



RF Exposure Evaluation Report

FOR:

Nuro

Model:

Camera Aggregator

Product Description:

Host-based automotive Data device

Contains FCC ID: 2A98RDJZCGCA, 2A98RDJZCGWA

Contains IC: 30172-DJZCGCA, 30172-DJZCGWA

Per:

CFR Part Part1 (1.1307 & 1.1310), Part 2 (2.1093),
FCC KDB 447498 D04 Interim General RF Exposure Guidance v01
ISED RSS-102 Issue 5

Report number: EMC_NUROI_006_22001_FCC_ISED_RF_Exposure

DATE: 2023-08-15



A2LA Accredited

IC recognized #
3462B

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1 Assessment

This RF Exposure evaluation report provides evidence for compliance of the equipment (as identified in section 3 of this test report) with the RF Exposure limits for mobile devices as defined in FCC CFR Part 1.1307, Part 2 (2.1093) and ISSED standard RSS-102 issue 5 under worst case conditions (measured or rated RF output power including tune-up tolerance, antenna gain, the distance towards the human body, multiple transmitter information as presented by the applicant).

In addition, maximum antenna gain or minimum distance towards the human body is calculated respectively, where relevant.

The device meets the limits stipulated by the above given FCC and ISSED rule parts based on available specifications for worst-case conditions at a separation distance greater than 20cm to the body.

Company	Description	Model #
Nuro	Host-based automotive Data device	Camera Aggregator

Responsible for Testing Laboratory:

Arndt Stoecker			
2023-08-15	Compliance	(Director of Regulatory Services)	
Date	Section	Name	Signature

Responsible for the Report:

Art Thammanavarat			
2023-08-15	Compliance	(Senior EMC Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	Arndt Stoecker
Responsible Project Leader:	Rami Saman

2.2 Identification of the Client

Client Firm/Name:	Nuro
Street Address:	1300 Terra Bella Ave #200
City/Zip Code	Mountain View, CA 94043
Country	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Client
Manufacturers Address:	
City/Zip Code	
Country	

3 Equipment under Assessment

Product Description:	Host-based automotive Data device
Model Name :	Camera Aggregator
HW Version :	DVT2
SW Version :	3.14
Contains FCC ID :	2A98RDJZCGCA 2A98RDJZCGWA
Contains IC:	30172-DJZCGCA 30172-DJZCGWA
Bands/Modes Supported	Cellular Modules Model Name : Quectel Model Number : EG18-NA FCC_: XMR202002EG18NA IC_: 10224A-20202EG18NA Wireless Technologies W-CDMA (UMTS) FDD: II, IV, V, LTE FDD/TDD Band: 2,4,5,7,12,13,14,25,26,30,41,66,71
	Wi-Fi Modules Model Name : UBlox Model Number : Jody W374 FCC_: XPYJODYW374 IC_: 8595A-JODYW374 Wireless Technologies Wi-Fi 2.4GHz Wi-Fi 5GHz
	GPS Modules Model Name : u-blox M8T concurrent GNSS module Model Number : NEO-M8T
Frequency Range	Frequency Range : Wi-Fi 2.4GHz: 2400 – 2480 MHz Wi-Fi 5GHz: 5150 – 5850 MHz UMTS Band II: 1852.4 – 1907.6 MHz UMTS Band IV: 1712.4 – 1752.6 MHz UMTS Band V: 826.4 – 846.6 MHz LTE Band 2: 1850 – 1910 MHz LTE Band 4: 1710 – 1755 MHz LTE Band 5: 824 – 849 MHz LTE Band 12: 699 – 716 MHz LTE Band 13: 777 – 787 MHz LTE Band 14: 788 – 798 MHz LTE Band 25: 1850– 1915 MHz LTE Band 26: 814 – 849 MHz LTE Band 30: 2305 – 2315 MHz LTE Band 41: 2496 – 2690 MHz LTE Band 66: 1710 – 1780 MHz LTE Band 71: 663 – 698 MHz
Power Supply/ Rated Operating Voltage Range	12VDC

Operating Temperature Range	Low : 0 °C Norm 45 °C High 65 °C
Sample Revision	☒ Production ☐ Pre-Production
EUT Dimensions	551.00mm x 232.85mm x 68.16mm
Weight	4600 grams
EUT Diameter	☒ < 60 cm ☐ Other _____
Max. Conducted Output Power:	See Table P1
Max. declared antenna gain	See Table A1

Note: The information of the EUT specifications in the table above is provided by the client except the specified (Measured or calculated) output power.

