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	557.962k	13.7	+0.0	+0.0	+1.9			+0.0	15.6	20.0	-4.4	Vert
2	192.177k	19.0	+0.0	+0.0	+1.9			+0.0	20.9	26.0	-5.1	Vert
3	162.362k	18.1	+0.0	+0.0	+2.0			+0.0	20.1	26.0	-5.9	Vert
4	197.995k	18.2	+0.0	+0.0	+1.9			+0.0	20.1	26.0	-5.9	Vert
5	171.816k	17.6	+0.0	+0.0	+1.9			+0.0	19.5	26.0	-6.5	Vert
6	966.512k	11.5	+0.0	+0.0	+2.0			+0.0	13.5	20.0	-6.5	Vert
7	223.447k	17.5	+0.0	+0.0	+1.9			+0.0	19.4	26.0	-6.6	Vert
8	250.354k	16.4	+0.0	+0.0	+1.9			+0.0	18.3	26.0	-7.7	Vert
9	6.076M	8.7	+0.1	+0.1	+3.2			+0.0	12.1	20.0	-7.9	Vert
10	278.715k	16.1	+0.0	+0.0	+1.9			+0.0	18.0	26.0	-8.0	Vert
11	261.262k	15.3	+0.0	+0.0	+1.9			+0.0	17.2	26.0	-8.8	Vert
12	12.418M	14.3	+0.1	+0.1	+4.5			+0.0	19.0	60.0	-41.0	Vert
13	12.607M	14.2	+0.1	+0.1	+4.5			+0.0	18.9	60.0	-41.1	Vert
14	13.688M	11.6	+0.1	+0.1	+4.7			+0.0	16.5	60.0	-43.5	Vert
15	326.711k	14.2	+0.0	+0.0	+1.9			+0.0	16.1	60.0	-43.9	Vert
16	28.033M	7.0	+0.1	+0.2	+8.6			+0.0	15.9	60.0	-44.1	Vert
17	363.071k	13.9	+0.0	+0.0	+1.9			+0.0	15.8	60.0	-44.2	Vert
18	430.701k	13.9	+0.0	+0.0	+1.9			+0.0	15.8	60.0	-44.2	Vert

19	28.746M	6.5	+0.1	+0.2	+8.8	+0.0	15.6	60.0	-44.4	Vert
20	372.525k	13.6	+0.0	+0.0	+1.9	+0.0	15.5	60.0	-44.5	Vert
21	14.184M	10.5	+0.1	+0.1	+4.8	+0.0	15.5	60.0	-44.5	Vert
22	29.740M	6.1	+0.1	+0.2	+9.1	+0.0	15.5	60.0	-44.5	Vert
23	24.559M	7.4	+0.1	+0.2	+7.5	+0.0	15.2	60.0	-44.8	Vert
24	24.868M	7.3	+0.1	+0.2	+7.6	+0.0	15.2	60.0	-44.8	Vert
25	28.068M	6.0	+0.1	+0.2	+8.6	+0.0	14.9	60.0	-45.1	Vert
26	26.314M	6.6	+0.1	+0.2	+8.0	+0.0	14.9	60.0	-45.1	Vert
27	27.122M	6.3	+0.1	+0.2	+8.3	+0.0	14.9	60.0	-45.1	Vert
28	28.280M	5.7	+0.1	+0.2	+8.7	+0.0	14.7	60.0	-45.3	Vert
29	25.628M	6.5	+0.1	+0.2	+7.8	+0.0	14.6	60.0	-45.4	Vert
30	27.492M	5.9	+0.1	+0.2	+8.4	+0.0	14.6	60.0	-45.4	Vert
31	29.979M	5.1	+0.1	+0.2	+9.2	+0.0	14.6	60.0	-45.4	Vert
32	27.321M	5.8	+0.1	+0.2	+8.4	+0.0	14.5	60.0	-45.5	Vert
33	20.355M	7.7	+0.1	+0.2	+6.4	+0.0	14.4	60.0	-45.6	Vert
34	23.566M	6.7	+0.1	+0.2	+7.3	+0.0	14.3	60.0	-45.7	Vert
35	24.799M	6.4	+0.1	+0.2	+7.6	+0.0	14.3	60.0	-45.7	Vert
36	19.679M	7.6	+0.1	+0.2	+6.2	+0.0	14.1	60.0	-45.9	Vert
37	21.688M	7.0	+0.1	+0.2	+6.8	+0.0	14.1	60.0	-45.9	Vert
38	23.251M	6.5	+0.1	+0.2	+7.2	+0.0	14.0	60.0	-46.0	Vert
39	11.463M	9.4	+0.1	+0.1	+4.3	+0.0	13.9	60.0	-46.1	Vert
40	15.103M	8.7	+0.1	+0.1	+5.0	+0.0	13.9	60.0	-46.1	Vert
41	23.216M	6.4	+0.1	+0.2	+7.2	+0.0	13.9	60.0	-46.1	Vert
42	19.202M	7.3	+0.1	+0.2	+6.1	+0.0	13.7	60.0	-46.3	Vert
43	15.436M	8.2	+0.1	+0.1	+5.2	+0.0	13.6	60.0	-46.4	Vert
44	17.670M	7.6	+0.1	+0.2	+5.7	+0.0	13.6	60.0	-46.4	Vert

45	23.203M	6.1	+0.1	+0.2	+7.2	+0.0	13.6	60.0	-46.4	Vert
46	20.040M	6.9	+0.1	+0.2	+6.3	+0.0	13.5	60.0	-46.5	Vert
47	7.716M	9.7	+0.1	+0.1	+3.5	+0.0	13.4	60.0	-46.6	Vert
48	2.272M	10.8	+0.0	+0.0	+2.5	+0.0	13.3	60.0	-46.7	Vert
49	2.323M	10.8	+0.0	+0.0	+2.5	+0.0	13.3	60.0	-46.7	Vert
50	9.391M	9.2	+0.1	+0.1	+3.9	+0.0	13.3	60.0	-46.7	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/10/2016
 Test Type: **Radiated Scan** Time: 5:21:39 PM
 Tested By: N. Gamez Sequence#: 14
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

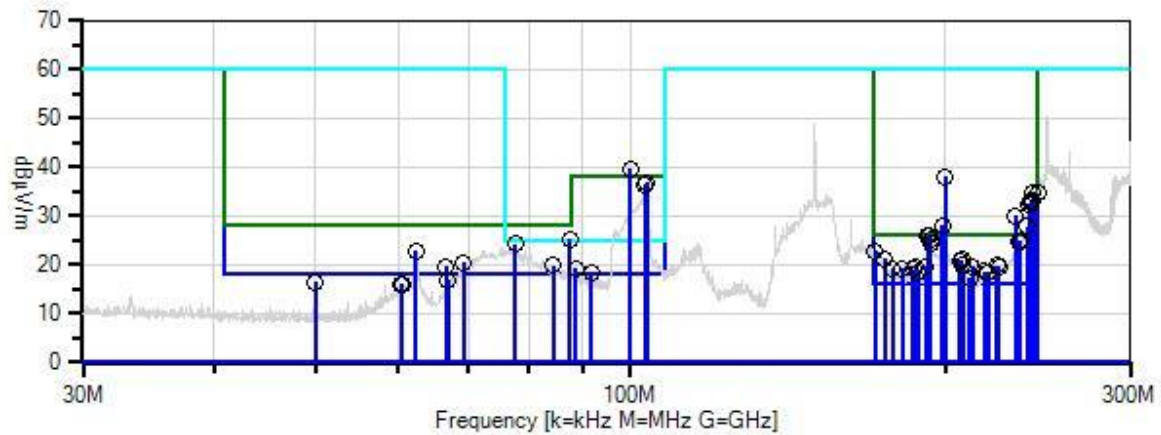
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 23.7°C Humidity: 49% Atmospheric Pressure: 101.4kPa Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 14 Date: 10/10/2016
CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	200.028M	49.1	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	38.1	16.0	+22.1	Vert
2	100.000M	55.8	+0.2 +10.7	+0.4	+0.2	-27.6	+0.0	39.7	18.0	+21.7	Vert
3	242.191M	41.6	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	35.0	16.0	+19.0	Vert
4	103.806M	52.6	+0.2 +11.0	+0.4	+0.2	-27.6	+0.0	36.8	18.0	+18.8	Vert
5	242.431M	41.3	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	34.7	16.0	+18.7	Vert
6	244.833M	41.6	+0.3 +18.7	+0.7	+0.4	-27.0	+0.0	34.7	16.0	+18.7	Vert
7	103.283M	52.3	+0.2 +11.0	+0.4	+0.2	-27.6	+0.0	36.5	18.0	+18.5	Vert
8	241.830M	39.8	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	33.2	16.0	+17.2	Vert
9	241.470M	39.6	+0.3 +19.1	+0.7	+0.4	-27.0	+0.0	33.1	16.0	+17.1	Vert
10	240.989M	39.2	+0.3 +19.1	+0.7	+0.4	-27.0	+0.0	32.7	16.0	+16.7	Vert
11	240.389M	38.9	+0.3 +19.2	+0.7	+0.4	-27.0	+0.0	32.5	16.0	+16.5	Vert
12	233.302M	36.5	+0.3 +19.2	+0.7	+0.4	-27.0	+0.0	30.1	16.0	+14.1	Vert
13	198.587M	39.0	+0.3 +14.9	+0.6	+0.4	-27.1	+0.0	28.1	16.0	+12.1	Vert
14	239.308M	34.2	+0.3 +19.3	+0.7	+0.4	-27.0	+0.0	27.9	16.0	+11.9	Vert
15	192.941M	36.5	+0.3 +15.4	+0.6	+0.4	-27.2	+0.0	26.0	16.0	+10.0	Vert

16	192.341M	36.2	+0.3 +15.5	+0.6	+0.4	-27.2	+0.0	25.8	16.0	+9.8	Vert
17	193.422M	35.9	+0.3 +15.3	+0.6	+0.4	-27.2	+0.0	25.3	16.0	+9.3	Vert
18	234.983M	30.9	+0.3 +19.5	+0.7	+0.4	-27.0	+0.0	24.8	16.0	+8.8	Vert
19	235.464M	30.9	+0.3 +19.5	+0.7	+0.4	-27.0	+0.0	24.8	16.0	+8.8	Vert
20	193.662M	35.2	+0.3 +15.3	+0.6	+0.4	-27.2	+0.0	24.6	16.0	+8.6	Vert
21	87.614M	41.8	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	25.2	18.0	+7.2	Vert
22	171.079M	34.1	+0.3 +15.0	+0.6	+0.3	-27.3	+0.0	23.0	16.0	+7.0	Vert
23	77.691M	40.8	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	24.3	18.0	+6.3	Vert
24	174.923M	31.7	+0.3 +15.8	+0.6	+0.3	-27.3	+0.0	21.4	16.0	+5.4	Vert
25	207.115M	32.2	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	21.0	16.0	+5.0	Vert
26	62.417M	38.7	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	22.9	18.0	+4.9	Vert
27	206.275M	32.1	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	20.9	16.0	+4.9	Vert
28	207.596M	31.3	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	20.1	16.0	+4.1	Vert
29	223.932M	28.8	+0.3 +16.8	+0.7	+0.4	-27.1	+0.0	19.9	16.0	+3.9	Vert
30	191.380M	30.0	+0.3 +15.6	+0.6	+0.4	-27.2	+0.0	19.7	16.0	+3.7	Vert
31	225.013M	28.3	+0.3 +17.1	+0.7	+0.4	-27.1	+0.0	19.7	16.0	+3.7	Vert
32	187.416M	29.4	+0.3 +16.1	+0.6	+0.4	-27.2	+0.0	19.6	16.0	+3.6	Vert
33	212.401M	30.6	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	19.6	16.0	+3.6	Vert
34	178.167M	29.0	+0.3 +16.3	+0.6	+0.3	-27.3	+0.0	19.2	16.0	+3.2	Vert
35	181.770M	28.7	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	19.2	16.0	+3.2	Vert
36	186.335M	28.8	+0.3 +16.2	+0.6	+0.4	-27.2	+0.0	19.1	16.0	+3.1	Vert
37	69.259M	36.7	+0.2 +10.8	+0.3	+0.2	-27.6	+0.0	20.6	18.0	+2.6	Vert
38	217.806M	28.8	+0.3 +15.5	+0.7	+0.4	-27.1	+0.0	18.6	16.0	+2.6	Vert
39	219.728M	28.3	+0.3 +15.9	+0.7	+0.4	-27.1	+0.0	18.5	16.0	+2.5	Vert
40	187.896M	28.3	+0.3 +16.0	+0.6	+0.4	-27.2	+0.0	18.4	16.0	+2.4	Vert
41	188.377M	28.4	+0.3 +15.9	+0.6	+0.4	-27.2	+0.0	18.4	16.0	+2.4	Vert

42	84.331M	36.5	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	19.9	18.0	+1.9	Vert
43	66.648M	35.4	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	19.6	18.0	+1.6	Vert
44	210.839M	28.5	+0.3 +14.7	+0.6	+0.4	-27.1	+0.0	17.4	16.0	+1.4	Vert
45	88.734M	35.8	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	19.2	18.0	+1.2	Vert
46	91.718M	34.8	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	18.3	18.0	+0.3	Vert
47	66.946M	32.6	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	16.8	18.0	-1.2	Vert
48	49.983M	32.6	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	16.5	18.0	-1.5	Vert
49	60.546M	31.9	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	16.1	18.0	-1.9	Vert
50	60.408M	31.8	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	16.0	18.0	-2.0	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/11/2016
 Test Type: **Radiated Scan** Time: 8:28:51 AM
 Tested By: N. Gamez Sequence#: 15
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

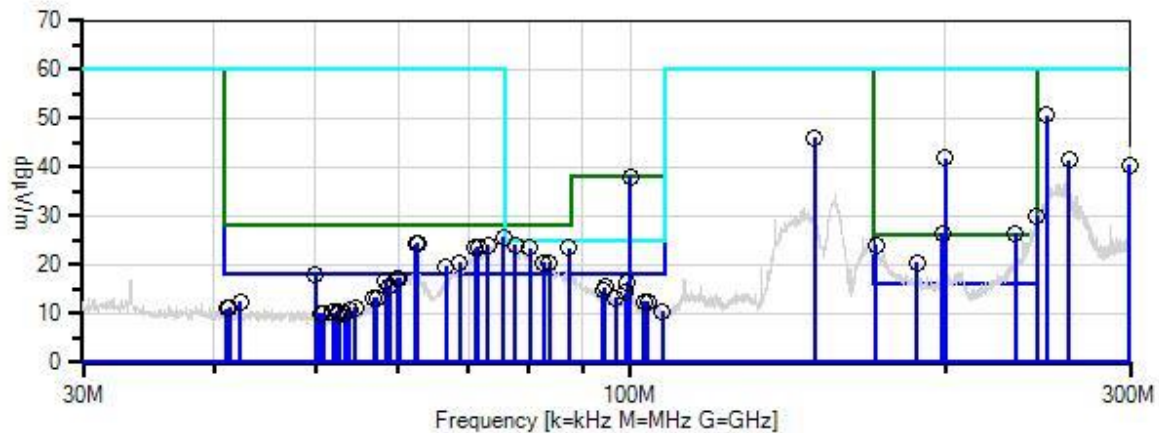
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 20.4°C Humidity: 50% Atmospheric Pressure: 101.5kPa Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 15 Date: 10/11/2016
CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	200.028M	52.9	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	41.9	16.0	+25.9	Vert
2	100.000M	54.2	+0.2 +10.7	+0.4	+0.2	-27.6	+0.0	38.1	18.0	+20.1	Vert
3	244.353M	37.0	+0.3 +18.7	+0.7	+0.4	-27.0	+0.0	30.1	16.0	+14.1	Vert
4	198.587M	37.4	+0.3 +14.9	+0.6	+0.4	-27.1	+0.0	26.5	16.0	+10.5	Vert
5	233.302M	32.9	+0.3 +19.2	+0.7	+0.4	-27.0	+0.0	26.5	16.0	+10.5	Vert
6	171.440M	35.0	+0.3 +15.1	+0.6	+0.3	-27.3	+0.0	24.0	16.0	+8.0	Vert
7	75.676M	42.1	+0.2 +10.4	+0.4	+0.2	-27.6	+0.0	25.7	18.0	+7.7	Vert
8	62.624M	40.5	+0.2 +11.1	+0.3	+0.2	-27.7	+0.0	24.6	18.0	+6.6	Vert
9	62.382M	40.1	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	24.3	18.0	+6.3	Vert
10	73.139M	40.5	+0.2 +10.5	+0.4	+0.2	-27.7	+0.0	24.1	18.0	+6.1	Vert
11	77.691M	40.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	24.1	18.0	+6.1	Vert
12	71.498M	39.8	+0.2 +10.7	+0.4	+0.2	-27.7	+0.0	23.6	18.0	+5.6	Vert
13	71.050M	39.8	+0.2 +10.7	+0.3	+0.2	-27.7	+0.0	23.5	18.0	+5.5	Vert
14	80.153M	40.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	23.5	18.0	+5.5	Vert
15	87.391M	40.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	23.5	18.0	+5.5	Vert

16	187.656M	30.3	+0.3 +16.0	+0.6	+0.4	-27.2	+0.0	20.4	16.0	+4.4	Vert
17	68.737M	36.5	+0.2 +10.9	+0.3	+0.2	-27.6	+0.0	20.5	18.0	+2.5	Vert
18	83.660M	37.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	20.5	18.0	+2.5	Vert
19	82.541M	37.0	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	20.4	18.0	+2.4	Vert
20	66.648M	35.4	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	19.6	18.0	+1.6	Vert
21	50.018M	34.0	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	17.9	18.0	-0.1	Vert
22	59.923M	33.1	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	17.3	18.0	-0.7	Vert
23	60.200M	33.1	+0.2 +11.2	+0.3	+0.2	-27.7	+0.0	17.3	18.0	-0.7	Vert
24	58.330M	32.7	+0.2 +11.1	+0.3	+0.2	-27.7	+0.0	16.8	18.0	-1.2	Vert
25	99.254M	32.7	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	16.5	18.0	-1.5	Vert
26	58.919M	31.5	+0.2 +11.1	+0.3	+0.2	-27.7	+0.0	15.6	18.0	-2.4	Vert
27	94.554M	31.8	+0.2 +10.4	+0.4	+0.2	-27.6	+0.0	15.4	18.0	-2.6	Vert
28	94.255M	31.0	+0.2 +10.4	+0.4	+0.2	-27.6	+0.0	14.6	18.0	-3.4	Vert
29	98.881M	30.5	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	14.3	18.0	-3.7	Vert
30	56.841M	29.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	13.3	18.0	-4.7	Vert
31	57.291M	29.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	13.3	18.0	-4.7	Vert
32	96.867M	29.5	+0.2 +10.5	+0.4	+0.2	-27.6	+0.0	13.2	18.0	-4.8	Vert
33	103.134M	28.4	+0.2 +11.0	+0.4	+0.2	-27.6	+0.0	12.6	18.0	-5.4	Vert
34	103.955M	28.2	+0.2 +11.1	+0.4	+0.2	-27.6	+0.0	12.5	18.0	-5.5	Vert
35	42.399M	28.2	+0.2 +11.4	+0.3	+0.1	-27.8	+0.0	12.4	18.0	-5.6	Vert
36	41.394M	27.0	+0.2 +11.5	+0.3	+0.1	-27.8	+0.0	11.3	18.0	-6.7	Vert
37	54.589M	27.3	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	11.2	18.0	-6.8	Vert
38	41.117M	26.8	+0.2 +11.5	+0.3	+0.1	-27.8	+0.0	11.1	18.0	-6.9	Vert
39	53.931M	26.9	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	10.8	18.0	-7.2	Vert
40	107.387M	25.8	+0.2 +11.5	+0.4	+0.2	-27.6	+0.0	10.5	18.0	-7.5	Vert
41	52.511M	26.5	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	10.4	18.0	-7.6	Vert

