

TEST REPORT

Report Number: R15343302-E2

Applicant: COGNYTE SOFTWARE LP

35 PINELAWN ROAD, SUITE 204,

MELVILLE, NY, 11747 USA

Model: FalcoNET

FCC ID : 2A7A2-FNV1

EUT Description: GI2S/FalcoNet

Test Standard(s): FCC CFR 47 Part 1, Part 2.

Date Of Issue: 2024-11-11

Prepared by:

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2024-11-11	Initial Issue	Noah Bennett

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: COGNYTE Software LP

35 Pinelawn Road, Suite 204, Melville, NY, 11747 USA

EUT DESCRIPTION: GI2S/FalcoNet

MODEL: FalcoNET

SERIAL NUMBER: 22CU037710556

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 1 SUBPART I & PART 2 SUBPART J Complies

UL LLC. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC. will constitute fraud and shall nullify the document.

Approved & Released For UL LLC By:

Prepared By:

Dan Coronia
Operations Leader
Consumer Technology Division
UL Verification Services.

Noah Bennett Engineering Project Associate Consumer Technology Division UL LLC.

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2. TEST METHODOLOGY

All calculations were made in accordance with FCC Parts 1.1310, 2.1091, 2.1093, KDB 447498 D01 v06.

3. REFERENCES

This report contains data provided by the customer which can impact the validity of results. UL LLC. is only responsible for the validity of results after the integration of the data provided by the customer. The following is information from the client:

- 1. Antenna gain data.
- 2. Manufacturing Tolerance.

Output power was retrieved from UL Report:

- R15343302-E1 for Band 30 and 70
- R14144434-E1 for all other bands

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

		Address	ISED CABID	ISED Company Number	FCC Registration	
	\boxtimes	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A	US0067	2180C	825374	

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EUT Model: FalcoNET

DATE: 2024-11-11

5. MAXIMUM PERMISSIBLE RF EXPOSURE

5.1. FCC RULES

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposure								
0.3-3.0	614	1.63	*100	6				
3.0-30	1842/f	4.89/f	*900/f²	6				
30-300	61.4	0.163	1.0	6				
300-1,500			f/300	6				
1,500-100,000			5	6				
	(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*100	30				
1.34-30	824/f	2.19/ f	*180/f²	30				
30-300	27.5	0.073	0.2	30				
300-1,500			f/1500	30				
1,500-100,000			1.0	30				

f = frequency in MHz

Notes:

- (1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
- (2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure

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^{* =} Plane-wave equivalent power density

5.1. EQUATIONS

POWER DENSITY

Power density is given by:

 $S = EIRP / (4 * Pi * D^2)$

Where

S = Power density in mW/cm^2 EIRP = Equivalent Isotropic Radiated Power in mW D = Separation distance in cm

Power density in units of mW/cm² is converted to units of W/m² by multiplying by 10.

DISTANCE

Distance is given by:

D = SQRT (EIRP / (4 * Pi * S))

Where

D = Separation distance in cm EIRP = Equivalent Isotropic Radiated Power in mW S = Power density in mW/cm^2

SOURCE-BASED DUTY CYCLE

Where applicable (for example, multi-slot cell phone applications) a duty cycle factor may be applied.

Source-based time-averaged EIRP = (DC / 100) * EIRP

Where

DC = Duty Cycle in %, as applicable EIRP = Equivalent Isotropic Radiated Power in mW

MIMO AND COLOCATED TRANSMITTERS (IDENTICAL LIMIT FOR ALL TRANSMITTERS)

For multiple chain devices, and colocated transmitters operating simultaneously in frequency bands where the limit is identical, the total power density is calculated using the total EIRP obtained by summing the EIRP (in linear units) of each transmitter.

Total EIRP = (EIRP1) + (EIRP2) + ... + (EIRPn)

where

EIRPx = Source-based time-averaged EIRP of chain x or transmitter x

The total EIRP is then used to calculate the Power Density or the Distance as applicable.

