



# Telecommunications Authority of Trinidad and Tobago

## RADIO-FREQUENCY RADIATION TEST RESULTS

Since its establishment in July 2004, the Telecommunications Authority of Trinidad and Tobago (TATT) has been actively engaged in efforts to determine the strictest possible internationally acceptable limits for radiofrequency radiation from all radiotransmitting equipment, including cell sites, in Trinidad and Tobago and ensure providers of telecommunications services abide by these strict limits.

In the telecommunications sector these limits are referred to as Maximum Permissible Exposure (MPE) limits.

At the start of 2006 TATT outlined the MPE interim limits to be observed in licenses issued to mobile telephone providers in this country.

The MPE interim limit for radiofrequency radiation from cell sites as outlined in the licenses to which the general population in Trinidad and Tobago should be exposed is 0.2 to 1.0 milliwatts per centimetre squared ( $mW/cm^2$ ).

This interim limit was recommended after TATT conducted a comparative analysis of the Federal Communications Commission and the International Commission on Non-Ionizing Radiation Protection limits to determine the final choice of standards to be adopted in Trinidad and Tobago.

Based on the analysis, TATT proposed the adoption of the most restrictive standards to ensure the lowest possible radio emission levels are used in Trinidad and Tobago.

To ensure all providers of mobile telephone service, who are operators

of licenced radiotransmitting equipment, abide by these strict standards, TATT engages in a continuous programme of measuring and recording radiofrequency radiation emissions from cellular towers throughout the country and publishing the results in the newspapers.

The objective of this programme, which began in May 2006, is to continuously monitor the radiation from all cellular sites and provide the results to the public.

Officers of TATT measure the field strength of radiofrequency radiation emissions from the cell towers using special instruments called Radio Frequency Radiation Meters.

The following tables contain radio frequency field strength measurements for general population exposure recorded over the period October 1st, 2016 to June 30th, 2017.

The measurements recorded below are for 200 cellsites and are between six and 42,500 times lower than the interim maximum permissible limit set by TATT.



**A Radio Frequency Radiation Meter used to measure the field strength of radiofrequency radiation emissions**

Service Provider	Site ID	Site Name	Address	Maximum Measured Power Density ( $mW/cm^2$ )
<b>Central Trinidad</b>				
Digicel	T227	Jerningham Junction	Corner of Endeavour and Jerningham Rd. Cunupia	0.00007
Digicel	T243	Balmain	Cameron Street, Balmain, Couva	0.00009
Digicel	T246	Poole Colocation	San Pedro Estate, Naparima Mayaro Road	0.00041
Digicel	T349	Forres Park	Off Claxton Bay Overpass	0.00002
Digicel	T664	Enterprise Rooftop	Rooftop site opposite Palm Drive	0.00024
Digicel	T823	Tcl Micro	Trinidad Cement Limited, Claxton Bay	0.00424
Green Dot	GDCHG01	CHG - Chaguanas	Rodney Branch Rd., Endeavour	0.00009
Green Dot	GDCNP01	CNP - Cunupia	Cunupia	0.00010
Green Dot	GDCRP01	CRP - Carapichaima	#53 Datta Drive, Orangefield Road, Carapichaima	0.00002
Green Dot	GDCSW01	CSW - Cashew Gardens	Lot #1 Edinburgh Road, Longdenville	0.00001
Green Dot	GDCVA01	CVA - Couva	23 Carlos Street, Couva	0.00005
Green Dot	GDEDN01	EDN - Edinburgh	70 Orchid Gardens, Chaguanas	0.00006
Green Dot	GDEDV01	EDV - Endeavour	LP #5e Matna Drive, Endeavour Rd, Chaguanas	0.00003
Green Dot	GDFLC01	FLC - Felicity	Ameer Ali Drive, Greenidge Street	0.00001
Green Dot	GDFPT01	FPT - Freeport	Calcutta Road # 2, Freeport	0.00006
Green Dot	GDLND01	LND - Londonville	Pierre Baccus Street, Longdenville	0.00003
Green Dot	GDLPL01	LPL - La Paille	21 Scarlet Ibis Circular, La Paille Gardens	0.00002
Green Dot	GDPTL01	PTL - Point Lisas	California, Point Lisas, Couva	0.00036
Green Dot	GDWLD01	WLD - Whiteland	193 Corosal, Whiteland	0.00002
TSTT	2795	ChaguanasPrism4	Chaguanas	0.00019
TSTT	2814	California_TTEC	California	0.00054

