

Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-11, 2013		Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



DECLARATION	N OF COM	IPLIANCE - RF MEASUREMENT REPORT (FCC/IC)				
Test Lab Information	Name	CELLTECH LABS INC.				
lest Lab Information	Address	21-364 Lougheed Road, Kelowna, British Columbia V1X 7R8 Canada				
Took Lab Domintuntion No. (a)	FCC	714830				
Test Lab Registration No.(s)	IC	3874A-1				
Applicant Information	Name	KINETEKS CORPORATION.				
Applicant information	Address	#126-1020 Mainland St., British Columbia, Canada, V6B2T4				
	FCC	47 CFR Part 15.249				
Standard(s) & Procedure(s)	IC	RSS-210 Issue 8; RSS-Gen Issue 3				
	ANSI	C63.4-2003				
Device Classification(s)	FCC	Low Power Communication Device (DXX)				
Device Classification(s)	IC	Low-power License-exempt Radiocommunication Device				
Application Type(s)	FCC/IC	TCB/CB Certification				
Device Identifier(s)	FCC ID:	ZP2-TUSB001				
Device identifier(s)	IC:	9751A-TUSB001				
Device Model(s) Tested	Tractivity U	JSB				
Test Sample Serial No.	#7					
Transmit Frequency Band	2400 – 248	33.5 MHz				
Transmit Frequency Range	2400.5 MH	łz				
Max. RF Output Power (measured)	91.06 dBu	91.06 dBuV/m@3m				
Modulation	MSK	MSK				
Antenna Type(s) Tested	Integral, 2d	Integral, 2dBi				
Power Source(s) Tested	Laptop US	Laptop USB Port				

This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Part 15.249; Industry Canada RSS-210 Issue 8 and RSS-Gen Issue 3; and ANSI C63.4-2003.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

The results and statements contained in this report pertain only to the device(s) evaluated.

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Test Report Approved By

Di Namel

Glen Westwell

Laboratory Manager

Celltech Labs Inc.

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT: 2.4GHz Tractivity USB							Kineteks		
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Test Report Serial No.:	010813ZP2	2-T1209-E15	Report Issue Date:	5/13/2013
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TABLE OF CONTENTS

1.0 SCOPE	4
2.0 REFERENC	ES
	References
	CRITERIA4
	AND ACCREDITATIONS 5
	NFORMATION5
5.1 Applicant Inf	formation
5.2 DUT Descrip	otion
5.3 Mode(s) of 0	Operation Tested
	(s) 5
Appendix A	Field Strength of Intentional Radiator and Restricted Band Emissions
Appendix B	Radiated Spurious Emissions
Appendix C	Radiated Spurious Emissions – Band Edge
Appendix D	- Conducted Powerline Emissions Measurement
Appendix E	Antenna Requirements
Appendix F	Test Set up Photo's

FIGURES

Figure E.6-1 - Setup Drawing – Radiated TX Spurious Emissions (> 1 GHz)	7
Figure E.6-1 - Setup Drawing – Radiated TX Spurious Emissions (> 1 GHz)	. 11
Figure E.6-1 - Setup Drawing – Radiated TX Spurious Emissions (> 1 GHz)	
Tigare 2.6 1 Cotap Planning Tradition 17. Openious Emissions (F. F. Criz.)	

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT:	DUT : 2.4GHz Tractivity USB							Kineteks	
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	TEST SUMMARY									
F	Referenced Standard(s):	FCC	CFR Title 47 Part	15 Subpart (C					
<u>Appendix</u>	Description of Test	Procedure Reference	Limit Reference	Test Start	Test End	Result				
А	Field Strength of Intentional Radiators & Restricted Band Emissions	ANSI C63.4-2003	15.249(a)(d)	Jan 8	Jan 8	Pass				
В	Radiated Spurious Emissions	ANSI C63.4-2003	15.205,15.209	Jan 10	Jan 10	Pass				
С	Radiated Spurious Emissions – Band Edge	ANSI C63.4-2003	15.249(d),15.209	Jan 10	Jan 10	Pass				
D	Antenna Requirements	n/a	15.203	n/a	n/a	Pass				
F	Referenced Standard(s):	Industry Canada RSS-210 Issue 8								
<u>Appendix</u>	Description of Test	Procedure Reference	<u>Limit Reference</u>	Test Start	Test End	Result				
А	Field Strength of Intentional Radiators & Restricted Band Emissions	ANSI C63.4-2003	RSS-210 A8.2(a)	Jan 8	Jan 8	Pass				
В	Radiated Spurious Emissions	ANSI C63.4-2003	RSS-210 A8.2(a)	Jan 10	Jan 10	Pass				
С	Radiated Spurious Emissions – Band Edge	ANSI C63.4-2003	RSS-210 A8.2(a)	Jan 10	Jan 10	Pass				
D	Antenna Requirements	n/a	15.203	n/a	n/a	Pass				