Table: P1 (Max. Conducted Output Power)

Radio / Band	Frequency (MHz)	Power Conducted + Cable loss of 2.6dB (dBm)			
		A0 (dBm)	A1 (dBm)	B0 (dBm)	B1 (dBm)
UMTS V	836.5	20.50	20.60	20.50	20.70
UMTS IV	1732.5	20.44	21.40	20.53	20.67
UMTS II	1880	20.37	21.37	20.32	20.43
LTE 2	1880	19.60	19.88	19.78	19.79
LTE 4	1732.5	19.65	20.21	20.00	20.10
LTE 5	836.5	20.03	20.28	19.99	20.18
LTE 12	707.5	20.03	19.20	20.00	20.22
LTE 13	782	19.82	20.07	19.93	20.00
LTE 14	793	20.00	20.05	19.92	20.07
LTE 7	2535	19.58	19.94	19.68	19.62
LTE 25	1882.5	19.59	19.81	19.74	19.70
LTE 26	831.5	19.73	20.34	20.05	20.32
LTE 29	Downlink only				
LTE 41	2593	19.70	19.92	19.60	19.43
LTE 66	1745	19.82	20.15	19.98	20.00
LTE 71	680.5	19.53	19.80	19.50	19.70
WiFi 2.4 CH6 1Mbit/s	2437	17.9			
UNII-1 CH40 MCS8 40 MHz MIMO	5200	14.5			
UNII-3 CH 157 MCS8 20 MHz MIMO	5785	15			

Table A1: (Max. declared antenna gain)

Band	Mid CH F MHz	6 in 1 Antenna Gain	4 in 1 Antenna Gain
UMTS V	836.5	5.29	4.91
UMTS IV	1732.5	5.18	6.09
UMTS II	1880	5.18	6.09
LTE 2	1880	5.18	6.09
LTE 5	836.5	5.29	4.91
LTE 4	1732.5	5.18	6.09
LTE 12	707.5	4.89	4.65
LTE 13	782	4.89	4.65
LTE 14	793	4.89	4.65
LTE 7	2535	7.54	6.26
LTE 25	1882.5	5.18	6.09
LTE 26	831.5	5.29	4.91
LTE 29	Downlink only		
LTE 41	2593	7.54	6.26
LTE 66	1745	5.18	6.09
LTE 71	680.5	5.36	5.09
WiFi 2.4	2437	5.76	4.43
UNII-1	5200	8.97	8.12
UNII-3	5785	8.97	8.12

4 RF Exposure Limits and FCC and ISED Basic Rules

4.1 FCC

4.1.1 § 2.1093(c)(1)

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for mobile devices with single RF sources having either more than an available maximum time-averaged power of 1 mW or more than the ERP listed in Table 1 to § 1.1307(b)(3)(i)(C), whichever is greater. For mobile devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 20 centimeters to 40 centimeters and frequencies from 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 of this chapter is necessary if the ERP of the device is greater than ERP_{20cm} in the formula below. If the ERP of a single RF source at distances from 20 centimeters to 40 centimeters and frequencies from 0.3 GHz to 6 GHz is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP) in comparison with the following formula only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

$$P_{th}(\text{mW}) = ERP_{20\text{ cm}}(\text{mW}) = \begin{cases} 2040f & 0.3\text{ GHz} \leq f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \leq f \leq 6\text{ GHz} \end{cases}$$

4.1.2 § 2.1093(c)(2)

For multiple mobile or portable RF sources within a device operating in the same time averaging period, routine environmental evaluation is required if the formula in § 1.1307(b)(3)(ii)(B) of this chapter is applied to determine the exemption ratio and the result is greater than 1.

