

# RADIO PERFORMANCE TEST REPORT

Test Report No.	: OT-21D-RWD-048
Reception No.	: 2112005204
Applicant	: Tianjin Empecs Medical Device Co., Ltd.
Address	: No.35 and 37, Yingcheng Street, Hangu, Binhai New Area, Tianjin, China
Manufacturer	: Tianjin Empecs Medical Device Co., Ltd.
Address	: No.35 and 37, Yingcheng Street, Hangu, Binhai New Area, Tianjin, China
Type of Equipment	: Blood Beta-Ketone Monitoring System
FCC ID.	: 2AFE8K21BT
Model Name	: KT21 BT
Multiple Model Name	e:N/A
Serial number	: N/A
Total page of Report	: 31 pages (including this page)
Date of Incoming	: December 10, 2021
Date of issue	: December 22, 2021

## **SUMMARY**

The equipment complies with the regulation; *FCC PART 15 SUBPART C Section 15.247* This test report only contains the result of a single test of the sample supplied for the examination. It is not a generally valid assessment of the features of the respective products of the mass-production.

2-2-1

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Tested by /Su-Min You / Assistant Manager ONETECH Corp. Reviewed by / Tae-Ho, Kim / Senior Manager ONETECH Corp. Approved by / Ki-Hong, Nam / General Manager ONETECH Corp.

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OTC-TRF-RF-001(0)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



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## **Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-21D-RWD-048	December 22, 2021	Initial Release	All



## **1. VERIFICATION OF COMPLIANCE**

Applicant : Tianjin Empecs Medical Device Co., Ltd.			
Address : No.35 and 37, Yingcheng Street, Hangu, Binhai New Area, Tianjin, China			
Contact Person : Dongeon Cho / Senior Resear	ch Engineer		
Telephone No. : 82(0)70-7124-0476			
FCC ID : 2AFE8K21BT			
Model Name : KT21 BT			
Brand Name : Medisign			
Serial Number : N/A			
Date : December 22, 2021			
EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM		
E.U.T. DESCRIPTION	Blood Beta-Ketone Monitoring System		
THIS REPORT CONCERNS	Original Grant		
MEASUREMENT PROCEDURES	ANSI C63.10: 2020		
TYPE OF EQUIPMENT TESTED	Pre-Production		
KIND OF EQUIPMENT	Certification		
AUTHORIZATION REQUESTED			
EQUIPMENT WILL BE OPERATED	FCC PART 15 SUBPART C Section 15.247		
UNDER FCC RULES PART(S)	KDB 558074 D01 15.247 Meas Guidance v05r02		
Modifications on the Equipment to Achieve	News		
Compliance	None		
Final Test was Conducted On	3 m, Semi Anechoic Chamber		

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.



## 2. TEST SUMMARY

#### 2.1 Test items and results

SECTION	TEST ITEMS	RESULTS
15.247 (a) (2)	Minimum 6 dB Bandwidth	Met the Limit / PASS
15.247 (b) (3)	Maximum Peak Conducted Output Power	Met the Limit / PASS
15.247 (d)	100 kHz Bandwidth Outside the Frequency Band	Met the Limit / PASS
15.247 (d)	Radiated Emission which fall in the Restricted Band	Met the Limit / PASS
15.247 (e)	Peak Power Spectral Density	Met the Limit / PASS
15.209	Radiated Emission Limits	Met the Limit / PASS
15.207	Conducted Limits	N/A (See Note)
15.203	Antenna Requirement	Met requirement / PASS

Note.: As the EUT is operated by DC battery, this test item is not required.

#### 2.2 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

#### 2.3 Related Submittal(s) / Grant(s)

Original submittal only

#### 2.4 Purpose of the test

To determine whether the equipment under test fulfills the requirements of the regulation stated in FCC PART 15 SUBPART C Section 15.247.

#### 2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10: 2020. Radiated testing was performed at a distance of 3 m from EUT to the antenna.

#### 2.6 Test Facility

The Onetech Corp. has been designated to perform equipment testing in compliance with ISO/IEC 17025.

The Electromagnetic compatibility measurement facilities are located at 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea.

-. Site Filing:

VCCI (Voluntary Control Council for Interference) - Registration No. R-20122/ C-14617/ G-10666/ T-11842

ISED (Innovation, Science and Economic Development Canada) - Registration No. Site# 3736A-3

KOLAS (Korea Laboratory Accreditation Scheme) - Accreditation NO. KT085

FCC (Federal Communications Commission) - Accreditation No. KR0013

RRA (Radio Research Agency) - Designation No. KR0013

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## **3. GENERAL INFORMATION**

#### **3.1 Product Description**

The Tianjin Empecs Medical Device Co., Ltd., Model KT21 BT (referred to as the EUT in this report) is a Blood Beta-Ketone Monitoring System. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Blood Beta-Ketone Monitoring System
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-1.59 dBm
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	-4.34 dBi
Rated Supply Voltage	DC 3.0 V
List of each Osc. or crystal	
Freq.(Freq. >= 1 MHz)	32 MHz