Service Provider	Site ID	Site Name	Address	Maximum Measured Power Density (mW/cm <sup>2</sup> )
<b>East Trinidad</b>				
Digicel	T600	Hasanali Cow	Little Cora Road	0.00007
Digicel	T661	Sangre Grande Oropouche Colo	LP-78 2½ mm Toco Main Rd., Sangre Grande	0.00009
Green Dot	GDSGR01	SGR - Sangre Grande	Manic Street, Guaico	0.00004
Green Dot	GDVLC01	VLC - Valencia	LP3 Alexander St	0.00017
Green Dot	GDWLF01	WLF - Wallerfield	#86 Ginger Lily Drive, Wallerfield Gardens, Arima	0.00002
<b>Northeast Trinidad</b>				
Digicel	T245	Arouca South	Waterloo Road	0.00003
Digicel	T254	Uwi West Rooftop	Corner of Macenroy and Belle Smythe street	0.00021
Digicel	T332	UWI South RT	LP#84 Watts Street, St. Augustine	0.00022
Digicel	T408	Orange Grove	Ramco Plaza, Churchill Roosevelt Highway	0.00026
Digicel	T422	Piarco Jnt Rt	Rooftop of Bhagwansingh's Hardware	0.00026
Digicel	T535	Valsayn	Corner of Windsor Road and Prince Charles Street	0.00062
Digicel	T545A	ANSA_Polymer	ANSA Polymer, Tumpuna Road	0.00037
Digicel	T625	Cane Farm Rooftop	The Pavillion, next to the Arouca Police Station	0.00218
Digicel	T683	Piarco South Rooftop	Golden Grove Road	0.00041
Digicel	T803	Piarco Airport Micro 1	Microcell in Piarco Airport	0.00049
Digicel	T804	Piarco Airport Micro 2	Microcell in Piarco Airport	0.00454
Digicel	T808	Valpark Micro	Microcell within Valpark	0.00223
Digicel	T811	Center Of Excellence Macoya Micro	Microcell within Centre Of Excellence Macoya	0.00065
Digicel	T814	Trincity Mall Micro	Microcell in Trincity Mall	0.00112
Digicel	T827	Piarco Airport Micro 3	Microcell in Piarco Airport	0.00507
Digicel	T850	Trincity Mall Store	Microcell within the Digicel Store at Trincity Mall	0.03454
Green Dot	GDARM01	ARM - Arima	11 Calvary Hill	0.00002
TSTT	2019	WASA	St. Joseph	0.00104
TSTT	2035	Pasea_A	LP# E7015418 Priority Bus Route	0.00091
TSTT	2036	D'Abadie_A	LP# E7023391 Opp Arouca Evangelical Church	0.00007
TSTT	2037	D'Abadie_B	LP# E7005888 West of Piarco Old Road	0.00020