4.1.3 § 1.1307(b)(3)(ii)(B)

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

4.2 ISED RSS 102

4.1.4 Clause 2.5.2 Exemption Limits for Routine Evaluation – RF Exposure Evaluation

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

5 Evaluations

5.1 FCC RF Exposure (Standalone)

Radio	Tech-Band	Freq-Low _[GHz]	Pwr _[dBm]	Power _[W]	Ant-G _[dBi]	ERP _[mW]	Threshold ERP _[W]	ERP < Threshold ERP _[W]	FCC 2.1093(c)(1) Pth _[mW] = ERP _{20cm}
Cellular A0	UMTS V	0.8264	20.50	0.112	5.29	231.21	0.42	Yes	1685.86
	UMTS IV	1.7124	20.44	0.111	5.08	217.27	0.77	Yes	3060.00
	UMTS II	1.8524	20.37	0.109	5.08	213.80	0.77	Yes	3060.00
	LTE 2	1.8550	19.60	0.091	5.08	179.06	0.77	Yes	3060.00
	LTE 4	1.7150	19.65	0.092	5.08	181.13	0.77	Yes	3060.00
	LTE 5	0.8290	20.03	0.101	5.29	207.49	0.42	Yes	1691.16
	LTE 12	0.7040	20.03	0.101	4.84	187.07	0.36	Yes	1436.16
	LTE 13	0.7820	19.82	0.096	4.84	178.24	0.40	Yes	1595.28
	LTE 14	0.7795	20.00	0.100	4.84	185.78	0.40	Yes	1590.18
	LTE 7	2.5050	19.58	0.091	7.54	314.05	0.77	Yes	3060.00
	LTE 25	1.8550	19.59	0.091	5.08	178.65	0.77	Yes	3060.00
	LTE 26	0.8190	19.73	0.094	5.29	193.64	0.42	Yes	1670.76
	LTE 41	2.5010	19.70	0.093	7.54	322.85	0.77	Yes	3060.00
Cellular A1	LTE 66	1.7150	19.82	0.096	5.08	188.36	0.77	Yes	3060.00
	LTE 71	0.6680	19.53	0.090	5.36	187.93	0.34	Yes	1362.72
	UMTS V	0.8264	20.60	0.115	5.19	231.21	0.42	Yes	1685.86
	UMTS IV	1.7124	21.40	0.138	5.18	277.33	0.77	Yes	3060.00
	UMTS II	1.8524	21.37	0.137	5.18	275.42	0.77	Yes	3060.00
	LTE 2	1.8550	19.88	0.097	5.18	195.43	0.77	Yes	3060.00
	LTE 4	1.7150	20.21	0.105	5.18	210.86	0.77	Yes	3060.00
	LTE 5	0.8290	20.28	0.107	5.19	214.78	0.42	Yes	1691.16
	LTE 12	0.7040	19.20	0.083	5.89	196.79	0.36	Yes	1436.16
	LTE 13	0.7820	20.07	0.102	4.89	190.99	0.40	Yes	1595.28
	LTE 14	0.7795	20.05	0.101	4.89	190.11	0.40	Yes	1590.18
	LTE 7	2.5050	19.94	0.099	6.39	261.82	0.77	Yes	3060.00
	LTE 25	1.8550	19.81	0.096	5.18	192.31	0.77	Yes	3060.00
WLAN	11.b	2.4120	15.19	0.0330	5.76	75.86	0.77	Yes	3060.00
	11.ac-VHT40 MIMO	5.1800	13.48	0.0223	8.97	107.20	0.77	Yes	3060.00
	11.ac-VHT80 MIMO	5.7450	16.17	0.0414	8.97	199.07	0.77	Yes	3060.00