REVISION LOG

Revision	Description	Implemented By	Issue Date	
1.0 1.1 1.2	Initial Release Corrected test dates, pg.3. Added emission search range pg. 10. Included part 15.207 data, pg.17-19	Glen Westwell	4/17/2013 4/17/2013 5/13/2013	

SIGNATORIES

Prepared By	Glen Westwell	Reviewed By	Mike Meaker	Date
	Lab Manager	Reviewed by	Engineering Technologist	5/13/2013

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT : 2.4GHz Tractivity USB							Kineteks		
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1.0 SCOPE

This report outlines the measurements made and results collected during electromagnetic emissions testing of Kinetics Tractivity USB. The measurement results were applied against the applicable FCC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication's Commission Code of Federal Regulations Title 47 Part 15 Subpart C and Industry Canada Radio Standards Specification RSS-210 Issue 8 and RSS-Gen Issue 3.

2.0 REFERENCES

2.1 Normative References

ANSI/ISO 17025:2005 General Requirements for competence of testing and calibration laboratories

IEEE/ANSI C63.4-2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic

Equipment in the Range of 9 kHz to 40 GHz

CFR Title 47 Part 15C Code of Federal Regulations

Title 47: Telecommunication
Part 15C: Intentional Radiators

IC Spectrum Management & Radio Standards Specification

Telecommunications Policy RSS-210 Issue 8 - Low-Power License-Exempt Radiocommunication Devices (All Frequency

Bands): Category I Equipment

RSS-Gen Issue 3 - General Requirements and Information for the Certification of

Radiocommunication Equipment

3.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. The DUT is considered to have passed the requirements if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:	2.4GHz Tractivity USB						Kineteks		
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4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 21-364 Lougheed Road, Kelowna, British Columbia, Canada V1X 7R8. The radiated emissions site conforms to the requirements set forth in ANSI C63.4 and is filed and listed with the FCC under Test Firm Registration Number 714830 and Industry Canada under Test Site File Number IC 3874A-1.

5.0 GENERAL INFORMATION

5.1 Applicant Information

Company Name	KINETEKS CORPORATION.
Address	#126-1020 Mainland St.
	Vancouver, British Columbia
	Canada, V6B2T4

5.2 DUT Description

Device (DUT)	2.4GHz Tractivity USB			
Device Model(s) Tested	Tractivity U	Tractivity USB		
Test Sample Serial No.(s)				
Device Identifier(s)	FCC ID:	ZP2-TUSB001		
Device identifier(e)	IC:	9751A-TUSB001		
Power Source(s) Tested	Laptop USB			
Antenna Type(s) Tested	Integral			

5.3 Mode(s) of Operation Tested

Transmit Frequency Range	2400.5 MHz
Transmitter Test Frequency(s)	2400.5 MHz
Transmitter Test Mode(s)	Continuous.
Modulation Type(s)	2-FSK/GFSK

5.4 Modification(s)

The EUT was configured for continuous transmit (worst case).

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT:	2.4GHz Tractivity USB						Kineteks		
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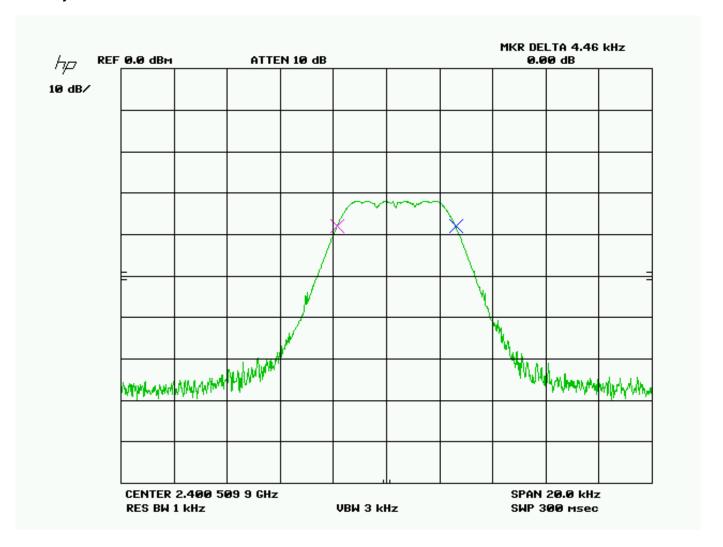