TSTT	2038	Redhill_A	LP# E7003847 Priority Bus Route	0.00014
TSTT	2039	Cleaver Woods_A	LP# E7003111 Between Fairview and John Lane PBR	0.00005
TSTT	2040	Cleaver Woods_B	LP# E7002467 Priority Bus Route	0.00006
TSTT	2042	UWI_Stag_Heartease	LP# E7014966 St. Circular St. Augustine	0.00006
TSTT	2043	UWI_Stag_Southgate	LP# E7014075 Watts Street and College Road St.	0.00095
TSTT	2046	Austin St_P	LP # E7015461 Austin Street St. St. Augustine	0.00003
TSTT	2116	RBL_Trincity	13&15 Sunrise Corporate Park Trincity Central Rd	0.00161
<b>Northwest Trinidad</b>				
Digicel	T019C	CARIBBEAN_RADIATOR	Lots 2A & 2B, Estate Trace, Barataria	0.00024
Digicel	T040	Soca Cow	Hasley Crawford Stadium , POS	0.00021
Digicel	T043	Ana Street Rooftop	75 Ana Street, Woodbrook	0.00009
Digicel	T095	Lady Young Rooftop	Rooftop site off Lady Young Road	0.00002
Digicel	T123	Grand Stand	Grand Stand, Queens Park Savannah, Port of Spain	0.00111
Digicel	T433	Fillette	Peak of Fillete point	0.00003
Digicel	T479	Hyatt	Hyatt Regency Hotel, Wrightson Road, Port Of Spain	0.00049
Digicel	T486	Lady Young North Rooftop	Rooftop of Bridgeman's Auto Center	0.00002
Digicel	T487	Beetham Rt	GMR (Global Medical)	0.00116
Digicel	T489	One Woodbrook Place	Damian Street, Woodbrook, Port of Spain	0.00009
Digicel	T494	Peaks Boat Yard	Peaks Boat Yard, Chaguaramas	0.00028
Digicel	T652	Living Waters Rt	Rooftop of Living Waters building	0.00048
Digicel	T668	Champ Fleurs Rt	Second building after Mendez Drive, Champs Fleurs	0.00086
Digicel	T806	Cascadia Hotel Micro	Microcell within Cascadia Hotel	0.00021
Digicel	T809	Digicel Ansa Office Micro	Digicel Head Office, Ansa Centre, 11C Maraval Road	0.00284
Digicel	T812	West Mall Micro	Microcell within West Mall	0.00164
Digicel	T813	Long Circular Mall Micro	Microcell in Long Circular Mall	0.00670
Digicel	T817	Bp Building Micro	Microcell in BP building	0.00608
Digicel	T818	Excellent City Centre Micro	Excellent City Center Mall Independence Square	0.00571

