

FCC Test Report

Equipment	:	INFOTAG 2.13'"
Brand Name	:	DIGI
Model No.	:	IFT-22132
FCC ID	:	SUFIFT22132
Standard	:	47 CFR FCC Part 15.249
Operating Band	:	2400 MHz – 2483.5 MHz
FCC Classification	:	DXX
Applicant Manufacturer	:	Teraoka Weigh System Pte Ltd 4 Leng Kee Rd, #05-03/04/05&11, SIS Building, Singapore 159088

The product sample received on Aug. 20, 2015 and completely tested on Aug. 24, 2015. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

James Fan / Assistant Manager





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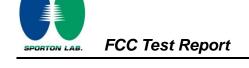
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Summary	of	Test	Result
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	Conformance Test Specifications								
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result				
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied				
3.1	15.207	AC Power-line Conducted Emissions	See Note.	FCC 15.207	N/A				
3.2	15.215(c)	Emission Bandwidth	2.48 MHz; fall in band	Information only	Complied				
3.3	15.249(a)	Fundamental Emissions	[dBuV/m at 3m]: 90.13 (Margin 23.87dB) peak	[dBuV/m at 3m]: peak: 114	Complied				
3.4	15.249(a)/ (d)		[dBuV/m at 3m]: 2400.00 MHz 68.75 (Margin 5.25dB) - peak	Harmonics: 50 dB below the level of the fundamental or FCC 15.209, whichever is the lesser attenuation.	Complied				

Note: Conducted emission test is not applicable since the EUT consumes DC power from battery.



Revision History

Report No.	Version	Description	Issued Date
FR330553-03	Rev. 01	Initial issue of report	Sep. 08, 2015



1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information							
Frequency Range (MHz)ModulationCh. Frequency (MHz)Channel NumberFundamental Fiel Strength (dBuV/m							
2400-2483.5	GFSK	2402-2480	0-78 [79]	90.13			
Note: Field strength p	Note: Field strength performed peak level at 3m.						

1.1.2 Antenna Information

	Antenna Category							
\square	Integral antenna (antenna permanently attached)							
	External antenna (dedicated antennas) ; Unique antenna connector							

1.1.3 Type of EUT

	Identify EUT					
EUT	Serial Number	N/A				
Pres	sentation of Equipment	\Box Production ; \Box Pre-Production ; \Box Prototype				
		Type of EUT				
\boxtimes	Stand-alone					
Combined (EUT where the radio part is fully integrated within another device)						
	Combined Equipment - Brand Name / Model No.:					
	Plug-in radio (EUT intended for a variety of host systems)					
	Host System - Brand Name / Model No.:					
	Other:					



1.1.4 EUT Operational Condition

Power Supply Type	3Vdc from battery (Brand: Panasonic; Model: CR2450)

1.2 Support Equipment

	Support Equipment						
No.	Io. Equipment Brand Name Model Name Serial No.						
-	-	-	-	-			

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- ANSI C63.10-2013

1.4 Testing Location Information

	Testing Location						
\boxtimes	HWA YA ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C						
	TEL : 886-3-327-3456 FAX : 886-3-327-0973						
Te	est Condition	on	Т	est Site No.	Test Engineer	Test Environment	Test Date
Rad	Radiated Emission 03CH03-HY Aaron Liang 21°C / 61% Aug. 20 ~ 21, 20					Aug. 20 ~ 21, 2015	
	Test site registered number [643075] with FCC. Test site registered number [4086B-1] with IC.						



1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Ν	Aeasurement Uncertainty	1	
Test Item		Uncertainty	Limit
AC power-line conducted emissions	±2.26 dB	N/A	
Emission bandwidth,		±1.42 %	N/A
Unwanted emissions, conducted	30 – 1000 MHz	±0.51 dB	N/A
	1 – 18 GHz	±0.67 dB	N/A
	18 – 40 GHz	±0.83 dB	N/A
	40 – 200 GHz	N/A	N/A
All emissions, radiated	30 – 1000 MHz	±2.56 dB	N/A
	1 – 18 GHz	±3.59 dB	N/A
	18 – 40 GHz	±3.82 dB	N/A
	40 – 200 GHz	N/A	N/A
Temperature	·	±0.8 °C	N/A
Humidity		±3 %	N/A
DC and low frequency voltages	±3 %	N/A	
Time	±1.42 %	N/A	
Duty Cycle		±1.42 %	N/A



2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Modulation Used for Conformance Testing		
Test Mode	Field Strength (dBuV/m at 3 m)	
GFSK-Transmit	90.13	

