



RF TEST REPORT

Applicant	Deer Management Systems LLC
FCC ID	2BBNQ-DFDCAM1
Product	Defend Cam
Brand	Tactacam
Model	Defend Cam Gen 1
Report No.	R2404A0397-R4
Issue Date	May 28, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2023)/ FCC CFR 47 Part 90S (2023). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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TABLE OF CONTENT

I. Tes	t Laboratory	4
1.1.	Notes of the Test Report	4
1.2.	Test Facility	4
1.3.	Testing Location	4
2. Ger	neral Description of Equipment Under Test	5
2.1.	Applicant and Manufacturer Information	5
2.2.	General Information	5
3. App	olied Standards	7
4. Tes	t Configuration	8
5 Tes	t Case	•
0. 100	Case	9
5.1.	RF Power Output and Effective Radiated Power	
		9
5.1. 5.2.	RF Power Output and Effective Radiated Power	9 10
5.1. 5.2.	RF Power Output and Effective Radiated Power Radiated Spurious Emission	9 10 13
5.1. 5.2. 6. Tes	RF Power Output and Effective Radiated Power Radiated Spurious Emission t Results	9 10 13 13
5.1. 5.2. 6. Tes 6.1. 6.2.	RF Power Output and Effective Radiated Power Radiated Spurious Emission Results RF Power Output and Effective Radiated Power	9 10 13 13 16
5.1. 5.2. 6. Tes 6.1. 6.2. 7. Mai	RF Power Output and Effective Radiated Power Radiated Spurious Emission t Results RF Power Output and Effective Radiated Power Radiated Spurious Emission	9 10 13 13 16 18

Summary of Measurement Results

No.	Test Case	Clause in FCC rules	Verdict					
1	RF Power Output and Effective Radiated Power	2.1046/90.635(b)	PASS					
2	Radiated Spurious Emission	2.1053 /90.691	PASS					
Date of Te	sting: April 16, 2024 ~ May 6, 2024							
Date of Sa	imple Received: April 15, 2024							
Note: PAS	S: The EUT complies with the essential requireme	nts in the standard.						
FAI	L: The EUT does not comply with the essential req	uirements in the standard.						
All indication	All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai)							
Co., Ltd. b	ased on interpretations and/or observations of test	results. Measurement Uncerta	ainties were					
not taken i	nto account and are published for informational pu	rposes only.						

This report only tests RF Power Output and Effective Radiated Power and Radiated Spurious Emission of the Defend Cam Gen 1.

Other test items refer to the Module report (Report No.: R1907A0406-R3, FCC ID: XMR201909EG91NAX).

1. Test Laboratory

1.1. Notes of the Test Report

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Technology (Shanghai) Co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

1.3. Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City:	Shanghai
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2. General Description of Equipment Under Test

ApplicantDeer Management Systems LLCApplicant address1668 Jordan West Road Decorah Iowa United StatesManufacturerDeer Management Systems LLCManufacturer address1668 Jordan West Road Decorah Iowa United States

2.1. Applicant and Manufacturer Information

2.2. General Information

EUT Description							
Model	Defend Cam Gen 1						
IMEI	Conducted: 86749007	4466041					
	Radiated: 8674900744	165480					
Hardware Version	P3						
Software Version	1.0						
Power Supply	Battery						
Antenna Type	External Antenna						
Antenna Gain	4.44 dBi						
Test Mode(s)	LTE Band 26;						
Test Modulation	QPSK, 16QAM;						
LTE Category	1						
Maximum E.R.P.	LTE Band 26 26.30 dBm						
Rated Power Supply Voltage	9V						
Operating Voltage	Minimum: 6V Maxin	num: 12V					
Operating Temperature	Lowest: -25°C Hig	hest: +55°C					
Testing Temperature	Lowest: -30°C Hig	hest: +50°C					
Operating Frequency Pange(a)	Band	Tx (MHz)	Rx (MHz)				
Operating Frequency Range(s)	LTE Band 26	814 ~ 824	859 ~ 869				
	EUT Accessory						
	Dry battery:						
Power supply 1	2 * 6 AA Battery						
	DC 9V						
	Lithium battery:						
Power supply 2	Manufacturer: EVE En	ergy CO., LTD.					
	Model: B0900						
	DC 7.20V 37.44WAh						
Note:							
1. The EUT is sent from the app	plicant to Eurofins TA an	d the information of	the EUT is declared				

by the applicant.

