

MPE REPORT

Report No.: SRTC2021-9004(F)-21082802(I)

Product Name: 5G module

Product Model: FG360-NA

Applicant: Fibocom Wireless Inc.

Manufacturer: Fibocom Wireless Inc.

Specification: FCC Part §2.1091, §2.1093, §1.1307(b), §1.1310

FCC ID: ZMOFG360NA

The State Radio_monitoring_center Testing Center (SRTC)

No.80 Beilishi Road Xicheng District Beijing, China

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1 GENERAL INFORMATION

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	No.80 Beilishi Road, Xicheng District
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liuja
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1.3 Applicant's details

Company:	Fibocom Wireless Inc.
Address:	1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China
Contacted person:	shelly.xu
Tel:	13823645040
Email:	Shelly.xu@fibocom.com

1.4 Manufacturer's details

Company:	Fibocom Wireless Inc.
Address:	1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range:	NR Band N5: Tx:824~849 MHz Rx:869 ~894MHz NR Band N7: Tx:2500~2570MHz Rx:2620~2690MHz NR Band N12: Tx:699~716 MHz Rx:729~746MHz NR Band N14: Tx:788~798 MHz Rx:758~768MHz NR Band N30: Tx:2305~2315MHz Rx:2350~2360MHz NR Band N77: Tx:3450~3550MHz;3700~3980MHz Rx: 3450~3550MHz;3700~3980MHz NR Band N78: Tx: 3450~3550MHz;3700~3800MHz Rx: 3450~3550MHz;3700~3800MHz
Modulation Type:	DFT-QPSK/DFT-16QAM/ DFT-64QAM/ DFT-256QAM/ CP-QPSK/CP-16QAM/CP-64QAM/CP-256QAM
Antenna Type:	External
Antenna Gain:	N5: 1.61dBi N7: 1.07dBi N12: 1.58dBi N14: 2.19dBi N30: 0.22dBi N77/N78: -2.09dBi
Power Supply:	Battery/Charger
Hardware Version:	V1.0
Software Version:	81103.7000.30.02.01.09
IMEI:	861139050018252

3 REFERENCE SPECIFICATION

Specification	Version	Title
2.1091	Sept. 20, 2017	Radiofrequency radiation exposure evaluation: mobile devices.
2.1093	Sept. 20, 2017	Radiofrequency radiation exposure evaluation: portable devices.
1.1307(b)	Apr. 22, 1986	Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
1.1310	June 4, 2013	Radiofrequency radiation exposure limits.
KDB447498	October 23, 2015	RF exposure procedures and equipment authorization policies for mobile and portable devices

4 RESULT SUMMARY

No.	Test case	FCC reference
1	MPE Calculation	FCC Part §2.1091, FCC Part §2.1093, FCC Part §1.1307(b) FCC Part §1.1310 KDB 447498

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Ms. Liu Jia 
Tested by: Mr. Li Bin 	Issued date: 20210923

5 TEST RESULTS

5.1 Average Power Output

5.1.1 Ambient condition

Temperature	Relative humidity	Pressure
22°C	40%	101.5kPa

5.1.2 Test Description

A transmitter antenna terminal of EUT is connected to the power meter. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies.

5.1.3 Test Procedure Used

KDB 558074 D01 DTS Meas Guidance v04 – Section 9.2.3

5.1.4 Test Settings

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

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

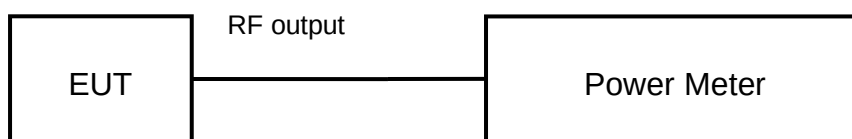
b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle to the measurement result.