2.2 Test Channel Frequencies Configuration

Test Channel Frequencies Configuration	
Test Mode Test Channel Frequencies (MHz)	
GFSK-Transmit	2402-(F1), 2440-(F2), 2480-(F3)

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests				
Tests Item	Emission Bandwidth, Fund	lamental Emissions, Radiat	ed Unwanted Emissions	
Test Condition	Radiated measurement			
	EUT will be placed in	fixed position.		
User Position	EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes. The worst planes is X.			
	EUT will be a hand-held and battery-powered devices and operating multiple positions. EUT shall be performed three orthogonal planes. The worst plane is X.			
Operating Mode	🛛 1. Transmit			
Test Mode	Mode GFSK-Transmit			
	X Plane	Y Plane	Z Plane	
Orthogonal Planes of EUT				



2.4 Test Setup Diagram

Test Setup Diagram	
EUT	

Note: Controller board are disconnected from EUT and removed from test table when EUT is set to transmit continuously.



Transmitter Test Result 3

3.1 **AC Power-line Conducted Emissions**

3.1.1 **AC Power-line Conducted Emissions Limit**

AC Power-line Conducted Emissions Limit					
Frequency Emission (MHz) Quasi-Peak Average					
0.15-0.5	66 - 56 *	56 - 46 *			
0.5-5 56 46					
5-30 60 50					
Note 1: * Decreases with the logarithm c	of the frequency				

ecreases with the logarithm of the frequency

3.1.2 Measuring Instruments

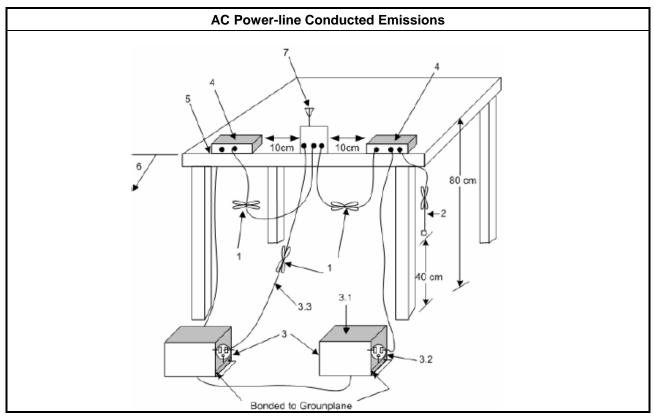
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method

Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

The EUT consumes DC power, therefore, conducted emission test is not applicable.



3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
Emission bandwidth falls completely within authorized band.	

3.2.2 Measuring Instruments

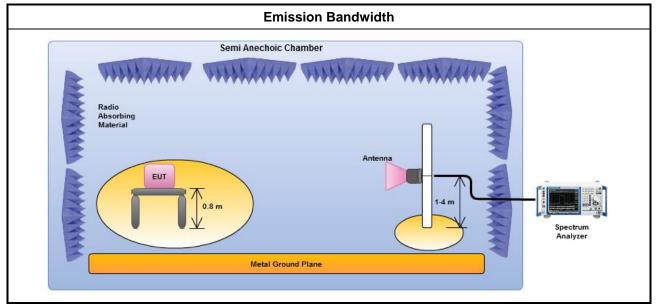
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method

Refer as ANSI C63.10, clause 6.9 for 20 dB emission bandwidth and 99% occupied bandwidth measurement.

3.2.4 Test Setup

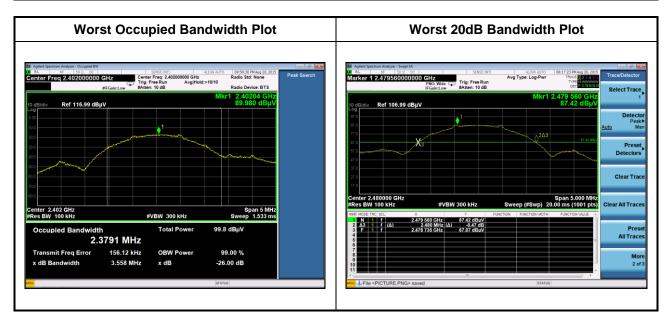


Note: Test distance is 3m



3.2.5 Test Result of Emission Bandwidth

	Emission Bandwidth Result				
Modulation Mode	Frequency (MHz)	99% Bandwidth (MHz)	F _∟ at 20dB BW (MHz)	F _н at 20dB BW (MHz)	20dB BW (MHz)
GFSK-Transmit	2402	2.38	2400.8200	-	2.44
GFSK-Transmit	2440	2.26	-	-	2.48
GFSK-Transmit	2480	2.11	-	2481.2150	2.48
Limit		N/A	2400	2483.5	N/A
Res	Result		Com	plied	