Radio	Tech-Band	Freq-Low _[GHz]	Pwr _[dBm]	Power _[W]	Ant-G _[dBi]	ERP _[mW]	Threshold ERP _[W]	ERP < Threshold ERP _[W]	FCC 2.1093(c)(1) Pth _[mW] = ERP _{20cm}
Cellular B0	UMTS V	0.8264	20.50	0.112	4.91	211.84	0.42	Yes	1685.86
	UMTS IV	1.7124	20.53	0.113	5.92	269.15	0.77	Yes	3060.00
	UMTS II	1.8524	20.32	0.108	5.92	256.45	0.77	Yes	3060.00
	LTE 2	1.8550	19.78	0.095	5.92	226.46	0.77	Yes	3060.00
	LTE 4	1.7150	20.00	0.100	5.92	238.23	0.77	Yes	3060.00
	LTE 5	0.8290	19.99	0.100	4.91	188.36	0.42	Yes	1691.16
	LTE 12	0.7040	20.00	0.100	4.65	177.83	0.36	Yes	1436.16
	LTE 13	0.7820	19.93	0.098	4.65	174.98	0.40	Yes	1595.28
	LTE 14	0.7795	19.92	0.098	4.65	174.58	0.40	Yes	1590.18
	LTE 7	2.5050	19.68	0.093	6.19	235.50	0.77	Yes	3060.00
	LTE 25	1.8550	19.74	0.094	5.92	224.39	0.77	Yes	3060.00
	LTE 26	0.8190	20.05	0.101	4.91	190.99	0.42	Yes	1670.76
	LTE 41	2.5010	19.60	0.091	6.19	231.21	0.77	Yes	3060.00
Cellular B1	LTE 66	1.7150	19.98	0.100	5.92	237.14	0.77	Yes	3060.00
	LTE 71	0.6680	19.50	0.089	5.09	175.39	0.34	Yes	1362.72
	UMTS V	0.8264	20.70	0.117	3.66	166.34	0.42	Yes	1685.86
	UMTS IV	1.7124	20.67	0.117	6.09	289.07	0.77	Yes	3060.00
	UMTS II	1.8524	20.43	0.110	6.09	273.53	0.77	Yes	3060.00
	LTE 2	1.8550	19.79	0.095	6.09	236.05	0.77	Yes	3060.00
	LTE 4	1.7150	20.10	0.102	6.09	253.51	0.77	Yes	3060.00
	LTE 5	0.8290	20.18	0.104	3.66	147.57	0.42	Yes	1691.16
	LTE 12	0.7040	20.22	0.105	3.82	154.53	0.36	Yes	1436.16
	LTE 13	0.7820	20.00	0.100	3.82	146.89	0.40	Yes	1595.28
	LTE 14	0.7795	20.07	0.102	3.82	149.28	0.40	Yes	1590.18
	LTE 7	2.5050	19.62	0.092	6.26	236.05	0.77	Yes	3060.00
	LTE 25	1.8550	19.70	0.093	6.09	231.21	0.77	Yes	3060.00
WLAN	LTE 26	0.8190	20.32	0.108	3.82	158.12	0.42	Yes	1670.76
	LTE 41	2.5010	19.43	0.088	6.26	225.94	0.77	Yes	3060.00
	LTE 66	1.7150	20.00	0.100	6.09	247.74	0.77	Yes	3060.00
WLAN	LTE 71	0.6680	19.70	0.093	3.69	133.05	0.34	Yes	1362.72
Radio	Tech-Band	Freq-Low _[GHz]	Pwr _[dBm]	Power _[W]	Ant-G _[dBi]	ERP _[mW]	Threshold ERP _[W]	ERP < Threshold ERP _[W]	FCC 2.1093(c)(1) Pth _[mW] = ERP _{20cm}
WLAN	11.b	2.4120	15.19	0.0330	5.76	75.86	0.77	Yes	3060.00
	11.ac-VHT40 MIMO	5.1800	13.48	0.0223	8.97	107.20	0.77	Yes	3060.00
	11.ac-VHT80 MIMO	5.7450	16.17	0.0414	8.97	199.07	0.77	Yes	3060.00