42	52.027M	26.4	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	10.3	18.0	-7.7	Vert
43	50.884M	26.2	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	10.1	18.0	-7.9	Vert
44	50.537M	26.1	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	10.0	18.0	-8.0	Vert
45	52.615M	26.0	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	9.9	18.0	-8.1	Vert
46	53.308M	26.0	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	9.9	18.0	-8.1	Vert
47	249.998M	58.0	+0.3 +18.1	+0.7	+0.4	-26.9	+0.0	50.6	60.0	-9.4	Vert
48	149.938M	59.4	+0.3 +12.9	+0.5	+0.3	-27.4	+0.0	46.0	60.0	-14.0	Vert
49	262.578M	48.8	+0.4 +18.1	+0.7	+0.4	-26.9	+0.0	41.5	60.0	-18.5	Vert
50	299.919M	41.6	+0.4 +24.2	+0.8	+0.5	-26.9	+0.0	40.6	60.0	-19.4	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/11/2016
 Test Type: **Radiated Scan** Time: 11:39:15 AM
 Tested By: N. Gamez Sequence#: 20
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

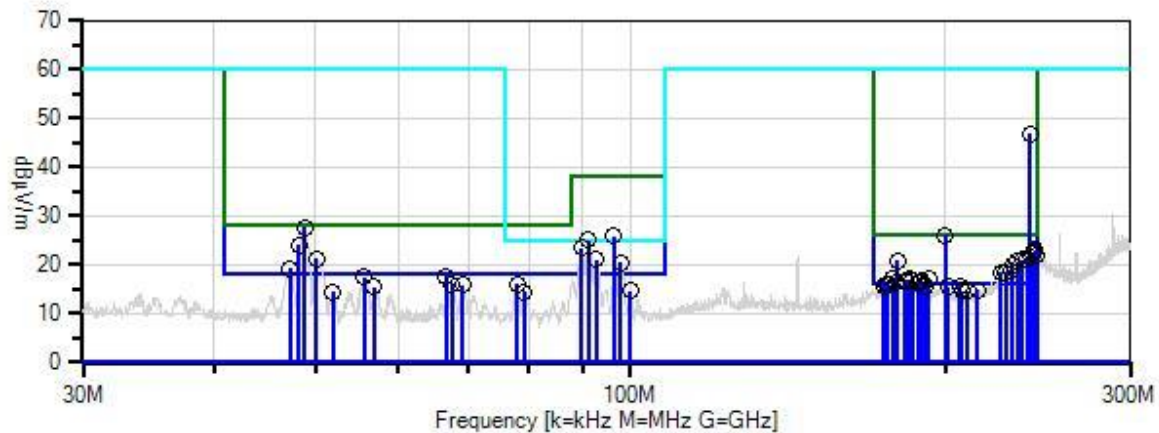
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 20.4°C Humidity: 50% Atmospheric Pressure: 101.5kPa Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 20 Date: 10/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	240.749M	53.3	+0.3 +19.2	+0.7	+0.4	-27.0	+0.0	46.9	16.0	+30.9	Vert
2	200.028M	37.0	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	26.0	16.0	+10.0	Vert
3	48.875M	43.9	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	27.8	18.0	+9.8	Vert
4	96.344M	42.2	+0.2 +10.5	+0.4	+0.2	-27.6	+0.0	25.9	18.0	+7.9	Vert
5	243.392M	29.9	+0.3 +18.8	+0.7	+0.4	-27.0	+0.0	23.1	16.0	+7.1	Vert
6	91.270M	41.5	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	25.0	18.0	+7.0	Vert
7	242.791M	29.3	+0.3 +18.9	+0.7	+0.4	-27.0	+0.0	22.6	16.0	+6.6	Vert
8	242.070M	28.9	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	22.3	16.0	+6.3	Vert
9	48.217M	40.1	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	24.0	18.0	+6.0	Vert
10	244.473M	28.9	+0.3 +18.7	+0.7	+0.4	-27.0	+0.0	22.0	16.0	+6.0	Vert
11	89.778M	40.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	23.5	18.0	+5.5	Vert
12	236.545M	27.3	+0.3 +19.4	+0.7	+0.4	-27.0	+0.0	21.1	16.0	+5.1	Vert
13	239.067M	27.4	+0.3 +19.3	+0.7	+0.4	-27.0	+0.0	21.1	16.0	+5.1	Vert
14	179.848M	30.5	+0.3 +16.5	+0.6	+0.3	-27.3	+0.0	20.9	16.0	+4.9	Vert
15	234.263M	26.9	+0.3 +19.4	+0.7	+0.4	-27.0	+0.0	20.7	16.0	+4.7	Vert

16	231.740M	26.7	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	20.1	16.0	+4.1	Vert
17	50.122M	37.4	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	21.3	18.0	+3.3	Vert
18	92.837M	37.5	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	21.0	18.0	+3.0	Vert
19	231.139M	25.3	+0.3 +18.9	+0.7	+0.4	-27.0	+0.0	18.6	16.0	+2.6	Vert
20	97.837M	36.7	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	20.5	18.0	+2.5	Vert
21	225.734M	26.9	+0.3 +17.3	+0.7	+0.4	-27.1	+0.0	18.5	16.0	+2.5	Vert
22	228.377M	25.9	+0.3 +18.2	+0.7	+0.4	-27.0	+0.0	18.5	16.0	+2.5	Vert
23	47.282M	35.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	19.3	18.0	+1.3	Vert
24	178.046M	27.1	+0.3 +16.3	+0.6	+0.3	-27.3	+0.0	17.3	16.0	+1.3	Vert
25	192.701M	27.6	+0.3 +15.4	+0.6	+0.4	-27.2	+0.0	17.1	16.0	+1.1	Vert
26	184.413M	26.6	+0.3 +16.4	+0.6	+0.4	-27.2	+0.0	17.1	16.0	+1.1	Vert
27	183.091M	26.4	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	16.9	16.0	+0.9	Vert
28	185.614M	26.4	+0.3 +16.3	+0.6	+0.4	-27.2	+0.0	16.8	16.0	+0.8	Vert
29	189.338M	26.9	+0.3 +15.8	+0.6	+0.4	-27.2	+0.0	16.8	16.0	+0.8	Vert
30	179.248M	26.2	+0.3 +16.5	+0.6	+0.3	-27.3	+0.0	16.6	16.0	+0.6	Vert
31	188.377M	26.5	+0.3 +15.9	+0.6	+0.4	-27.2	+0.0	16.5	16.0	+0.5	Vert
32	188.857M	26.3	+0.3 +15.9	+0.6	+0.4	-27.2	+0.0	16.3	16.0	+0.3	Vert
33	176.004M	26.1	+0.3 +16.0	+0.6	+0.3	-27.3	+0.0	16.0	16.0	+0.0	Vert
34	175.164M	26.1	+0.3 +15.9	+0.6	+0.3	-27.3	+0.0	15.9	16.0	-0.1	Vert
35	174.563M	26.2	+0.3 +15.7	+0.6	+0.3	-27.3	+0.0	15.8	16.0	-0.2	Vert
36	191.019M	26.1	+0.3 +15.6	+0.6	+0.4	-27.2	+0.0	15.8	16.0	-0.2	Vert
37	66.648M	33.5	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	17.7	18.0	-0.3	Vert
38	206.275M	26.8	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	15.6	16.0	-0.4	Vert
39	55.698M	33.5	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	17.5	18.0	-0.5	Vert
40	201.230M	26.6	+0.3 +14.7	+0.6	+0.4	-27.1	+0.0	15.5	16.0	-0.5	Vert
41	214.563M	25.6	+0.3 +15.0	+0.6	+0.4	-27.1	+0.0	14.8	16.0	-1.2	Vert

42	207.115M	25.8	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	14.6	16.0	-1.4	Vert
43	209.878M	25.8	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	14.6	16.0	-1.4	Vert
44	77.914M	32.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	16.1	18.0	-1.9	Vert
45	67.543M	31.9	+0.2 +10.9	+0.3	+0.2	-27.5	+0.0	16.0	18.0	-2.0	Vert
46	69.185M	32.0	+0.2 +10.8	+0.3	+0.2	-27.6	+0.0	15.9	18.0	-2.1	Vert
47	56.875M	31.4	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	15.4	18.0	-2.6	Vert
48	100.000M	30.8	+0.2 +10.7	+0.4	+0.2	-27.6	+0.0	14.7	18.0	-3.3	Vert
49	51.957M	30.6	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	14.5	18.0	-3.5	Vert
50	79.183M	31.0	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	14.4	18.0	-3.6	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/11/2016
 Test Type: **Radiated Scan** Time: 3:11:27 PM
 Tested By: N. Gamez Sequence#: 23
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

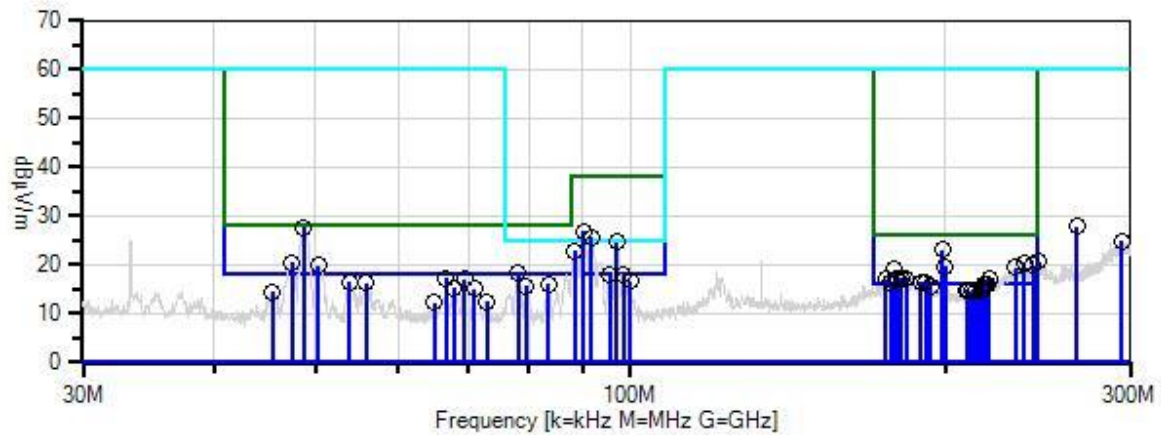
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 20.4°C Humidity: 50% Atmospheric Pressure: 101.5kPa Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 23 Date: 10/11/2016
CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	48.806M	43.9	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	27.8	18.0	+9.8	Vert
2	90.151M	43.4	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	26.9	18.0	+8.9	Vert
3	91.793M	42.2	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	25.7	18.0	+7.7	Vert
4	198.707M	34.0	+0.3 +14.9	+0.6	+0.4	-27.1	+0.0	23.1	16.0	+7.1	Vert
5	97.016M	41.0	+0.2 +10.5	+0.4	+0.2	-27.6	+0.0	24.7	18.0	+6.7	Vert
6	88.510M	39.6	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	23.0	18.0	+5.0	Vert
7	244.833M	27.6	+0.3 +18.7	+0.7	+0.4	-27.0	+0.0	20.7	16.0	+4.7	Vert
8	237.506M	26.7	+0.3 +19.4	+0.7	+0.4	-27.0	+0.0	20.5	16.0	+4.5	Vert
9	242.431M	26.5	+0.3 +19.0	+0.7	+0.4	-27.0	+0.0	19.9	16.0	+3.9	Vert
10	200.028M	30.6	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	19.6	16.0	+3.6	Vert
11	233.302M	25.9	+0.3 +19.2	+0.7	+0.4	-27.0	+0.0	19.5	16.0	+3.5	Vert
12	178.887M	28.8	+0.3 +16.4	+0.6	+0.3	-27.3	+0.0	19.1	16.0	+3.1	Vert
13	47.559M	36.5	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	20.5	18.0	+2.5	Vert
14	50.399M	36.0	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	19.9	18.0	+1.9	Vert
15	180.088M	26.9	+0.3 +16.6	+0.6	+0.3	-27.3	+0.0	17.4	16.0	+1.4	Vert

16	179.488M	26.9	+0.3 +16.5	+0.6	+0.3	-27.3	+0.0	17.3	16.0	+1.3	Vert
17	181.650M	26.8	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	17.3	16.0	+1.3	Vert
18	183.572M	26.7	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	17.2	16.0	+1.2	Vert
19	175.524M	27.2	+0.3 +15.9	+0.6	+0.3	-27.3	+0.0	17.0	16.0	+1.0	Vert
20	219.848M	26.8	+0.3 +15.9	+0.7	+0.4	-27.1	+0.0	17.0	16.0	+1.0	Vert
21	177.206M	26.5	+0.3 +16.2	+0.6	+0.3	-27.3	+0.0	16.6	16.0	+0.6	Vert
22	191.260M	26.9	+0.3 +15.6	+0.6	+0.4	-27.2	+0.0	16.6	16.0	+0.6	Vert
23	78.064M	35.0	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	18.5	18.0	+0.5	Vert
24	189.218M	26.4	+0.3 +15.8	+0.6	+0.4	-27.2	+0.0	16.3	16.0	+0.3	Vert
25	219.007M	26.1	+0.3 +15.7	+0.7	+0.4	-27.1	+0.0	16.1	16.0	+0.1	Vert
26	95.598M	34.5	+0.2 +10.4	+0.4	+0.2	-27.6	+0.0	18.1	18.0	+0.1	Vert
27	218.527M	26.1	+0.3 +15.7	+0.7	+0.4	-27.1	+0.0	16.1	16.0	+0.1	Vert
28	98.583M	34.2	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	18.0	18.0	+0.0	Vert
29	217.686M	26.2	+0.3 +15.5	+0.7	+0.4	-27.1	+0.0	16.0	16.0	+0.0	Vert
30	193.542M	26.4	+0.3 +15.3	+0.6	+0.4	-27.2	+0.0	15.8	16.0	-0.2	Vert
31	66.648M	33.2	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	17.4	18.0	-0.6	Vert
32	217.446M	25.5	+0.3 +15.5	+0.7	+0.4	-27.1	+0.0	15.3	16.0	-0.7	Vert
33	69.483M	33.2	+0.2 +10.8	+0.3	+0.2	-27.6	+0.0	17.1	18.0	-0.9	Vert
34	209.278M	26.2	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	15.0	16.0	-1.0	Vert
35	213.842M	25.7	+0.3 +15.0	+0.6	+0.4	-27.1	+0.0	14.9	16.0	-1.1	Vert
36	216.124M	25.4	+0.3 +15.3	+0.6	+0.4	-27.1	+0.0	14.9	16.0	-1.1	Vert
37	212.281M	25.8	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	14.8	16.0	-1.2	Vert
38	100.000M	32.8	+0.2 +10.7	+0.4	+0.2	-27.6	+0.0	16.7	18.0	-1.3	Vert
39	210.479M	25.8	+0.3 +14.7	+0.6	+0.4	-27.1	+0.0	14.7	16.0	-1.3	Vert
40	53.966M	32.6	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	16.5	18.0	-1.5	Vert
41	55.940M	32.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	16.3	18.0	-1.7	Vert

42	83.511M	32.7	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	16.1	18.0	-1.9	Vert
43	79.481M	32.3	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	15.7	18.0	-2.3	Vert
44	67.841M	31.3	+0.2 +10.9	+0.3	+0.2	-27.6	+0.0	15.3	18.0	-2.7	Vert
45	70.975M	31.4	+0.2 +10.7	+0.3	+0.2	-27.7	+0.0	15.1	18.0	-2.9	Vert
46	45.481M	30.5	+0.2 +11.1	+0.3	+0.1	-27.8	+0.0	14.4	18.0	-3.6	Vert
47	72.915M	29.0	+0.2 +10.5	+0.4	+0.2	-27.7	+0.0	12.6	18.0	-5.4	Vert
48	65.006M	27.9	+0.2 +11.1	+0.3	+0.2	-27.5	+0.0	12.2	18.0	-5.8	Vert
49	266.641M	34.8	+0.4 +18.5	+0.7	+0.4	-26.9	+0.0	27.9	60.0	-32.1	Vert
50	294.515M	26.0	+0.4 +24.1	+0.8	+0.5	-26.9	+0.0	24.9	60.0	-35.1	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/11/2016
 Test Type: **Radiated Scan** Time: 4:42:20 PM
 Tested By: N. Gamez Sequence#: 26
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