5.1.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



5.1.6 Test Result

FCC Rule Part	Frequency Range (MHz)	EIRP/ ERP (W)	Frequency Tolerance (ppm)	Emission Designator	BW (MHz)	Measured 26dBC Bandwidth (MHz)	Communication Type
NR BAND N5							
22H	826.5-846.5	0.169	--	4M47G7D	5M	4.86	DFT-QPSK/CP-QPSK
	826.5-846.5	0.134	--	4M48W7D	5M	4.85	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	829-844	0.165	--	8M95G7D	10M	9.22	DFT-QPSK/CP-QPSK
	829-844	0.132	--	9M35W7D	10M	9.59	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	831.5-841.5	0.168	--	14M1G7D	15M	14.98	DFT-QPSK/CP-QPSK
	831.5-841.5	0.133	--	14M1W7D	15M	14.76	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	834-839	0.168	0.00	18M9G7D	20M	19.91	DFT-QPSK/CP-QPSK
	834-839	0.134	--	18M9W7D	20M	19.98	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
NR BAND N7							
27	2502.5-2567.5	0.272	--	4M46G7D	5M	5.04	DFT-QPSK/CP-QPSK
	2502.5-2567.5	0.206	--	4M48W7D	5M	5.03	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2505-2565	0.254	--	9M28G7D	10M	10.09	DFT-QPSK/CP-QPSK
	2505-2565	0.193	--	9M29W7D	10M	9.88	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2507.5-2562.5	0.250	--	14M1G7D	15M	15.05	DFT-QPSK/CP-QPSK
	2507.5-2562.5	0.193	--	14M1W7D	15M	14.81	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2510-2560	0.269	--	19M1G7D	20M	19.87	DFT-QPSK/CP-QPSK
	2510-2560	0.215	--	18M9W7D	20M	19.90	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2512.5-2557.5	0.232	--	23M7G7D	25M	25.18	DFT-QPSK/CP-QPSK
	2512.5-2557.5	0.183	--	23M7W7D	25M	25.09	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2515-2555	0.253	--	28M7G7D	30M	29.69	DFT-QPSK/CP-QPSK
	2515-2555	0.201	--	28M6W7D	30M	29.88	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2520-2550	0.248	--	38M9G7D	40M	39.85	DFT-QPSK/CP-QPSK

	2520-2550	0.196	--	38M9W7D	40M	39.88	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2525-2545	0.259	0.00	48M7G7D	50M	49.82	DFT-QPSK/CP-QPSK
	2525-2545	0.205	--	48M6W7D	50M	49.70	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM

NR BAND N12							
27	701.5-713.5	0.185	--	4M47G7D	5M	4.81	DFT-QPSK/CP-QPSK
	701.5-713.5	0.172	--	4M47W7D	5M	4.88	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	704-713.5	0.154	--	9M28G7D	10M	9.99	DFT-QPSK/CP-QPSK
	704-713.5	0.137	--	9M28W7D	10M	9.84	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	706.5-711	0.186	0.00	14MG7D	15M	14.77	DFT-QPSK/CP-QPSK
	706.5-711	0.162	--	14M1W7D	15M	14.75	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
NR BAND N14							
90	790.5-795.5	0.215	--	4M48G7D	5M	4.67	DFT-QPSK/CP-QPSK
	790.5-795.5	0.166	--	4M48W7D	5M	4.65	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	793	0.211	0.01	9M01G7D	10M	9.32	DFT-QPSK/CP-QPSK
	793	0.161	--	8M99W7D	10M	9.31	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
NR BAND N30							
27	2307.5-2312.5	0.170	--	4M47G7D	20M	4.97	DFT-QPSK/CP-QPSK
	2307.5-2312.5	0.139	--	4M50W7D	20M	4.93	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	2310	0.167	0.00	8M91G7D	30M	9.73	DFT-QPSK/CP-QPSK
	2310	0.133	--	8M91W7D	30M	9.77	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM