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IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1



99% Occupied Bandwidth = 4.46kHz

Tractivity USB



Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:	T: 2.4GHz Tractivity USB						Kineteks		
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
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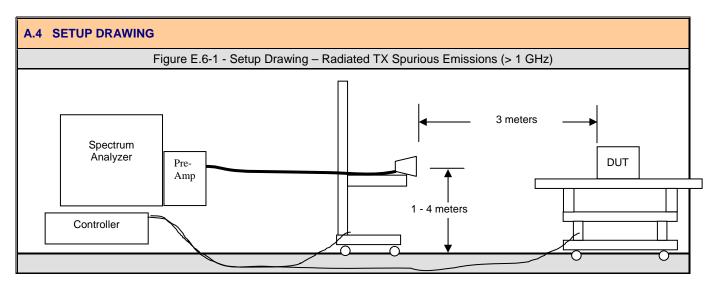


Appendix A Field Strength of Intentional Radiator and Restricted Band Emissions

A.1 REFERENCES		
Normative Reference Standard FCC CFR 47 §15.249; RSS-210		
Procedure Reference	ANSI C63.4:2003	

A.2 ENVIRONMENTAL CONDITIONS		
Temperature	25 +/- 5 °C	
Humidity	40 +/- 10 %	
Barometric Pressure	101 +/- 3 kPa	

A.3 EQUIPMENT	LIST			
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE
00051	HP	8566B	Spectrum Analyzer RF Section	09 May14
00049	HP	85650A	Quasi-peak Adapter	10 May14
00047	HP	85685A	RF Preselector	09 May14
00072	EMCO	2075	Mini-mast	n/a
00073	EMCO	2080	Turn Table	n/a
00071	EMCO	2090	Multi-Device Controller	n/a
00030	HP	83017A	Microwave system amplifier	n/a
00050	Chase	CBL-6111A	Bilog Antenna	03 May14
00034	ETS	3115	Double Ridged Guide Horn	06 Dec 14



Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT:		2.4GHz Tractivity USB							Kineteks
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Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
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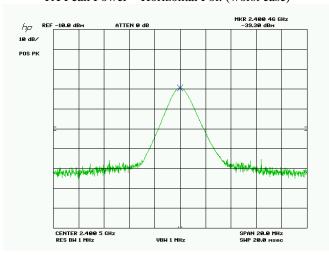


	15.249(a) Field Strength of Fundamental – Peak Detector										
Tractivity USB Low Power Transmitter											
Frequency	Antenna	Emission	Antenna	Cable	Distance	Emission Level	Limit	Margin			
(MHz)	Pol.	Level	Factor	Loss	Correction	(dBuV/m@3m)	(dBuV/m@3m)				
		(dBuV/m)	(dB)								
		@1m									
2400.5	V	62.0	28.4	4.5	-9.54	85.36	94.0	-8.64			
2400.5	Н	67.7	28.4	4.5	-9.54	91.06	94.0	-2.94			
	15.205 Restricted Band Emissions (worst Case)										
2390.0	V	26.8	28.4	4.5	-9.54	50.16	54.0	-3.84			
2483.5	V	25.1	28.4	4.5	-9.54	48.46	54.0	-5.54			

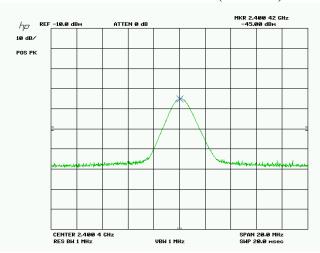
Data presented using a Pk detector results compared to average limits. Therefore satisfying the requirements of 15.249(e). Device characterization was performed on 3 orthogonal axis to determine worst case orientation.

The device was tested using new batteries throughout all testing.