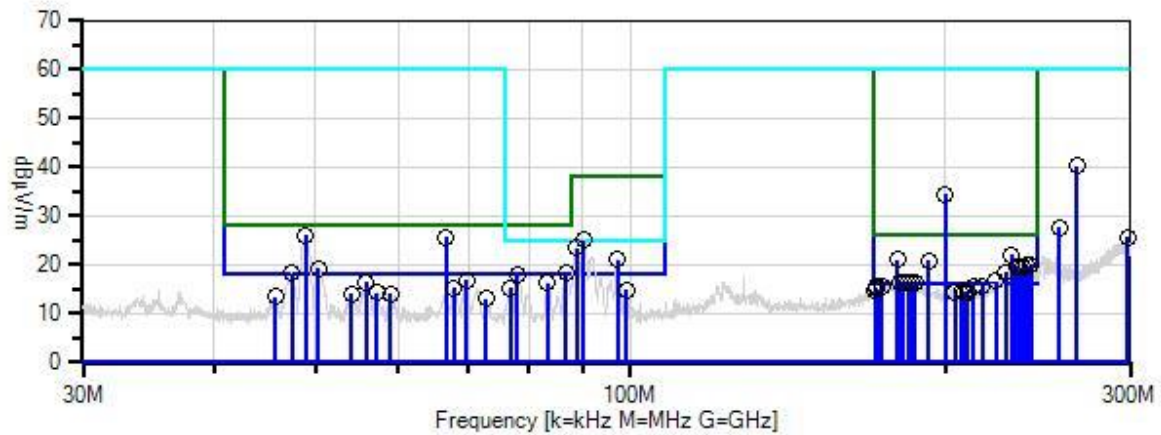
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 20.4°C Humidity: 50% Atmospheric Pressure: 101.5kPa
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Texas Instruments W/O#: 99145 Sequence#: 26 Date: 10/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	200.028M	45.5	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	34.5	16.0	+18.5	Vert
2	48.979M	42.1	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	26.0	18.0	+8.0	Vert
3	66.648M	41.5	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	25.7	18.0	+7.7	Vert
4	90.151M	41.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	25.1	18.0	+7.1	Vert
5	231.019M	28.9	+0.3 +18.9	+0.7	+0.4	-27.0	+0.0	22.2	16.0	+6.2	Vert
6	88.808M	40.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	23.5	18.0	+5.5	Vert
7	179.728M	30.7	+0.3 +16.5	+0.6	+0.3	-27.3	+0.0	21.1	16.0	+5.1	Vert
8	192.581M	31.3	+0.3 +15.4	+0.6	+0.4	-27.2	+0.0	20.8	16.0	+4.8	Vert
9	241.470M	26.5	+0.3 +19.1	+0.7	+0.4	-27.0	+0.0	20.0	16.0	+4.0	Vert
10	239.428M	26.2	+0.3 +19.3	+0.7	+0.4	-27.0	+0.0	19.9	16.0	+3.9	Vert
11	233.662M	25.9	+0.3 +19.3	+0.7	+0.4	-27.0	+0.0	19.6	16.0	+3.6	Vert
12	234.503M	25.8	+0.3 +19.4	+0.7	+0.4	-27.0	+0.0	19.6	16.0	+3.6	Vert
13	234.983M	25.6	+0.3 +19.5	+0.7	+0.4	-27.0	+0.0	19.5	16.0	+3.5	Vert
14	237.145M	25.6	+0.3 +19.4	+0.7	+0.4	-27.0	+0.0	19.4	16.0	+3.4	Vert
15	97.165M	37.4	+0.2 +10.5	+0.4	+0.2	-27.6	+0.0	21.1	18.0	+3.1	Vert

16	228.016M	25.9	+0.3 +18.1	+0.7	+0.4	-27.0	+0.0	18.4	16.0	+2.4	Vert
17	50.295M	35.3	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	19.2	18.0	+1.2	Vert
18	223.452M	25.7	+0.3 +16.7	+0.7	+0.4	-27.1	+0.0	16.7	16.0	+0.7	Vert
19	181.049M	26.0	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	16.5	16.0	+0.5	Vert
20	86.719M	35.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	18.5	18.0	+0.5	Vert
21	186.935M	26.3	+0.3 +16.1	+0.6	+0.4	-27.2	+0.0	16.5	16.0	+0.5	Vert
22	182.131M	26.0	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	16.5	16.0	+0.5	Vert
23	47.490M	34.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	18.3	18.0	+0.3	Vert
24	184.052M	25.8	+0.3 +16.4	+0.6	+0.4	-27.2	+0.0	16.3	16.0	+0.3	Vert
25	185.254M	25.7	+0.3 +16.4	+0.6	+0.4	-27.2	+0.0	16.2	16.0	+0.2	Vert
26	77.989M	34.7	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	18.2	18.0	+0.2	Vert
27	216.845M	26.1	+0.3 +15.4	+0.7	+0.4	-27.1	+0.0	15.8	16.0	-0.2	Vert
28	173.722M	26.2	+0.3 +15.6	+0.6	+0.3	-27.3	+0.0	15.7	16.0	-0.3	Vert
29	171.680M	26.5	+0.3 +15.1	+0.6	+0.3	-27.3	+0.0	15.5	16.0	-0.5	Vert
30	212.881M	26.4	+0.3 +14.9	+0.6	+0.4	-27.1	+0.0	15.5	16.0	-0.5	Vert
31	172.161M	26.0	+0.3 +15.2	+0.6	+0.3	-27.3	+0.0	15.1	16.0	-0.9	Vert
32	69.707M	33.0	+0.2 +10.8	+0.3	+0.2	-27.7	+0.0	16.8	18.0	-1.2	Vert
33	171.079M	25.8	+0.3 +15.0	+0.6	+0.3	-27.3	+0.0	14.7	16.0	-1.3	Vert
34	207.115M	25.9	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	14.7	16.0	-1.3	Vert
35	55.906M	32.6	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	16.6	18.0	-1.4	Vert
36	210.118M	25.6	+0.3 +14.7	+0.6	+0.4	-27.1	+0.0	14.5	16.0	-1.5	Vert
37	208.076M	25.6	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	14.4	16.0	-1.6	Vert
38	83.287M	32.9	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	16.3	18.0	-1.7	Vert
39	204.233M	25.5	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	14.3	16.0	-1.7	Vert
40	67.841M	31.3	+0.2 +10.9	+0.3	+0.2	-27.6	+0.0	15.3	18.0	-2.7	Vert
41	76.795M	31.7	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	15.2	18.0	-2.8	Vert

42	99.030M	31.0	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	14.8	18.0	-3.2	Vert
43	57.291M	30.3	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	14.3	18.0	-3.7	Vert
44	54.139M	30.2	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	14.1	18.0	-3.9	Vert
45	59.022M	29.9	+0.2 +11.1	+0.3	+0.2	-27.7	+0.0	14.0	18.0	-4.0	Vert
46	45.793M	29.6	+0.2 +11.1	+0.3	+0.1	-27.8	+0.0	13.5	18.0	-4.5	Vert
47	72.766M	29.4	+0.2 +10.6	+0.4	+0.2	-27.7	+0.0	13.1	18.0	-4.9	Vert
48	266.641M	47.2	+0.4 +18.5	+0.7	+0.4	-26.9	+0.0	40.3	60.0	-19.7	Vert
49	256.605M	35.3	+0.3 +17.9	+0.7	+0.4	-26.9	+0.0	27.7	60.0	-32.3	Vert
50	298.090M	26.6	+0.4 +24.2	+0.8	+0.5	-26.9	+0.0	25.6	60.0	-34.4	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 10/11/2016
 Test Type: **Radiated Scan** Time: 4:47:20 PM
 Tested By: N. Gamez Sequence#: 27
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

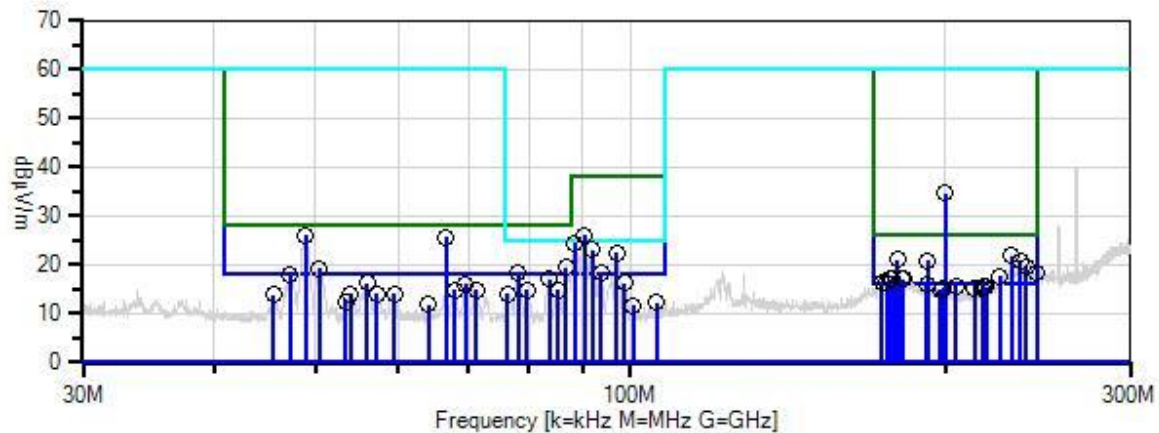
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 30-300MHz Broadcast Temperature: 20.4°C Humidity: 50% Atmospheric Pressure: 101.5kPa
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Texas Instruments W/O#: 99145 Sequence#: 27 Date: 10/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
T5	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	200.028M	45.6	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	34.6	16.0	+18.6	Vert
2	90.375M	42.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	26.1	18.0	+8.1	Vert
3	48.979M	42.1	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	26.0	18.0	+8.0	Vert
4	66.648M	41.5	+0.2 +11.0	+0.3	+0.2	-27.5	+0.0	25.7	18.0	+7.7	Vert
5	88.510M	41.0	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	24.4	18.0	+6.4	Vert
6	231.019M	28.6	+0.3 +18.9	+0.7	+0.4	-27.0	+0.0	21.9	16.0	+5.9	Vert
7	91.867M	39.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	23.1	18.0	+5.1	Vert
8	179.728M	30.6	+0.3 +16.5	+0.6	+0.3	-27.3	+0.0	21.0	16.0	+5.0	Vert
9	192.461M	31.4	+0.3 +15.4	+0.6	+0.4	-27.2	+0.0	20.9	16.0	+4.9	Vert
10	235.584M	26.9	+0.3 +19.5	+0.7	+0.4	-27.0	+0.0	20.8	16.0	+4.8	Vert
11	97.090M	38.8	+0.2 +10.5	+0.4	+0.2	-27.6	+0.0	22.5	18.0	+4.5	Vert
12	238.827M	26.0	+0.3 +19.3	+0.7	+0.4	-27.0	+0.0	19.7	16.0	+3.7	Vert
13	244.473M	25.2	+0.3 +18.7	+0.7	+0.4	-27.0	+0.0	18.3	16.0	+2.3	Vert
14	225.494M	26.1	+0.3 +17.3	+0.7	+0.4	-27.1	+0.0	17.7	16.0	+1.7	Vert
15	86.794M	36.1	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	19.5	18.0	+1.5	Vert

16	178.046M	27.1	+0.3 +16.3	+0.6	+0.3	-27.3	+0.0	17.3	16.0	+1.3	Vert
17	50.433M	35.3	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	19.2	18.0	+1.2	Vert
18	181.650M	26.6	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	17.1	16.0	+1.1	Vert
19	182.371M	26.6	+0.3 +16.5	+0.6	+0.3	-27.2	+0.0	17.1	16.0	+1.1	Vert
20	176.725M	27.0	+0.3 +16.1	+0.6	+0.3	-27.3	+0.0	17.0	16.0	+1.0	Vert
21	175.764M	26.7	+0.3 +16.0	+0.6	+0.3	-27.3	+0.0	16.6	16.0	+0.6	Vert
22	78.138M	35.0	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	18.5	18.0	+0.5	Vert
23	93.733M	34.9	+0.2 +10.4	+0.4	+0.2	-27.6	+0.0	18.5	18.0	+0.5	Vert
24	173.962M	27.0	+0.3 +15.6	+0.6	+0.3	-27.3	+0.0	16.5	16.0	+0.5	Vert
25	47.317M	34.1	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	18.1	18.0	+0.1	Vert
26	191.860M	26.3	+0.3 +15.5	+0.6	+0.4	-27.2	+0.0	15.9	16.0	-0.1	Vert
27	217.085M	26.1	+0.3 +15.4	+0.7	+0.4	-27.1	+0.0	15.8	16.0	-0.2	Vert
28	204.473M	26.8	+0.3 +14.6	+0.6	+0.4	-27.1	+0.0	15.6	16.0	-0.4	Vert
29	218.527M	25.5	+0.3 +15.7	+0.7	+0.4	-27.1	+0.0	15.5	16.0	-0.5	Vert
30	198.947M	26.3	+0.3 +14.8	+0.6	+0.4	-27.1	+0.0	15.3	16.0	-0.7	Vert
31	213.001M	26.2	+0.3 +14.9	+0.6	+0.4	-27.1	+0.0	15.3	16.0	-0.7	Vert
32	216.605M	25.7	+0.3 +15.3	+0.7	+0.4	-27.1	+0.0	15.3	16.0	-0.7	Vert
33	83.660M	33.7	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	17.1	18.0	-0.9	Vert
34	197.506M	25.7	+0.3 +15.0	+0.6	+0.4	-27.2	+0.0	14.8	16.0	-1.2	Vert
35	56.044M	32.2	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	16.2	18.0	-1.8	Vert
36	98.732M	32.4	+0.2 +10.6	+0.4	+0.2	-27.6	+0.0	16.2	18.0	-1.8	Vert
37	69.632M	32.2	+0.2 +10.8	+0.3	+0.2	-27.6	+0.0	16.1	18.0	-1.9	Vert
38	67.991M	30.9	+0.2 +10.9	+0.3	+0.2	-27.6	+0.0	14.9	18.0	-3.1	Vert
39	71.199M	31.1	+0.2 +10.7	+0.3	+0.2	-27.7	+0.0	14.8	18.0	-3.2	Vert
40	79.705M	31.4	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	14.8	18.0	-3.2	Vert
41	85.376M	31.4	+0.2 +10.2	+0.4	+0.2	-27.6	+0.0	14.8	18.0	-3.2	Vert

42	57.291M	30.2	+0.2 +11.0	+0.3	+0.2	-27.7	+0.0	14.2	18.0	-3.8	Vert
43	54.001M	30.2	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	14.1	18.0	-3.9	Vert
44	76.348M	30.6	+0.2 +10.3	+0.4	+0.2	-27.6	+0.0	14.1	18.0	-3.9	Vert
45	59.507M	29.9	+0.2 +11.1	+0.3	+0.2	-27.7	+0.0	14.0	18.0	-4.0	Vert
46	45.585M	29.9	+0.2 +11.1	+0.3	+0.1	-27.8	+0.0	13.8	18.0	-4.2	Vert
47	53.516M	28.7	+0.2 +10.9	+0.3	+0.2	-27.7	+0.0	12.6	18.0	-5.4	Vert
48	105.970M	27.7	+0.2 +11.3	+0.4	+0.2	-27.6	+0.0	12.2	18.0	-5.8	Vert
49	64.148M	27.7	+0.2 +11.1	+0.3	+0.2	-27.6	+0.0	11.9	18.0	-6.1	Vert
50	100.597M	27.8	+0.2 +10.7	+0.4	+0.2	-27.6	+0.0	11.7	18.0	-6.3	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 15:31:43
 Tested By: N. Gamez Sequence#: 29
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

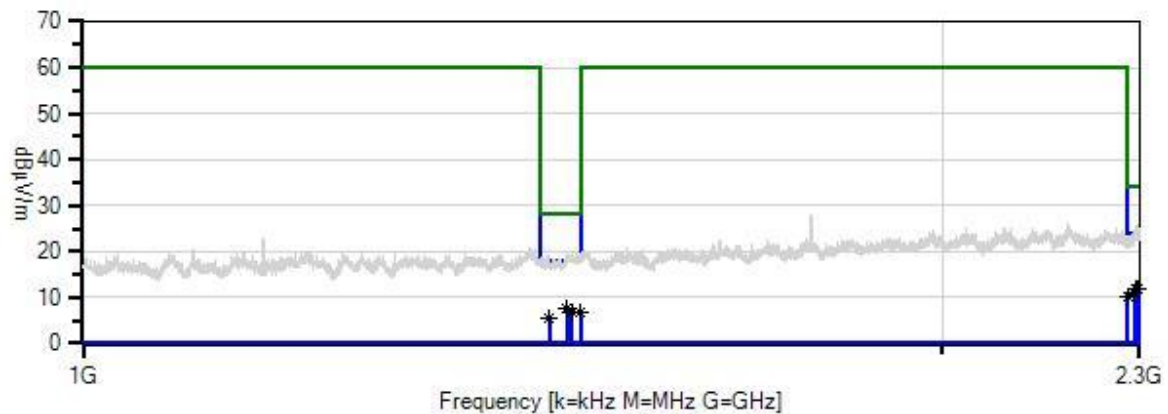
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1-2.345GHz Broadcast Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 2 Modification 33 was in place during testing.

Texas Instruments W/O#: 99145 Sequence#: 29 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave Test Distance: 1 Meter Vert
 Position 2



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Broadcast - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1477.711M	36.3	-58.2	+1.8	+0.9	+25.5	+0.0	7.8	18.0	-10.2	Vert
	Ave		+1.5								
^	1477.711M	50.1	-58.2	+1.8	+0.9	+25.5	+0.0	21.6	18.0	+3.6	Vert
			+1.5								
3	1493.570M	35.4	-58.3	+1.8	+0.9	+25.6	+0.0	6.9	18.0	-11.1	Vert
	Ave		+1.5								
^	1493.570M	48.8	-58.3	+1.8	+0.9	+25.6	+0.0	20.3	18.0	+2.3	Vert
			+1.5								
5	1483.498M	35.3	-58.3	+1.8	+0.9	+25.5	+0.0	6.7	18.0	-11.3	Vert
	Ave		+1.5								
^	1483.498M	48.5	-58.3	+1.8	+0.9	+25.5	+0.0	19.9	18.0	+1.9	Vert
			+1.5								
7	2341.808M	36.2	-58.1	+2.3	+1.1	+28.5	+0.0	11.9	24.0	-12.1	Vert
	Ave		+1.9								
^	2341.808M	49.3	-58.1	+2.3	+1.1	+28.5	+0.0	25.0	24.0	+1.0	Vert
			+1.9								
9	2338.506M	36.2	-58.1	+2.3	+1.1	+28.5	+0.0	11.9	24.0	-12.1	Vert
	Ave		+1.9								
^	2338.506M	48.9	-58.1	+2.3	+1.1	+28.5	+0.0	24.6	24.0	+0.6	Vert
			+1.9								
11	1456.452M	34.3	-58.3	+1.8	+0.9	+25.5	+0.0	5.7	18.0	-12.3	Vert
	Ave		+1.5								
^	1456.452M	47.6	-58.3	+1.8	+0.9	+25.5	+0.0	19.0	18.0	+1.0	Vert
			+1.5								

13	2334.759M Ave	35.4	-58.1 +1.9	+2.3	+1.1	+28.5	+0.0	11.1	24.0	-12.9	Vert
^	2334.759M	48.9	-58.1 +1.9	+2.3	+1.1	+28.5	+0.0	24.6	24.0	+0.6	Vert
15	2322.626M Ave	34.6	-58.1 +1.9	+2.3	+1.1	+28.4	+0.0	10.2	24.0	-13.8	Vert
^	2322.626M	48.1	-58.1 +1.9	+2.3	+1.1	+28.4	+0.0	23.7	24.0	-0.3	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 10:42:01
 Tested By: N. Gamez Sequence#: 21
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