NR BAND N77							
27	3705-3975	0.138	--	8M56G7D	10M	9.38	DFT-QPSK/CP-QPSK
	3705-3975	0.107	--	8M60W7D	10M	9.85	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3707.52-3972.48	0.137	--	12M9G7D	15M	13.87	DFT-QPSK/CP-QPSK
	3707.52-3972.48	0.107	--	13M6W7D	15M	14.81	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3710.01-3969.99	0.138	--	17M9G7D	20M	19.55	DFT-QPSK/CP-QPSK
	3710.01-3969.99	0.109	--	18M2W7D	20M	19.59	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3720-3960	0.278	--	35M7G7D	40M	37.96	DFT-QPSK/CP-QPSK
	3720-3960	0.210	--	37M8W7D	40M	40.09	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3725.01-3954.99	0.282	--	45M6G7D	50M	48.12	DFT-QPSK/CP-QPSK
	3725.01-3954.99	0.223	--	57M5W7D	50M	50.29	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3730.02-3949.98	0.281	--	57M9G7D	60M	60.58	DFT-QPSK/CP-QPSK
	3730.02-3949.98	0.223	--	57M9W7D	60M	61.70	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3735-3945	0.284	--	64M3G7D	70M	67.72	DFT-QPSK/CP-QPSK
	3735-3945	0.226	--	64M4W7D	70M	68.60	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3740.01-3939.99	0.303	--	77M5G7D	80M	80.18	DFT-QPSK/CP-QPSK
	3740.01-3939.99	0.239	--	77M6W7D	80M	84.82	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3745.02-3934.98	0.301	--	86M6G7D	90M	94.34	DFT-QPSK/CP-QPSK
	3745.02-3934.98	0.240	--	87M5W7D	90M	94.33	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3750-3930	0.296	0.00	96M4G7D	100M	100.5	DFT-QPSK/CP-QPSK
	3750-3930	0.234	--	97M3W7D	100M	102.8	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM

NR BAND N78(3450-3550)							
27	3455.01-3545.01	0.299	--	8M58G7D	10M	10.10	DFT-QPSK/CP-QPSK
	3455.01-3545.01	0.240	--	8M58W7D	10M	10.57	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3457.5-3542.49	0.211	--	13M5G7D	15M	14.43	DFT-QPSK/CP-QPSK
	3457.5-3542.49	0.184	--	13M6W7D	15M	15.67	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3460.02-3540	0.281	--	18M2G7D	20M	19.33	DFT-QPSK/CP-QPSK
	3460.02-3540	0.218	--	18M2W7D	20M	19.44	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3462.51-3537.51	0.276	--	23M2G7D	25M	24.45	DFT-QPSK/CP-QPSK
	3462.51-3537.51	0.218	--	23M2W7D	25M	24.50	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3465-3534.99	0.282	--	28M0G7D	30M	29.29	DFT-QPSK/CP-QPSK
	3465-3534.99	0.224	--	27M9W7D	30M	30.26	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3470.01-3530.01	0.281	--	37M8G7D	40M	40.36	DFT-QPSK/CP-QPSK
	3470.01-3530.01	0.218	--	37M9W7D	40M	40.94	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3475.02-3525	0.301	--	47M4G7D	50M	49.62	DFT-QPSK/CP-QPSK
	3475.02-3525	0.235	--	47M5W7D	50M	50.63	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3480-3519.99	0.281	--	58M1G7D	60M	60.33	DFT-QPSK/CP-QPSK
	3480-3519.99	0.206	--	58M0W7D	60M	61.04	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3485.01-3515.01	0.217	--	58M0G7D	70M	63.67	DFT-QPSK/CP-QPSK
	3485.01-3515.01	0.182	--	58M0W7D	70M	64.49	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3490.02-3510	0.248	--	77M9G7D	80M	81.19	DFT-QPSK/CP-QPSK
	3490.02-3510	0.196	--	77M5W7D	80M	84.06	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3495-3504.99	0.246	--	88M0G7D	90M	90.42	DFT-QPSK/CP-QPSK
	3495-3504.99	0.196	--	87M5W7D	90M	92.99	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3500.01	0.189	0.00	97M4G7D	100M	101.0	DFT-QPSK/CP-QPSK
	3500.01	0.183	--	97M4W7D	100M	101.3	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM

