



RADIO TEST REPORT

Report No.:STS2305319W07

Issued for

Trackimo INC.

680 Central Ave, Cedarhurst, New York 11516, USA

Product Name:	GPS Tracker
Brand:	Tracki, Trackimo
Model Number:	TRKM010B
Series Model(s):	TRKM010W, TRKM010J, TRKM010V, TRKM010T, TRKM010E
FCC ID:	2AAI6-TRKM010B
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's Name...... Trackimo INC.

Address 680 Central Ave, Cedarhurst, New York 11516, USA

Manufacturer's Name Trackimo INC.

Address 680 Central Ave, Cedarhurst, New York 11516, USA

Product Description

Product Name...... GPS Tracker

Brand Tracki, Trackimo

Model Number TRKM010B

Test Standards FCC Part15.247

Test Procedure ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item 24 Sept. 2021

Date (s) of performance of tests 24 Sept. 2021 ~ 31 May 2023

Date of Issue...... 31 May 2023

Test Result...... Pass

Testing Engineer :

(Chris Chen)

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Table of Contents

1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	10
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	12
2.6 EQUIPMENTS LIST	13
3. EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.2 TEST PROCEDURE	15
3.3 TEST SETUP	15
3.4 EUT OPERATING CONDITIONS	15
3.5 TEST RESULTS	16
4. RADIATED EMISSION MEASUREMENT	18
4.1 RADIATED EMISSION LIMITS	18
4.2 TEST PROCEDURE	20
4.3 TEST SETUP	21
4.4 EUT OPERATING CONDITIONS	21
4.5 FIELD STRENGTH CALCULATION	22
4.6 TEST RESULTS	23
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	30
5.1 LIMIT	30
5.2 TEST PROCEDURE	30
5.3 TEST SETUP	30
5.4 EUT OPERATION CONDITIONS	30
5.5 TEST RESULTS	31
6. POWER SPECTRAL DENSITY TEST	35
6.1 LIMIT	35
6.2 TEST PROCEDURE	35
6.3 TEST SETUP	35







Table of Contents

6.4 EUT OPERATION CONDITIONS	35
6.5 TEST RESULTS	36
7. BANDWIDTH TEST	38
7.1 LIMIT	38
7.2 TEST PROCEDURE	38
7.3 TEST SETUP	38
7.4 EUT OPERATION CONDITIONS	38
7.5 TEST RESULTS	39
8. PEAK OUTPUT POWER TEST	41
8.1 LIMIT	41
8.2 TEST PROCEDURE	41
8.3 TEST SETUP	42
8.4 EUT OPERATION CONDITIONS	42
8.5 TEST RESULTS	43
9. ANTENNA REQUIREMENT	44
9.1 STANDARD REQUIREMENT	44
9.2 EUT ANTENNA	44
10. EUT TEST PHOTO	45



Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	22 Oct. 2021	STS2109174W07	ALL	Initial Issue
00	31 May 2023	STS2305319W07	ALL	Update applicant, manufacturer, brand name, series mode, hardware version number, antenna gain and Radiated emissions data, add series models.





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)(3)	Output Power	PASS			
15.209	Radiated Spurious Emission	PASS			
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.205	Restricted bands of operation	PASS			
Part 15.247(d)/ Part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	±1.197dB
2	Unwanted Emissions, conducted	±2.896dB
3	All emissions, radiated 9K-30MHz	±3.84dB
4	All emissions, radiated 30M-1GHz	±3.94dB
5	All emissions, radiated 1G-6GHz	±4.59dB
6	All emissions, radiated>6G	±5.22dB
7	Conducted Emission (9KHz-150KHz)	±2.14dB
8	Conducted Emission (150KHz-30MHz)	±2.54dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Brand Tracki, Trackimo	Product Name	GPS Tracker			
Series Model(s) TRKM010W, TRKM010J, TRKM010V, TRKM010T, TRKM010E Model Difference The difference only in the model name and Brand name The EUT is a GPS Tracker Operation Frequency: Modulation Type: GFSK Radio Technology: Bluetooth Version: Version: Number Of Channel: Antenna Designation: Antenna Gain (dBi) Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh	Brand	Tracki, Trackimo			
TRKM010E	Model Number	TRKM010B			
The EUT is a GPS Tracker Operation Frequency: Modulation Type: GFSK Radio Technology: Bluetooth Version: Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh	Series Model(s)	1			
Product Description Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Please refer to the Note 2. Rating Product Description Product Description Bluetooth Configuration: Please refer to the Note 3. Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh	Model Difference	The difference only in the model name and Brand name.			
Product Description Product Description Product Description Product Description Product Description Product Description Bluetooth Version: 4.2 Bluetooth Version: 4.2 Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		The EUT is a GPS Tracker			
Product Description Radio Technology: BLE Bluetooth Version: 4.2 Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh			2402~2480 MHz		
Product Description Bluetooth Version: 4.2 Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		Modulation Type:	GFSK		
Product Description Bluetooth Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		Radio Technology:	BLE		
Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		Bluetooth Version:	4.2		
Configuration: Number Of Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh	Product Description	Bluetooth	LEGO LAM BUNG		
Channel: Antenna Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		Configuration:	LE(Support 1M PHY)		
Designation: Antenna Gain (dBi) -0.62dBi Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh			40		
Channel List Please refer to the Note 2. Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh			Please refer to the Note 3.		
Rating Input: DC 5V 500mA Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh		Antenna Gain (dBi)	-0.62dBi		
Battery Rated Voltage: 3.7V Charge Limit Voltage: 4.2V Capacity: 600mAh	Channel List	Please refer to the Note 2.			
Battery Charge Limit Voltage: 4.2V Capacity: 600mAh	Rating	Input: DC 5V 500mA			
Hardware version number UB12 PCB V0.3	Battery	Charge Limit Voltage: 4.2V			
	Hardware version number				
Software version number 0.3	Software version number	0.3			
Connecting I/O Port(s) Please refer to the Note 1.	Connecting I/O Port(s)	Please refer to the Note 1.			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.