#### 3.2 Alternative type(s)/model(s); also covered by this test report.

-. None

## 4. EUT MODIFICATIONS

-. None



## **5. SYSTEM TEST CONFIGURATION**

#### **5.1 Justification**

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	Tianjin Empecs Medical Device Co., Ltd.	N/A	N/A

#### 5.2 Peripheral equipment

Defined as equipment needed for correct operation of the EUT, but not considered as tested:

Model	Manufacturer	Description	Connected to
<b>VT21 DT</b>	Tianjin Empecs Medical Device	Blood Beta-Ketone Monitoring System	
KT21 BT	Co., Ltd.	(EUT)	-

#### 5.3 Mode of operation during the test

For the testing, software used to control the EUT for staying in continuous transmitting is programmed.

For final testing, the EUT was set at 2 402 MHz, 2 440 MHz, and 2 480 MHz to get a maximum emission levels from the

EUT. The EUT was moved throughout the XY, XZ, and YZ planes and the worst case is "XY" axis, but the worst data was recorded in this report.

#### -. Frequency / Channel Operations

Channel	Frequency	
0	2 402	
19	2 440	
39	2 480	



-. Duty Cycle

Mode	Tx On Time	Tx Off Time	Duty Cycle	Correction Factor
Widde	[ ms ]	[ ms ]	[%]	[ dB ]
Bluetooth LE	-	-	100	0.00

Note – Duty Cycle : (Tx On Time / (Tx On Time + Tx Off Time)) \* 100

Correction Factor : 10 \* Log(1 / (Duty Cycle / 100))

-. Test Plot

Spectrum		
RefLevel 20.00 dBm ● Att 30 dB ● SWT 1 s ● TRG:VID	RBW 28 MHz VBW 28 MHz	
1Pk View		
	M1[1]	-2.52 dBm 605.000 ms
10 dBm		
0 dBm	N11	
-10 dBm		
-30 dBm		
-40 dBm		
-50 dBm		
-60 dBm		
-70 dBm		
CF 2.44 GHz	1001 pts	100.0 ms/
	Bluetooth LE	



#### **5.4** Configuration of Test System

 Line Conducted Test:
 As This product is only using DC power, AC conducted emission test has not been performed

 Radiated Emission Test:
 Preliminary radiated emissions test were conducted using the procedure in ANSI C63.10:

2020 to determine the worse operating conditions. Final radiated emission tests were conducted at 3 meter Semi Anechoic Chamber.

The turntable was rotated through 360 degrees and the EUT was tested by positioned three orthogonal planes to obtain the highest reading on the field strength meter. Once maximum reading was determined, the search antenna was raised and lowered in both vertical and horizontal polarization.

#### 5.5 Antenna Requirement

For intentional device, according to section 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.

#### Antenna Construction:

The antenna of the EUT is PCB Antenna on the main board in the EUT, so no consideration of replacement by the user.

#### 6. PRELIMINARY TEST

#### 6.1 AC Power line Conducted Emissions Tests

As This product is only using DC power, AC conducted emission test has not been performed

#### **6.2 General Radiated Emissions Tests**

During Preliminary Test, the following operating mode was investigated.

Operation Mode	The Worse operating condition (Please check one only)
Transmitting Mode	Х



## 7. MINIMUM 6 dB BANDWIDTH

#### 7.1 Operating environment

Temperature	:	21 °C
Relative humidity	:	42 % R.H.

#### 7.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, and peak detection was used. The 6 dB bandwidth is defined as the total spectrum over which the power is higher than the peak power minus 6 dB.