3.3 Fundamental Emissions

3.3.1 Fundamental Emissions Limit

	Fundamental Emissions E-Field Strength Limit (3m)
	902-928 MHz Band: 94 dBuV/m (quasi peak)
\boxtimes	2400-2483.5 MHz Band: 94 dBuV/m (average)
	5725-5785 MHz Band: 94 dBuV/m (average)

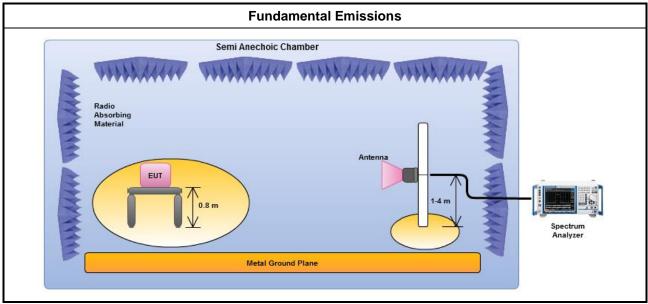
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

	The average emission levels shall be measured in [duty cycle ≥ 100 or by duty cycle correction factor].		
\boxtimes	For the transmitter emissions shall be measured using following options below:		
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle ≥ 100%.	
		Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a "duty cycle correction factor", derived from 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).	
	\square	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.	
\boxtimes	For r	radiated measurement, refer as ANSI C63.10, clause 6.6 for radiated emissions	

3.3.4 Test Setup



Note: Test distance is 3m



3.3.5	Test Result of Fundamental Emissions
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	Field Strength of Fundamental Emissions Result				
Modulation Mode	Frequency (MHz)	Fundamental (dBuV/m)@3m	Margin (dB)	Limit (dBuV/m)@3m	Туре
GFSK-Transmit	2402	89.11	-24.89	114	peak
GFSK-Transmit	2402	55.32	-38.68	94	average
GFSK-Transmit	2440	90.13	-23.87	114	peak
GFSK-Transmit	2440	56.34	-37.66	94	average
GFSK-Transmit	2480	88.44	-25.56	114	peak
GFSK-Transmit	2480	54.65	-39.35	94	average
Result Complied					
Note 1: Measurement worst emissions of receive antenna polarization: Horizontal. Note 2: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).					



3.4 Transmitter Radiated Unwanted Emissions

3.4.1 Transmitter Radiated Unwanted Emissions Limit

Transmitter Radiated Unwanted Emissions Limit

Harmonics:			
\boxtimes	54 dBuV/m (average)		
Oth	Other Unwanted Emissions:		
\square	50 dB below the level of the fundamental or FCC 15.209, whichever is the lesser attenuation.		

3.4.2 Measuring Instruments

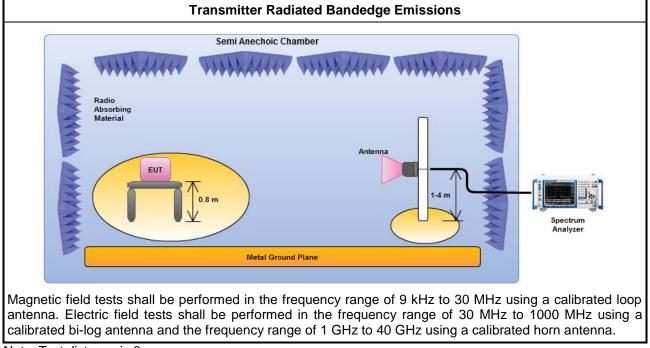
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

		Test Method – General Information
	perf equi extra dista	surements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement ipment. When performing measurements at a distance other than that specified, the results shall be apolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density asurements).
	\square	Measurements in the frequency range 5 GHz - 10GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
	\square	Measurements in the frequency range 10 GHz - 18GHz are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit.
	\boxtimes	Measurements in the frequency range above 18 GHz - 25GHz are typically made at a closer distance 0.5m, because the instrumentation noise floor is typically close to the radiated emission limit.
		er as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency nnel and highest frequency channel within the allowed operating band.
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:
		Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle ≥ 100%.
	\boxtimes	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a "duty cycle correction factor", derived from 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).
	\square	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
\boxtimes	For	the transmitter bandedge emissions shall be measured using following options below:
	\boxtimes	Refer as ANSI C63.10, clause 6.10 for band-edge testing.
		Refer as ANSI C63.10, clause 6.10 for marker-delta method for band-edge measurements.
\square	For	radiated measurement.
	\square	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
	\square	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
	\square	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.