2

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequenc y (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Tracki, Trackimo	TRKM010B	PIFA	N/A	-0.62dBi	BLE ANT

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	1 Mbps/GFSK
Mode 2 TX CH19(2440MHz)		1 Mbps/GFSK
Mode 3	TX CH39(2480MHz)	1 Mbps/GFSK

Note:

- (1) We tested for all available U.S. voltage and frequencies (For 120V, 50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.
- (2) The battery is fully-charged during the radiated and RF conducted test.

For AC Conducted Emission

1 61716 Certadoted Ethiodien	
	Test Case
AC Conducted Emission	Mode 4 : Keeping BT TX

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the

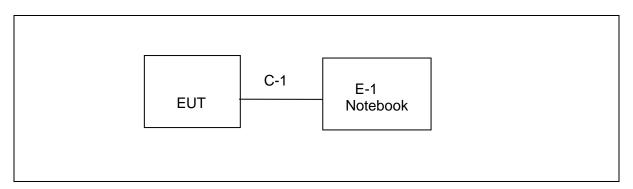
operating channel as well as the output power level.

RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
BLE	BLE	GFSK	-0.62	Default	SYDTEK_Studio

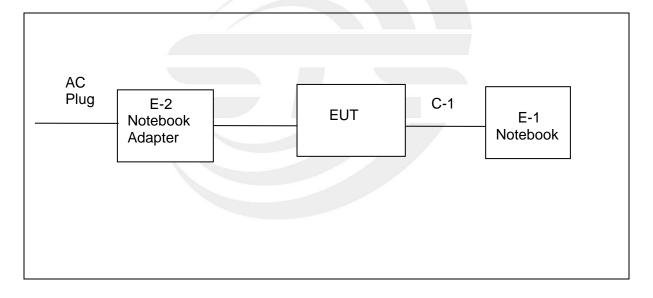


2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook Adapter	LENOVO	ADLX45DLC3A	N/A	N/A
E-1	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	N/A	N/A	150cm	NO
	4				

Note:

- (1) For detachable type I/O cable should be specified the length in cm in Length column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2.6 EQUIPMENTS LIST

		RF Radiation Tes	t Equipment			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until	
Temperature & Humidity	SW-108	SuWei	N/A	2023.03.03	2024.03.02	
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2022.07.04	2023.07.03	
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28	
18GHz-40GHz Filter	XINGBO	XBLBQ-GTA44	22062003-1	2023.03.06	2024.03.05	
Pre-mplifier (18G-40G)	SKET	LNPA_1840-50	SK2018101801	2023.03.06	2024.03.05	
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A	
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28	
Switch Control Box	N/A	N/A	N/A	N/A	N/A	
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A	
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2024.02.27	
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29	
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02014	2021.10.11	2023.10.10	
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2021.09.28	2023.09.27	
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A	
Turn Table	MF	SC100_1	60531	N/A	N/A	
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A	
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A	
Test SW	EZ-EMC		Ver.STSLAB-03A	1 RE		
		Conduction Test	equipment			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Test Receiver	R&S	ESCI	101427	2022.09.29	2023.09.28	
LISN	R&S	ENV216	101242	2022.09.28	2023.09.27	
LISN	EMCO	3810/2NM	23625	2022.09.28	2023.09.27	
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29	
Test SW EZ-EMC Ver.STSLAB-03A1 CE						
RF Connected Test						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
Signal Analyzer	Agilent	N9020A	MY51510623	2023.03.01	2024.02.28	
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A	
Temperature & Humidity	HH660	Mieo	N/A	2022.09.30	2023.09.29	
Test SW	MW		MTS 8310_2.0	.0.0		



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

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.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)		
FREQUENCT (MHZ)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