TX Peak Power - Horizontal Pol. (worst case)



TX Peak Power – Vertical Pol. (worst case)



Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:		2.4GHz Tractivity USB							Rineters
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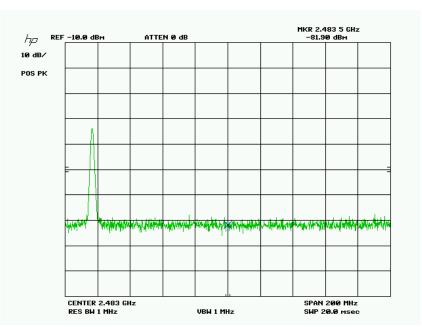


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Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
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IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1



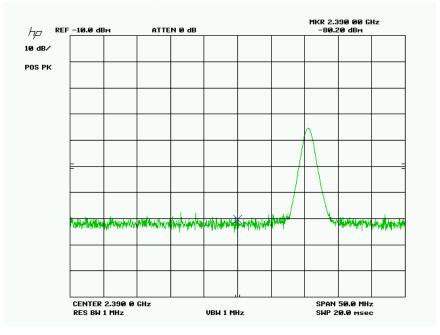
Restricted Band

Peak emission = 25.1dBuV @ 1m



Restricted Band

Peak emission = 26.8dBuV @ 1m



Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001						Kineteks	
DUT :		2.4GHz Tractivity USB							Kineteks
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Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1



Appendix B Radiated Spurious Er	missions
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B.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §15.205; §15.209: §15.249, RSS-210, IECS-003
Procedure Reference	ANSI C63.4:2003

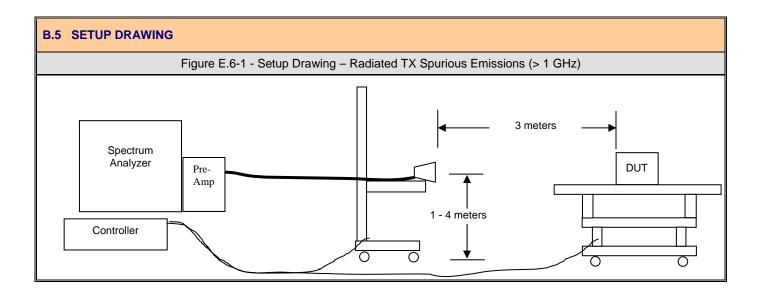
Procedure R	ANSI C63.4:2003								
B.2 ENVIRONME	NTAL CONDIT	IONS							
Tempera	ture	25 +/- 5 °C							
Humid	ity	40 +/- 10 %							
Barometric F	Pressure	101 +/- 3 kPa	ì						
B.3 EQUIPMENT	3.3 EQUIPMENT LIST								
ASSET NUMBER	MANUFACTUE	CAL DUE							
00051	HP	8	566B	Spectrum A	Analyzer RF Section	09 May14			
00049	HP	8	5650A	Quas	i-peak Adapter	10 May14			
00047	HP	8	5685A	RF	Preselector	09 May14			
00072	EMCO		2075	ı	Mini-mast	n/a			
00073	EMCO	:	2080	Т	urn Table	n/a			
00071	EMCO		2090	Multi-Device Controller		n/a			
00030	HP 83		3017A	Microwav	e system amplifier	n/a			
00050	Chase CBL-		6111A	Bilog Antenna		03 May14			
00034	ETS	06 Dec 14							
B.4 MEASUREMI	ENT EQUIPME	NT SETUP							
	Various anten		be required	to cover the ap	nt equipment was conno oplicable frequency rango				
MEASUREMENT EQUIPMENT		Frequency	y Range		RX Antenna	TX Antenna			
CONNECTIONS		9kHz – 3	30Mhz		Active Loop	N/a			
		30 MHz ·	- 1GHz		Bilog	N/a			
		1 GHz - 1	18 GHz		ETS 3115 Horn	N/a			
	For the spurio	ous out-of-band	d emissions,	the spectrum ar	nalyzer was set to the fol	owing settings:			
	Measi	urement		RBW	VBW	Detector			
	Modes			kHz	kHz	20100101			
MEASUREMENT		GHz		100	300	Peak*			
EQUIPMENT SETTINGS				1000	3000	Peak*			
	 > 1 GHz 1000 3000 Peak* The spectrum was searched from the lowest frequency generated by the EUT to the 10th harmonic of the fundamental. All detected emissions are reported. No emissions below 1GHz were detected. The highest frequency emission detected was at 12.0025 GHz. 								