#### 7.3 Test Date

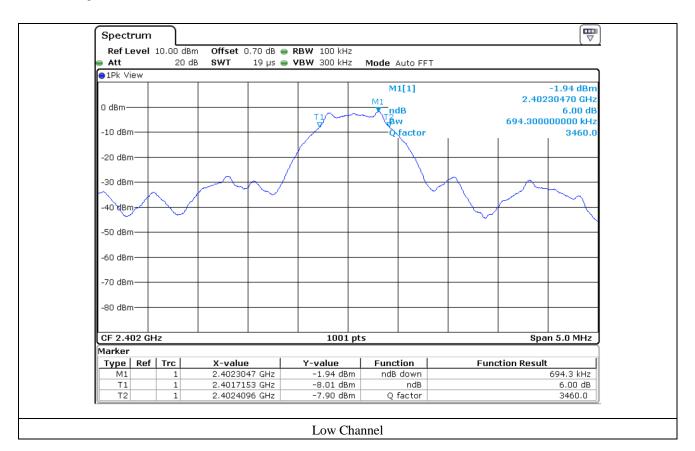
December 10, 2021 ~ December 21, 2021



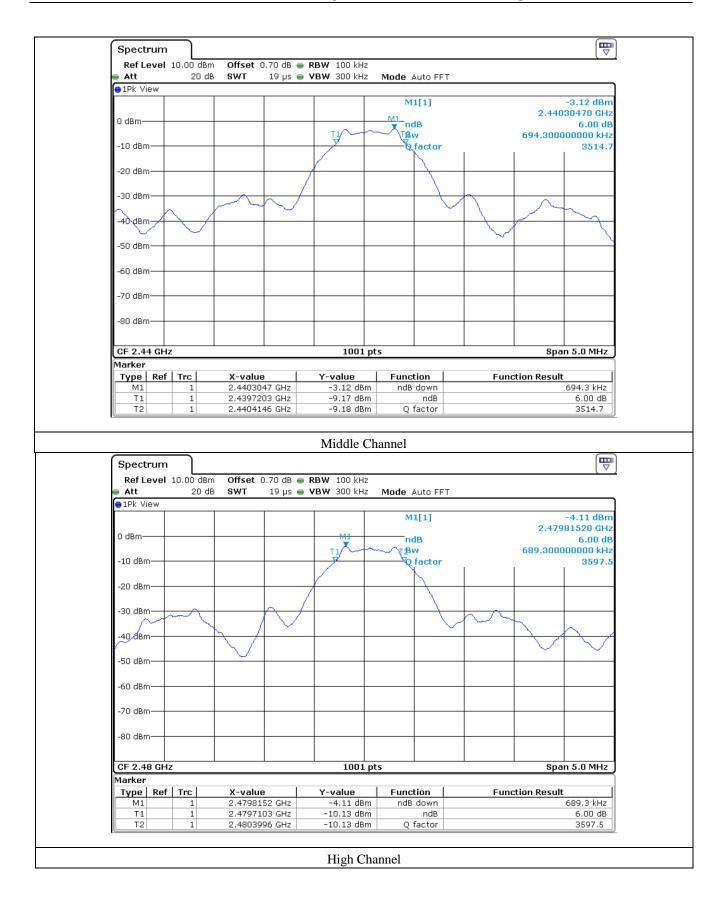
7.4 Test data

Channel	Frequency (MHz)	Measured Value (kHz)	Limit (kHz)	Margin (kHz)
Low	2 402.00	694.30	500.00	194.30
Middle	2 440.00	694.30	500.00	194.30
High	2 480.00	689.30	500.00	189.30

Remark. Margin = Measured Value - Limit







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## 8. MAXIMUM PEAK OUTPUT POWER

#### 8.1 Operating environment

Temperature	:	21 °C
Relative humidity	:	42 % R.H.

#### 8.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to  $\geq$  DTS Bandwidth, the video bandwidth is set to 3 times the resolution bandwidth.



#### 8.3 Test Date

December 10, 2021 ~ December 21, 2021



## 8.4 Test data

-. Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (kHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)
Low	2 402.00	694.30	-1.59	30.00	31.59
Middle	2 440.00	694.30	-2.75	30.00	32.75
High	2 480.00	689.30	-3.81	30.00	33.81

Remark. Margin = Limit – Measured value (=Receiver Reading + Cable Loss)

: Pass

RefLevel 1 Att	0.00 aBm 20 dB	0.70 dB 👄 635.4 ns 👄			Auto FFT		
⊖1Pk View							
					M1[1]	2.402	-1.59 dBr 219480 GH
0 dBm		 		M1		 	
-10 dBm							
-20 dBm							
-30 dBm							
-40 dBm							
-50 dBm							
-60 dBm							
-70 dBm							
-80 dBm							
CF 2.402 GHz	2		10	01 pts		Spa	an 5.0 MHz



Spectrum								
RefLevel 1 Att	0.00 dBm. 20 dB			RBW 3 MH VBW 10 MH		Auto FFT		
⊖1Pk View								
					M	1[1]	0.440	-2.75 dBn 19980 GH
0 dBm					M1		2.440	19980 GH
o dom								
-10 dBm								
10 0.0								
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
-70 dBm								
-80 dBm								
CF 2.44 GHz				100:	1 pts		Spa	n 5.0 MHz
		0#	0.70.40.0		Channel			(III) V
	.0.00 dBm 20 dB	Offset SWT	0.70 dB ( 635.4 ns (	Middle RBW 3 Mi VBW 10 Mi	Hz	Auto FFT		
Ref Level 1 Att		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>			-3.81 dBn
Ref Level 1 Att		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>	Auto FFT	 2.479	-3.81 dBn
Ref Level 1 Att		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		 2.479	-3.81 dBn
Ref Level 1 Att 1Pk View		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View 0 dBm -10 dBm		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View 0 dBm -10 dBm -20 dBm		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View 0 dBm -10 dBm		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 3           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1 Att 1Pk View 0 dBm -10 dBm -20 dBm		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 3           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm		Offset SWT	0.70 dB	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 3           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm		Offset SWT	0.70 dB 535.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 3           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm		Offset SWT	0.70 dB 535.4 ns 	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm		Offset SWT	0.70 dB 535.4 ns 	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 3           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -60 dBm		Offset SWT	0.70 dB 635.4 ns	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm		Offset SWT	0.70 dB	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn 71030 GH:
Ref Level 1           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm		Offset SWT	0.70 dB	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm		Offset SWT	0.70 dB	RBW 3 MI	Hz Hz <b>Mode</b>		2.479	-3.81 dBn
Ref Level 1           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm	20 dB	Offset SWT	0.70 dB 535.4 ns 	RBW 3 Mi     VBW 10 Mi	Hz Hz <b>Mode</b>			-3.81 dBn