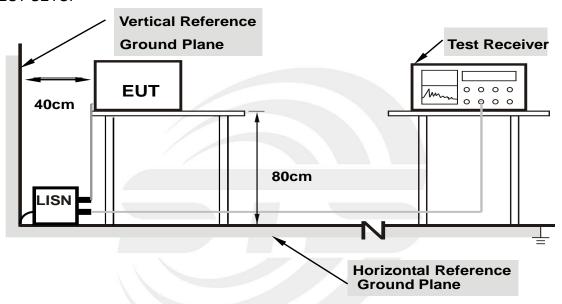
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



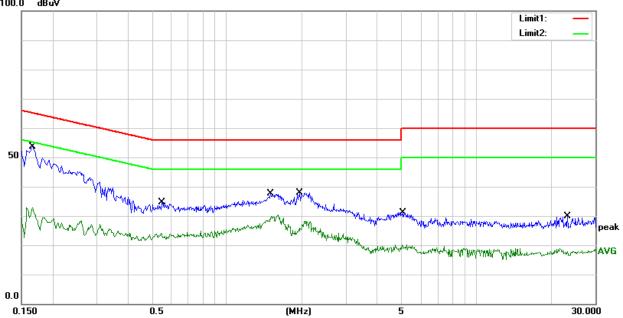
3.5 TEST RESULTS

Temperature:	26.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 4		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1660	33.36	20.33	53.69	65.16	-11.47	QP
2	0.1660	12.55	20.33	32.88	55.16	-22.28	AVG
3	0.5500	14.17	20.46	34.63	56.00	-21.37	QP
4	0.5500	3.58	20.46	24.04	46.00	-21.96	AVG
5	1.5020	17.27	20.35	37.62	56.00	-18.38	QP
6	1.5020	10.08	20.35	30.43	46.00	-15.57	AVG
7	1.9660	17.55	20.39	37.94	56.00	-18.06	QP
8	1.9660	7.86	20.39	28.25	46.00	-17.75	AVG
9	5.0780	10.58	20.53	31.11	60.00	-28.89	QP
10	5.0780	-0.28	20.53	20.25	50.00	-29.75	AVG
11	23.1420	7.05	22.79	29.84	60.00	-30.16	QP
12	23.1420	-3.99	22.79	18.80	50.00	-31.20	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values
- 2. Margin = Result (Result = Reading + Factor) Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)



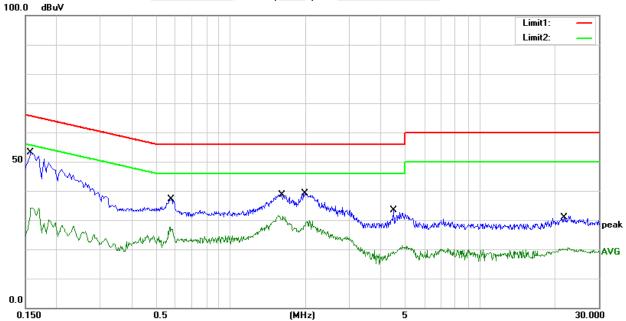


Temperature:	26.1(C)	Relative Humidity:	60%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 4		

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(d B)	(dBuV)	(dBuV)	(dB)	
1	0.1580	32.78	20.31	53.09	65.57	-12.48	QP
2	0.1580	13.87	20.31	34.18	55.57	-21.39	AVG
3	0.5780	16.57	20.44	37.01	56.00	-18.99	QP
4	0.5780	7.26	20.44	27.70	46.00	-18.30	AVG
5	1.6020	18.37	20.35	38.72	56.00	-17.28	QP
6	1.6020	11.20	20.35	31.55	46.00	-14.45	AVG
7	1.9900	18.73	20.39	39.12	56.00	-16.88	QP
8	1.9900	9.41	20.39	29.80	46.00	-16.20	AVG
9	4.5060	12.77	20.53	33.30	56.00	-22.70	QP
10	4.5060	0.80	20.53	21.33	46.00	-24.67	AVG
11	21.7820	7.95	22.84	30.79	60.00	-29.21	QP
12	21.7820	-2.30	22.84	20.54	50.00	-29.46	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values
- 2. Margin = Result (Result = Reading + Factor) Limit
- 3. Factor=LISN factor+Cable loss+Limiter (10dB)





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	(dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/QP	
Start Frequency	30 MHz(Peak/QP)	
Stop Frequency	1000 MHz (Peak/QP)	
RB / VB (emission in restricted band)	120 KHz / 300 KHz	

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/AV		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier hamonic(Peak/AV)		
RB / VB (emission in restricted	1 MHz / 3 MHz(Peak)		
band)	1 MHz/1/T MHz(AVG)		