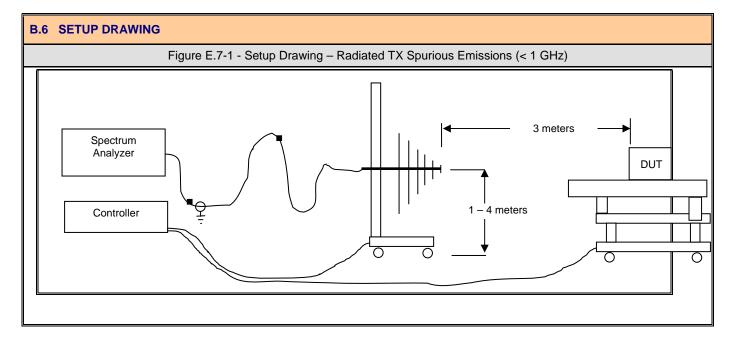
Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							Kineteks
DUT :		2.4GHz Tractivity USB							Rineters
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
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Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT :	Γ: 2.4GHz Tractivity USB							Kineteks	
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	15.249(a)(d) Emissions Field Strength– Peak Detector Tractivity USB Low Power Transmitter										
Frequency (MHz)	Antenna Pol.	Emission Level (dBuV/m) @1m	Antenna Factor (dB)	Cable Loss/Amp Gain Corr.	Distance Correction	Emission Level (dBuV/m@3m)	Limit (avg) (dBuV/m@3m)	Margin			
4801.0	V	44.6	32.9	-26.0	-9.54	41.96	54.0	-12.04			
	Н	52.1	32.9	-26.0	-9.54	49.46	54.0	-4.54			
7201.5	V	43.8	35.9	-21.8	-9.54	48.36	54.0	-5.64			
	Н	47.0	35.9	-21.8	-9.54	51.56	54.0	-2.44			
9602.0	V	ND	37.8	-18.3	-9.54		54.0				
	Н	37.9	37.7	-18.3	-9.54	47.76	54.0	-6.24			
12002.5	V	38.8	38.9	-15.4	-9.54	52.76	54.0	-1.24			
	Н	38.2	38.9	-15.4	-9.54	52.16	54.0	-1.84			

Notes:

ND = Not Detected.

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e).

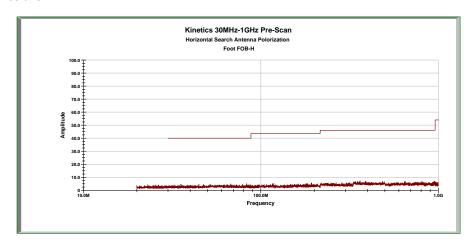
Device characterization was performed on 3 orthogonal axis to determine worst case orientation.

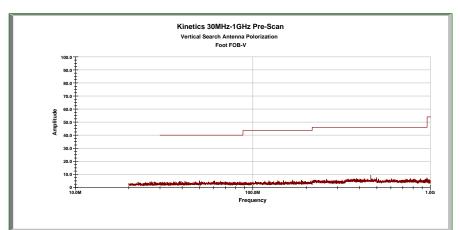
The device was tested using new batteries throughout all testing.

Worst case performance has been presented.

The Device was searched to the 10th harmonic of the fundamental. The highest detectable emission was 12.0025 GHz.

15.209 Radiated Emissions





Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT :		2.4GHz Tractivity USB							Rineters
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Test Report Serial No.: 010813ZP2-T1209-E15			Report Issue Date:	5/13/2013
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Appendix C	Radiated Spurious Emissions – Band Edge
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C.1 REFERENCES						
Normative Reference Standard	FCC CFR 47 §15.205; §15.209: §15.249, RSS-210					
Procedure Reference	ANSI C63.4:2003					

C.2 ENVIRONMENTAL CONDITIONS					
Temperature	25 +/- 5 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

C.3 EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	CAL DUE					
00051	HP	8566B	Spectrum Analyzer RF Section	09 May14					
00049	HP	85650A	Quasi-peak Adapter	10 May14					
00047	HP	85685A	RF Preselector	09 May14					
00072	EMCO	2075	Mini-mast	n/a					
00073	EMCO	2080	Turn Table	n/a					
00071	EMCO	2090	Multi-Device Controller	n/a					
00030	HP	83017A	Microwave system amplifier	n/a					
00050	Chase	CBL-6111A	Bilog Antenna	03 May14					
00034	ETS	3115	Double Ridged Guide Horn	06 Dec 14					