2. There is more than one Power supply, each one should be applied throughout the

CURCIENS RF Test Report

Report No.: R2404A0397-R4

compliance test respectively, however, only Power supply 1 will be recorded in this report.3. For LTE, 16QAM only supports 25%RB.

RF Test Report

3. Applied Standards

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

Test standards: FCC CFR 47 Part 90S (2023)

FCC CFR47 Part 2 (2023)

Reference standard: ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (vertical), lie-down position (horizontal). The worst emission was found in stand-up position (vertical). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (vertical polarization, vertical polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.

The following testing in LTE is set based on the maximum RF Output Power.

Test items	Bandwidth (MHz)			Modulation		RB			Test Channel			
Test tients	1.4	3	5	10	QPSK	16QAM	1	50%	100%	L	м	н
RF Power Output and Effective Radiated Power	0	0	0	0	0	о	0	0	0	0	0	0
Radiated Spurious Emission	0	-	0	0	0	-	0	-	-	-	0	-
Note		 The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing. 										

Test modes are chosen as the worst case configuration below for LTE Band 26

5. Test Case

5.1. RF Power Output and Effective Radiated Power

Ambient Condition

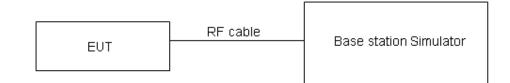
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows: EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

Test Setup



Limits

Part 90.635 (b) the maximum output power of the transmitter for mobile stations is 100 watts.

Rule Part 90.635(b) specifies that "The maximum output power of the transmitter for mobile stations is 100 watts".

Limit ≤ 100 W (50 dBm)

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.4 dB for RF power output, k = 2, U= 1.19 dB for ERP.

Test Results

Refer to the section 6.1 of this report for test data.

5.2. Radiated Spurious Emission

Ambient Condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26-2015.

2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz, and the maximum value of the receiver should be recorded as (Pr).

5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization. 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect

between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.

7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

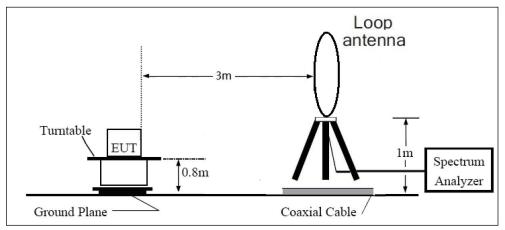
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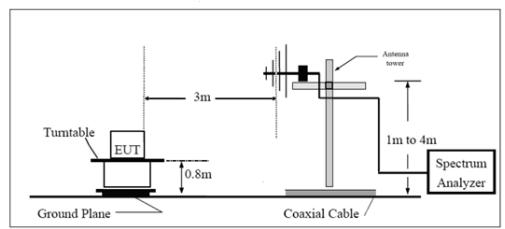
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test Setup

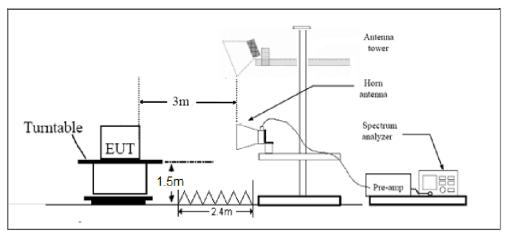
9KHz~ 30MHz



30MHz~1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

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RF Test Report

Limits

Rule Part 90.691 specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB."



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U= 3.55 dB.

Test Results

Refer to the section 6.2 of this report for test data.