5.2 ISED RF Exposure (Standalone)

									RF Exposure	
									RSS-102 2.5.2 D>20 cm (300 ≤ Freq < 6000 MHz)	
Radio	Tech-Band	Freq-Low [MHz]	Pwr _{dBm}	Power _[W]	Ant-G [dBi]	Ant-G [lin]	EIRP _[W]	EIRP _[mW]	Exemption limit for Routine Evaluation	Exemption (Y/N)
Cellular A	UMTS V	826.40	20.50	0.11	5.29	3.38	0.38	379.31	1.29	Yes
	UMTS IV	1712.40	20.44	0.11	5.08	3.22	0.36	356.45	2.12	Yes
	UMTS II	1852.40	20.37	0.11	5.08	3.22	0.35	350.75	2.24	Yes
	LTE 2	1855.00	19.60	0.09	5.08	3.22	0.29	293.76	2.24	Yes
	LTE 4	1715.00	19.65	0.09	5.08	3.22	0.30	297.17	2.13	Yes
	LTE 5	829.00	20.03	0.10	5.29	3.38	0.34	340.41	1.29	Yes
	LTE 12	704.00	20.03	0.10	4.84	3.05	0.31	306.90	1.16	Yes
	LTE 13	782.00	19.82	0.10	4.84	3.05	0.29	292.42	1.24	Yes
	LTE 14	779.50	20.00	0.10	4.84	3.05	0.30	304.79	1.24	Yes
	LTE 7	2505.00	19.58	0.09	7.54	5.68	0.52	515.23	2.75	Yes
	LTE 25	1855.00	19.59	0.09	5.08	3.22	0.29	293.09	2.24	Yes
	LTE 26	819.00	19.73	0.09	5.29	3.38	0.32	317.69	1.28	Yes
	LTE 41	2501.00	19.70	0.09	7.54	5.68	0.53	529.66	2.75	Yes
	LTE 66	1715.00	19.82	0.10	5.08	3.22	0.31	309.03	2.13	Yes
	LTE 71	668.00	19.53	0.09	5.36	3.44	0.31	308.32	1.12	Yes
Cellular A	UMTS V	826.40	20.60	0.11	5.19	3.30	0.38	379.31	1.29	Yes
	UMTS IV	1712.40	21.40	0.14	5.18	3.30	0.45	454.99	2.12	Yes
	UMTS II	1852.40	21.37	0.14	5.18	3.30	0.45	451.86	2.24	Yes
	LTE 2	1855.00	19.88	0.10	5.18	3.30	0.32	320.63	2.24	Yes
	LTE 4	1715.00	20.21	0.10	5.18	3.30	0.35	345.94	2.13	Yes
	LTE 5	829.00	20.28	0.11	5.19	3.30	0.35	352.37	1.29	Yes
	LTE 12	704.00	19.20	0.08	5.89	3.88	0.32	322.85	1.16	Yes
	LTE 13	782.00	20.07	0.10	4.89	3.08	0.31	313.33	1.24	Yes
	LTE 14	779.50	20.05	0.10	4.89	3.08	0.31	311.89	1.24	Yes
	LTE 7	2505.00	19.94	0.10	6.39	4.36	0.43	429.54	2.75	Yes
	LTE 25	1855.00	19.81	0.10	5.18	3.30	0.32	315.50	2.24	Yes
	LTE 26	819.00	20.34	0.11	4.89	3.08	0.33	333.43	1.28	Yes
	LTE 41	2501.00	19.92	0.10	6.39	4.36	0.43	427.56	2.75	Yes
	LTE 66	1715.00	20.15	0.10	5.18	3.30	0.34	341.19	2.13	Yes
	LTE 71	668.00	19.80	0.10	4.54	2.84	0.27	271.64	1.12	Yes
Radio	Tech-Band	Freq-Low [MHz]	Pwr _{dBm}	Power _[W]	Ant-G [dBi]	Ant-G [lin]	EIRP _[W]	EIRP _[mW]	Exemption limit for Routine Evaluation	Exemption (Y/N)
WLAN	11.b	2412.0	15.19	0.033	5.76	3.77	0.124	124.451	2.68	Yes
	11.ac-VHT40 MIMO	5180.0	13.48	0.022	8.97	7.89	0.176	175.873	4.53	Yes
	11.ac-VHT80 MIMO	5745.0	16.17	0.041	8.97	7.89	0.327	326.588	4.86	Yes