Service Provider	Site ID	Site Name	Address	Maximum Measured Power Density (mW/cm <sup>2</sup> )
<b>Northwest Trinidad Continued</b>				
Digicel	T836	Oval Box	Digicel Corporate Box at the Queen's Park Oval	0.01415
Digicel	T837	OWP Basement	Basement car park of One Woodbrook Place	0.00126
Digicel	T851	West Mall Micro	Microcell within the Digicel Store at West Mall	0.03208
Green Dot	GDAGZ01	AGZ - Aranguez	LP 53 Rambhaju Trace, Aranguez, San Juan	0.00002
Green Dot	GDBTA01	BTA - Barataria	#6 Sixth Avenue, Malick	0.00002
Green Dot	GDCAS01	CAS - Cascade	Mt Hololo Hill	0.00018
Green Dot	GDCFL01	CFL - Champs Fleur	D58 Upper Palm Dr.	0.00007
Green Dot	GDFTG01	FTG - Ft George Trinidad	Fort George Road	0.01541
Green Dot	GDLPM01	LPM - Lower Paramin	LP 64 Saut D'eau Rd.	0.00001
Green Dot	GDLYN01	LYN - Lady Young	Lady Young Road, Morvant	0.00002
Green Dot	GDMRC01	MRC - Maracas	4 mm Maracas Rd.	0.00025
Green Dot	GDNPT01	NPT - North Post	North Post Road, Diego Martin	0.00004
Green Dot	GDSCZ01	SCZ - Santa Cruz	#7 Jorobo Drive, Upper Santa Cruz	0.00024
Green Dot	GDUPM01	UPM - Upper Paramin	104 Saut D'eau Rd.	0.03156
TSTT	2013	ASBryden_B	Barataria	0.00090
TSTT	2020	Chaguaramas_Golf_Course	Chaguaramas Golf Course	0.00003
TSTT	2021	Tucker_Valley	Tucker Valley, Chaguaramas	0.00004
TSTT	2022	Army_Base_Tucker_Valley	Army Base, Tucker Valley, Chaguaramas	0.00036
TSTT	2024	Maqueripe_Bay	Macqueripe	0.00003
TSTT	2025	TSL_Woodford_Street	Woodford Street, Port of Spain	0.00348
TSTT	2027	LCR_Poui_Hill_Road	Lady Chancellor	0.00023
TSTT	2032	Morvant Junction_A	N1006400 West of Morvant Priority Bus Route	0.00016
TSTT	2033	Petit Bourg_A	Petit Bourg	0.00025
TSTT	2034	Petit Bourg_B	LP# 126 Off Fletcher Street Priority Bus Route	0.00013
TSTT	2045	MassyPole_P	Pole# N1026803 Western Main Rd Cocorite	0.00012
TSTT	2067	Angostura e-cell_B	Angostura Compound, Laventille	0.00041
TSTT	2101	Cotton Hill	Ellerslie	0.00003
TSTT	2102	Aquaview_Terrace_P	Carenage	0.00022
TSTT	2111	RBC_BG	POS	0.00239
TSTT	2114	O2 Park 1	O2 Park, Chaguaramas	0.00025
TSTT	2115	O2 Park 2	O2 Park, Chaguaramas	0.00014
TSTT	2117	Pier1	Pier 1, Chaguaramas	0.00003
TSTT	2118	Pier2	Pier 1, Chaguaramas	0.00003
TSTT	2242	JSAC_El_Socorro_COW	El Socorro	0.00005
TSTT	2388	LYR_ION-M_N1	Lady Young Road, Morvant	0.00230
TSTT	2388	LYR_ION-M_N2	Lady Young Road, Morvant	0.00004
TSTT	2388	LYR_ION-M_N3	Lady Young Road, Morvant	0.00019
TSTT	2388	LYR_ION-M_N4	Lady Young Road, Morvant	0.00041
TSTT	2388	LYR_ION-M_N5	Lady Young Road, Morvant	0.00012
TSTT	2388	LYR_RRU_Pole_1	Lady Young Road, Morvant	0.00055
TSTT	2388	LYR_RRU_Pole_2	Lady Young Road, Morvant	0.00004
TSTT	2388	LYR_RRU_Pole_3	Lady Young Road, Morvant	0.00059
TSTT	2388	LYR_RRU_Pole_4	Lady Young Road, Morvant	0.00033
TSTT	2445	LCR_OWP_ION_N1	Lady Chancellor Road, Port of Spain	0.00004
TSTT	2445	LCR_OWP_ION_N2	Lady Chancellor Road, Port of Spain	0.00007
TSTT	2445	LCR_OWP_ION_N3	Lady Chancellor Road, Port of Spain	0.00044
TSTT	2445	LCR_OWP_ION_N4	Lady Chancellor Road, Port of Spain	0.00003
TSTT	2445	LCR_OWP_ION_N6	Lady Chancellor Road, Port of Spain	0.00017
TSTT	2445	LCR_OWP_ION_N7	Lady Chancellor Road, Port of Spain	0.00005
TSTT	2445	LCR_OWP_ION_P1	Lady Chancellor Road, Port of Spain	0.00017
TSTT	2445	LCR_OWP_ION_P2	Lady Chancellor Road, Port of Spain	0.00028
TSTT	2446	NTS	POS	0.00048