6. Test Results

6.1. RF Power Output and Effective Radiated Power

Band	Bandwidth (MHz)	UL	RB Size	RB Position	Modulation	Power	ERP (dBm)
LTE Band26	(IVITIZ) 1.4	Channel 26697	1	#0	QPSK	(dBm) 23.86	(dBm) 26.15
LTE Band26			1				
LTE Band26	1.4	26697	1	#Mid	QPSK QPSK	23.65	25.94
LTE Band26	1.4	26697	3	#Max		23.65	25.94
	1.4	26697		#0	QPSK	23.60	25.89
LTE Band26	1.4	26697	3	#Mid	QPSK	23.60	25.89
LTE Band26	1.4	26697	3	#Max	QPSK	23.62	25.91
LTE Band26	1.4	26697	6	#0	QPSK	22.64	24.93
LTE Band26	1.4	26740	1	#0	QPSK	23.48	25.77
LTE Band26	1.4	26740	1	#Mid	QPSK	23.62	25.91
LTE Band26	1.4	26740	1	#Max	QPSK	23.42	25.71
LTE Band26	1.4	26740	3	#0	QPSK	23.57	25.86
LTE Band26	1.4	26740	3	#Mid	QPSK	23.57	25.86
LTE Band26	1.4	26740	3	#Max	QPSK	23.62	25.91
LTE Band26	1.4	26740	6	#0	QPSK	22.73	25.02
LTE Band26	1.4	26783	1	#0	QPSK	23.65	25.94
LTE Band26	1.4	26783	1	#Mid	QPSK	23.73	26.02
LTE Band26	1.4	26783	1	#Max	QPSK	23.52	25.81
LTE Band26	1.4	26783	3	#0	QPSK	23.49	25.78
LTE Band26	1.4	26783	3	#Mid	QPSK	23.49	25.78
LTE Band26	1.4	26783	3	#Max	QPSK	23.50	25.79
LTE Band26	1.4	26783	6	#0	QPSK	22.63	24.92
LTE Band26	3	26705	1	#0	QPSK	23.63	25.92
LTE Band26	3	26705	1	#Mid	QPSK	23.63	25.92
LTE Band26	3	26705	1	#Max	QPSK	23.52	25.81
LTE Band26	3	26705	8	#0	QPSK	22.75	25.04
LTE Band26	3	26705	8	#Mid	QPSK	22.75	25.04
LTE Band26	3	26705	8	#Max	QPSK	22.63	24.92
LTE Band26	3	26705	15	#0	QPSK	22.71	25.00
LTE Band26	3	26740	1	#0	QPSK	23.55	25.84
LTE Band26	3	26740	1	#Mid	QPSK	23.45	25.74
LTE Band26	3	26740	1	#Max	QPSK	23.42	25.71
LTE Band26	3	26740	8	#0	QPSK	22.69	24.98
LTE Band26	3	26740	8	#Mid	QPSK	22.69	24.98
LTE Band26	3	26740	8	#Max	QPSK	22.72	25.01
LTE Band26	3	26740	15	#0	QPSK	22.75	25.04
LTE Band26	3	26775	1	#0	QPSK	23.90	26.19