									RF Exposure	
									RSS-102 2.5.2 D>20 cm (300 ≤ Freq < 6000 MHz)	
Radio	Tech-Band	Freq-Low [MHz]	Pwr _{dBm}	Power _[W]	Ant-G [dBi]	Ant-G [lin]	EIRP _[W]	EIRP _[mW]	Exemption limit for Routine Evaluation	Exemption (Y/N)
Cellular B0	UMTS V	826.40	20.50	0.11	4.91	3.10	0.35	347.536	1.3	Yes
	UMTS IV	1712.40	20.53	0.11	5.92	3.91	0.44	441.570	2.12	Yes
	UMTS II	1852.40	20.32	0.11	5.92	3.91	0.42	420.727	2.24	Yes
	LTE 2	1855.00	19.78	0.10	5.92	3.91	0.37	371.535	2.24	Yes
	LTE 4	1715.00	20.00	0.10	5.92	3.91	0.39	390.841	2.13	Yes
	LTE 5	829.00	19.99	0.10	4.91	3.10	0.31	309.030	1.29	Yes
	LTE 12	704.00	20.00	0.10	4.65	2.92	0.29	291.743	1.16	Yes
	LTE 13	782.00	19.93	0.10	4.65	2.92	0.29	287.078	1.24	Yes
	LTE 14	779.50	19.92	0.10	4.65	2.92	0.29	286.418	1.2	Yes
	LTE 7	2505.00	19.68	0.09	6.19	4.16	0.39	386.367	2.75	Yes
	LTE 25	1855.00	19.74	0.09	5.92	3.91	0.37	368.129	2.24	Yes
	LTE 26	819.00	20.05	0.10	4.91	3.10	0.31	313.329	1.28	Yes
	LTE 41	2501.00	19.60	0.09	6.19	4.16	0.38	379.315	2.75	Yes
	LTE 66	1715.00	19.98	0.10	5.92	3.91	0.39	389.045	2.13	Yes
	LTE 71	668.00	19.50	0.09	5.09	3.23	0.29	287.740	1.12	Yes
Cellular B1	UMTS V	826.40	20.70	0.12	3.66	2.32	0.27	272.898	1.3	Yes
	UMTS IV	1712.40	20.67	0.12	6.09	4.06	0.47	474.242	2.12	Yes
	UMTS II	1852.40	20.43	0.11	6.09	4.06	0.45	448.745	2.24	Yes
	LTE 2	1855.00	19.79	0.10	6.09	4.06	0.39	387.258	2.24	Yes
	LTE 4	1715.00	20.10	0.10	6.09	4.06	0.42	415.911	2.13	Yes
	LTE 5	829.00	20.18	0.10	3.66	2.32	0.24	242.103	1.29	Yes
	LTE 12	704.00	20.22	0.11	3.82	2.41	0.25	253.513	1.16	Yes
	LTE 13	782.00	20.00	0.10	3.82	2.41	0.24	240.991	1.24	Yes
	LTE 14	779.50	20.07	0.10	3.82	2.41	0.24	244.906	1.2	Yes
	LTE 7	2505.00	19.62	0.09	6.26	4.23	0.39	387.258	2.75	Yes
	LTE 25	1855.00	19.70	0.09	6.09	4.06	0.38	379.315	2.24	Yes
	LTE 26	819.00	20.32	0.11	3.82	2.41	0.26	259.418	1.28	Yes
	LTE 41	2501.00	19.43	0.09	6.26	4.23	0.37	370.681	2.75	Yes
	LTE 66	1715.00	20.00	0.10	6.09	4.06	0.41	406.443	2.13	Yes
	LTE 71	668.00	19.70	0.09	3.69	2.34	0.22	218.273	1.12	Yes
Radio	Tech-Band	Freq-Low [MHz]	Pwr _{dBm}	Power _[W]	Ant-G [dBi]	Ant-G [lin]	EIRP _[W]	EIRP _[mW]	Exemption limit for Routine Evaluation	Exemption (Y/N)
WLAN	11.b	2412.0	15.19	0.033	5.76	3.77	0.124	124.451	2.68	Yes
	11.ac-VHT40 MIMO	5180.0	13.48	0.022	8.97	7.89	0.176	175.873	4.53	Yes
	11.ac-VHT80 MIMO	5745.0	16.17	0.041	8.97	7.89	0.327	326.588	4.86	Yes

5.3 Multiple RF sources

The worst case of simultaneous transmission is

1. LTE Band 71 (A0) + LTE Band 71 (A1) + LTE Band 71 (B0) + LTE Band 71 (B1) :
 $(89.74/1362.72) (A0) + (95.50/1362.72) (A1) + (89.13/1362.72) (B0) + (93.33/1362.72) (B1) = 0.414 \leq 1$

The sum of the fractional contributions to the applicable thresholds is less than or equal to 1, hence the multiple RF sources are exempt

6 Revision History

Date	Report Name	Changes to report	Prepared by
8/15/2023	EMC_NUROI_006_22001_FCC_ISED_RF_Exposure	Initial Version	Art Thammanavarat

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