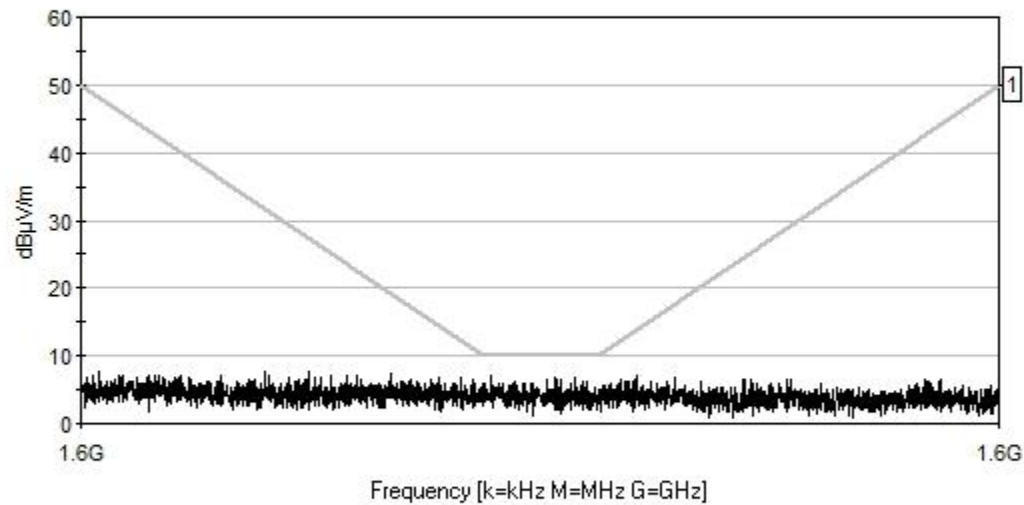
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1.567-1.583GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 1 Modification 33 was in place during testing.
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Texas Instruments WO#: 99145 Sequence#: 21 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile
 - GPS L1 Civil - Ave Test Distance: 1 Meter Vert
 Position 1



— Sweep Data
 — 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave
 Software Version: 5.03.02

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1573.647M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	14.4	-7.5	Vert
2	1573.594M	34.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.0	14.7	-8.7	Vert
3	1573.514M	34.7	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.4	15.2	-8.8	Vert
4	1577.322M	34.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.2	15.2	-9.0	Vert
5	1572.821M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	19.1	-11.8	Vert
6	1578.202M	34.3	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.1	20.2	-14.1	Vert
7	1572.608M	34.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.0	20.3	-14.3	Vert
8	1574.645M Ave	23.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-4.5	10.0	-14.5	Vert
^	1574.645M	35.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.0	10.0	-3.0	Vert
10	1575.669M Ave	23.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-4.7	10.0	-14.7	Vert
^	1575.669M	36.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.8	10.0	-2.2	Vert
12	1578.379M	32.9	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.7	21.2	-16.5	Vert
13	1578.427M	33.2	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.0	21.5	-16.5	Vert

14	1578.545M	33.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	22.2	-17.0	Vert
15	1578.609M	33.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	22.5	-17.3	Vert
16	1576.951M	23.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-4.5	13.0	-17.5	Vert
^	1576.951M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	13.0	-5.7	Vert
18	1571.757M	35.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.1	25.2	-18.1	Vert
19	1579.107M	34.2	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.0	25.4	-19.4	Vert
20	1571.571M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	26.3	-19.4	Vert
21	1579.171M	34.2	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.0	25.7	-19.7	Vert
22	1571.375M	35.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.6	27.4	-19.8	Vert
23	1571.470M	35.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.8	26.8	-20.0	Vert
24	1571.343M	34.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.5	27.6	-21.1	Vert
25	1571.295M	34.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.5	27.8	-21.3	Vert
26	1579.776M	34.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.4	29.2	-22.8	Vert
27	1579.711M	33.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	28.8	-23.4	Vert
28	1570.620M	36.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.8	31.7	-23.9	Vert
29	1570.689M	35.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.0	31.3	-24.3	Vert
30	1570.875M	34.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.8	30.2	-24.4	Vert
31	1580.316M	34.1	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.9	32.3	-26.4	Vert
32	1570.131M	34.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.1	34.5	-28.4	Vert
33	1568.855M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	41.8	-34.9	Vert
34	1582.109M	34.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.6	42.5	-35.9	Vert
35	1568.605M	35.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.0	43.2	-36.2	Vert
36	1582.157M	34.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.2	42.8	-36.6	Vert
37	1582.195M	34.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.2	43.0	-36.8	Vert
38	1568.409M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	44.3	-37.4	Vert
39	1582.644M	33.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	45.6	-40.2	Vert

40	1567.728M	35.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.6	48.2	-40.6	Vert
41	1567.744M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	48.1	-40.8	Vert
42	1582.783M	33.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	46.4	-40.9	Vert
43	1567.638M	35.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.0	48.8	-41.8	Vert
44	1567.611M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	48.9	-42.0	Vert
45	1567.521M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	49.4	-42.5	Vert
46	1583.276M	33.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	49.2	-43.7	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 12:05:56
 Tested By: N. Gamez Sequence#: 24
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

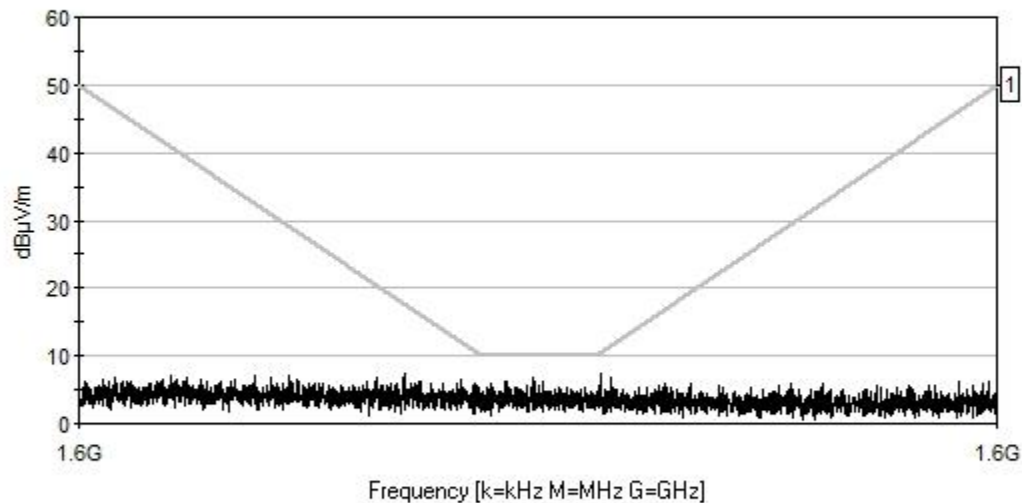
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1.567-1.583GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 1 Modification 33 was in place during testing.
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Texas Instruments WO#: 99145 Sequence#: 24 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile
 - GPS L1 Civil - Ave Test Distance: 1 Meter Horiz
 Position 1



— Sweep Data
 — 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave
 Software Version: 5.03.02

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1573.994M	34.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.0	12.4	-6.4	Horiz
2	1573.077M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	17.7	-10.4	Horiz
3	1577.503M	33.9	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	16.2	-10.5	Horiz
4	1573.205M	34.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.9	16.9	-11.0	Horiz
5	1573.039M	35.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.7	17.9	-11.2	Horiz
6	1578.069M	34.0	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.8	19.4	-13.6	Horiz
7	1572.586M	35.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.7	20.5	-13.8	Horiz
8	1578.042M	33.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	19.3	-13.9	Horiz
9	1572.714M	33.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	19.7	-14.2	Horiz
10	1572.672M	33.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	20.0	-14.5	Horiz
11	1572.656M	33.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.3	20.1	-14.8	Horiz
12	1572.416M	34.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.1	21.4	-15.3	Horiz

13	1572.634M	33.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	20.2	-15.3	Horiz
14	1574.293M Ave	23.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-4.9	10.7	-15.6	Horiz
^	1574.293M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	10.7	-3.8	Horiz
16	1572.528M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	20.8	-15.7	Horiz
17	1576.504M Ave	23.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.3	10.5	-15.8	Horiz
^	1576.504M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	10.5	-3.6	Horiz
19	1572.459M	33.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	21.2	-16.3	Horiz
20	1572.470M	33.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.7	21.1	-16.4	Horiz
21	1578.556M	33.9	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	22.2	-16.5	Horiz
22	1572.278M	33.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.3	22.2	-16.9	Horiz
23	1572.172M	33.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.6	22.8	-17.2	Horiz
24	1572.321M	33.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.7	22.0	-17.3	Horiz
25	1572.230M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	22.5	-17.4	Horiz
26	1572.198M	33.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.3	22.7	-17.4	Horiz
27	1572.252M	32.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	22.4	-17.8	Horiz
28	1571.986M	34.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	23.9	-18.2	Horiz
29	1571.880M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	24.5	-19.4	Horiz
30	1571.832M	33.5	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	24.8	-19.6	Horiz
31	1571.763M	33.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	25.2	-19.7	Horiz
32	1571.853M	33.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.8	24.6	-19.8	Horiz
33	1571.805M	33.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.0	24.9	-19.9	Horiz
34	1571.779M	33.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	25.1	-20.2	Horiz
35	1571.587M	34.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.8	26.2	-20.4	Horiz
36	1571.534M	34.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.9	26.5	-20.6	Horiz
37	1571.497M	34.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	26.7	-21.0	Horiz
38	1571.412M	34.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.8	27.2	-21.4	Horiz

39	1571.454M	33.7	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	26.9	-21.5	Horiz
40	1571.220M	34.7	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.4	28.3	-21.9	Horiz
41	1571.231M	34.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.3	28.2	-21.9	Horiz
42	1571.050M	35.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.1	29.2	-22.1	Horiz
43	1571.385M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	27.3	-22.2	Horiz
44	1571.337M	33.7	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	27.6	-22.2	Horiz
45	1571.348M	33.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.3	27.5	-22.2	Horiz
46	1571.300M	33.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	27.8	-22.3	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 14:29:21
 Tested By: N. Gamez Sequence#: 27
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

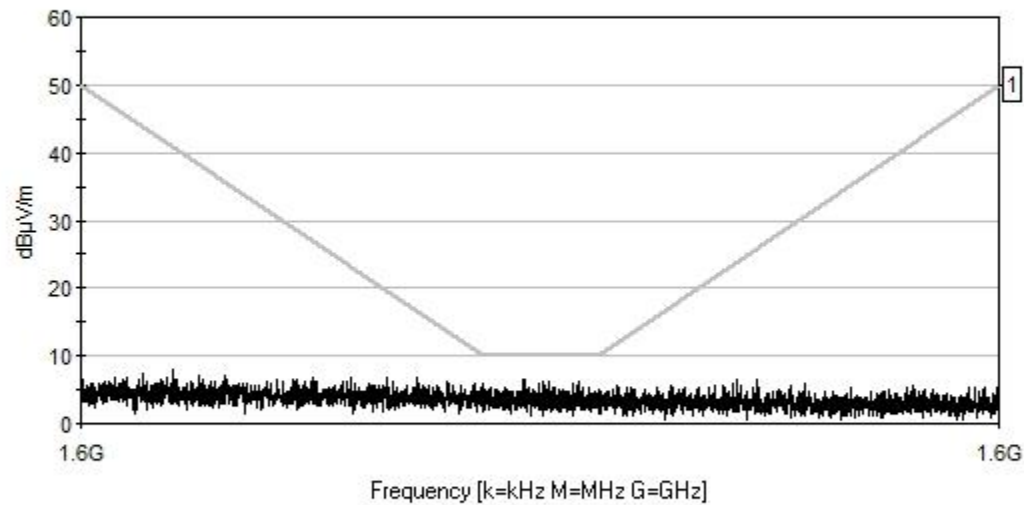
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1.567-1.583GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 2 Modification 33 was in place during testing.
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Texas Instruments WO#: 99145 Sequence#: 27 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile
 - GPS L1 Civil - Ave Test Distance: 1 Meter Horiz
 Position 2



— Sweep Data
 — 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave
 Software Version: 5.03.02

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1576.975M	33.5	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	13.2	-8.0	Horiz
2	1577.034M	33.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	13.5	-8.6	Horiz
3	1573.274M	35.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.7	16.5	-9.8	Horiz
4	1577.690M	33.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.6	17.3	-11.7	Horiz
5	1577.642M	33.0	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.8	17.0	-12.2	Horiz
6	1572.847M	34.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.3	19.0	-12.7	Horiz
7	1572.730M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	19.6	-12.7	Horiz
8	1578.165M	33.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	20.0	-14.8	Horiz
9	1578.133M	33.1	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	19.8	-14.9	Horiz
10	1574.804M	23.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.0	10.0	-15.0	Horiz
^	1574.804M	34.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.6	10.0	-3.4	Horiz

12	1576.009M Ave	23.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.3	10.0	-15.3	Horiz
^	1576.009M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	10.0	-2.7	Horiz
^	1576.095M	34.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.3	10.0	-3.7	Horiz
15	1578.090M	32.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.2	19.6	-15.4	Horiz
16	1578.363M	33.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.4	21.1	-15.7	Horiz
17	1578.438M	33.9	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	21.5	-15.8	Horiz
18	1578.079M	31.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	3.4	19.5	-16.1	Horiz
19	1572.103M	35.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.9	23.2	-16.3	Horiz
20	1578.604M	33.9	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.7	22.5	-16.8	Horiz
21	1572.177M	34.2	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.9	22.8	-16.9	Horiz
22	1578.620M	33.5	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.3	22.6	-17.3	Horiz
23	1572.034M	34.5	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.2	23.6	-17.4	Horiz
24	1578.759M	34.1	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.9	23.4	-17.5	Horiz
25	1578.850M	34.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.4	23.9	-17.5	Horiz
26	1571.986M	34.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.1	23.9	-17.8	Horiz
27	1578.641M	32.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.4	22.7	-18.3	Horiz
28	1578.695M	32.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	23.0	-18.4	Horiz
29	1578.673M	32.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.5	22.9	-18.4	Horiz
30	1578.909M	33.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	24.2	-18.7	Horiz
31	1579.203M	34.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	6.4	25.9	-19.5	Horiz
32	1578.796M	32.0	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	3.8	23.6	-19.8	Horiz
33	1579.000M	33.0	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.8	24.8	-20.0	Horiz
34	1579.128M	33.4	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.2	25.5	-20.3	Horiz
35	1571.305M	34.5	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.2	27.8	-21.6	Horiz
36	1571.183M	34.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.5	28.5	-22.0	Horiz
37	1571.109M	34.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.6	28.9	-22.3	Horiz

38	1579.412M	32.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.5	27.1	-22.6	Horiz
39	1579.369M	32.5	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.3	26.9	-22.6	Horiz
40	1579.471M	32.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	27.5	-22.9	Horiz
41	1579.530M	32.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	27.8	-23.2	Horiz
42	1579.583M	33.1	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.9	28.1	-23.2	Horiz
43	1579.599M	32.8	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	28.2	-23.6	Horiz
44	1579.786M	33.7	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	29.3	-23.8	Horiz
45	1579.749M	33.2	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	5.0	29.0	-24.0	Horiz
46	1579.685M	32.6	-58.2 +1.5	+1.9	+0.9	+25.7	+0.0	4.4	28.7	-24.3	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 15:39:05
 Tested By: N. Gamez Sequence#: 30
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

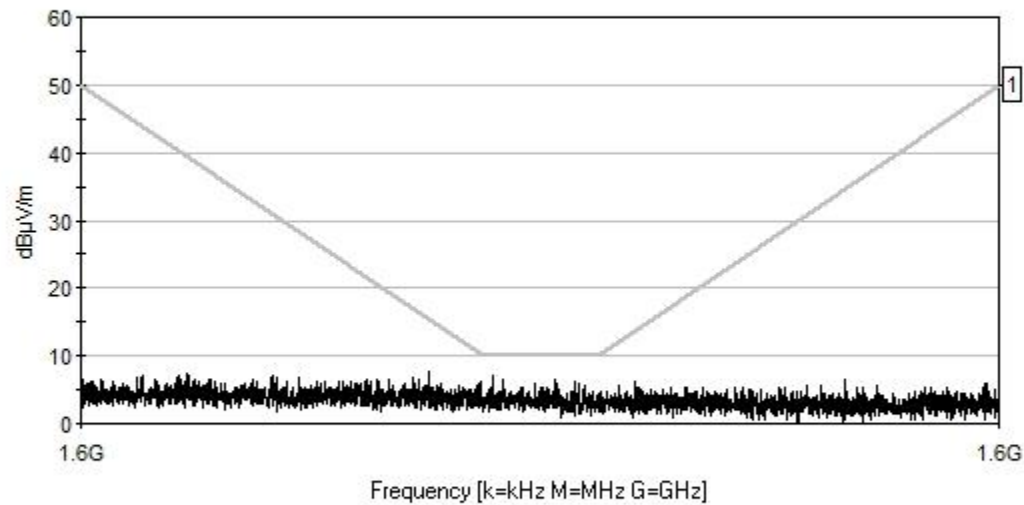
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1.567-1.583GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 2 Modification 33 was in place during testing.
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Texas Instruments WO#: 99145 Sequence#: 30 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile
 - GPS L1 Civil - Ave Test Distance: 1 Meter Vert
 Position 2



— Sweep Data
 — 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - GPS L1 Civil - Ave
 Software Version: 5.03.02

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1576.378M	32.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.0	10.0	-6.0	Vert
2	1576.138M	32.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.0	10.0	-6.0	Vert
3	1574.213M	33.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.0	11.2	-6.2	Vert
4	1576.559M	32.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.6	10.8	-6.2	Vert
5	1576.447M	32.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	4.0	10.2	-6.2	Vert
6	1575.791M	32.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	3.7	10.0	-6.3	Vert
7	1574.149M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	11.5	-6.4	Vert
8	1576.789M	33.8	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.5	12.1	-6.6	Vert
9	1574.106M	33.4	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	5.1	11.8	-6.7	Vert
10	1574.366M	23.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.0	10.3	-15.3	Vert
^	1574.366M	35.6	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	7.3	10.3	-3.0	Vert

12	1575.921M Ave	22.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.4	10.0	-15.4	Vert
13	1575.990M Ave	22.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.4	10.0	-15.4	Vert
^	1575.990M	35.0	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.7	10.0	-3.3	Vert
^	1575.921M	34.9	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.6	10.0	-3.4	Vert
16	1573.976M Ave	23.3	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	-5.0	12.5	-17.5	Vert
^	1573.976M	35.1	-58.3 +1.5	+1.9	+0.9	+25.7	+0.0	6.8	12.5	-5.7	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 10/10/2016
 Test Type: **Radiated Scan** Time: 1:32:45 PM
 Tested By: N. Gamez Sequence#: 2
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

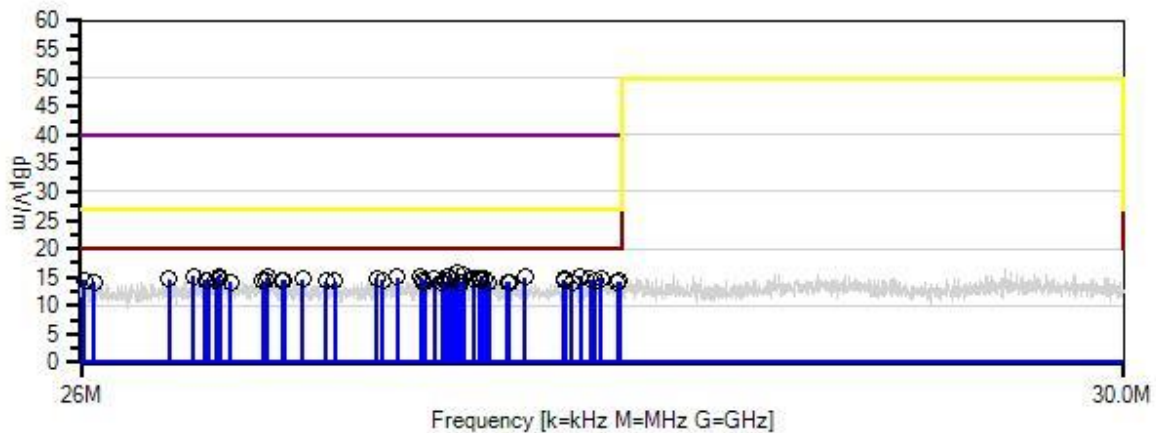
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 26-30MHz Mobile Temperature: 23.7°C Humidity: 49% Atmospheric Pressure: 101.4kPa
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Texas Instruments W/O#: 99145 Sequence#: 2 Date: 10/10/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	AN01579	Rod Antenna-No Gain (dB)	3301B	6/27/2016	6/27/2018