For Restricted band

Spectrum Parameter	Setting		
Detector	Peak/AV		
Stort/Ston Fraguency	Lower Band Edge: 2310 to 2410 MHz		
Start/Stop Frequency	Upper Band Edge: 2475 to 2500 MHz		
DD /VD	1 MHz / 3 MHz(Peak)		
RB / VB	1 MHz/1/T MHz(AVG)		



Receiver Parameter	Setting	
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP	
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV	
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

Page 20 of 45

4.2 TEST PROCEDURE

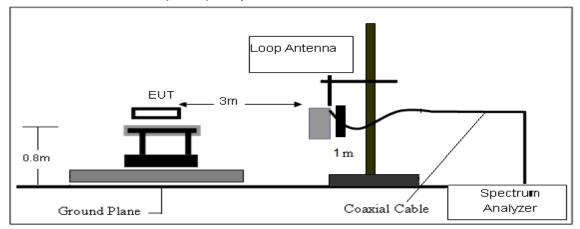
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

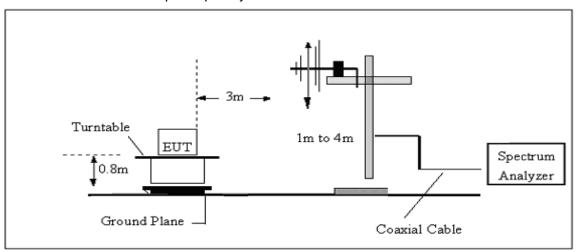


4.3 TEST SETUP

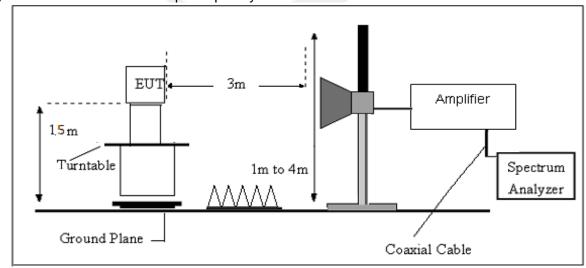
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

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

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



4.6 TEST RESULTS

(Between 9KHz - 30 MHz)

Temperature:	23.1(C)	Relative Humidtity:	60%RH
Test Voltage:	DC 3.7V	Polarization:	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



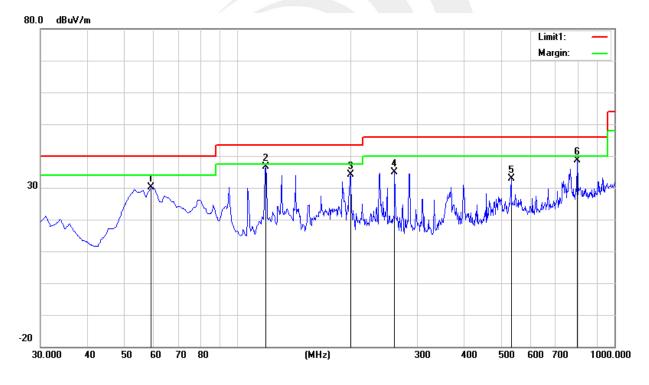
(30MHz -1000MHz)

Temperature:	23.1(C)	Relative Humidity:	60%RH	
Test Voltage:	DC 3.7V	Phase:	Horizontal	
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)			

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	59.1000	55.96	-25.73	30.23	40.00	-9.77	QP
2	119.2400	54.93	-18.38	36.55	43.50	-6.95	QP
3	199.7500	55.13	-21.11	34.02	43.50	-9.48	QP
4	261.8300	49.71	-14.77	34.94	46.00	-11.06	QP
5	532.4600	40.11	-7.31	32.80	46.00	-13.20	QP
6	797.2700	40.73	-2.03	38.70	46.00	-7.30	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



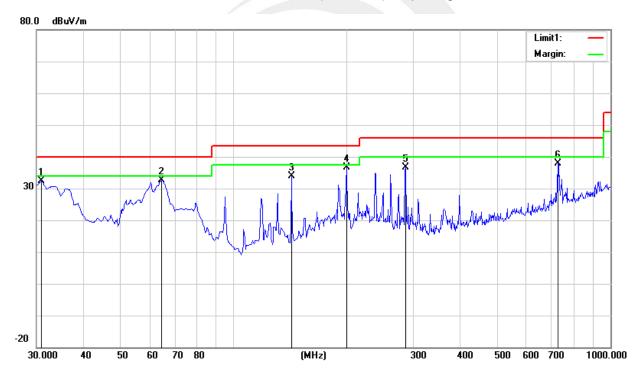


Temperature:	23.1(C)	Relative Humidity:	60%RH	
Test Voltage:	DC 3.7V	Phase:	Vertical	
Test Mode:	Mode 1/2/3 (Mode 1 worst mode)			