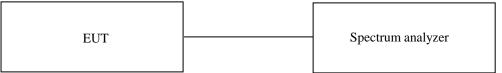
## 9. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

#### **9.1 Operating environment**

Temperature	:	21 °C
Relative humidity	:	42 % R.H.

#### 9.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz, the video bandwidth is set to 3 times the resolution bandwidth and peak detection was used.



#### 9.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

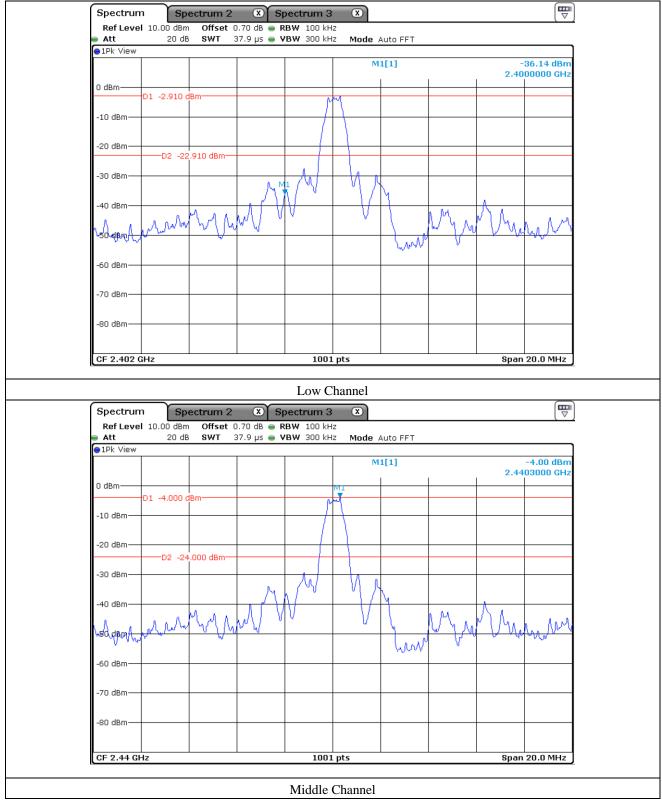
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