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB		Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	27.377M	7.0	+0.1	+0.2	+8.4		+0.0	15.7	20.0	-4.3	Vert
2	27.402M	6.6	+0.1	+0.2	+8.4		+0.0	15.3	20.0	-4.7	Vert
3	26.497M	6.7	+0.1	+0.2	+8.1		+0.0	15.1	20.0	-4.9	Vert
4	26.404M	6.7	+0.1	+0.2	+8.1		+0.0	15.1	20.0	-4.9	Vert
5	27.846M	6.3	+0.1	+0.2	+8.5		+0.0	15.1	20.0	-4.9	Vert
6	27.344M	6.4	+0.1	+0.2	+8.4		+0.0	15.1	20.0	-4.9	Vert
7	27.155M	6.4	+0.1	+0.2	+8.3		+0.0	15.0	20.0	-5.0	Vert
8	26.676M	6.5	+0.1	+0.2	+8.2		+0.0	15.0	20.0	-5.0	Vert
9	27.633M	6.2	+0.1	+0.2	+8.5		+0.0	15.0	20.0	-5.0	Vert
10	27.240M	6.4	+0.1	+0.2	+8.3		+0.0	15.0	20.0	-5.0	Vert
11	27.293M	6.1	+0.1	+0.2	+8.4		+0.0	14.8	20.0	-5.2	Vert
12	27.077M	6.2	+0.1	+0.2	+8.3		+0.0	14.8	20.0	-5.2	Vert
13	27.924M	5.9	+0.1	+0.2	+8.6		+0.0	14.8	20.0	-5.2	Vert
14	27.469M	6.1	+0.1	+0.2	+8.4		+0.0	14.8	20.0	-5.2	Vert
15	26.804M	6.2	+0.1	+0.2	+8.2		+0.0	14.7	20.0	-5.3	Vert
16	26.500M	6.3	+0.1	+0.2	+8.1		+0.0	14.7	20.0	-5.3	Vert
17	26.316M	6.4	+0.1	+0.2	+8.0		+0.0	14.7	20.0	-5.3	Vert
18	27.482M	6.0	+0.1	+0.2	+8.4		+0.0	14.7	20.0	-5.3	Vert

19	27.459M	6.0	+0.1	+0.2	+8.4	+0.0	14.7	20.0	-5.3	Vert
20	27.357M	6.0	+0.1	+0.2	+8.4	+0.0	14.7	20.0	-5.3	Vert
21	27.437M	5.9	+0.1	+0.2	+8.4	+0.0	14.6	20.0	-5.4	Vert
22	27.782M	5.8	+0.1	+0.2	+8.5	+0.0	14.6	20.0	-5.4	Vert
23	27.883M	5.7	+0.1	+0.2	+8.6	+0.0	14.6	20.0	-5.4	Vert
24	26.729M	6.0	+0.1	+0.2	+8.2	+0.0	14.5	20.0	-5.5	Vert
25	27.900M	5.6	+0.1	+0.2	+8.6	+0.0	14.5	20.0	-5.5	Vert
26	26.457M	6.1	+0.1	+0.2	+8.1	+0.0	14.5	20.0	-5.5	Vert
27	26.448M	6.1	+0.1	+0.2	+8.1	+0.0	14.5	20.0	-5.5	Vert
28	26.669M	6.0	+0.1	+0.2	+8.2	+0.0	14.5	20.0	-5.5	Vert
29	26.485M	6.1	+0.1	+0.2	+8.1	+0.0	14.5	20.0	-5.5	Vert
30	26.734M	5.9	+0.1	+0.2	+8.2	+0.0	14.4	20.0	-5.6	Vert
31	26.011M	6.2	+0.1	+0.2	+7.9	+0.0	14.4	20.0	-5.6	Vert
32	27.100M	5.8	+0.1	+0.2	+8.3	+0.0	14.4	20.0	-5.6	Vert
33	27.465M	5.7	+0.1	+0.2	+8.4	+0.0	14.4	20.0	-5.6	Vert
34	27.247M	5.8	+0.1	+0.2	+8.3	+0.0	14.4	20.0	-5.6	Vert
35	26.923M	5.8	+0.1	+0.2	+8.2	+0.0	14.3	20.0	-5.7	Vert
36	26.889M	5.8	+0.1	+0.2	+8.2	+0.0	14.3	20.0	-5.7	Vert
37	26.657M	5.9	+0.1	+0.2	+8.1	+0.0	14.3	20.0	-5.7	Vert
38	27.994M	5.4	+0.1	+0.2	+8.6	+0.0	14.3	20.0	-5.7	Vert
39	27.785M	5.5	+0.1	+0.2	+8.5	+0.0	14.3	20.0	-5.7	Vert
40	27.332M	5.6	+0.1	+0.2	+8.4	+0.0	14.3	20.0	-5.7	Vert
41	26.539M	5.8	+0.1	+0.2	+8.1	+0.0	14.2	20.0	-5.8	Vert
42	26.047M	6.0	+0.1	+0.2	+7.9	+0.0	14.2	20.0	-5.8	Vert
43	27.254M	5.6	+0.1	+0.2	+8.3	+0.0	14.2	20.0	-5.8	Vert
44	27.811M	5.4	+0.1	+0.2	+8.5	+0.0	14.2	20.0	-5.8	Vert

45	27.575M	5.4	+0.1	+0.2	+8.5	+0.0	14.2	20.0	-5.8	Vert
46	27.390M	5.4	+0.1	+0.2	+8.4	+0.0	14.1	20.0	-5.9	Vert
47	27.322M	5.4	+0.1	+0.2	+8.4	+0.0	14.1	20.0	-5.9	Vert
48	27.498M	5.4	+0.1	+0.2	+8.4	+0.0	14.1	20.0	-5.9	Vert
49	27.987M	5.2	+0.1	+0.2	+8.6	+0.0	14.1	20.0	-5.9	Vert
50	27.567M	5.3	+0.1	+0.2	+8.5	+0.0	14.1	20.0	-5.9	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 10/26/2016
 Test Type: **Radiated Scan** Time: 14:58:16
 Tested By: N. Gamez Sequence#: 10
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

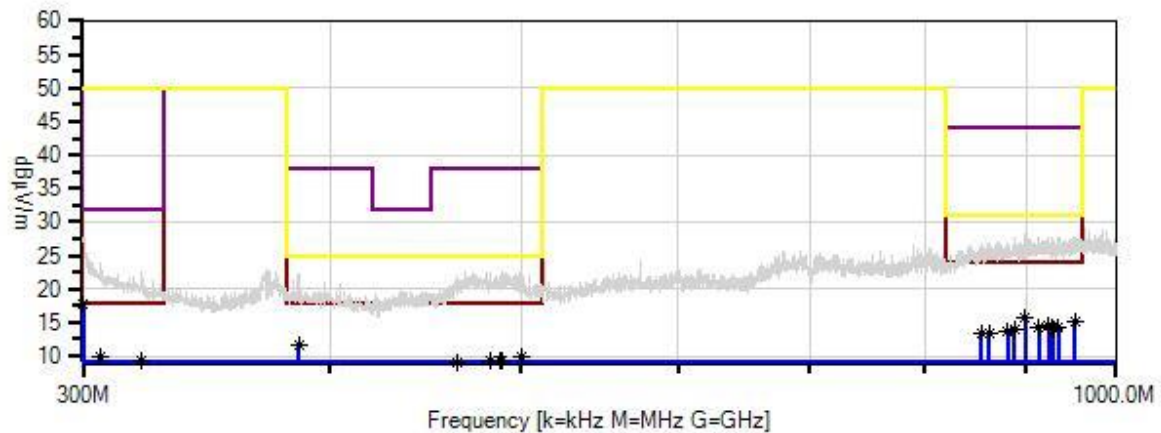
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 300-1000MHz Mobile Temperature: 23°C Humidity: 55% Atmospheric Pressure: 101.6kPa Modification 33 was in place during testing.

Texas Instruments WO#: 99145 Sequence#: 10 Date: 10/26/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018
T5	AN00978A	Log Periodic Antenna-ARP958 Calibration	SAS-200/510	5/21/2015	5/21/2017

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	300.281M	19.2	+0.4	+0.8	+0.5	-26.9	+0.0	17.7	18.0	-0.3	Vert
	Ave		+23.7								
^	300.281M	30.0	+0.4	+0.8	+0.5	-26.9	+0.0	28.5	18.0	+10.5	Vert
			+23.7								
3	385.628M	18.7	+0.5	+0.9	+0.6	-27.4	+0.0	11.6	18.0	-6.4	Vert
	Ave		+18.3								
^	385.628M	30.0	+0.5	+0.9	+0.6	-27.4	+0.0	22.9	18.0	+4.9	Vert
			+18.3								
5	306.486M	12.5	+0.4	+0.8	+0.5	-26.9	+0.0	10.0	18.0	-8.0	Vert
	Ave		+22.7								
^	306.486M	26.5	+0.4	+0.8	+0.5	-26.9	+0.0	24.0	18.0	+6.0	Vert
			+22.7								
7	500.120M	15.7	+0.6	+1.3	+0.8	-28.1	+0.0	9.8	18.0	-8.2	Vert
	Ave		+19.5								
^	500.120M	28.1	+0.6	+1.3	+0.8	-28.1	+0.0	22.2	18.0	+4.2	Vert
			+19.5								
9	899.491M	14.2	+0.9	+1.7	+1.2	-27.3	+0.0	15.6	24.0	-8.4	Vert
	Ave		+24.9								
^	899.491M	28.1	+0.9	+1.7	+1.2	-27.3	+0.0	29.5	24.0	+5.5	Vert
			+24.9								
11	489.015M	15.1	+0.6	+1.2	+0.7	-28.1	+0.0	9.3	18.0	-8.7	Vert
	Ave		+19.8								
12	488.178M	15.1	+0.6	+1.2	+0.7	-28.1	+0.0	9.3	18.0	-8.7	Vert
	Ave		+19.8								
^	488.178M	28.1	+0.6	+1.2	+0.7	-28.1	+0.0	22.3	18.0	+4.3	Vert
			+19.8								
14	482.403M	14.7	+0.6	+1.2	+0.7	-28.0	+0.0	9.2	18.0	-8.8	Vert
	Ave		+20.0								
^	482.403M	27.7	+0.6	+1.2	+0.7	-28.0	+0.0	22.2	18.0	+4.2	Vert
			+20.0								

16	488.991M Ave	15.0	+0.6 +19.8	+1.2	+0.7	-28.1	+0.0	9.2	18.0	-8.8	Vert
^	488.991M	29.2	+0.6 +19.8	+1.2	+0.7	-28.1	+0.0	23.4	18.0	+5.4	Vert
^	489.015M	28.1	+0.6 +19.8	+1.2	+0.7	-28.1	+0.0	22.3	18.0	+4.3	Vert
19	321.236M Ave	13.9	+0.4 +20.5	+0.8	+0.6	-27.0	+0.0	9.2	18.0	-8.8	Vert
^	321.236M	27.4	+0.4 +20.5	+0.8	+0.6	-27.0	+0.0	22.7	18.0	+4.7	Vert
21	463.873M Ave	14.9	+0.6 +19.7	+1.2	+0.7	-28.0	+0.0	9.1	18.0	-8.9	Vert
^	463.873M	28.3	+0.6 +19.7	+1.2	+0.7	-28.0	+0.0	22.5	18.0	+4.5	Vert
23	952.372M Ave	13.3	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	15.1	24.0	-8.9	Vert
^	952.372M	26.8	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	28.6	24.0	+4.6	Vert
25	318.138M Ave	12.8	+0.4 +21.0	+0.8	+0.6	-27.0	+0.0	8.6	18.0	-9.4	Vert
26	318.124M Ave	12.8	+0.4 +21.0	+0.8	+0.6	-27.0	+0.0	8.6	18.0	-9.4	Vert
^	318.124M	26.0	+0.4 +21.0	+0.8	+0.6	-27.0	+0.0	21.8	18.0	+3.8	Vert
^	318.138M	25.5	+0.4 +21.0	+0.8	+0.6	-27.0	+0.0	21.3	18.0	+3.3	Vert
29	923.661M Ave	12.8	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.4	24.0	-9.6	Vert
^	923.661M	26.3	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	27.9	24.0	+3.9	Vert
31	914.014M Ave	12.8	+0.9 +24.9	+1.7	+1.2	-27.2	+0.0	14.3	24.0	-9.7	Vert
^	914.014M	26.3	+0.9 +24.9	+1.7	+1.2	-27.2	+0.0	27.8	24.0	+3.8	Vert
33	934.926M Ave	12.6	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	14.3	24.0	-9.7	Vert
^	934.926M	26.5	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	28.2	24.0	+4.2	Vert
35	927.925M Ave	12.6	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.2	24.0	-9.8	Vert
^	927.925M	25.8	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	27.4	24.0	+3.4	Vert
37	928.893M Ave	12.5	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.1	24.0	-9.9	Vert
^	928.893M	25.9	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	27.5	24.0	+3.5	Vert
39	888.499M Ave	13.1	+0.9 +24.4	+1.7	+1.2	-27.3	+0.0	14.0	24.0	-10.0	Vert
^	888.499M	26.1	+0.9 +24.4	+1.7	+1.2	-27.3	+0.0	27.0	24.0	+3.0	Vert

41	880.937M	13.0	+0.9	+1.7	+1.2	-27.3	+0.0	13.6	24.0	-10.4	Vert
	Ave		+24.1								
^	880.937M	26.1	+0.9	+1.7	+1.2	-27.3	+0.0	26.7	24.0	+2.7	Vert
			+24.1								
43	325.653M	12.9	+0.4	+0.8	+0.6	-27.0	+0.0	7.6	18.0	-10.4	Vert
	Ave		+19.9								
^	325.653M	26.1	+0.4	+0.8	+0.6	-27.0	+0.0	20.8	18.0	+2.8	Vert
			+19.9								
45	854.780M	14.1	+0.9	+1.7	+1.1	-27.5	+0.0	13.5	24.0	-10.5	Vert
	Ave		+23.2								
^	854.780M	27.4	+0.9	+1.7	+1.1	-27.5	+0.0	26.8	24.0	+2.8	Vert
			+23.2								
47	861.792M	13.8	+0.9	+1.7	+1.1	-27.4	+0.0	13.5	24.0	-10.5	Vert
	Ave		+23.4								
^	861.792M	27.0	+0.9	+1.7	+1.1	-27.4	+0.0	26.7	24.0	+2.7	Vert
			+23.4								
49	404.813M	13.3	+0.5	+1.0	+0.6	-27.5	+0.0	6.4	18.0	-11.6	Vert
	Ave		+18.5								
^	404.813M	26.1	+0.5	+1.0	+0.6	-27.5	+0.0	19.2	18.0	+1.2	Vert
			+18.5								

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 10/26/2016
 Test Type: **Radiated Scan** Time: 15:30:45
 Tested By: N. Gamez Sequence#: 11
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

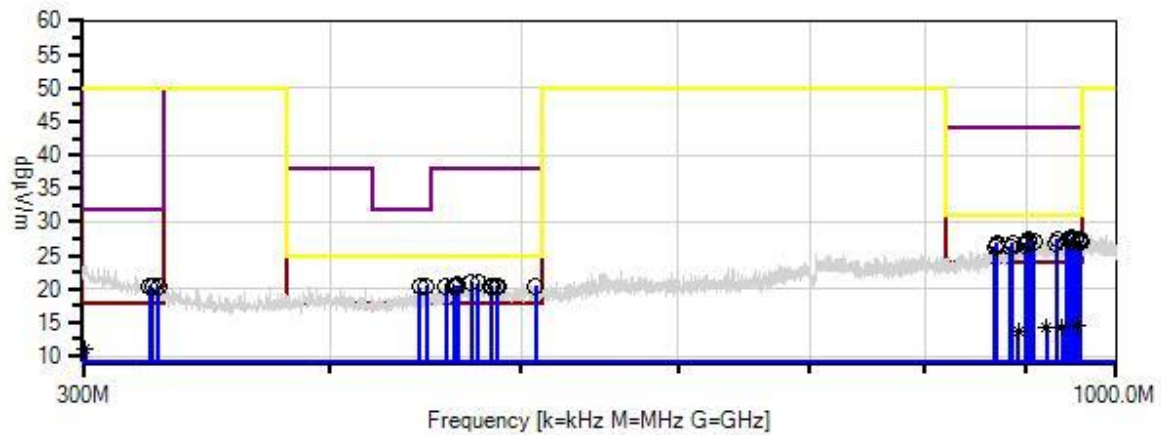
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 300-1000MHz Mobile Temperature: 23°C Humidity: 55% Atmospheric Pressure: 101.6kPa Ambient Scan

Texas Instruments WO#: 99145 Sequence#: 11 Date: 10/26/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Vert



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamplifier-TOP AMP	8447F	1/8/2015	1/8/2017
	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018
T5	AN00978A	Log Periodic Antenna-ARP958 Calibration	SAS-200/510	5/21/2015	5/21/2017

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	948.809M	25.8	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.6	24.0	+3.6	Vert
2	903.284M	26.1	+0.9 +24.9	+1.7	+1.2	-27.3	+0.0	27.5	24.0	+3.5	Vert
3	933.800M	25.8	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	27.5	24.0	+3.5	Vert
4	949.704M	25.6	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.4	24.0	+3.4	Vert
5	952.984M	25.6	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.4	24.0	+3.4	Vert
6	944.734M	25.5	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.3	24.0	+3.3	Vert
7	957.755M	25.4	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.3	24.0	+3.3	Vert
8	908.751M	25.7	+0.9 +24.9	+1.7	+1.2	-27.2	+0.0	27.2	24.0	+3.2	Vert
9	959.544M	25.2	+0.9 +25.1	+1.7	+1.3	-27.0	+0.0	27.2	24.0	+3.2	Vert
10	471.892M	26.4	+0.6 +20.1	+1.2	+0.7	-28.0	+0.0	21.0	18.0	+3.0	Vert
11	902.290M	25.6	+0.9 +24.9	+1.7	+1.2	-27.3	+0.0	27.0	24.0	+3.0	Vert
12	956.761M	25.1	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.0	24.0	+3.0	Vert
13	948.213M	25.2	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.0	24.0	+3.0	Vert
14	475.615M	26.2	+0.6 +20.2	+1.2	+0.7	-28.0	+0.0	20.9	18.0	+2.9	Vert
15	899.879M	25.5	+0.9 +24.9	+1.7	+1.2	-27.3	+0.0	26.9	24.0	+2.9	Vert