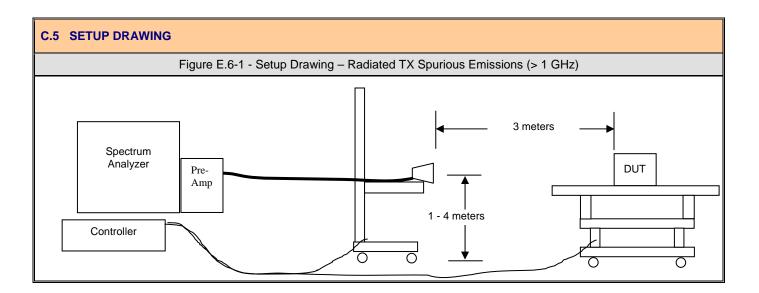
C.4 MEASUREMENT EQUIPMENT SETUP									
MEASUREMENT	Various antenna types may be	For the field strength measurements, the measurement equipment was connected as shown in E.4. Various antenna types may be required to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below.							
EQUIPMENT CONNECTIONS	Frequency F	Range	RX Antenna	TX Antenna					
CONNECTIONS	30 MHz - 1	GHz	Bilog	N/a					
	1 GHz - 18	GHz	ETS 3115 Horn	N/a					
	For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:								
	Measurement	RBW	VBW	Detector					
MEASUREMENT EQUIPMENT	Wedsdrennent	kHz	kHz	Detector					
SETTINGS	< 1 GHz	100	300	Peak*					
	> 1 GHz	1000	3000 Peak*						
	* As a worst-case measureme	* As a worst-case measurement, the QP limit was applied to measurements made with a peak detector.							

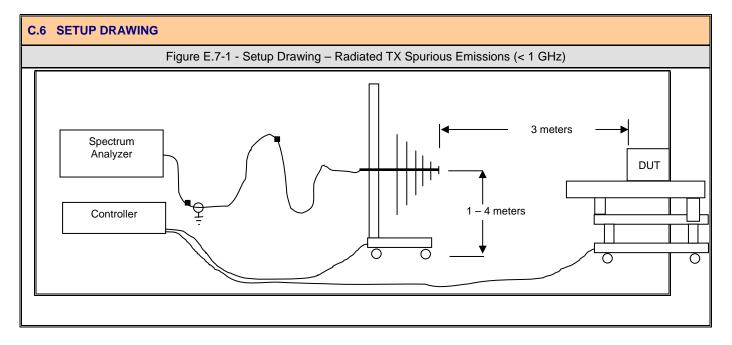
Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	
DUT:	2.4GHz Tractivity USB							Kineteks	
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Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-11, 2013		Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210 RSS-Gen		IC Test Site No.:	IC 3874A-1







Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							Kineteks
DUT :	2.4GHz Tractivity USB							Ribeteks	
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Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
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Band Edge Emissions- Marker Delta Method (Radio Service Rule Publication # 913591)

(worst case, vertical polarization.)

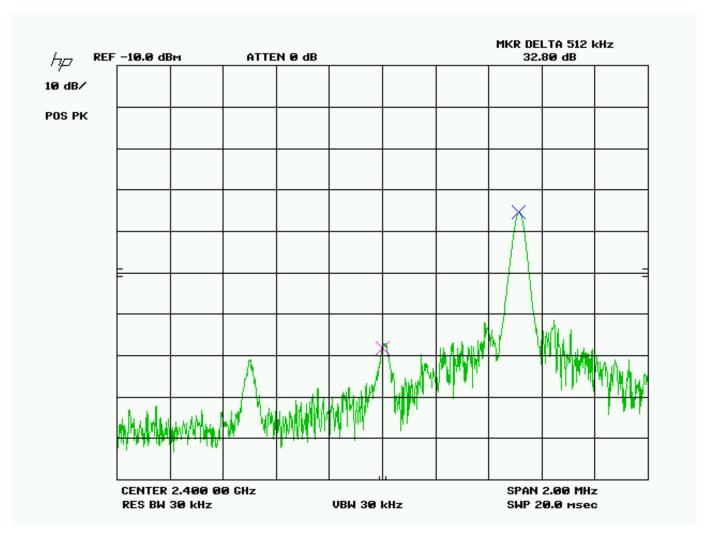
	15.249(d) Field Strength of Unwanted Emissions – Peak Detector										
	AP Low Power Transmitter										
Frequency	Antenna	Emission	Antenna	Cable	MDCF	Emission Level	Limit (Avg)	Margin			
(MHz)	Pol.	Level	Factor	Loss		(dBuV/m@3m)	(dBuV/m@3m)				
		(dBuV/m)	(dB)								
		@3m									
2400.0	V	49.66	28.4	4.5	-32.8	49.76	54.0	-4.24			

Data presented using a Pk detector compared to average limits. Therefore satisfying the requirements of 15.249(e). Device characterization was performed on 3 orthogonal axis to determine worst case orientation.

The device was tested using new batteries throughout all testing.