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	45.74	-13.35	32.39	40.00	-7.61	QP
2	64.4331	58.30	-25.63	32.67	40.00	-7.33	QP
3	142.5200	52.03	-18.18	33.85	43.50	-9.65	QP
4	199.7500	57.77	-21.11	36.66	43.50	-6.84	QP
5	286.0800	52.01	-15.37	36.64	46.00	-9.36	QP
6	724.5200	40.86	-2.89	37.97	46.00	-8.03	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain





(1GHz-25GHz) Spurious emission Requirements

GFSK

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				Low Ch	nannel (GFSK/2	2402 MHz)				
3264.77	61.10	44.70	6.70	28.20	-9.80	51.30	74.00	-22.70	PK	Vertical
3264.77	49.87	44.70	6.70	28.20	-9.80	40.07	54.00	-13.93	AV	Vertical
3264.74	61.48	44.70	6.70	28.20	-9.80	51.68	74.00	-22.32	PK	Horizontal
3264.74	50.59	44.70	6.70	28.20	-9.80	40.79	54.00	-13.21	AV	Horizontal
4804.51	58.65	44.20	9.04	31.60	-3.56	55.09	74.00	-18.91	PK	Vertical
4804.51	49.13	44.20	9.04	31.60	-3.56	45.57	54.00	-8.43	AV	Vertical
4804.33	59.06	44.20	9.04	31.60	-3.56	55.50	74.00	-18.50	PK	Horizontal
4804.33	50.52	44.20	9.04	31.60	-3.56	46.96	54.00	-7.04	AV	Horizontal
5359.76	48.12	44.20	9.86	32.00	-2.34	45.78	74.00	-28.22	PK	Vertical
5359.76	39.51	44.20	9.86	32.00	-2.34	37.16	54.00	-16.84	AV	Vertical
5359.65	48.33	44.20	9.86	32.00	-2.34	45.99	74.00	-28.01	PK	Horizontal
5359.65	38.68	44.20	9.86	32.00	-2.34	36.34	54.00	-17.66	AV	Horizontal
7205.73	54.59	43.50	11.40	35.50	3.40	57.99	74.00	-16.01	PK	Vertical
7205.73	44.72	43.50	11.40	35.50	3.40	48.12	54.00	-5.88	AV	Vertical
7205.68	53.94	43.50	11.40	35.50	3.40	57.34	74.00	-16.66	PK	Horizontal
7205.68	43.91	43.50	11.40	35.50	3.40	47.31	54.00	-6.69	AV	Horizontal
				Middle C	Channel (GFSK	/2440 MHz)				
3263.10	60.84	44.70	6.70	28.20	-9.80	51.04	74.00	-22.96	PK	Vertical
3263.10	51.71	44.70	6.70	28.20	-9.80	41.91	54.00	-12.09	AV	Vertical
3263.07	61.81	44.70	6.70	28.20	-9.80	52.01	74.00	-21.99	PK	Horizontal
3263.07	50.37	44.70	6.70	28.20	-9.80	40.57	54.00	-13.43	AV	Horizontal
4880.08	58.64	44.20	9.04	31.60	-3.56	55.08	74.00	-18.92	PK	Vertical
4880.08	49.15	44.20	9.04	31.60	-3.56	45.59	54.00	-8.41	AV	Vertical
4880.19	58.88	44.20	9.04	31.60	-3.56	55.32	74.00	-18.68	PK	Horizontal
4880.19	50.58	44.20	9.04	31.60	-3.56	47.02	54.00	-6.98	AV	Horizontal
5357.12	49.09	44.20	9.86	32.00	-2.34	46.75	74.00	-27.25	PK	Vertical
5357.12	39.54	44.20	9.86	32.00	-2.34	37.20	54.00	-16.80	AV	Vertical
5357.39	48.45	44.20	9.86	32.00	-2.34	46.11	74.00	-27.89	PK	Horizontal
5357.09	39.28	44.20	9.86	32.00	-2.34	36.93	54.00	-17.07	AV	Horizontal
7320.85	54.45	43.50	11.40	35.50	3.40	57.85	74.00	-16.15	PK	Vertical
7320.85	44.89	43.50	11.40	35.50	3.40	48.29	54.00	-5.71	AV	Vertical
7320.44	53.99	43.50	11.40	35.50	3.40	57.39	74.00	-16.61	PK	Horizontal
7320.44	44.79	43.50	11.40	35.50	3.40	48.19	54.00	-5.81	AV	Horizontal