MIMO AND COLOCATED TRANSMITTERS (NON-IDENTICAL LIMIT FOR ALL TRANSMITTERS)

For multiple colocated transmitters operating simultaneously in frequency bands where different limits apply:

The Power Density at the specified separation distance is calculated for each transmitter chain or transmitter.

The fraction of the exposure limit is calculated for each chain or transmitter as (Power Density of chain or transmitter) / (Limit applicable to that chain or transmitter).

The fractions are summed.

Compliance is established if the sum of the fractions is less than or equal to one.

6. RF EXPOSURE RESULTS

In the table(s) below, Power and Gain are entered in units of dBm and dBi respectively and conversions to linear forms are used for the calculations.

The largest minimum separation distance for the EUT is **45.13cm**.

Single Chain and non-colocated transmitters								
Band	Mode	FCC	Output	Antenna	EIRP	Duty	EIRP	Separ.
		Limit	AVG Power	Gain		Cycle		Distance FCC
		(mW/cm^2)	(dBm)	(dBi)	(dBm)	(%)	(mW)	(cm)
850 MHz	GSM	0.57	38.21	3.50	41.71	100.0	14825.18	45.51
1900 MHz	GSM	1.00	36.58	5.50	42.08	100.0	16143.59	35.85
850 MHz	WCDMA	0.57	34.20	3.50	37.70	100.0	5888.44	28.68
2100 MHz	WCDMA	1.00	38.90	4.60	43.50	100.0	22387.21	42.22
1900 MHz	WCDMA	1.00	35.89	5.50	41.39	100.0	13772.09	33.11
LTE 2	QPSK	1.00	27.40	5.50	32.90	100.0	1949.84	12.46
LTE 4	QPSK	1.00	30.17	4.60	34.77	100.0	2999.16	15.45
LTE 5	QPSK	0.57	30.66	3.50	34.16	100.0	2606.15	19.08
LTE 12	QPSK	0.47	32.82	3.50	36.32	100.0	4285.49	26.94
LTE 13	QPSK	0.47	32.81	3.50	36.31	100.0	4275.63	26.91
LTE 14	QPSK	0.47	28.00	3.50	31.50	100.0	1412.54	15.47
LTE 17	QPSK	0.47	31.78	3.50	35.28	100.0	3372.87	23.90
LTE 25	QPSK	1.00	27.44	5.50	32.94	100.0	1967.89	12.52
LTE 26	QPSK	0.57	32.67	3.50	36.17	100.0	4140.00	24.05
LTE 66	QPSK	1.00	24.79	4.60	29.39	100.0	868.96	8.32
LTE 71	QPSK	0.40	31.81	3.50	35.31	100.0	3396.25	26.00
5G N71	QPSK	0.40	28.30	3.50	31.80	100.0	1513.56	17.36
LTE 30	QPSK	1.00	16.99	3.00	19.99	100.0	99.77	2.82
5G N30	QPSK	1.00	13.92	3.00	16.92	100.0	49.20	1.98
LTE 70	QPSK	1.00	13.00	4.00	17.00	100.0	50.12	2.00
5G N70	QPSK	1.00	15.97	4.00	19.97	100.0	99.31	2.81

Notes:

- 1) The manufacturer configures output power so that the maximum power, after accounting for manufacturing tolerances, will never exceed the maximum power level measured.
- 2) The output power in the tables above is the maximum output power compared against each EUT chain, various channels, and various modes within the specific band.
- 3) The antenna gain in the tables above is the maximum antenna gain among various channels within the specified band.
- 4) 100% Duty Cycle was used as worst case.
- 5) For MPE, KDB 447498 requires the calculations to use the maximum rated power; that power should be declared by the manufacturer and should not be lower than the measured power. If the power has a tolerance, then we also need to check that the measured power is within the tolerance.

END OF REPORT