3.4.4 Test Setup



Note: Test distance is 3m

3.4.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.



Operating Mode	1			Pola	rization	1		Н		
Operating Function	Transmi	t								
90 Level (dBuV/n	n)							I	Date: 201	15-08-21
81.0										
72.0										
63.0										
54.0									FCC CI	LASS-B
45.0										
36.0					6					
27.0	4	5								
18.0										
9.0										
0 <mark>30 100.</mark>	200.	300.	400.	500. Frequency	600. / (MH7)	. 70	00.	800.	900.	100
		0ver			Antenna	Cable	Proome		T /Pos	
Fre	eq Level	Limit			Factor			AJFUS	17705	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 42.	61 20.87	-19.13	40.00	37.86	14.31	0.53	31.83			Peak
	25 20.62						31.81			Peak
	97 20.10						31.66			Peak
	80 21.35 02 21.73						31.60			Peak Peak
	10 30.15						31.43 31.36			Peak
0 544.	10 50.15	-15.05	40.00	40.75	17.00	1.70	51.50			T CUK

3.4.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)





Operating Mode		1			Pola	rization	I		V		
Operating Functio	on [.]	Transmit									
										D-4 004	5 00 04
90 Level	(dBuV/m)									Date: 201	5-08-21
81.0											
72.0											
63.0											
54.0									_	FCC CI	ASS-B
45.0											
36.0 12						5			i		
27.0		4									
18.0		i									
9.0											
030	100.	200.	300.	400.	500.	600.	7	D O.	800.	900.	1000
					Frequency	(MHz)					
			0ver		Read	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line		Factor		Factor			Remark
	MHz	dBuV/m	dB	dBuV/m		dB/m	dB	dB	cm	deg	
1		30.79				-		31.83			Peak
2		31.15						31.81			Peak
3	99.84	21.50	-22.00	43.50	43.41	9.08		31.71			Peak
4		21.02			39.39		1.09	31.50			Peak
5		29.55						31.36			Peak
6	780.78	34.01	-11.99	46.00	40.86	22.48	2.02	31.35			Peak
Note 1: ">20dB" me	eans spu	rious em	ission le	evels that	t excee	d the lev	el of 2	0 dB be	low the	applic	able lin



Modulation M	ode		GFSI	≺-Tr	ansmit			Tes	t Fre	q. (N	1Hz)		2402				
Operating Fur	nctio	n	Trans	smit				Pola	arizat	tion	-		Н				
	_		_					_	_		_	_	_		_	_	_
117	Level	(dBuV/m)												Dat	e: 201!	5-08-20	
105.3																	
93.6																	
81.9				ļ													
70.2													F		50 249	9(2.4G)	
58.5			8										FCC	150	249(2)	4G-AV)	
46.8		2	_														
35.1																	
23.4			1														
11.7																	
C	1000	400	0. 60	00.	8000.	1000			14000		000. 1	18000.	20000.	220	00.	2500	0
								equenc									
		_		_	Over								p A/Pos	5 T/		_	
		Free	Le	vel	Limit	Lir	ie	Level	Fact			Facto	r			Remar	k
		MHz	dBu		dB	dBul	 //m	dBuV	 dB/	 (m	dB	dB			dea		
1		2390.0			-21.26			авау 35.39				34.48	cm 337		deg 346	Avera	ge
2					-28.14			48.51				34.48				Peak	9.
3					-19.04			37.58				34.48				Avera	ge
4					-5.25			71.37				34.48		3		Peak	
5		2402.0			-38.68			57.93				34.47				Avera	ge
6					-24.89							34.47				Peak	
7					-30.68			18.39				32.98				Avera	ge
8		4804.0	00 57	.11	-16.89	74.	.00	52.18	31.	13	6.78	32.98	337	3	346	Peak	
							а:		1.0			0 15 1	. 1				
Note 1: ">20dE													elow th	e a	pplica		mit
Note 2: Measu Note 3: For the													magazi	ہ م		the	
NOTE 3. FOR the	e peal	k meas	ureme	ent is	s tuliv s	UTTICI	ent. a	is the	max	tield	stren	ath as	measu	red	with	the	
					Limit so												