NR BAND N78(3700-3800)							
27	3705-3795	0.319	--	8M58G7D	10M	9.44	DFT-QPSK/CP-QPSK
	3705-3795	0.252	--	8M59W7D	10M	10.07	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3707.52-3792.48	0.316	--	13M6G7D	15M	14.52	DFT-QPSK/CP-QPSK
	3707.52-3792.48	0.253	--	13M6W7D	15M	15.03	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3710.01-3789.99	0.319	--	18M17G7D	20M	19.37	DFT-QPSK/CP-QPSK
	3710.01-3789.99	0.248	--	18M2W7D	20M	19.61	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3712.5-3787.5	0.316	--	23M0G7D	25M	24.67	DFT-QPSK/CP-QPSK
	3712.5-3787.5	0.254	--	23M2W7D	25M	24.53	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3715.02-3785.01	0.314	--	27M8G7D	30M	29.91	DFT-QPSK/CP-QPSK
	3715.02-3785.01	0.251	--	27M9W7D	30M	30.03	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3720-3780	0.313	--	37M7G7D	40M	39.63	DFT-QPSK/CP-QPSK
	3720-3780	0.248	--	37M8W7D	40M	41.25	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3725.01-3774.99	0.315	--	47M4G7D	50M	50.22	DFT-QPSK/CP-QPSK
	3725.01-3774.99	0.251	--	47M4W7D	50M	51.59	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3730.02-3769.98	0.320	--	58M2G7D	60M	61.10	DFT-QPSK/CP-QPSK
	3730.02-3769.98	0.247	--	58M0W7D	60M	61.60	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3735-3765	0.321	--	57M9G7D	70M	63.12	DFT-QPSK/CP-QPSK
	3735-3765	0.253	--	57M9W7D	70M	63.60	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3740.01-3759.99	0.314	--	77M5G7D	80M	82.29	DFT-QPSK/CP-QPSK
	3740.01-3759.99	0.249	--	77M4W7D	80M	83.92	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3745.02-3754.98	0.312	--	87M3G7D	90M	90.46	DFT-QPSK/CP-QPSK
	3745.02-3754.98	0.245	--	87M4W7D	90M	93.68	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM
	3750	0.311	0.00	97M1G7D	100M	101.4	DFT-QPSK/CP-QPSK
	3750	0.247	--	97M2W7D	100M	101.3	DFT-16QAM/DFT-64QAM/ DFT-256QAM/CP-16QAM/ CP-64QAM/CP-256QAM

5.2 Calculation result

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure ☐

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure ☒

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz *Plane-wave equivalent power density

Calculation procedure:

According to §2.1091, §2.1093, §1.1307(b) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The $S = PG / (4\pi R^2)$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Mode/Band	Freq (GHz)	Power		Antenna Gain		R (cm)	S (mW/cm ²)	Limits (mW/cm ²)
		(dBm)	(mW)	(dBi)	(Numeric)			
NR n5	836.5	24.5	281.84	1.61	1.45	20	0.0812	0.5577
NR n7	2535	24.5	281.84	1.07	1.28	20	0.0717	1.00
NR n12	707.5	24.5	281.84	1.58	1.44	20	0.0807	0.4717
NR n14	793	24.5	281.84	2.19	1.66	20	0.0928	0.5287
NR n30	2310	24.5	281.84	0.22	1.05	20	0.0590	1.00
NR n77/n78	3500.01	24.5	281.84	-2.09	0.62	20	0.0347	1.00

Note: 1mW/cm² from §1.1310 Table 1.

According to the KDB447498 D01 section 7.1 determine the device is exclusion from SAR test.

---End of Test Report---