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RF Test Report No.: R2404A0397-R4									
LTE Band26	3	26775	1	#Mid	QPSK	24.01	26.30		
LTE Band26	3	26775	1	#Max	QPSK	23.93	26.22		
LTE Band26	3	26775	8	#0	QPSK	22.67	24.96		
LTE Band26	3	26775	8	#Mid	QPSK	22.77	25.06		
LTE Band26	3	26775	8	#Max	QPSK	22.74	25.03		
LTE Band26	3	26775	15	#0	QPSK	22.71	25.00		
LTE Band26	5	26715	1	#0	QPSK	23.57	25.86		
LTE Band26	5	26715	1	#Mid	QPSK	23.49	25.78		
LTE Band26	5	26715	1	#Max	QPSK	23.51	25.80		
LTE Band26	5	26715	12	#0	QPSK	22.73	25.02		
LTE Band26	5	26715	12	#Mid	QPSK	22.73	25.02		
LTE Band26	5	26715	12	#Max	QPSK	22.62	24.91		
LTE Band26	5	26715	25	#0	QPSK	22.71	25.00		
LTE Band26	5	26740	1	#0	QPSK	23.55	25.84		
LTE Band26	5	26740	1	#Mid	QPSK	23.61	25.90		
LTE Band26	5	26740	1	#Max	QPSK	23.46	25.75		
LTE Band26	5	26740	12	#0	QPSK	22.76	25.05		
LTE Band26	5	26740	12	#Mid	QPSK	22.76	25.05		
LTE Band26	5	26740	12	#Max	QPSK	22.68	24.97		
LTE Band26	5	26740	25	#0	QPSK	22.71	25.00		
LTE Band26	5	26765	1	#0	QPSK	23.45	25.74		
LTE Band26	5	26765	1	#Mid	QPSK	23.39	25.68		
LTE Band26	5	26765	1	#Max	QPSK	23.43	25.72		
LTE Band26	5	26765	12	#0	QPSK	22.60	24.89		
LTE Band26	5	26765	12	#Mid	QPSK	22.61	24.90		
LTE Band26	5	26765	12	#Max	QPSK	22.65	24.94		
LTE Band26	5	26765	25	#0	QPSK	22.69	24.98		
LTE Band26	10	26740	1	#0	QPSK	23.46	25.75		
LTE Band26	10	26740	1	#Mid	QPSK	23.60	25.89		
LTE Band26	10	26740	1	#Max	QPSK	23.51	25.80		
LTE Band26	10	26740	25	#0	QPSK	22.67	24.96		
LTE Band26	10	26740	25	#Mid	QPSK	22.68	24.97		
LTE Band26	10	26740	25	#Max	QPSK	22.64	24.93		
LTE Band26	10	26740	50	#0	QPSK	22.71	25.00		
LTE Band26	1.4	26697	1	#0	16QAM	22.86	25.15		
LTE Band26	1.4	26697	1	#Mid	16QAM	23.01	25.30		
LTE Band26	1.4	26697	1	#Max	16QAM	22.73	25.02		
LTE Band26	1.4	26740	1	#0	16QAM	22.94	25.23		
LTE Band26	1.4	26740	1	#Mid	16QAM	23.14	25.43		
LTE Band26	1.4	26740	1	#Max	16QAM	22.91	25.20		
LTE Band26	1.4	26783	1	#0	16QAM	22.37	24.66		
LTE Band26	1.4	26783	1	#Mid	16QAM	22.52	24.81		
LTE Band26	1.4	26783	1	#Max	16QAM	22.36	24.65		

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LTE Band26	3	26705	1	#0	16QAM	22.65	24.94
LTE Band26	3	26705	1	#Mid	16QAM	22.56	24.85
LTE Band26	3	26705	1	#Max	16QAM	22.51	24.80
LTE Band26	3	26740	1	#0	16QAM	22.80	25.09
LTE Band26	3	26740	1	#Mid	16QAM	22.78	25.07
LTE Band26	3	26740	1	#Max	16QAM	22.75	25.04
LTE Band26	3	26775	1	#0	16QAM	22.73	25.02
LTE Band26	3	26775	1	#Mid	16QAM	22.68	24.97
LTE Band26	3	26775	1	#Max	16QAM	22.64	24.93
LTE Band26	5	26715	1	#0	16QAM	23.13	25.42
LTE Band26	5	26715	1	#Mid	16QAM	23.02	25.31
LTE Band26	5	26715	1	#Max	16QAM	22.84	25.13
LTE Band26	5	26740	1	#0	16QAM	22.95	25.24
LTE Band26	5	26740	1	#Mid	16QAM	22.77	25.06
LTE Band26	5	26740	1	#Max	16QAM	22.76	25.05
LTE Band26	5	26765	1	#0	16QAM	22.70	24.99
LTE Band26	5	26765	1	#Mid	16QAM	22.81	25.10
LTE Band26	5	26765	1	#Max	16QAM	22.69	24.98
LTE Band26	10	26740	1	#0	16QAM	22.57	24.86
LTE Band26	10	26740	1	#Mid	16QAM	22.76	25.05
LTE Band26	10	26740	1	#Max	16QAM	22.60	24.89