#### 9.4 Test Date

December 10, 2021 ~ December 21, 2021

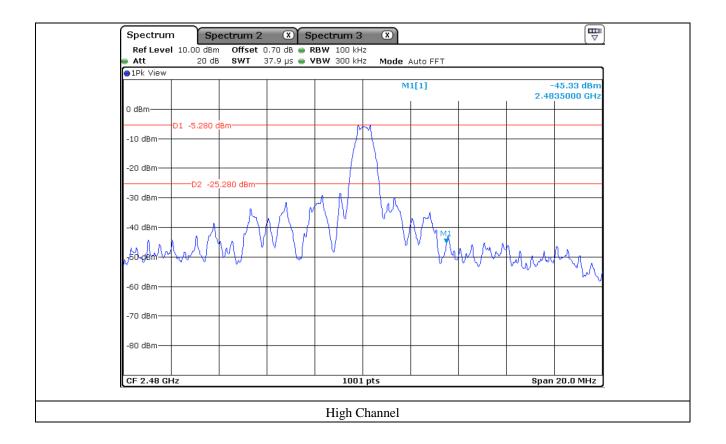


## 9.5 Test data for conducted emission



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		ectrum 2		pectrum 3					
Ref Leve Att	l 10.00 dBm 20 dB			RBW 100 kH VBW 300 kH		Auto Sweep			
●1Pk View				1	-				
					м	1[1]			47.62 dBm 33840 GHz
0 dBm									
-10 dBm									
-20 dBm									
Lo ubiii	D1 -22.910	dBm							
-30 dBm									
-40 dBm									M1
-50 dBm									Ϋ́,
									M
-60 dBm									┟╷╽╟╵╿┞
				Helle Long and			No. 10 In	ليان في ا	1. / 1
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-80 dBm									
Start 30.0	MHz			1001	. pts			Sto	p 2.5 GHz
				Low C	hannel				
Spectrum	n Spi	ectrum 2	x s	Low C					
Ref Leve	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	×	Auto Sween			
		Offset (	).90 dB 👄	pectrum 3	Z Z Mode	Auto Sweep			
Ref Leve Att	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Mode	Auto Sweep 1[1]			56.23 dBm
Ref Leve Att	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Mode				
Ref Leve Att 1Pk View 0 dBm-	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Mode				56.23 dBm
Ref Leve Att 1Pk View	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve Att 1Pk View 0 dBm-	10.00 dBm	Offset (	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	10.00 dBm	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	1 10.00 dBm 20 dB	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm	1 10.00 dBm 20 dB	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	1 10.00 dBm 20 dB	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 10.00 dBm 20 dB	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 10.00 dBm 20 dB	Offset ( SWT	).90 dB 👄	pectrum 3 RBW 100 kH	Z Z Mode				56.23 dBm
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	D1 -22.910	Offset ( SWT	).90 dB 👄	Spectrum 3 RBW 100 kH VBW 300 kH	Z Mode M	1[1]			56.23 dBm +.8140 GHz
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           M           -60 dBm	1 10.00 dBm 20 dB	dBm	0.90 dB • 240 ms •	Spectrum 3 RBW 100 kH VBW 300 kH	Z Mode M	1[1]			56.23 dBm +.8140 GHz
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	D1 -22.910	Offset ( SWT	).90 dB 👄	Spectrum 3 RBW 100 kH VBW 300 kH	Z Mode M	1[1]			56.23 dBm +.8140 GHz
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm          M           -60 dBm          M          M	D1 -22.910	dBm	0.90 dB • 240 ms •	Spectrum 3 RBW 100 kH VBW 300 kH	Z Mode M	1[1]			56.23 dBm +.8140 GHz
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           M           -60 dBm	D1 -22.910	dBm	0.90 dB • 240 ms •	Spectrum 3 RBW 100 kH VBW 300 kH	Z Mode M	1[1]			56.23 dBm +.8140 GHz
Ref Leve           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm          M           -60 dBm          M          M	1 10.00 dBm 20 dB	dBm	0.90 dB • 240 ms •	Spectrum 3 RBW 100 kH VBW 300 kH	X Mode	1[1]		Land Contraction of C	56.23 dBm +.8140 GHz

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OTC-TRF-RF-001(0)



Spectrum	- Job	ectrum 2	. SI	pectrum 3	×				
Ref Level Att	l 10.00 dBm 20 dB			RBW 100 kH ∕BW 300 kH		Auto Sweep			
● 1Pk View	20 00	041 2		<b>BH</b> 300 KH	ne moue i	auto Sweep			
					M	1[1]			47.66 dBm 37540 GHz
0 dBm									37340 GHZ
-10 dBm									
-20 dBm	D1 -24.000	dBm							
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-So abiii									
-40 dBm									
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-60 dBm							11		
	of many many hardwork	hter Autophysical Action	har the state of t	here was a start	Wepelphine boy to	hose worker	mallyward	and the start of the second	population in
				lease of the second sec	and of 0.1				
-80 dBm									
01	MHz			1001	pts			Sto	p 2.5 GHz
Start 30.0 Spectrum		ectrum 2	x SI	Middle (	<u> </u>				
Spectrum Ref Level		Offset (	).70 dB 😑 R		× z	Auto Sweep			
Spectrum Ref Level	1 Sp	Offset (	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				
Spectrum Ref Level Att 1Pk View	1 Sp	Offset (	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #	Auto Sweep			50.77 dBm 2.5120 GHz
Spectrum Ref Level	1 Sp	Offset (	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
Spectrum Ref Level Att 1Pk View	1 Sp	Offset (	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
Spectrum Ref Level Att 1Pk View 0 dBm-	1 Sp	Offset (	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
Spectrum Ref Level Att 1Pk View 0 dBm	n Sp 1 10.00 dBm 20 dB	Offset C SWT	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
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Spectrum Ref Level Att 1Pk View 0 dBm	n Sp 1 10.00 dBm 20 dB	Offset C SWT	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
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Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm	n Sp 1 10.00 dBm 20 dB	Offset C SWT	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n Sp 1 10.00 dBm 20 dB	Offset C SWT	).70 dB 😑 R	pectrum 3 BW 100 kH	Z Z Mode #				50.77 dBm
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 10.00 dBm 20 dB 20 dB	Offset C SWT	).70 dB 😑 R	Pectrum 3 RBW 100 kH /BW 300 kH	X Mode /	L[1]			50.77 dBm 2.5120 GHz
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 10.00 dBm 20 dB 20 dB	Offset C SWT	).70 dB 😑 R	Pectrum 3 RBW 100 kH /BW 300 kH	X Mode /	L[1]			50.77 dBm
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 10.00 dBm 20 dB 20 dB	dBm	0.70 dB • R 240 ms • V	Pectrum 3 RBW 100 kH /BW 300 kH	X Mode /	L[1]			50.77 dBm 2.5120 GHz
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 10.00 dBm 20 dB 20 dB	dBm	0.70 dB • R 240 ms • V	Pectrum 3 RBW 100 kH /BW 300 kH	X Mode /	L[1]			50.77 dBm 2.5120 GHz
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm -80 dBm -80 dBm	1 Sp. 1 10.00 dBm 20 dB 20	dBm	0.70 dB • R 240 ms • V	ресtrum 3 квж 100 kH /вж 300 kH	× Mode A	L[1]		erter of a black	50.77 dBm 2.5120 GHz
Spectrum Ref Level Att 1Pk View 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -60 dBm	1 Sp. 1 10.00 dBm 20 dB 20	dBm	0.70 dB • R 240 ms • V	Pectrum 3 RBW 100 kH /BW 300 kH	× Mode A	L[1]		erter of a black	50.77 dBm 2.5120 GHz