16	870.330M	26.7	+0.9 +23.7	+1.7	+1.2	-27.4	+0.0	26.8	24.0	+2.8	Vert
17	886.546M	26.0	+0.9 +24.3	+1.7	+1.2	-27.3	+0.0	26.8	24.0	+2.8	Vert
18	932.110M	25.1	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	26.7	24.0	+2.7	Vert
19	464.444M	26.4	+0.6 +19.7	+1.2	+0.7	-28.0	+0.0	20.6	18.0	+2.6	Vert
20	899.399M	25.2	+0.9 +24.9	+1.7	+1.2	-27.3	+0.0	26.6	24.0	+2.6	Vert
21	463.243M	26.4	+0.6 +19.7	+1.1	+0.7	-28.0	+0.0	20.5	18.0	+2.5	Vert
22	463.603M	26.3	+0.6 +19.7	+1.2	+0.7	-28.0	+0.0	20.5	18.0	+2.5	Vert
23	869.729M	26.4	+0.9 +23.7	+1.7	+1.2	-27.4	+0.0	26.5	24.0	+2.5	Vert
24	482.342M	26.0	+0.6 +20.0	+1.2	+0.7	-28.0	+0.0	20.5	18.0	+2.5	Vert
25	447.507M	27.0	+0.5 +19.0	+1.1	+0.7	-27.9	+0.0	20.4	18.0	+2.4	Vert
26	457.838M	26.6	+0.5 +19.4	+1.1	+0.7	-27.9	+0.0	20.4	18.0	+2.4	Vert
27	324.144M	25.5	+0.4 +20.1	+0.8	+0.6	-27.0	+0.0	20.4	18.0	+2.4	Vert
28	327.507M	25.8	+0.4 +19.8	+0.8	+0.6	-27.0	+0.0	20.4	18.0	+2.4	Vert
29	462.282M	26.4	+0.6 +19.6	+1.1	+0.7	-28.0	+0.0	20.4	18.0	+2.4	Vert
30	486.426M	26.1	+0.6 +19.9	+1.2	+0.7	-28.1	+0.0	20.4	18.0	+2.4	Vert
31	508.528M	26.3	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	20.4	18.0	+2.4	Vert
32	483.063M	26.0	+0.6 +20.0	+1.2	+0.7	-28.1	+0.0	20.4	18.0	+2.4	Vert
33	485.826M	26.1	+0.6 +19.9	+1.2	+0.7	-28.1	+0.0	20.4	18.0	+2.4	Vert
34	325.345M	25.5	+0.4 +20.0	+0.8	+0.6	-27.0	+0.0	20.3	18.0	+2.3	Vert
35	444.144M	27.1	+0.5 +18.8	+1.1	+0.7	-27.9	+0.0	20.3	18.0	+2.3	Vert
36	868.408M	26.3	+0.9 +23.6	+1.7	+1.2	-27.4	+0.0	26.3	24.0	+2.3	Vert
37	884.384M	25.5	+0.9 +24.2	+1.7	+1.2	-27.3	+0.0	26.2	24.0	+2.2	Vert
38	300.800M Ave	12.6	+0.4 +23.6	+0.8	+0.5	-26.9	+0.0	11.0	18.0	-7.0	Vert
^	300.841M	25.2	+0.4 +23.6	+0.8	+0.5	-26.9	+0.0	23.6	18.0	+5.6	Vert

40	319.265M Ave	12.9	+0.4 +20.8	+0.8	+0.6	-27.0	+0.0	8.5	18.0	-9.5	Vert
^	319.339M	26.4	+0.4 +20.8	+0.8	+0.6	-27.0	+0.0	22.0	18.0	+4.0	Vert
^	319.339M	12.9	+0.4 +20.8	+0.8	+0.6	-27.0	+0.0	8.5	18.0	-9.5	Vert
43	954.971M Ave	12.5	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	14.4	24.0	-9.6	Vert
^	954.972M	25.7	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.6	24.0	+3.6	Vert
45	476.713M Ave	13.5	+0.6 +20.2	+1.2	+0.7	-28.0	+0.0	8.2	18.0	-9.8	Vert
^	476.697M	26.6	+0.6 +20.2	+1.2	+0.7	-28.0	+0.0	21.3	18.0	+3.3	Vert
47	921.955M Ave	12.6	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.2	24.0	-9.8	Vert
^	921.971M	26.1	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	27.7	24.0	+3.7	Vert
49	938.709M Ave	12.5	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	14.2	24.0	-9.8	Vert
^	938.770M	26.2	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	27.9	24.0	+3.9	Vert
51	479.737M Ave	13.4	+0.6 +20.1	+1.2	+0.7	-28.0	+0.0	8.0	18.0	-10.0	Vert
^	479.700M	26.4	+0.6 +20.1	+1.2	+0.7	-28.0	+0.0	21.0	18.0	+3.0	Vert
53	468.528M Ave	13.5	+0.6 +19.9	+1.2	+0.7	-28.0	+0.0	7.9	18.0	-10.1	Vert
^	468.528M	26.4	+0.6 +19.9	+1.2	+0.7	-28.0	+0.0	20.8	18.0	+2.8	Vert
55	892.511M Ave	12.6	+0.9 +24.6	+1.7	+1.2	-27.3	+0.0	13.7	24.0	-10.3	Vert
^	892.432M	26.2	+0.9 +24.6	+1.7	+1.2	-27.3	+0.0	27.3	24.0	+3.3	Vert
57	505.324M Ave	13.6	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	7.7	18.0	-10.3	Vert
^	505.285M	26.6	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	20.7	18.0	+2.7	Vert
59	501.709M Ave	13.5	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	7.6	18.0	-10.4	Vert
^	501.709M	27.1	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	21.2	18.0	+3.2	Vert
^	501.802M	26.6	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	20.7	18.0	+2.7	Vert
62	487.657M Ave	13.2	+0.6 +19.9	+1.2	+0.7	-28.1	+0.0	7.5	18.0	-10.5	Vert
^	487.627M	26.6	+0.6 +19.9	+1.2	+0.7	-28.1	+0.0	20.9	18.0	+2.9	Vert
64	390.691M Ave	13.5	+0.5 +18.4	+1.0	+0.6	-27.5	+0.0	6.5	18.0	-11.5	Vert
^	390.691M	27.5	+0.5 +18.4	+1.0	+0.6	-27.5	+0.0	20.5	18.0	+2.5	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 10/26/2016
 Test Type: **Radiated Scan** Time: 16:14:13
 Tested By: N. Gamez Sequence#: 12
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

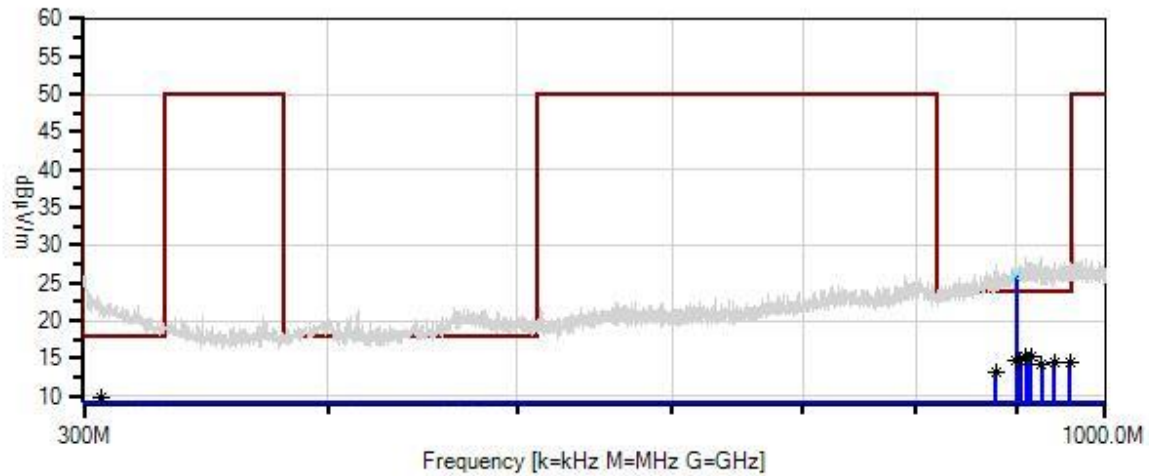
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 300-1000MHz Mobile Temperature: 23°C Humidity: 55% Atmospheric Pressure: 101.6kPa Modification 33 was in place during testing.

Texas Instruments W/O#: 99145 Sequence#: 12 Date: 10/26/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Horiz



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018
T5	AN00978A	Log Periodic Antenna-ARP958 Calibration	SAS-200/510	5/21/2015	5/21/2017

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	899.937M	24.4	+0.9	+1.7	+1.2	-27.3	+0.0	25.8	31.0	-5.2	Horiz
	QP		+24.9								
2	306.486M	12.4	+0.4	+0.8	+0.5	-26.9	+0.0	9.9	18.0	-8.1	Horiz
	Ave		+22.7								
^	306.486M	25.1	+0.4	+0.8	+0.5	-26.9	+0.0	22.6	18.0	+4.6	Horiz
			+22.7								
4	916.125M	13.7	+0.9	+1.7	+1.2	-27.2	+0.0	15.3	24.0	-8.7	Horiz
	Ave		+25.0								
^	916.125M	27.2	+0.9	+1.7	+1.2	-27.2	+0.0	28.8	24.0	+4.8	Horiz
			+25.0								
6	910.500M	13.7	+0.9	+1.7	+1.2	-27.2	+0.0	15.2	24.0	-8.8	Horiz
	Ave		+24.9								
^	910.500M	27.7	+0.9	+1.7	+1.2	-27.2	+0.0	29.2	24.0	+5.2	Horiz
			+24.9								
8	903.916M	13.4	+0.9	+1.7	+1.2	-27.3	+0.0	14.8	24.0	-9.2	Horiz
	Ave		+24.9								
^	903.916M	27.2	+0.9	+1.7	+1.2	-27.3	+0.0	28.6	24.0	+4.6	Horiz
			+24.9								
10	899.937M	13.4	+0.9	+1.7	+1.2	-27.3	+0.0	14.8	24.0	-9.2	Horiz
	Ave		+24.9								
^	899.937M	29.9	+0.9	+1.7	+1.2	-27.3	+0.0	31.3	24.0	+7.3	Horiz
			+24.9								
12	474.498M	13.8	+0.6	+1.2	+0.7	-28.0	+0.0	8.5	18.0	-9.5	Horiz
	Ave		+20.2								
^	474.498M	27.3	+0.6	+1.2	+0.7	-28.0	+0.0	22.0	18.0	+4.0	Horiz
			+20.2								
14	941.933M	12.6	+0.9	+1.7	+1.2	-27.1	+0.0	14.4	24.0	-9.6	Horiz
	Ave		+25.1								
^	941.933M	26.6	+0.9	+1.7	+1.2	-27.1	+0.0	28.4	24.0	+4.4	Horiz
			+25.1								

16	958.675M Ave	12.5	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	14.4	24.0	-9.6	Horiz
^	958.675M	26.3	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	28.2	24.0	+4.2	Horiz
18	927.406M Ave	12.7	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.3	24.0	-9.7	Horiz
^	927.406M	25.9	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	27.5	24.0	+3.5	Horiz
20	320.234M Ave	12.8	+0.4 +20.7	+0.8	+0.6	-27.0	+0.0	8.3	18.0	-9.7	Horiz
^	320.234M	26.2	+0.4 +20.7	+0.8	+0.6	-27.0	+0.0	21.7	18.0	+3.7	Horiz
22	481.658M Ave	13.6	+0.6 +20.0	+1.2	+0.7	-28.0	+0.0	8.1	18.0	-9.9	Horiz
^	481.658M	26.9	+0.6 +20.0	+1.2	+0.7	-28.0	+0.0	21.4	18.0	+3.4	Horiz
24	466.626M Ave	13.8	+0.6 +19.8	+1.2	+0.7	-28.0	+0.0	8.1	18.0	-9.9	Horiz
^	466.626M	27.5	+0.6 +19.8	+1.2	+0.7	-28.0	+0.0	21.8	18.0	+3.8	Horiz
26	503.360M Ave	13.6	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	7.7	18.0	-10.3	Horiz
^	503.360M	26.5	+0.6 +19.5	+1.3	+0.8	-28.1	+0.0	20.6	18.0	+2.6	Horiz
28	324.226M Ave	12.6	+0.4 +20.1	+0.8	+0.6	-27.0	+0.0	7.5	18.0	-10.5	Horiz
^	324.226M	25.6	+0.4 +20.1	+0.8	+0.6	-27.0	+0.0	20.5	18.0	+2.5	Horiz
30	411.321M Ave	14.6	+0.5 +18.4	+1.0	+0.6	-27.6	+0.0	7.5	18.0	-10.5	Horiz
^	411.321M	27.7	+0.5 +18.4	+1.0	+0.6	-27.6	+0.0	20.6	18.0	+2.6	Horiz
32	329.033M Ave	12.8	+0.4 +19.7	+0.8	+0.6	-27.0	+0.0	7.3	18.0	-10.7	Horiz
^	329.033M	26.5	+0.4 +19.7	+0.8	+0.6	-27.0	+0.0	21.0	18.0	+3.0	Horiz
34	878.522M Ave	12.8	+0.9 +24.0	+1.7	+1.2	-27.4	+0.0	13.2	24.0	-10.8	Horiz
^	878.522M	25.4	+0.9 +24.0	+1.7	+1.2	-27.4	+0.0	25.8	24.0	+1.8	Horiz
36	458.366M Ave	13.2	+0.5 +19.5	+1.1	+0.7	-27.9	+0.0	7.1	18.0	-10.9	Horiz
^	458.366M	27.1	+0.5 +19.5	+1.1	+0.7	-27.9	+0.0	21.0	18.0	+3.0	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 10/26/2016
 Test Type: **Radiated Scan** Time: 16:38:09
 Tested By: N. Gamez Sequence#: 13
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

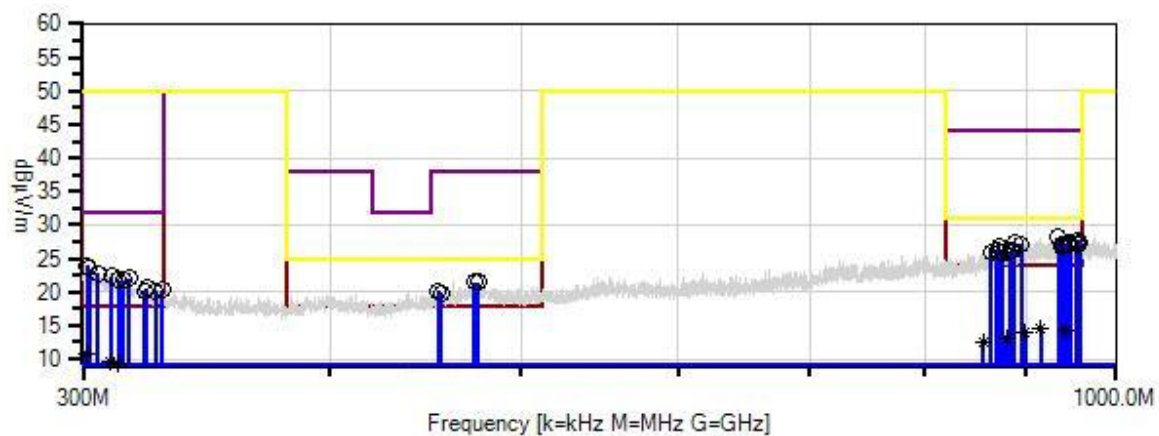
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 300-1000MHz Mobile Temperature: 23°C Humidity: 55% Atmospheric Pressure: 101.6kPa Ambient Scan

Texas Instruments W/O#: 99145 Sequence#: 13 Date: 10/26/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Horiz



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	ANP06684	Cable	PE3062-120	6/16/2016	6/16/2018
T2	ANP06686	Cable	PE3062-240	6/16/2016	6/16/2018
T3	ANP01183	Cable	CNT-195	9/1/2015	9/1/2017
T4	AN00501	Preamp-TOP AMP	8447F	1/8/2015	1/8/2017
	AN00046	Bicon Antenna-ARP958 (dB/m)	SAS-200/540	3/15/2016	3/15/2018
T5	AN00978A	Log Periodic Antenna-ARP958 Calibration	SAS-200/510	5/21/2015	5/21/2017

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	301.562M	25.6	+0.4 +23.5	+0.8	+0.5	-26.9	+0.0	23.9	18.0	+5.9	Horiz
2	302.162M	25.3	+0.4 +23.4	+0.8	+0.5	-26.9	+0.0	23.5	18.0	+5.5	Horiz
3	305.165M	25.1	+0.4 +22.9	+0.8	+0.5	-26.9	+0.0	22.8	18.0	+4.8	Horiz
4	310.090M	25.3	+0.4 +22.2	+0.8	+0.6	-26.9	+0.0	22.4	18.0	+4.4	Horiz
5	934.893M	26.4	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	28.1	24.0	+4.1	Horiz
6	316.577M	25.9	+0.4 +21.2	+0.8	+0.6	-26.9	+0.0	22.0	18.0	+4.0	Horiz
7	312.613M	25.1	+0.4 +21.8	+0.8	+0.6	-26.9	+0.0	21.8	18.0	+3.8	Horiz
8	314.655M	25.3	+0.4 +21.5	+0.8	+0.6	-26.9	+0.0	21.7	18.0	+3.7	Horiz
9	955.866M	25.8	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.7	24.0	+3.7	Horiz
10	475.255M	26.8	+0.6 +20.2	+1.2	+0.7	-28.0	+0.0	21.5	18.0	+3.5	Horiz
11	473.453M	26.7	+0.6 +20.2	+1.2	+0.7	-28.0	+0.0	21.4	18.0	+3.4	Horiz
12	958.153M	25.5	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.4	24.0	+3.4	Horiz
13	888.108M	26.4	+0.9 +24.4	+1.7	+1.2	-27.3	+0.0	27.3	24.0	+3.3	Horiz
14	945.429M	25.5	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.3	24.0	+3.3	Horiz
15	957.159M	25.4	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.3	24.0	+3.3	Horiz