6.2. Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1636.60	-69.69	1.70	8.70	Vertical	-64.84	-13.00	51.84	275
3	2454.90	-66.33	2.30	12.00	Vertical	-58.78	-13.00	45.78	49
4	3274.00	-68.96	2.20	13.10	Vertical	-60.21	-13.00	47.21	180
5	4092.80	-66.32	3.00	12.50	Vertical	-58.97	-13.00	45.97	65
6	4909.80	-66.54	3.10	12.50	Vertical	-59.29	-13.00	46.29	138
7	5728.10	-62.60	3.40	12.50	Vertical	-55.65	-13.00	42.65	57
8	6546.40	-58.22	3.80	11.50	Vertical	-52.67	-13.00	39.67	69
9	7364.70	-56.72	4.20	12.20	Vertical	-50.87	-13.00	37.87	9
10	8183.00	-57.87	4.30	12.30	Vertical	-52.02	-13.00	39.02	173
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Vertical position.									

LTE Band 26 1.4MHz CH Middle

LTE Band 26 5MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1633.00	-70.88	1.70	8.70	Vertical	-66.03	-13.00	53.03	225
3	2449.50	-66.61	2.30	12.00	Vertical	-59.06	-13.00	46.06	163
4	3267.20	-68.94	2.20	13.10	Vertical	-60.19	-13.00	47.19	14
5	4084.10	-65.20	3.00	12.50	Vertical	-57.85	-13.00	44.85	315
6	4899.00	-67.15	3.10	12.50	Vertical	-59.90	-13.00	46.90	192
7	5715.50	-63.60	3.40	12.50	Vertical	-56.65	-13.00	43.65	143
8	6532.00	-58.55	3.80	11.50	Vertical	-53.00	-13.00	40.00	0
9	7348.50	-55.56	4.20	12.20	Vertical	-49.71	-13.00	36.71	45
10	8165.00	-57.41	4.30	12.30	Vertical	-51.56	-13.00	38.56	178
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Vertical position.									

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RF Test Report

Report No.: R2404A0397-R4

LTE Band 26 10MHz CH Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1628.00	-70.88	1.70	8.70	Vertical	-66.03	-13.00	53.03	76
3	2442.00	-68.36	2.30	12.00	Vertical	-60.81	-13.00	47.81	201
4	3259.10	-67.76	2.20	13.10	Vertical	-59.01	-13.00	46.01	90
5	4073.80	-65.58	3.00	12.50	Vertical	-58.23	-13.00	45.23	156
6	4884.00	-66.75	3.10	12.50	Vertical	-59.50	-13.00	46.50	229
7	5698.00	-63.43	3.40	12.50	Vertical	-56.48	-13.00	43.48	306
8	6512.00	-58.08	3.80	11.50	Vertical	-52.53	-13.00	39.53	147
9	7326.00	-56.47	4.20	12.20	Vertical	-50.62	-13.00	37.62	16
10	8140.00	-56.03	4.30	12.30	Vertical	-50.18	-13.00	37.18	90
Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor. 2.The worst emission was found in the antenna is Vertical position.									

7. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date				
Wireless Communication Tester	R&S	CMW500	150415	2023-05-12	2024-05-11				
Wireless Communication Tester	Agilent	E5515C	MY48367192	2023-05-12	2024-05-11				
Radiated Spurious Emission									
Spectrum Analyzer	R&S	FSV30	100815	2023-12-05	2024-12-04				
High-pass filter	Chengyi	HPF 1000MHz	2024021	2024-02-21	2025-02-21				
High-pass filter	R&S	HPF 1500MHz	HPF 002	2024-02-21	2025-02-21				
High-pass filter	R&S	HPF 3000MHz	HPF 003	2024-02-21	2025-02-21				
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28				
Horn Antenna	Horn Antenna SCHWARZBECK		1594	2023-12-05	2026-12-04				
Software	R&S	EMC32	10.35.10	1	/				

ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.

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