				High Char	nnel (GFSK/	2480 MHz)				
3264.71	61.99	44.70	6.70	28.20	-9.80	52.19	74.00	-21.81	PK	Vertical
3264.71	50.43	44.70	6.70	28.20	-9.80	40.63	54.00	-13.37	AV	Vertical
3264.76	61.19	44.70	6.70	28.20	-9.80	51.39	74.00	-22.61	PK	Horizontal
3264.76	50.81	44.70	6.70	28.20	-9.80	41.01	54.00	-12.99	AV	Horizontal
4960.36	58.36	44.20	9.04	31.60	-3.56	54.80	74.00	-19.20	PK	Vertical
4960.36	50.40	44.20	9.04	31.60	-3.56	46.84	54.00	-7.16	AV	Vertical
4960.40	58.21	44.20	9.04	31.60	-3.56	54.65	74.00	-19.35	PK	Horizontal
4960.40	49.22	44.20	9.04	31.60	-3.56	45.66	54.00	-8.34	AV	Horizontal
5359.75	48.86	44.20	9.86	32.00	-2.34	46.52	74.00	-27.48	PK	Vertical
5359.75	39.00	44.20	9.86	32.00	-2.34	36.65	54.00	-17.35	AV	Vertical
5359.81	48.05	44.20	9.86	32.00	-2.34	45.71	74.00	-28.29	PK	Horizontal
5359.81	39.01	44.20	9.86	32.00	-2.34	36.67	54.00	-17.33	AV	Horizontal
7439.97	53.68	43.50	11.40	35.50	3.40	57.08	74.00	-16.92	PK	Vertical
7439.97	44.84	43.50	11.40	35.50	3.40	48.24	54.00	-5.76	AV	Vertical
7439.76	53.54	43.50	11.40	35.50	3.40	56.94	74.00	-17.06	PK	Horizontal
7439.76	44.66	43.50	11.40	35.50	3.40	48.06	54.00	-5.94	AV	Horizontal

Page 27 of 45

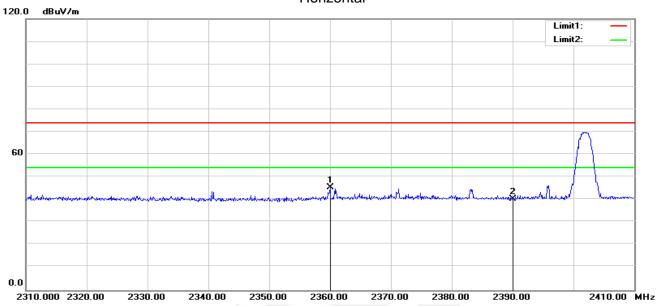
Note:

- Factor = Antenna Factor + Cable Loss Pre-amplifier.
 Emission Level = Reading + Factor
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



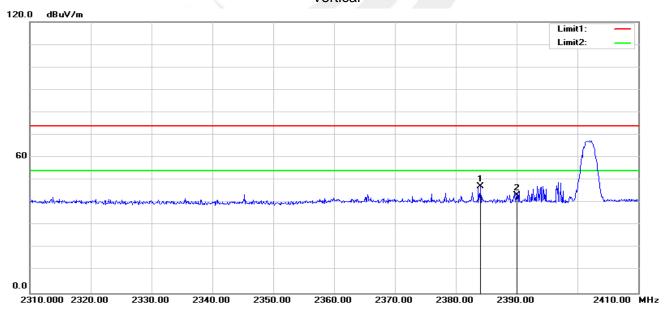
4.6 TEST RESULTS (Restricted Bands Requirements)

GFSK-Low Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2360.000	41.55	3.89	45.44	74.00	-28.56	peak
2	2390.000	35.98	4.34	40.32	74.00	-33.68	peak

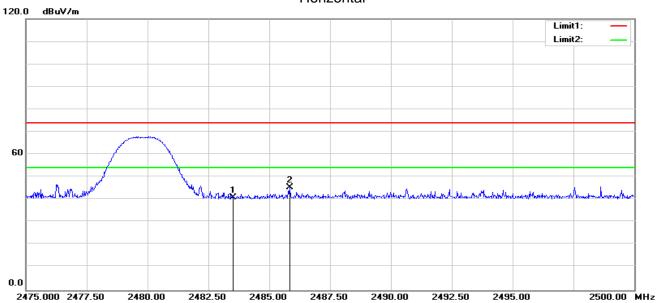
Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2384.100	42.85	4.26	47.11	74.00	-26.89	peak
2	2390.000	39.04	4.34	43.38	74.00	-30.62	peak

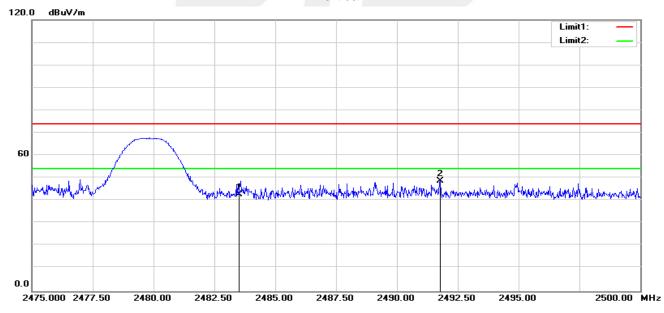


GFSK-High Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.47	4.60	41.07	74.00	-32.93	peak
2	2485.850	40.74	4.61	45.35	74.00	-28.65	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	38.28	4.60	42.88	74.00	-31.12	peak
2	2491.775	44.12	4.63	48.75	74.00	-25.25	peak