Spectrum		ectrum 2		pectrum 3					
RefLevel 1 Att	0.00 dBm 20 dB			RBW 100 kH VBW 300 kH		Auto Sweep			
●1Pk View									
					м	1[1]			·59.86 dBm .38530 GHz
0 dBm								-	
-10 dBm									
-20 dBm									
-30 dBm	-25.280	dBm							
-50 0.011									
-40 dBm									
-50 dBm									
									M1
-60 dBm						1	u		
UTRO ISBEAM	Juliular policity	manl ton a stall p	Luna presenter	marthy the star	analimonation	Lan Jacob Market	Malana	Martin Charles	which and the
MOLOCOCCUL ALLA		a la ser anno 10	l Č	Arrendal	porter-por aut-vU40(A64	and the second s			
-80 dBm									
Start 30.0 MH	Ηz			1001	. pts			Sto	p 2.5 GHz
				High C	hannel				_
Spectrum		ectrum 2		pectrum 3	×				
Ref Level 1	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	z ×	Auto Sween			
		Offset	0.70 dB 👄 F	pectrum 3	Z Z Z Mode /	Auto Sweep			
Ref Level 1 Att	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /	Auto Sweep 1[1]			•51.53 dBm
Ref Level 1 Att	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				
Ref Level 1 Att 1Pk View	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 1 Att 1Pk View	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 11           Att           1Pk View           0 dBm           -10 dBm	0.00 dBm	Offset	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 11           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 11           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	0.00 dBm	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 11           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 11           Att           1Pk View           0 dBm           -10 dBm           -20 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 1r           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 1/           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	Z Z Z Mode /				•51.53 dBm
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	X Mode /				-51.53 dBm 2.5360 GHz
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm	0.00 dBm 20 dB	Offset SWT	0.70 dB 👄 F	pectrum 3 RBW 100 kH	X Mode /		ull de la companya de		•51.53 dBm
Ref Level 1/           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm	0.00 dBm 20 dB	dBm	0.70 dB • F 240 ms • Y	Pectrum 3 RBW 100 kH: BW 300 kH:	X Mode /		Uwhith, A.us		-51.53 dBm 2.5360 GHz
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm	0.00 dBm 20 dB	dBm	0.70 dB • F 240 ms • Y	Pectrum 3 RBW 100 kH: BW 300 kH:	X Mode /		u Aug		-51.53 dBm 2.5360 GHz
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm	0.00 dBm 20 dB	dBm	0.70 dB • F 240 ms • Y	Pectrum 3 RBW 100 kH: BW 300 kH:	X Mode /		ululu a		-51.53 dBm 2.5360 GHz
Ref Level 10           Att           1Pk View           0 dBm           -10 dBm           -20 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -60 dBm	0.00 dBm 20 dB	dBm	0.70 dB • F 240 ms • Y	Pectrum 3 RBW 100 kH: BW 300 kH:	Image: Second state       Z       Mode       M		Unhuh Aug	in the stand of th	-51.53 dBm 2.5360 GHz



### 9.6 Test data for radiated emission

#### 9.6.1 Radiated Emission which fall in the Restricted Band

Resolution bandwidth	: 1 MHz and Peak Detector for Peak Mode	

- 1 MHz and RMS Detector for Average Mode
- -. Video bandwidth : 3 MHz for Peak and Average Mode

: PASSED

- -. Measurement distance : 3 m
- -. Duty Cycle : 100 %
- -. Result

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)	
Test Data for Low Channel											
2 338.01	57.47	Peak	Н	28.30	8.20	46.15	-	47.82	74.00	26.18	
2 338.10	50.41	Average	Н	28.30	8.20	46.15	0.00	40.76	54.00	13.24	
2 337.65	56.97	Peak	V	28.30	8.20	46.15	-	47.32	74.00	26.68	
2 338.11	49.61	Average	V	28.30	8.20	46.15	0.00	39.96	54.00	14.04	
			]	<b>Fest Data</b> 1	for High	Channe	ł				
2 483.50	58.92	Peak	Н	28.80	8.33	46.15	-	49.90	74.00	24.10	
2 483.50	51.34	Average	Н	28.80	8.33	46.15	0.00	42.32	54.00	11.68	
2 485.98	56.62	Peak	V	28.80	8.33	46.15	-	47.60	74.00	26.40	
2 483.50	47.79	Average	v	28.80	8.33	46.15	0.00	38.77	54.00	15.23	