Note: This is a fixed single carrier device with the TX channel located beside the lower band edge at 2400.5MHz.

Marker Delta Correction Factor (MDCF) = -32.8dB



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DUT:	2.4GHz Tractivity USB								Kineteks
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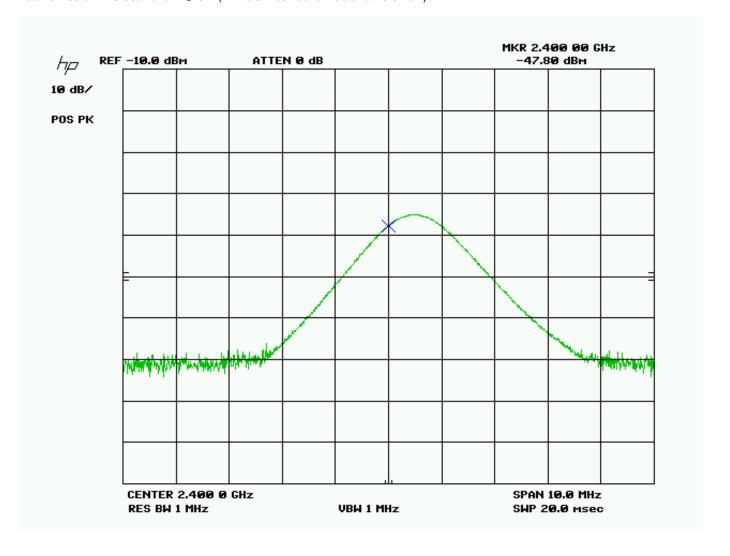
Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
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Band Edge Peak Emission Level (worst case, vertical polarization, peak detector)

Peak emission = 59.2dBuV @ 1m

Peak emission =49.66dBuV/m @ 3m (1m to 3m correction factor of -9.54 dB)



Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							
DUT :	2.4GHz Tractivity USB							Kineteks	
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Test Report Serial No.:	010813ZP2-T1209-E15		Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-11, 2013		Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s): RSS-210 RSS		RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix D - Conducted Powerline Emissions Measurement

D.1. REFERENCES			
Normative Reference Standard(s)	CFR 47 FCC Part 15 §15.207 (a)	ICES-001 Issue 4	EN 55022: 2006
Procedure Reference(s)	ANSI C63.4	CISPR 11: 2004	EN 55022: 2006

D.2. LIMITS

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

Frequency of Emission (MHz)	Conducted I	Limit (dBuV)
	Quasi-Peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

D.3. ENVIRONMENTAL CONDITIONS				
Temperature 25 ± 5 °C				
Humidity $35 \pm 5 \% RH$				
Barometric Pressure	uncontrolled			

D.4. EQUIPMENT LIST										
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE					
00049	HP	85650A	Quasi-Peak Adapter	05/10/2012	05/10/2014					
00047	HP	85685A	RF Preselector	05/10/2012	05/10/2014					
00051	HP	8566B	Spectrum Analyzer RF Section	05/9/2012	05/9/2014					
00083	EMCO	3825/2	Line Impedance Stabilization Network	05/9/2012	05/9/2014					

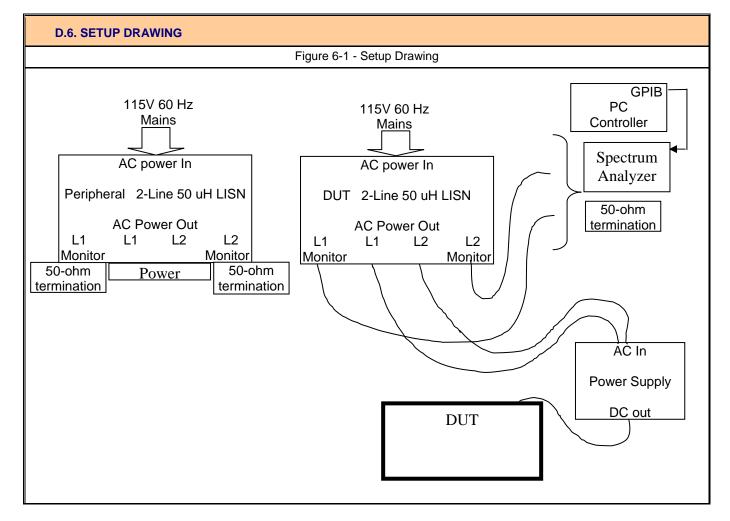
Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:	2.4GHz Tractivity USB								
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
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D.5. MEASUREMENT EQUIPM	D.5. MEASUREMENT EQUIPMENT SETUP								
MEASUREMENT EQUIPMENT CONNECTIONS	The conducted emissions were measured on each of the two AC powerline leads connected to the DUT's host power supply brick. A two line LISN was used to make this measurement.								
MEASUREMENT EQUIPMENT SETTINGS	Each of the monitor ports from the 2-line LISN was connected in turn to the spectrum analyzer. The port not connected to the analyzer was terminated in a 50-ohm load. A prescan of the peak emission levels was made of the 150 kHz – 30 MHz range split into 4 equal frequency bands. The following were the spectrum analyzer settings: Start Frequency and Stop Frequency set by software for each of the four bands RBW: 100 kHz VBW: 300 kHz Sweep: 500 mS The resulting data from each band was corrected and collected by software and presented in the graphical representations shown on page 19 for the two leads. The frequency points with peak levels within 20 dB of the average limit were selected and optimized using software control each type of detector (peak, quasi-peak and average). This data was corrected by the software is presented in the tables shown in section on page 19. All peak emissions are below the average limit.								