Service Provider	Site ID	Site Name	Address	Maximum Measured Power Density (mW/cm <sup>2</sup> )
<b>Northwest Trinidad Continued</b>				
TSTT	2447	CNMG	POS	0.00012
TSTT	2452	FinancialComplex	POS	0.00021
TSTT	2459	Queens_Park_Grand_Stand	Queen's Park Savannah, Port-of-Spain	0.00034
TSTT	TND3159	Boundry Rd	76 Boundary Road, San Juan	0.00014
TSTT	TND3185	Barataria	Estate Trace, Barataria	0.00024
TSTT	TND3225	Fire Services	Sackville Street, POS	0.01638
TSTT	TND3339	Chacachacare	Lighthouse, Chacachacare	0.00001
<b>South Trinidad</b>				
Digicel	T099	Barrackpore Central	Mohess Cemetery Road, Boodoo Branch Trace #3, Barrackpore	0.00013
Digicel	T102	Princess Town North	Corner of Unity Ave.	0.00004
Digicel	T109	Mosquito Creek	Church Street, La Romaine	0.00007
Digicel	T311	Basse Terre South Colo	Moruga Composite School	0.00003
Digicel	T312	Syne Village Colo	Syne Trace next to LP298	0.00008
Digicel	T365	Mt Stewart Colo	Mount Stewart	0.00029
Digicel	T368	Siparia Rooftop	Corner of High Street and Daisy Voisin Street Siparia.	0.00013
Digicel	T490	Sm Jaleel Cow	S.M. Jaleel & Company Limited, Otaheite Industrial Estate	0.00012
Digicel	T567	Morne Diablo	Snail Trace	0.00006
Digicel	T687	Gasparillo Rt	Royal Castle building	0.00015
Digicel	T815	Gulf City Mall Micro 1	Microcell within Gulf City Mall	0.00204
Digicel	T822	Gulf City Mall Micro 2	Microcell at Gulf City Mall Trinidad.	0.00935
Digicel	T835	Atlantic Micro	Microcell at Atlantic LNG in Point Fortin	0.00156
Digicel	T954	Point Fortin Cow	Site is in the Point Fortin RC Church	0.00012
Green Dot	GDDEB01	DEB - Debe	Debe	0.00025
Green Dot	GDGLC01	GLC - Golconda	#34 Golconda Village, Golconda	0.00010
Green Dot	GDLAB01	LAB - La Brea	Marshell Street, La Brea	0.00086
Green Dot	GDLLB01	LLB - La Brea New	944 Three Hands, Main Road	0.00008
Green Dot	GDPEN01	PEN - Penal	Penal	0.00006
Green Dot	GDPP01	PPO - Piparo	196 Piparo Main Road	0.00001
Green Dot	GDPTN01	PTN - Princes Town	#3 King Street, Princes Town	0.00011
Green Dot	GDRIO01	RIO - Rio Claro	829 Libertville, Naparima Mayaro Road	0.00034
Green Dot	GDSFM01	SFM - San Fernando Main	Alexander Road, San Fernando	0.00012
Green Dot	GDSPR01	SPR - Siparia New	#15A Mary Street, Siparia	0.00088
Green Dot	GDTRB01	TRB - Tarouba	Tarouba	0.00002
Green Dot	GDWLM01	WLM - Williamsville	28 Corial Road, LP14	0.00021
TSTT	2016	Petrotrin ICT	Petrotrin IT Department, Pointe-a-Pierre	0.00020
TSTT	2017	Augustus_Long_Hospital	Pointe-a-Pierre	0.01161
TSTT	2018	Goodman_Trace	Barrackpore/Penal	0.00082
TSTT	2236	BarrackporeEastCOW	Barrackpore	0.00003
TSTT	2237	KhanhaiRoadCOW	Barrackpore	0.00001
TSTT	2238	Golconda_COW	OAS Camp Site#1, Golconda	0.00062
TSTT	2797	Dennis_Nanan_Building	62 Lady Hailes Avenue S'Fdo	0.00014
TSTT	2807	Barrackpore_Junction	Barrackpore	0.00007
TSTT	2807	Barrackpore_Junction	Barrackpore	0.00011
TSTT	TND4068	Debe 2	Samar Entertainment Center, SS-Erin Main Road, Debe	0.00009
TSTT	TND4076	Marabella 2	Plaisance Estate, Pointe-a-Pierre	0.00002
<b>Tobago</b>				
Digicel	T712	Shaw Park	Shaw Park Work Centre, Tobago	0.00006
Digicel	T740	Sandy Point Rooftop	James Place	0.00042
Digicel	T747	Scarborough Rooftop	Rooftop site opposite port	0.04280
Digicel	T805	Grafton Beach Hotel	Microcell within Grafton Beach Hotel	0.00639
Digicel	T807	Crown Point Micro	Crown Point Airport	0.06601
Digicel	T810	Le Grand Courlan	Microcell within Le Grand Courlan Hotel	0.00239
Digicel	T816	Gulf City Tobago Micro	Microcell installation at Gulf City Mall Tobago.	0.02176