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting			
Detector	Peak			
Chart/Chap Fragrupp av	Lower Band Edge: 2300 – 2407 MHz			
Start/Stop Frequency	Upper Band Edge: 2475 – 2500 MHz			
RB / VB (emission in restricted band)	100 KHz/300 KHz			
Trace-Mode:	Max hold			

5.3 TEST SETUP



The EUT which is powered by the Battery, is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

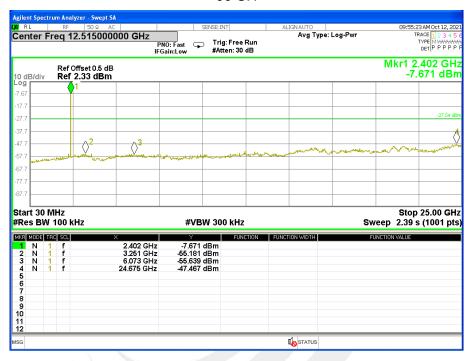
5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



5.5 TEST RESULTS

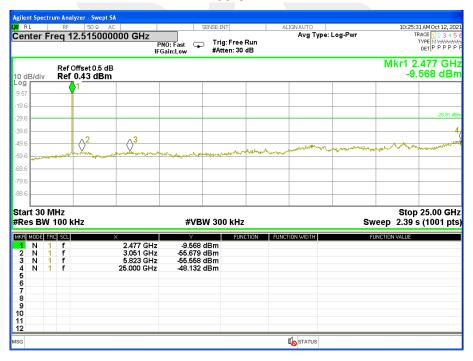
Temperature:	25 ℃	Relative Humidity:	50%
Test Voltage:	DC 3.7V	LIEST MINUAE.	TX Mode /CH00, CH19, CH39





19 CH

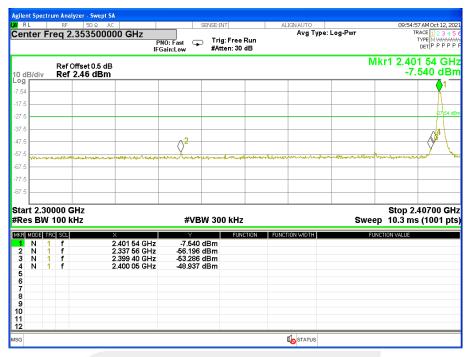


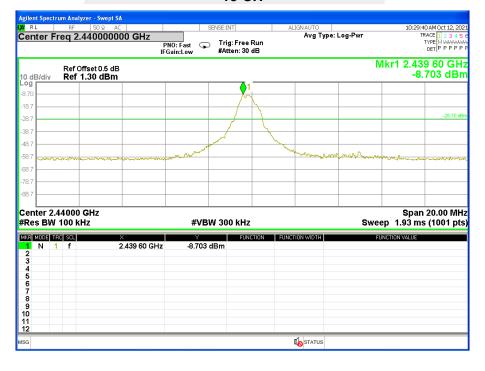




For Band edge(it's also the reference level for conducted spurious emission)

00 CH











6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

-						
FCC Part 15.247,Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e)	Power Spectral Density	≤8 dBm (RBW≥3KHz)	2400-2483.5	PASS		

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$.
- 4. Set the VBW ≥ 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

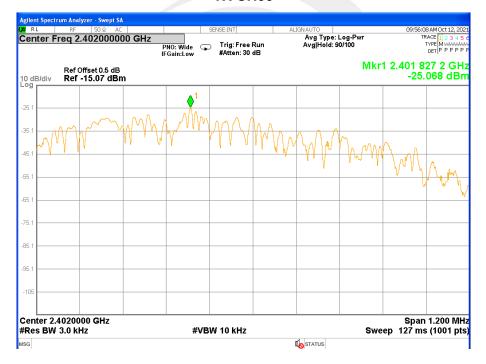


6.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	LIEST MINUAE.	TX Mode /CH00, CH19, CH39

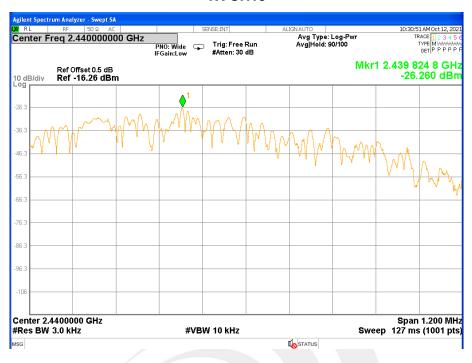
Fraguenov	Power Density	Limit (dDm/2KHz)	Popult
Frequency	(dBm/3kHz)	Limit (dBm/3KHz)	Result
2402 MHz	-25.068	≤8	PASS
2440 MHz	-26.260	≤8	PASS
2480 MHz	-28.614	≤8	PASS