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dB $\mu$ V/m) - Total Level (dB $\mu$ V/m)

Total Level = Reading + Antenna Factor + Cable Loss + Duty Factor - AMP Gain



#### 9.6.2 Spurious & Harmonic Radiated Emission

-. Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,

1 MHz for Peak Mode for the emissions outside restricted band

- -. Video bandwidth : 3 MHz for Peak and Average Mode
- -. Frequency range : 1 GHz ~ 26.5 GHz
- -. Measurement distance : 3 m
- -. Duty Cycle : 100 %
- -. Result : <u>PASSED</u>

Frequency (MHz)	Reading (dBµV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBµV/m)	Limits (dBµV/m)	Margin (dB)		
	Test Data for Low Channel											
4 804.00	54.96	Peak	Н	33.40	11.21	45.89	-	53.68	74.00	20.32		
4 804.00	48.76	Average	Н	33.40	11.21	45.89	0.00	47.48	54.00	6.52		
4 804.00	53.40	Peak	V	33.40	11.21	45.89	-	52.12	74.00	21.88		
4 804.00	45.93	Average	V	33.40	11.21	45.89	0.00	44.65	54.00	9.35		
	Test Data for Middle Channel											
4 880.00	55.76	Peak	Н	33.30	11.23	45.89	-	54.40	74.00	19.60		
4 880.00	50.20	Average	Н	33.30	11.23	45.89	0.00	48.84	54.00	5.16		
4 880.00	54.55	Peak	V	33.30	11.23	45.89	-	53.19	74.00	20.81		
4 880.00	47.71	Average	V	33.30	11.23	45.89	0.00	46.35	54.00	7.65		
	Test Data for High Channel											
4 960.00	55.84	Peak	Н	33.60	11.31	45.89	-	54.86	74.00	19.14		
4 960.00	50.49	Average	Н	33.60	11.31	45.89	0.00	49.51	54.00	4.49		
4 960.00	53.61	Peak	V	33.60	11.31	45.89	-	52.63	74.00	21.37		
4 960.00	47.04	Average	V	33.60	11.31	45.89	0.00	46.06	54.00	7.94		

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dB $\mu$ V/m) - Total Level (dB $\mu$ V/m)

Total Level = Reading + Antenna Factor + Cable Loss + Duty Factor - AMP Gain

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### **10. PEAK POWER SPECTRAL DENSITY**

#### **10.1 Operating environment**

Temperature	:	21 °C
Relative humidity	:	42 % R.H.

#### 10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to 3 kHz  $\leq$  RBW  $\leq$  100 kHz, the video bandwidth is set to 3 times the resolution bandwidth.



### 10.3 Test Date

December 10, 2021 ~ December 21, 2021



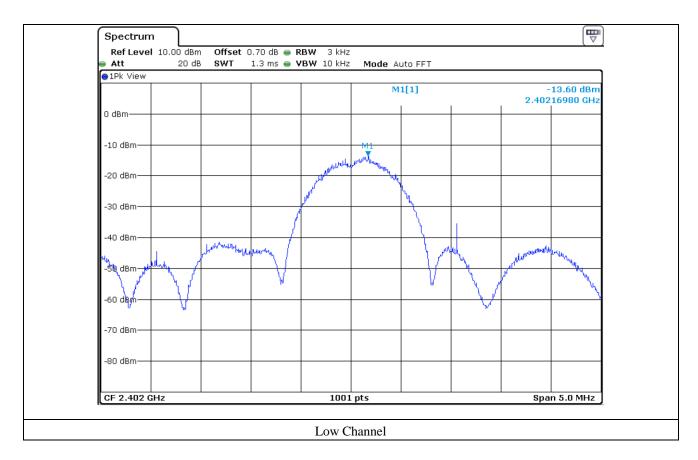
#### 10.4 Test data

-. Test Result

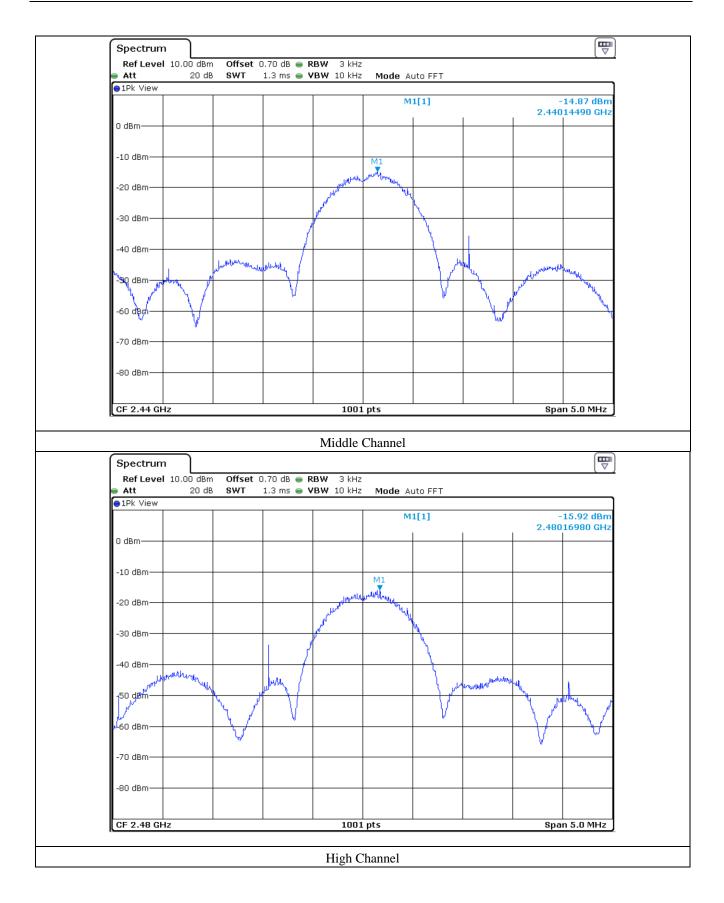
: Pass : Continuous transmitting mode -. Operating Condition