Service Provider	Site ID	Site Name	Address	Maximum Measured Power Density (mW/cm <sup>2</sup> )
<b>Tobago Continued</b>				
TSTT	2119	LowLands_Gulf City_e-cell	LowLands Gulf City Mall e-cell	0.01180
TSTT	2913	Ply_Scar_ION_RRU1	Plymouth Scarborough Road	0.00005
TSTT	2913	Ply_Scar_ION_RRU2	Plymouth Scarborough Road	0.00002
TSTT	2913	Ply_Scar_ION_RRU3	Plymouth Scarborough Road	0.00005
TSTT	2913	Ply_Scar_ION_RRU4	Plymouth Scarborough Road	0.00002
TSTT	2913	Ply_Scar_ION_RRU5	Plymouth Scarborough Road	0.00002
TSTT	2933	Bacolet_Gardens_ION	Bacolet Street, Tobago	0.00003
TSTT	2933	Bacolet_Gardens_ION_N2	Bacolet Street, Tobago	0.00023
TSTT	2933	Bacolet_Gardens_ION_N3	Bacolet Street, Tobago	0.00280
TSTT	2934	Plymouth_Mt Irvine_ION_N2	Plymouth Mt. Irvine Road	0.00002
TSTT	2934	Plymouth_Mt Irvine_ION_N3	Plymouth Mt. Irvine Road	0.00020
TSTT	2940	ScarboroughPort_P	Scarborough Port	0.00038
TSTT	2941	CalderHall_Junction_P	Calder Hall Junction	0.00037
TSTT	2942	FtGeorge_P_	Ft. George	0.00309
TSTT	2944	FtGranby_P	Ft. Granby	0.00014
TSTT	2944	FtGranby_P	Ft. Granby	0.00001
TSTT	2944	FtGranby_P	Ft. Granby	0.00022
TSTT	2944	FtGranby_P	Ft. Granby	0.00011
TSTT	2947	Ply_Scar_ION_RRU10	Plymouth Scarborough Road	0.00005
TSTT	2947	Ply_Scar_ION_RRU6	Plymouth Scarborough Road	0.00004
TSTT	2947	Ply_Scar_ION_RRU7	Plymouth Scarborough Road	0.00005
TSTT	2947	Ply_Scar_ION_RRU8	Plymouth Scarborough Road	0.00006
TSTT	2947	Ply_Scar_ION_RRU9	Plymouth Scarborough Road	0.00003
TSTT	2615	Mt Irvine Beach Roadside	Mt Irvine Beach Roadside	0.00002



26<sup>th</sup> ICT OPEN FORUM

# Renewable Energy:

## Powering Future

**Telecommunications and Broadcasting Services**

Thursday  
**JULY 20th 2017**  
**3:00PM - 6:00PM**

TATT's Office  
 #5 Eighth Avenue Extension,  
 off Twelfth Street, Barataria.

**Free  
 Event**

Presentations will be delivered by representatives of

- The Ministry of Energy and Energy Industries
- Energy Dynamics Limited
- The Energy Chamber of Trinidad and Tobago and
- TATT

 **Register Now!**

Persons wishing to attend this Forum must register on or before **noon on Monday 17th July 2017** by contacting Mr. Rawle Harvey via e-mail at [openforum@tatt.org.tt](mailto:openforum@tatt.org.tt) or telephone at 675-8288 Ext. 349.

**Limited Seats Available**

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