TX CH00

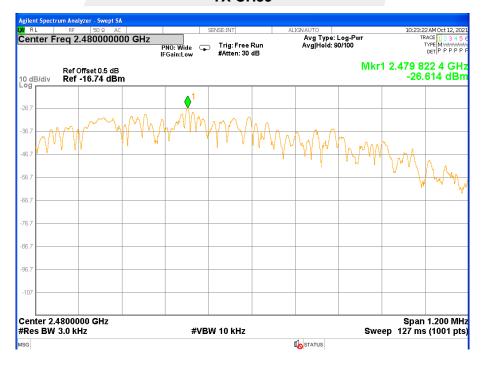




TX CH19



TX CH39





7. BANDWIDTH TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW ≥ 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq 6 \text{ dB}$.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS
Please refer to section 3.4 of this report.

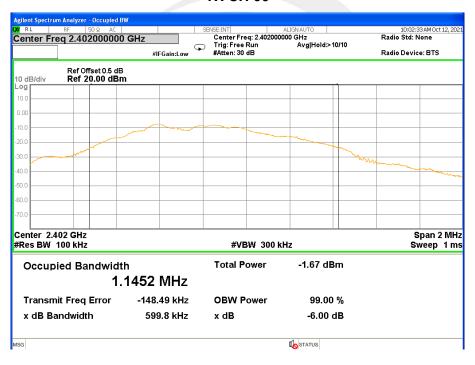


7.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	LIEST MINUME.	TX Mode /CH00, CH19, CH39

Frequency	6dB Bandwidth (KHz)	Limit (KHz)	Result
2402 MHz	599.800	≥500KHz	PASS
2440 MHz	587.800	≥500KHz	PASS
2480 MHz	592.600	≥500KHz	PASS

TX CH 00

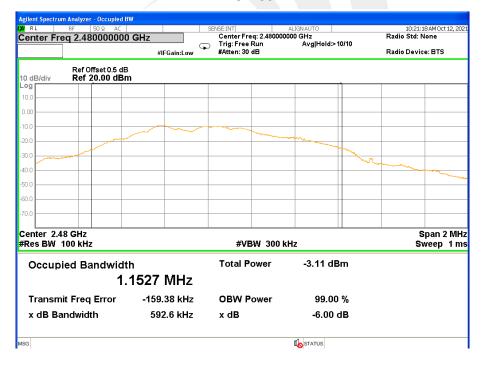




TX CH 19



TX CH 39





8. PEAK OUTPUT POWER TEST

8.1 LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

One of the following procedures may be used to determine the maximum peak conducted output power of a DTS EUT.

RBW ≥ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ [3 × RBW].
- c) Set span ≥ [3 × RBW].
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

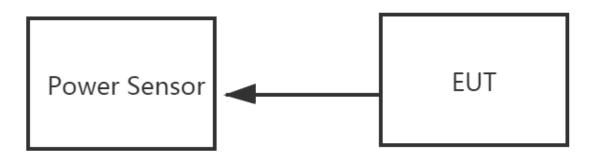
DTS bandwidth:

- a) Set the RBW = 1 MHz.
- b) Set the VBW ≥ [3 × RBW].
- c) Set the span ≥ [1.5 × DTS bandwidth].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.





8.4 EUT OPERATION CONDITIONS Please refer to section 3.4 of this report.





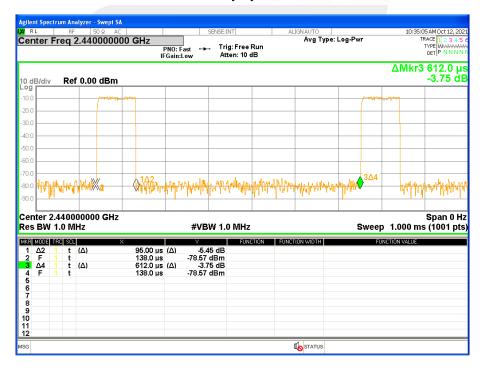
8.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V	LIEST MINUME.	TX Mode /CH00, CH19, CH39

Test Channe	Frequency	Peak Conducted Output Power	Average Conducted Output Power	LIMIT
rest orialine	(MHz)	(dBm)	(dBm)	dBm
CH0	2402	-6.47	-15.50	30
CH19	2440	-7.41	-16.41	30
CH39	2480	-8.28	-17.32	30

Note: Our power sensor test AVG power has no duty cycle display. The power sensor measures AVG power is Burst power. The software has considered the factor of the duty cycle factor, so it is unnecessary to add it again.

Duty cycle



Ton	Тр	Duty cycle(%)	Duty factor(dB)
0.095	0.612	15.52%	16.18



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.





10. EUT TEST PHOTO

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

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