		6		
Channel	Frequency	Measured Value	Limit	Margin
Channel	(MHz)	(dBm)	(dBm)	(dB)
Low	2 402.00	-13.60	8.00	21.60
Middle	2 440.00	-14.87	8.00	22.87
High	2 480.00	-15.92	8.00	23.92

Remark. Margin = Limit – Measured value (=Receiver Reading + Cable Loss)









## **11. RADIATED EMISSION TEST**

#### **11.1 Operating environment**

Temperature	:	21 °C
Relative humidity	:	42 % R.H.

#### 11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

#### 11.3 Test Date

December 10, 2021 ~ December 21, 2021



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## 11.4 Test data

11.4.1 Test	t data fo	r 30 M	IHz ~	1000	MHz								
Humidity Le	evel		: <u>42 %</u>	<u>R.H.</u>							Tempera	ture: <u>21</u>	l °
Limits apply	y to		: <u>FCC</u>	CFR 4	7, PART	15, SUB	PART C.	SECTION	<u>N 15.247</u>				
Result			: <u>PAS</u>	<u>sed</u>									
EUT			: Bloo	d Beta	-Ketone N	Aonitoring	g System						
Detector			: CISP	R Qua	si-Peak (6	6 dB Ban	dwidth: 1	20 kHz)					
[dBuV/	/m]	<	< <qp< td=""><td>DATA&gt;</td><td>»&gt;</td><td></td><td></td><td></td><td>0</td><td>HORIZON</td><td>TAL /×</td><td>VERTI</td><td>CAL</td></qp<>	DATA>	»>				0	HORIZON	TAL /×	VERTI	CAL
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No. I	FREQ R	EADIN QP		ANT TOR	LOSS	GAIN RI	SOLT	LIMIT	MARGIN	ANTENNA	TABLE		
I	[MHz]	[dBuV	']	[dB]	[dB]	[dB] [(	dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]		
	Horizon	tal -											
								43.5 46.0		300	359		
								46.0			102 359		
	Vertica	1											
								40.0			145		
5 1	167.740 731.304	27. 25.	4 1	26.1	2.5 5.3			43.5 46.0			6 59		

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ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



#### 11.4.2 Test data for Below 30 MHz

-. Resolution bandwidth 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)

-. Frequency range : 9 kHz ~ 30 MHz

- -. Measurement distance : 3 m
- -.Operating mode : Transmitting mode

Frequency	Reading	Ant. Pol.	Ant.	0	Ant. Factor	Cable	Emission	Limits	Margin
(MHz)	(dBµV)	(H/V)	Height (m)		(dB/m)	Loss	Level(dBµV/m)	(dBµV/m)	(dB)
	En	nission fror	n the EUT mo	ore than 20	) dB below the	e limit in e	each frequency rang	ge.	

#### 11.4.3 Test data for above 1 GHz

- -. Resolution bandwidth 21 MHz for Peak and Average Mode
- -. Video bandwidth : 3 MHz for Peak and Average Mode
- -. Frequency range : 1 GHz ~ 26.5 GHz
- -. Measurement distance : 3 m
- -.Operating mode : Transmitting mode

Frequency	Reading	Ant. Pol.	Ant.	Angle	Ant. Factor	Cable	Emission	Limits	Margin
(MHz)	(dBµV)	(H/V)	Height (m)	(°)	(dB/m)	Loss	Level(dBµV/m)	(dBµV/m)	(dB)
	En	nission from	n the EUT mo	re than 20	) dB below the	e limit in e	each frequency rang	ge.	



## **13. LIST OF TEST EQUIPMENT**

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	102177	Apr. 16, 2021 (1Y)
ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 23, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 16, 2021 (1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Feb. 28, 2021 (1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	10041	Oct. 14, 2021 (1Y)
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
CO3000	Innco System	Controller	1026/40960617/P	N/A
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2021 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 07, 2021(1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020 (2Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Feb. 08, 2021 (1Y)