3.4.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)



Dperating Functio	(dBuV/m)	Fransmit			Pola					ate: 201	5-08-20
105.3 93.6 81.9 70.2 58.5 46.8 35.1 23.4	6	8								ate: 201	5-08-20
105.3 93.6 81.9 70.2 58.5 46.8 35.1 23.4	6	8								ate: 201	5-08-20
93.6 81.9 70.2 58.5 46.8 35.1 23.4	6 5 2 2	8								_	
81.9 70.2 58.5 46.8 35.1 23.4	6 	8									
70.2 58.5 46.8 35.1 23.4		8									
70.2 58.5 46.8 35.1 23.4		8								450.24	0/2 402
58.5 46.8 35.1 23.4	2	8							FLU	: 15C 24	9(2.46)
46.8 35.1 23.4	2								FCC 45	C 249(2	46 MA
35.1 23.4										C 249(Z	
23.4											
44 7							-				
11.7											
0 <mark>1000</mark>	4000.	6000.	8000.	10000.	12000.	14000. 1	6000. 1	8000. 2	20000. 2	2000.	25000
					Frequenc						
			0ver	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor			Remark
	MHz	dBuV/m	dB				dB	dB	cm	deg	
1		28.72						34.48	341		Average
2		45.84						34.48	341	67	
3		32.93			35.55			34.48	341		Average
4		66.72						34.48	341		Peak
5		53.40 87.19						34.47	260		Average Peak
7	4804.00							34.47 32.98	260 341	67	Average
8		54.85						32.98	341	67	Peak
0	4004.00	54.05	-19.15	74.00	49.92	51.15	0.70	52.90	541	07	reak
			la al cra l	and a	4	-1.4h 1.			La ().	P	able Pr
Note 1: ">20dB" me	•								low the	applic	able lim
Note 2: Measureme										410	41
Note 3: For the pea Peak-Detec											



Modulation M	ode		GFSK-T	ransmit		Test	Freq. ((MHz)		2440		
Operating Fu	nctio	on	Transmit			Pola	rizatio	า		Н		
117	Level	(dBuV/m)									Date: 201	5-08-20
105.3		_										
93.6												
81.9												
70.2										FC	C 15C 24	9(2.4G)
58.5			6	8						ECC 1	5C 249(2	16 MA
46.8	2									1001	JC 245(2	.40-AV
35.1			5	-								
23.4	11											
11.7												
(1000	4000	. 6000.	8000.	10000.	12000.	14000. 1	16000. 1	8000.	20000.	22000.	25000
						Frequenc	y (MHz)					
				0ver	Limit	Read	Antenna	a Cable	Pream	A/Pos	T/Pos	
		Freq	Level	Limit			Factor					Remark
		MHz	dBuV/m		dBuV/m		dB/m	dB	dB	cm	deg	
1			12.48						35.36			Average
2			46.27						35.36	210	275	
3			0 56.34						34.45	356		Average
4			<u>90.13</u>						34.45	356		Peak
5			0 22.91 0 56.70				31.23 31.23		32.95 32.95	330 330	179 179	-
7			22.08						34.40		226	Average
8			55.87						34.40		226	_
		/520.0	5 55.07	-10.15	/4.00	43.74	50.05	0.50	54.40		220	reak
Note 1: ">20dE										elow the	e applic	able limi
Note 2: Measu												
Note 3: For the			urement i ts the AV									