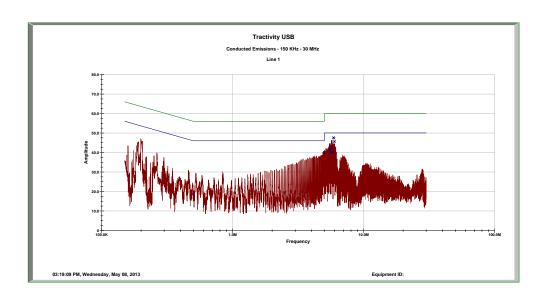
Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							
DUT :	2.4GHz Tractivity USB								Kineteks
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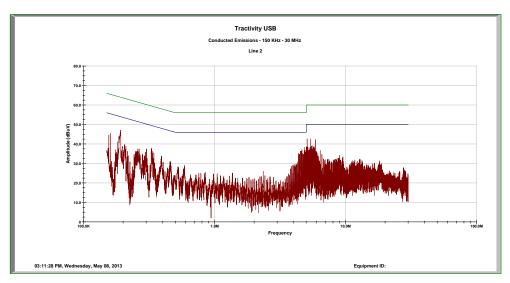


Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



15.207, Powerline Conducted Emissions





All peak emissions are below the average limit.

Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							Kineteks
DUT:	2.4GHz Tractivity USB								Kineteks
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
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Appendix E Antenna Requirements

§ 15.203 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The DUT complies with the antenna requirements of 15.203 as follows:

Integral antenna is used.

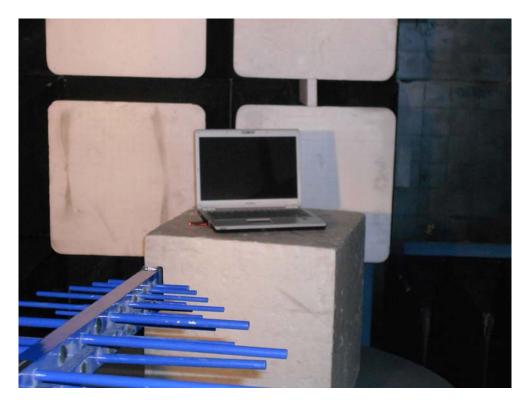
Applicant:		Kineteks. Model: Tractivity USB FCC ID: ZP2-TUSB001 IC: 9751A-TUSB001							Kineteks
DUT:		2.4GHz Tractivity USB							
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
FCC Rule Part(s):	47 CFR	§15.249	FCC Test Firm Reg. No.:	714830
IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1



Appendix F Test Set up Photo's





Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:	2.4GHz Tractivity USB								Rineteks
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Test Report Serial No.:	010813ZP2	?-T1209-E15	Report Issue Date:	5/13/2013
Measurement Date(s):	Jan. 8-	11, 2013	Report Revision No.:	Revision 1.2
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IC Standard(s):	RSS-210	RSS-Gen	IC Test Site No.:	IC 3874A-1





Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks				
DUT :		2.4GHz Tractivity USB											
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Test Report Serial No.:	010813ZP2	-T1209-E15	Report Issue Date:	5/13/2013
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END OF DOCUMENT

Applicant:		Kineteks.	Model:	Tractivity USB	FCC ID:	ZP2-TUSB001	IC:	9751A-TUSB001	Kineteks
DUT:	2.4GHz Tractivity USB								Rineteks
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