16	956.860M	25.4	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.3	24.0	+3.3	Horiz
17	943.839M	25.4	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.2	24.0	+3.2	Horiz
18	940.758M	25.4	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.2	24.0	+3.2	Horiz
19	895.315M	25.9	+0.9 +24.7	+1.7	+1.2	-27.3	+0.0	27.1	24.0	+3.1	Horiz
20	947.318M	25.3	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	27.1	24.0	+3.1	Horiz
21	938.770M	25.3	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	27.0	24.0	+3.0	Horiz
22	954.773M	25.1	+0.9 +25.1	+1.7	+1.3	-27.1	+0.0	27.0	24.0	+3.0	Horiz
23	938.074M	25.2	+0.9 +25.0	+1.7	+1.2	-27.1	+0.0	26.9	24.0	+2.9	Horiz
24	871.771M	26.7	+0.9 +23.7	+1.7	+1.2	-27.4	+0.0	26.8	24.0	+2.8	Horiz
25	323.063M	25.5	+0.4 +20.3	+0.8	+0.6	-27.0	+0.0	20.6	18.0	+2.6	Horiz
26	329.189M	25.8	+0.4 +19.7	+0.8	+0.6	-27.0	+0.0	20.3	18.0	+2.3	Horiz
27	885.105M	25.5	+0.9 +24.3	+1.7	+1.2	-27.3	+0.0	26.3	24.0	+2.3	Horiz
28	886.065M	25.5	+0.9 +24.3	+1.7	+1.2	-27.3	+0.0	26.3	24.0	+2.3	Horiz
29	326.547M	25.5	+0.4 +19.9	+0.8	+0.6	-27.0	+0.0	20.2	18.0	+2.2	Horiz
30	322.342M	25.0	+0.4 +20.4	+0.8	+0.6	-27.0	+0.0	20.2	18.0	+2.2	Horiz
31	453.633M	26.6	+0.5 +19.2	+1.1	+0.7	-27.9	+0.0	20.2	18.0	+2.2	Horiz
32	869.849M	26.0	+0.9 +23.7	+1.7	+1.2	-27.4	+0.0	26.1	24.0	+2.1	Horiz
33	864.204M	26.2	+0.9 +23.5	+1.7	+1.1	-27.4	+0.0	26.0	24.0	+2.0	Horiz
34	876.456M	25.7	+0.9 +23.9	+1.7	+1.2	-27.4	+0.0	26.0	24.0	+2.0	Horiz
35	883.423M	25.3	+0.9 +24.2	+1.7	+1.2	-27.3	+0.0	26.0	24.0	+2.0	Horiz
36	455.315M	26.2	+0.5 +19.3	+1.1	+0.7	-27.9	+0.0	19.9	18.0	+1.9	Horiz
37	875.735M	25.6	+0.9 +23.9	+1.7	+1.2	-27.4	+0.0	25.9	24.0	+1.9	Horiz
38	873.453M	25.7	+0.9 +23.8	+1.7	+1.2	-27.4	+0.0	25.9	24.0	+1.9	Horiz
39	301.056M Ave	12.5	+0.4 +23.5	+0.8	+0.5	-26.9	+0.0	10.8	18.0	-7.2	Horiz
^	300.961M	25.6	+0.4 +23.6	+0.8	+0.5	-26.9	+0.0	24.0	18.0	+6.0	Horiz

41	309.503M Ave	12.5	+0.4 +22.3	+0.8	+0.6	-26.9	+0.0	9.7	18.0	-8.3	Horiz
^	309.489M	25.7	+0.4 +22.3	+0.8	+0.6	-26.9	+0.0	22.9	18.0	+4.9	Horiz
43	312.199M Ave	12.5	+0.4 +21.8	+0.8	+0.6	-26.9	+0.0	9.2	18.0	-8.8	Horiz
^	312.252M	25.7	+0.4 +21.8	+0.8	+0.6	-26.9	+0.0	22.4	18.0	+4.4	Horiz
45	916.227M Ave	12.8	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	14.4	24.0	-9.6	Horiz
^	916.206M	26.6	+0.9 +25.0	+1.7	+1.2	-27.2	+0.0	28.2	24.0	+4.2	Horiz
47	943.075M Ave	12.5	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	14.3	24.0	-9.7	Horiz
^	943.044M	26.3	+0.9 +25.1	+1.7	+1.2	-27.1	+0.0	28.1	24.0	+4.1	Horiz
49	479.171M Ave	13.4	+0.6 +20.1	+1.2	+0.7	-28.0	+0.0	8.0	18.0	-10.0	Horiz
^	479.219M	26.6	+0.6 +20.1	+1.2	+0.7	-28.0	+0.0	21.2	18.0	+3.2	Horiz
51	898.762M Ave	12.6	+0.9 +24.8	+1.7	+1.2	-27.3	+0.0	13.9	24.0	-10.1	Horiz
^	898.798M	25.9	+0.9 +24.8	+1.7	+1.2	-27.3	+0.0	27.2	24.0	+3.2	Horiz
53	461.845M Ave	13.4	+0.6 +19.6	+1.1	+0.7	-28.0	+0.0	7.4	18.0	-10.6	Horiz
^	461.922M	27.6	+0.6 +19.6	+1.1	+0.7	-28.0	+0.0	21.6	18.0	+3.6	Horiz
55	329.647M Ave	12.8	+0.4 +19.7	+0.8	+0.6	-27.0	+0.0	7.3	18.0	-10.7	Horiz
^	329.550M	26.8	+0.4 +19.7	+0.8	+0.6	-27.0	+0.0	21.3	18.0	+3.3	Horiz
57	880.515M Ave	12.6	+0.9 +24.1	+1.7	+1.2	-27.3	+0.0	13.2	24.0	-10.8	Horiz
^	880.540M	25.5	+0.9 +24.1	+1.7	+1.2	-27.3	+0.0	26.1	24.0	+2.1	Horiz
59	438.558M Ave	13.4	+0.5 +18.6	+1.1	+0.7	-27.8	+0.0	6.5	18.0	-11.5	Horiz
^	438.618M	26.8	+0.5 +18.6	+1.1	+0.7	-27.8	+0.0	19.9	18.0	+1.9	Horiz
61	855.940M Ave	12.9	+0.9 +23.3	+1.7	+1.1	-27.4	+0.0	12.5	24.0	-11.5	Horiz
^	855.915M	26.6	+0.9 +23.3	+1.7	+1.1	-27.4	+0.0	26.2	24.0	+2.2	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 10:02:29
 Tested By: N. Gamez Sequence#: 19
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

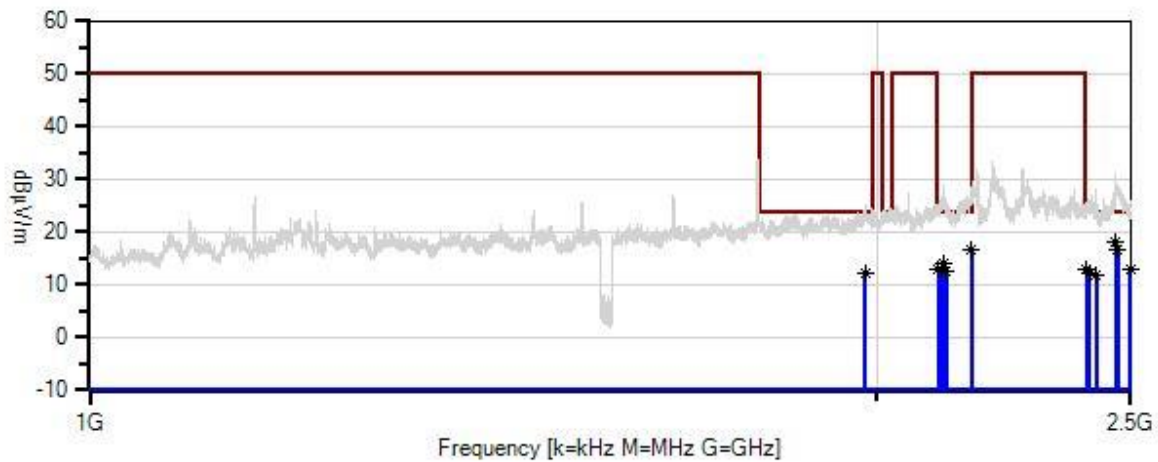
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1-2.5GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 1: Serializer Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 19 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Vert
 Position 1



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2467.022M	41.9	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	18.2	24.0	-5.8	Vert
^	2467.022M	54.7	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	31.0	24.0	+7.0	Vert
3	2471.059M	40.4	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	16.7	24.0	-7.3	Vert
^	2471.059M	52.7	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	29.0	24.0	+5.0	Vert
5	2171.995M	41.4	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	16.6	24.0	-7.4	Vert
^	2171.995M	54.3	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	29.5	24.0	+5.5	Vert
7	2120.057M	38.8	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	14.1	24.0	-9.9	Vert
^	2120.057M	54.5	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	29.8	24.0	+5.8	Vert
9	2404.800M	37.0	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	13.1	24.0	-10.9	Vert
^	2404.800M	50.0	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	26.1	24.0	+2.1	Vert
11	2109.995M	37.7	-58.2 +1.8	+2.2	+1.1	+28.2	+0.0	12.8	24.0	-11.2	Vert
^	2109.995M	50.2	-58.2 +1.8	+2.2	+1.1	+28.2	+0.0	25.3	24.0	+1.3	Vert

13	2499.558M Ave	36.4	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	12.8	24.0	-11.2	Vert
^	2499.558M	49.1	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	25.5	24.0	+1.5	Vert
15	2125.396M Ave	37.2	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	12.5	24.0	-11.5	Vert
^	2125.396M	50.5	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	25.8	24.0	+1.8	Vert
17	2409.627M Ave	36.2	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	12.3	24.0	-11.7	Vert
^	2409.627M	49.6	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	25.7	24.0	+1.7	Vert
19	1978.918M Ave	37.4	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	12.1	24.0	-11.9	Vert
^	1978.918M	51.3	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	26.0	24.0	+2.0	Vert
21	2424.163M Ave	35.5	-58.2 +1.9	+2.4	+1.2	+28.9	+0.0	11.7	24.0	-12.3	Vert
^	2424.163M	51.4	-58.2 +1.9	+2.4	+1.2	+28.9	+0.0	27.6	24.0	+3.6	Vert

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 11:31:16
 Tested By: N. Gamez Sequence#: 22
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

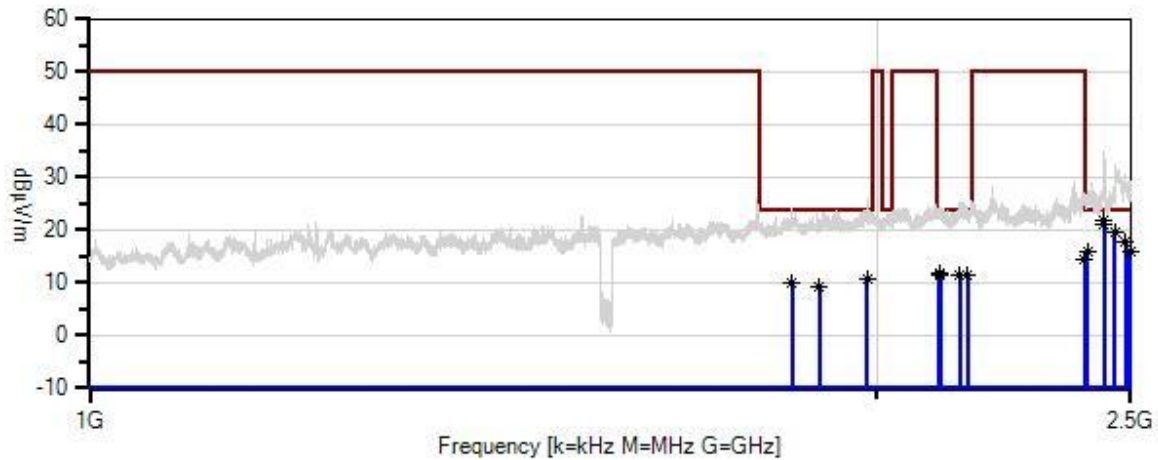
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1-2.5GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 1 Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 22 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Horiz
 Position 1



- Sweep Data
 - Readings
 - Peak Readings
 - × QP Readings
 - * Average Readings
 - ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2441.562M	45.6	-58.3	+2.4	+1.2	+29.0	+0.0	21.8	24.0	-2.2	Horiz
	Ave		+1.9								
^	2441.562M	58.8	-58.3	+2.4	+1.2	+29.0	+0.0	35.0	24.0	+11.0	Horiz
			+1.9								
3	2441.762M	45.0	-58.3	+2.4	+1.2	+29.0	+0.0	21.2	24.0	-2.8	Horiz
	Ave		+1.9								
^	2441.762M	58.6	-58.3	+2.4	+1.2	+29.0	+0.0	34.8	24.0	+10.8	Horiz
			+1.9								
5	2465.880M	43.5	-58.3	+2.4	+1.2	+29.1	+0.0	19.8	24.0	-4.2	Horiz
	Ave		+1.9								
^	2465.880M	56.6	-58.3	+2.4	+1.2	+29.1	+0.0	32.9	24.0	+8.9	Horiz
			+1.9								
7	2487.306M	41.3	-58.3	+2.4	+1.2	+29.2	+0.0	17.7	24.0	-6.3	Horiz
	Ave		+1.9								
^	2487.306M	54.8	-58.3	+2.4	+1.2	+29.2	+0.0	31.2	24.0	+7.2	Horiz
			+1.9								
9	2499.254M	39.5	-58.3	+2.4	+1.2	+29.2	+0.0	15.9	24.0	-8.1	Horiz
	Ave		+1.9								
^	2499.254M	53.8	-58.3	+2.4	+1.2	+29.2	+0.0	30.2	24.0	+6.2	Horiz
			+1.9								
11	2406.184M	39.7	-58.2	+2.4	+1.2	+28.8	+0.0	15.8	24.0	-8.2	Horiz
	Ave		+1.9								
^	2406.184M	52.2	-58.2	+2.4	+1.2	+28.8	+0.0	28.3	24.0	+4.3	Horiz
			+1.9								

13	2401.052M Ave	38.5	-58.2 +1.9	+2.4	+1.1	+28.8	+0.0	14.5	24.0	-9.5	Horiz
^	2401.052M	51.6	-58.2 +1.9	+2.4	+1.1	+28.8	+0.0	27.6	24.0	+3.6	Horiz
15	2114.483M Ave	36.4	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	11.7	24.0	-12.3	Horiz
^	2114.483M	50.0	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	25.3	24.0	+1.3	Horiz
17	2164.446M Ave	36.4	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.6	24.0	-12.4	Horiz
^	2164.446M	49.5	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	24.7	24.0	+0.7	Horiz
19	2111.773M Ave	36.3	-58.1 +1.8	+2.2	+1.1	+28.2	+0.0	11.5	24.0	-12.5	Horiz
^	2111.773M	49.9	-58.1 +1.8	+2.2	+1.1	+28.2	+0.0	25.1	24.0	+1.1	Horiz
21	2150.323M Ave	36.3	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.5	24.0	-12.5	Horiz
^	2150.323M	49.9	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	25.1	24.0	+1.1	Horiz
23	1983.025M Ave	36.2	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	10.9	24.0	-13.1	Horiz
^	1983.025M	50.3	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	25.0	24.0	+1.0	Horiz
25	1855.381M Ave	35.9	-58.3 +1.7	+2.1	+1.0	+27.5	+0.0	9.9	24.0	-14.1	Horiz
^	1855.381M	50.4	-58.3 +1.7	+2.1	+1.0	+27.5	+0.0	24.4	24.0	+0.4	Horiz
27	1900.290M Ave	34.9	-58.3 +1.7	+2.1	+1.0	+27.8	+0.0	9.2	24.0	-14.8	Horiz
^	1900.290M	48.2	-58.3 +1.7	+2.1	+1.0	+27.8	+0.0	22.5	24.0	-1.5	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 13:58:46
 Tested By: N. Gamez Sequence#: 25
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

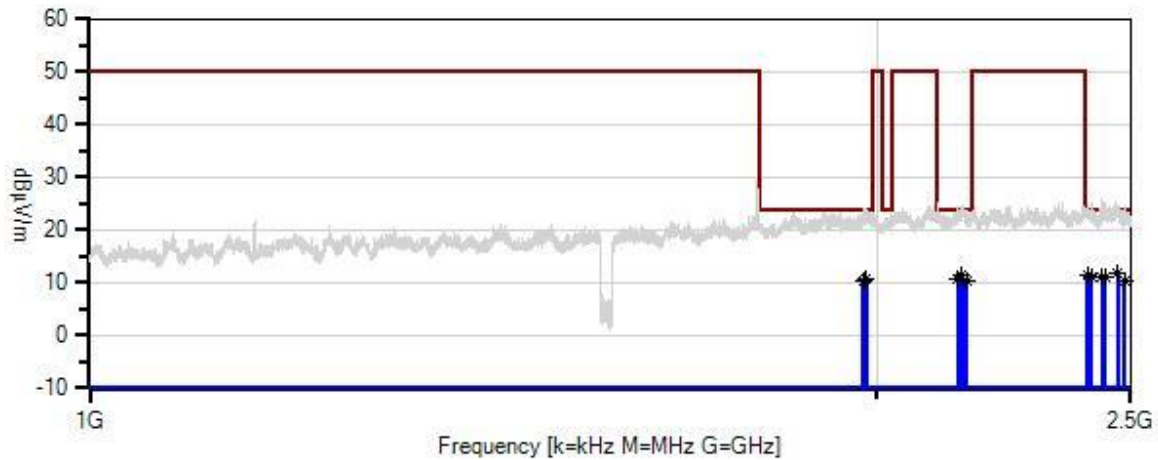
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1-2.5GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 2 Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 25 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Horiz
 Position 2



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	2470.332M	35.5	-58.3	+2.4	+1.2	+29.1	+0.0	11.8	24.0	-12.2	Horiz
	Ave		+1.9								
^	2470.332M	49.4	-58.3	+2.4	+1.2	+29.1	+0.0	25.7	24.0	+1.7	Horiz
			+1.9								
3	2406.752M	35.5	-58.2	+2.4	+1.2	+28.8	+0.0	11.6	24.0	-12.4	Horiz
	Ave		+1.9								
^	2406.752M	48.5	-58.2	+2.4	+1.2	+28.8	+0.0	24.6	24.0	+0.6	Horiz
			+1.9								
5	2154.083M	36.2	-58.1	+2.3	+1.1	+28.1	+0.0	11.4	24.0	-12.6	Horiz
	Ave		+1.8								
^	2154.083M	49.7	-58.1	+2.3	+1.1	+28.1	+0.0	24.9	24.0	+0.9	Horiz
			+1.8								
7	2414.131M	34.9	-58.1	+2.4	+1.2	+28.8	+0.0	11.1	24.0	-12.9	Horiz
	Ave		+1.9								
^	2414.131M	48.5	-58.1	+2.4	+1.2	+28.8	+0.0	24.7	24.0	+0.7	Horiz
			+1.9								
9	2443.002M	34.9	-58.3	+2.4	+1.2	+29.0	+0.0	11.1	24.0	-12.9	Horiz
	Ave		+1.9								
^	2443.002M	49.2	-58.3	+2.4	+1.2	+29.0	+0.0	25.4	24.0	+1.4	Horiz
			+1.9								
11	2437.960M	34.8	-58.3	+2.4	+1.2	+29.0	+0.0	11.0	24.0	-13.0	Horiz
	Ave		+1.9								
^	2437.960M	51.6	-58.3	+2.4	+1.2	+29.0	+0.0	27.8	24.0	+3.8	Horiz
			+1.9								