	tion	Iodulation Mode GFSK-Transmit								2440				
		Т	ransmit			Pola	rization			V				
	vel (dBuV/	n)									Date: 201	15-08-20		
105.3														
93.6	4													
81.9												0/2 /01		
70.2										FU	C 15C 24	9(2.46)		
50.5			6	8						FCC 1	5C 249(2			
46.8	2 1		Ĭ							1001.	/C 245(2			
35.1				+										
23.4														
11.7														
0 <mark></mark>	00 4	000.	6000.	8000.	10000.	12000.	14000. 1	6000. 1	18000. 2	20000. 2	2000.	25000		
						Frequenc	y (MHz)							
				0ver	Limit	Read	Antenna	Cable	Preamp	A/Pos	T/Pos			
	Fr	eq	Level	Limit			Factor					Remark		
	MH		dBuV/m		dBuV/m		dB/m	dB	dB	cm	deg			
1			17.06						35.36	368		Average		
2			50.85						35.36	368	20			
3			54.92						34.45	379	300			
4			88.71			91.19			34.45	379	300			
5			19.81						32.95	300		Average		
6 7			21.77				31.23		32.95	300 220	319			
8							36.03 36.03		34.40 34.40		272 272	-		
0	7520	.00	55.50	-10.44	74.00	43.45	50.05	0.50	54.40	220	212	reak		
Note 1: ">20dB" ا										olow the	applic	able lim		
Note 2: Measure														
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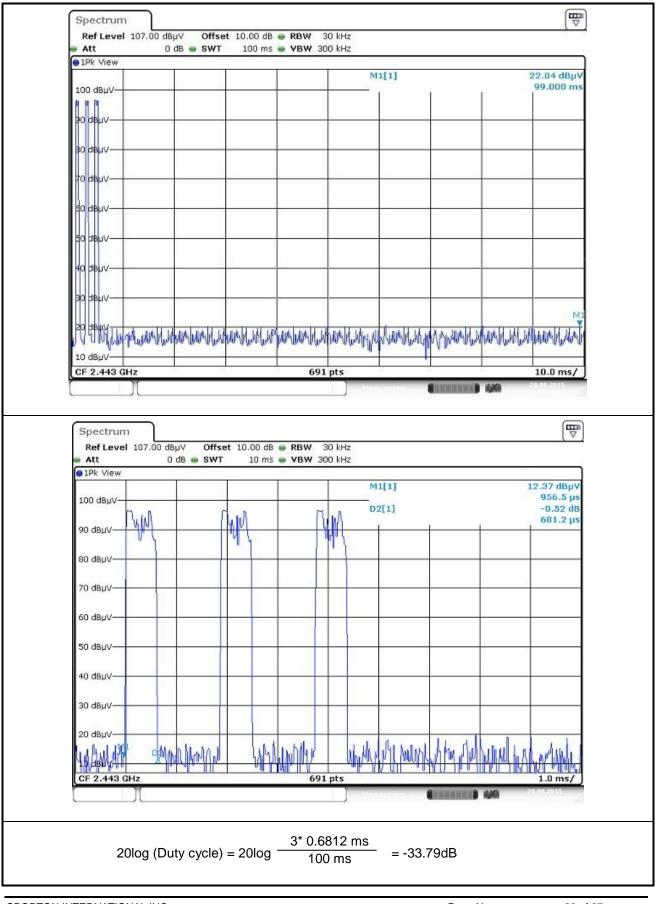


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Note 4: If duty cycle < 100%, average emission = peak emission + 20 log (duty cycle).	Noto 1. If duty or	10 - 10	100/	avora	ao or	nico	ion no	ok omi	naion i	201	~~ 1	يرم براجينام					



Nodulation Mode	•	GFSK-T	ransmit		Test	t Freq. (MHz)		2480		
Operating Function	on	Transmi	t		Pola	rization	1		V		
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	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	•		Remark
	MHz	dBuV/m		dBuV/m		dB/m	dB	dB	Cm	deg	
1		0 51.62						34.42	248		Average
2		0 85.41						34.42	248	89	
3		0 17.79						34.42	248	89	Average
4		0 51.58				27.46		34.42	248	89	
5		0 19.82 0 53.61				31.34		32.91 32.91	152 152	290	Average Peak
7		0 22.66						34.57	213	241	Average
, 8		0 56.45						34.57	213	241	
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4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	Nov. 29, 2014	Radiation (03CH03-HY)
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	May 11, 2015	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1GHz ~ 26.5GHz	Sep. 01, 2014	Radiation (03CH03-HY)
Spectrum	R&S	FSP40	100004	9kHz ~ 40GHz	Apr. 02, 2015	Radiation (03CH03-HY)
Spectrum	Agilent	N9020A	MY53420894	9kHz ~ 40GHz	Jun. 30, 2015	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	Sep. 20, 2014	Radiation (03CH03-HY)
Horn Antenna	ETS · LINDGREN	3115	6741	1GHz ~ 18GHz	Jul. 15, 2015	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz ~ 40GHz	Jan. 27, 2015	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	Nov. 15, 2014	Radiation (03CH03-HY)
RF Cable-high	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz ~ 40GHz	Dec. 12, 2014	Radiation (03CH03-HY)
Turn Table	EM Electronics	EM Electronics	060615	0 ~ 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	MF	MF-7802	MF780208179	1 ~ 4 m	N/A	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	11900	9kHz~30MHz	Nov. 10, 2014	Radiation (03CH03-HY)

Note: Calibration Interval of instruments listed above is one year.