13	2147.250M Ave	35.7	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	10.9	24.0	-13.1	Horiz
^	2147.250M	49.3	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	24.5	24.0	+0.5	Horiz
15	1980.708M Ave	35.9	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	10.6	24.0	-13.4	Horiz
^	1980.708M	49.9	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	24.6	24.0	+0.6	Horiz
17	2163.180M Ave	35.3	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	10.5	24.0	-13.5	Horiz
^	2163.180M	49.5	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	24.7	24.0	+0.7	Horiz
19	2486.815M Ave	34.0	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	10.4	24.0	-13.6	Horiz
^	2486.815M	48.1	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	24.5	24.0	+0.5	Horiz
21	1975.744M Ave	35.5	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	10.2	24.0	-13.8	Horiz
^	1975.744M	49.2	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	23.9	24.0	-0.1	Horiz

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
 Customer: **Texas Instruments**
 Specification: **CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave**
 Work Order #: **99145** Date: 11/11/2016
 Test Type: **Radiated Scan** Time: 15:11:57
 Tested By: N. Gamez Sequence#: 28
 Software: EMITest 5.03.02

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

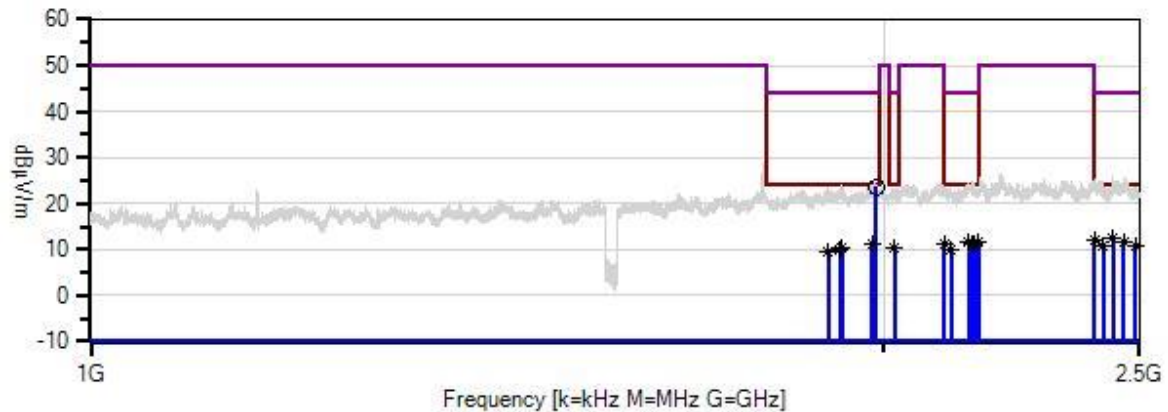
Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

CISPR25 (2008) Sec 6.4.4 Radiated Emissions 1-2.5GHz Mobile Temperature: 23°C Humidity: 50% Atmospheric Pressure: 101.5kPa Position 2 Modification 33 was in place during testing.
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Texas Instruments W/O#: 99145 Sequence#: 28 Date: 11/11/2016
 CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave Test Distance: 1 Meter Vert
 Position 2



- Sweep Data
- Readings
- Peak Readings
- × QP Readings
- * Average Readings
- ▼ Ambient
- Software Version: 5.03.02
- 1 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Ave
- 2 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - Peak
- 3 - CISPR 25 Section 6.4 - Class 5 Radiated Disturbances - Mobile - QP

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03434	5uH LISN	9117-5-TS-50-N	1/26/2016	1/26/2018
	AN03436	5uH LISN	9117-5-TS-50-N	1/27/2016	1/27/2018
	AN03471	Spectrum Analyzer	E4440A	1/4/2016	1/4/2018
T1	AN03114	Preamplifier	AMF-7D-00101800-30-10P	4/22/2015	4/22/2017
T2	ANP06126	Cable	32022-29094K-29094K-168TC	3/18/2015	3/18/2017
T3	ANP06138	Cable	32022-29094K-29094K-72TC	3/18/2015	3/18/2017
T4	AN02157	Horn Antenna-ARP958 Calibration	3115	12/2/2014	12/2/2016
T5	ANP06711	Cable	32022-29094K-29094K-132TC	11/21/2014	11/21/2016

Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

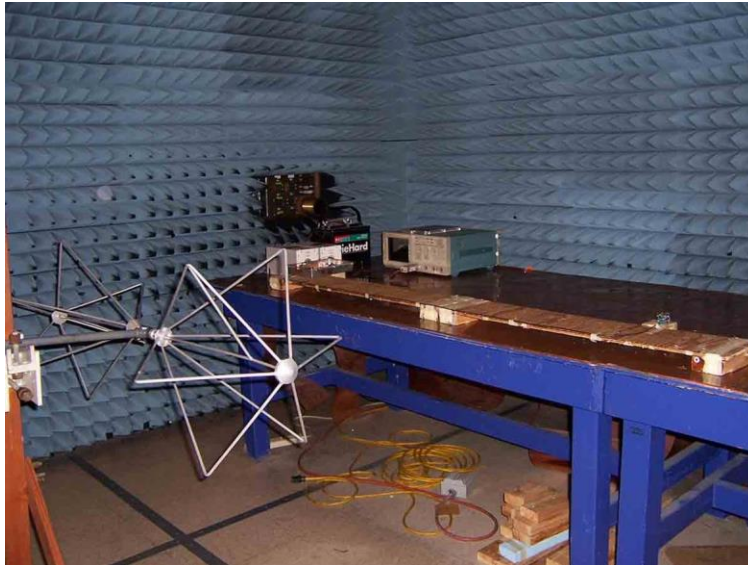
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	1984.905M	48.9	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	23.6	24.0	-0.4	Vert
2	2441.750M	36.1	-58.3 +1.9	+2.4	+1.2	+29.0	+0.0	12.3	24.0	-11.7	Vert
^	2441.750M	49.2	-58.3 +1.9	+2.4	+1.2	+29.0	+0.0	25.4	24.0	+1.4	Vert
4	2403.552M	35.8	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	11.9	24.0	-12.1	Vert
^	2403.552M	49.3	-58.2 +1.9	+2.4	+1.2	+28.8	+0.0	25.4	24.0	+1.4	Vert
6	2152.966M	36.4	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.6	24.0	-12.4	Vert
^	2152.966M	50.4	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	25.6	24.0	+1.6	Vert
8	2171.198M	36.4	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.6	24.0	-12.4	Vert
^	2171.198M	50.6	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	25.8	24.0	+1.8	Vert
10	2464.718M	35.3	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	11.6	24.0	-12.4	Vert
^	2464.718M	49.3	-58.3 +1.9	+2.4	+1.2	+29.1	+0.0	25.6	24.0	+1.6	Vert

12	2158.529M Ave	36.2	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.4	24.0	-12.6	Vert
^	2158.529M	50.5	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	25.7	24.0	+1.7	Vert
14	2108.240M Ave	36.0	-58.2 +1.8	+2.2	+1.1	+28.2	+0.0	11.1	24.0	-12.9	Vert
^	2108.240M	50.4	-58.2 +1.8	+2.2	+1.1	+28.2	+0.0	25.5	24.0	+1.5	Vert
16	2163.638M Ave	35.8	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	11.0	24.0	-13.0	Vert
^	2163.638M	49.3	-58.1 +1.8	+2.3	+1.1	+28.1	+0.0	24.5	24.0	+0.5	Vert
18	1978.199M Ave	36.3	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	11.0	24.0	-13.0	Vert
^	1978.199M	50.4	-58.2 +1.8	+2.2	+1.1	+27.8	+0.0	25.1	24.0	+1.1	Vert
20	2420.456M Ave	34.7	-58.2 +1.9	+2.4	+1.2	+28.9	+0.0	10.9	24.0	-13.1	Vert
^	2420.456M	47.8	-58.2 +1.9	+2.4	+1.2	+28.9	+0.0	24.0	24.0	+0.0	Vert
22	2489.871M Ave	34.3	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	10.7	24.0	-13.3	Vert
^	2489.871M	48.2	-58.3 +1.9	+2.4	+1.2	+29.2	+0.0	24.6	24.0	+0.6	Vert
24	1927.127M Ave	35.7	-58.2 +1.7	+2.1	+1.1	+27.8	+0.0	10.2	24.0	-13.8	Vert
^	1927.127M	48.9	-58.2 +1.7	+2.1	+1.1	+27.8	+0.0	23.4	24.0	-0.6	Vert
26	2018.555M Ave	35.6	-58.3 +1.8	+2.2	+1.1	+27.8	+0.0	10.2	24.0	-13.8	Vert
^	2018.555M	49.9	-58.3 +1.8	+2.2	+1.1	+27.8	+0.0	24.5	24.0	+0.5	Vert
28	2121.017M Ave	34.7	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	10.0	24.0	-14.0	Vert
^	2121.017M	47.8	-58.1 +1.8	+2.3	+1.1	+28.2	+0.0	23.1	24.0	-0.9	Vert
30	1923.309M Ave	35.4	-58.2 +1.7	+2.1	+1.1	+27.8	+0.0	9.9	24.0	-14.1	Vert
^	1923.309M	49.1	-58.2 +1.7	+2.1	+1.1	+27.8	+0.0	23.6	24.0	-0.4	Vert
32	1904.310M Ave	35.4	-58.3 +1.7	+2.1	+1.0	+27.8	+0.0	9.7	24.0	-14.3	Vert
^	1904.310M	48.9	-58.3 +1.7	+2.1	+1.0	+27.8	+0.0	23.2	24.0	-0.8	Vert

Test Setup Photo(s)



6.4 - 0.15-30MHz, Rod Antenna, Vertical Polarization, Broadcast



6.4 - 30-300MHz, Bicon Antenna, Horizontal Polarization, Broadcast



6.4 - 30-300MHz, Bicon Antenna, Vertical Polarization, Broadcast



6.4 - 300MHz-1GHz, Log Antenna, Horizontal Polarization, Broadcast



6.4 - 1-2.345GHz, HF Horn Antenna, Horizontal Polarization, Broadcast P1



6.4 - 1-2.345GHz, HF Horn Antenna, Vertical Polarization, Broadcast P1



6.4 - 1-2.345GHz, HF Horn Antenna, Horizontal Polarization, Broadcast P2



6.4 - 1-2.345GHz, HF Horn Antenna, Vertical Polarization, Broadcast P2



6.4 - 1.567-1.583GHz, HF Horn Antenna, Horizontal Polarization, GPS Mobile P1



6.4 - 1.567-1.583GHz, HF Horn Antenna, Vertical Polarization, GPS Mobile P1



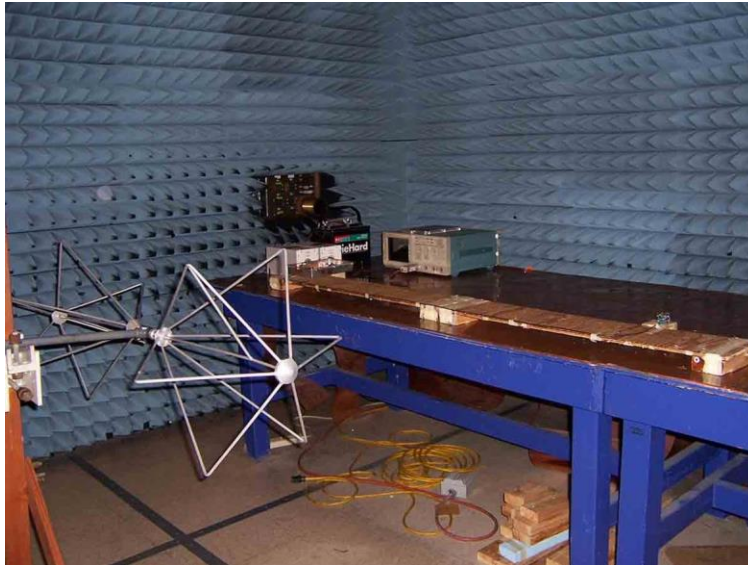
6.4 - 1.567-1.583GHz, HF Horn Antenna, Horizontal Polarization, GPS Mobile P2



6.4 - 1.567-1.583GHz, HF Horn Antenna, Vertical Polarization, GPS Mobile P2



6.4 - 26-30MHz, Rod Antenna, Vertical Polarization, Mobile



6.4 - 30-300MHz, Bicon Antenna, Horizontal Polarization, Mobile



6.4 - 30-300MHz, Bicon Antenna, Vertical Polarization, Mobile



6.4 - 300MHz-1GHz, Log Antenna, Horizontal Polarization, Mobile



6.4 - 1-2.5GHz, HF Horn Antenna, Horizontal Polarization, Mobile P1



6.4 - 1-2.5GHz, HF Horn Antenna, Vertical Polarization, Mobile P1



6.4 - 1-2.5GHz, HF Horn Antenna, Horizontal Polarization, Mobile P2



6.4 - 1-2.5GHz, HF Horn Antenna, Vertical Polarization, Mobile P2

ISO 11452 IMMUNITY

Immunity Setup and Monitoring

Equipment Setup: The DUT is setup such that the Serializer is connected to the Deserializer with a cable and placed on 5cm non-conducted support. The internal clock on the Serializer has been programmed for 100MHz. EUT set up in configuration A.

Degradation Criteria: If the DUT has degradation, the LED light of lock latch (D5) on the Deserializer unit will turn on.

Monitoring: The Customer is monitoring for degradation via his oscilloscope.

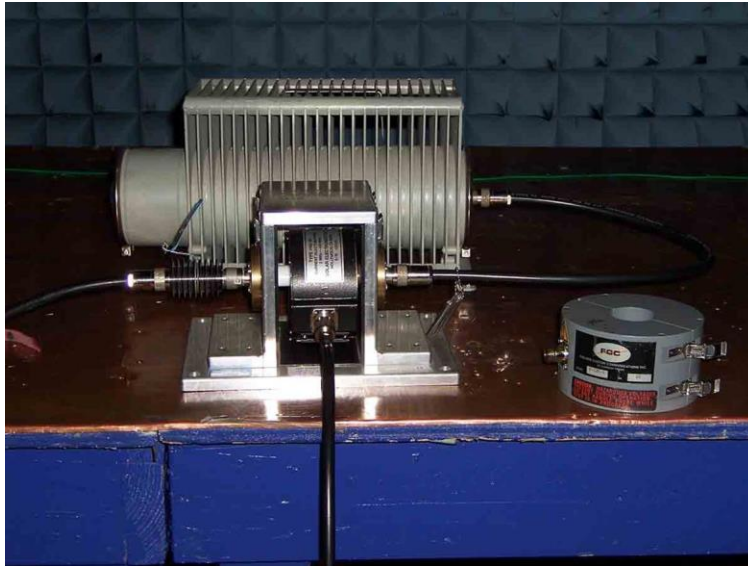
ISO 11452-4 - BULK CURRENT INJECTION (BCI)

Test Setup/Conditions			
Test Location:	Fremont	Test Engineer:	N. Gamez
Test Method:	ISO 11452-2 (2004)	Test Date(s):	10/7-10/2016
Test Level:	100mA 1-400MHz, CW & 80%AM 1kHz modulation at 150mm, 450mm, & 750mm test distance.		
Declarations:	Modification 6 was in place during testing.		
Configuration:	A		

Test Equipment					
Asset #	Description	Manufacturer	Model	Cal Date	Cal Due
03470	Spectrum Analyzer	Agilent	E4440A	12/9/2015	12/9/2017
01406	Spectrum Analyzer	HP	8564E	10/10/2016	10/10/2018
01367	Amplifier	Amplifier Research	150A100A	1/23/2015	1/23/2017
00640	Amplifier	Amplifier Research	50W1000A	3/26/2015	3/26/2017
01363	RF Generator	Marconi	2022D	3/11/2015	3/11/2017
02671	Directional Coupler	Werlatone	C5571-10	1/13/2015	1/13/2017
P05713	Attenuator	Pasternack	PE7015-20	3/24/2015	3/24/2017
P01898	RF Load	Bird	8201	2/18/2015	2/18/2017
02145	Bulk Injection Probe	FCC	F-130-1-A	12/5/2014	12/5/2014
03271	Current Injection Probe	Solar	9217-1N	2/1/2016	2/1/2018

Test Results		
	Test Results	Test Observations
Serializer	No degradation	No degradation observed for CW or 80%AM 1kHz tests at 150mm, 450mm, & 750mm distances
Deserializer	No degradation	No degradation observed for CW or 80%AM 1kHz tests at 150mm, 450mm, & 750mm distances

Test Setup Photos



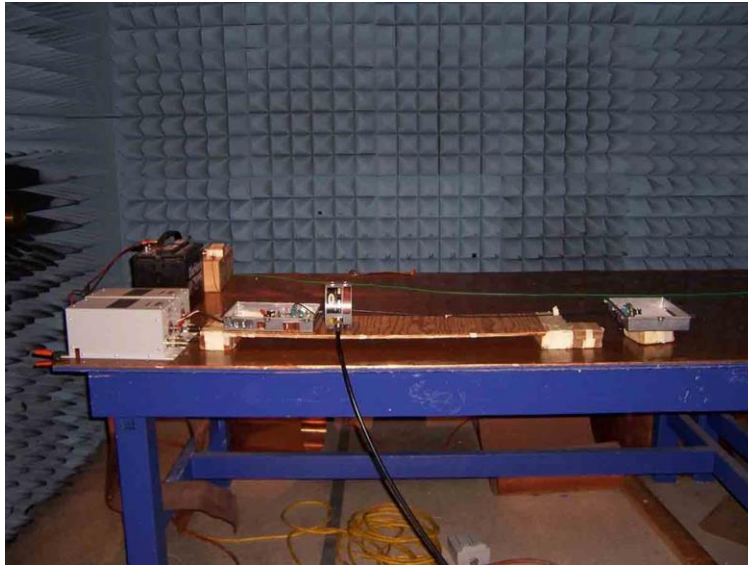
ISO 11452 - BCI Calibration



150mm, Deserializer



450mm, Deserializer



750mm, Deserializer



150mm, Serializer



450mm, Serializer



750mm, Serializer

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The test harness was routed consistent with the requirements of the standard, dependent upon the test being executed. All interface cables associated with normal operation, as specified by the manufacturer, were connected to the available ports of the test unit. Cables were of the type and length specified in the individual requirements.

The equipment under test (EUT) and load simulator were set up over a ground plane in a manner consistent with the standard, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in $\text{dB}\mu\text{V}/\text{m}$, the spectrum analyzer reading in $\text{dB}\mu\text{V}$ was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS		
	Meter reading	($\text{dB}\mu\text{V}$)
+	Antenna Factor	(dB/m)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	($\text{dB}\mu\text{V}/\text{m}$)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. Some standards allow for bandwidths to be reduced in order to meet noise floor requirements. In this case, the bandwidth used is disclosed on the data sheets.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
CONDUCTED EMISSIONS	30 MHz	108MHz	120kHz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. All average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.