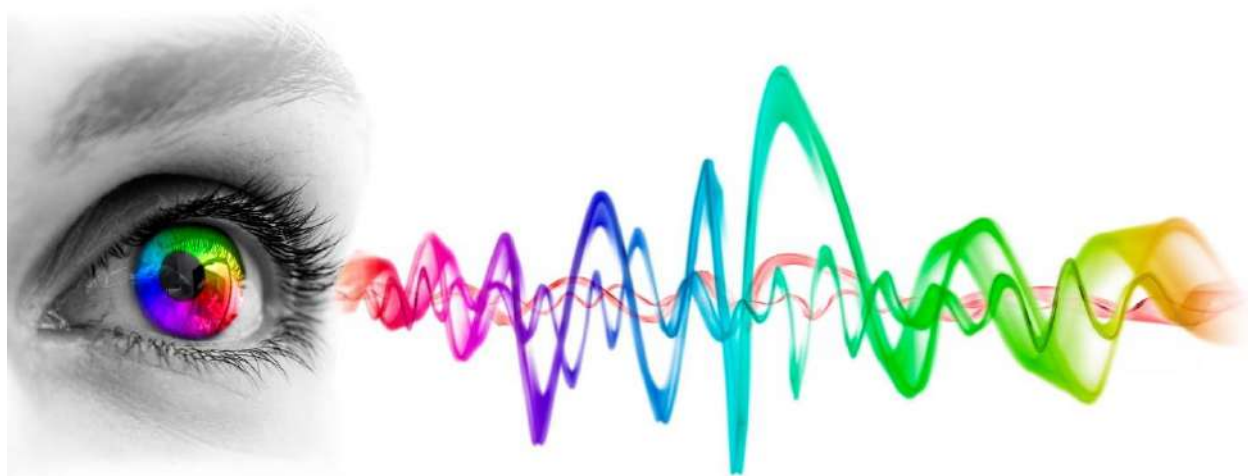


**FINAL REPORT: LSSA/SC/2019/2**  
**MEASUREMENT OF NON-IONIZING RADIATION**  
**FOR 2G/3G/4G NETWORKS FOR DEPARTMENT OF**  
**INFORMATION COMMUNICATIONS TECHNOLOGY**  
**(DICT) - SEYCHELLES**

**Presented to** Mr Benjamin Choppy  
Principal Secretary  
Department of Information Communications  
Technology (DICT)



**29 January 2020**

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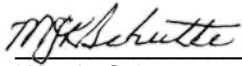
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Dear Mr Choppy

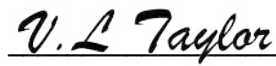
It is our pleasure to present you with the final report detailing our findings for the measurement of non-ionizing radiation (EMF) at 25 identified locations within Seychelles, Praslin and La Digue.

We trust that our findings will meet with your approval.

Yours sincerely,



Koenie Schutte  
Chief Executive Officer  
LS of South Africa Radio Communication (Pty) Ltd.



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# Table of Contents

<b>GLOSSARY OF TERMS</b> .....	<b>8</b>
<b>1 EXECUTIVE SUMMARY</b> .....	<b>9</b>
<b>2 OBJECTIVE</b> .....	<b>10</b>
2.1 SHORTLISTING OF THE SITES/LOCATIONS TO BE MEASURED .....	10
2.2 PRE-QUALIFICATION INFORMATION FOR THE MEASUREMENT OF THE IDENTIFIED SITES/LOCATIONS.....	10
<b>3 DESCRIPTION OF MEASUREMENT POINTS (MPS)</b> .....	<b>11</b>
<b>4 MEASUREMENT PROTOCOL</b> .....	<b>30</b>
4.1 BACKGROUND.....	30
4.2 MEASUREMENT QUANTITIES FOR RF FIELDS .....	30
4.3 MEASUREMENT EQUIPMENT AND PROCEDURE.....	30
4.3.1 <i>Measurement methodologies</i> .....	31
4.4 CALCULATION OF MINIMAL AND MAXIMAL EXPOSURE.....	32
4.5 MEASUREMENT UNCERTAINTY.....	33
<b>5 RESULTS</b> .....	<b>34</b>
5.1 GOOGLE EARTH IMAGES PER MEASUREMENT REGION.....	36
5.1.1 <i>Region One</i> .....	36
5.1.2 <i>Region Two</i> .....	37
5.1.3 <i>Region Three</i> .....	38
5.1.4 <i>Region Four</i> .....	39
5.1.5 <i>Region Five</i> .....	40
5.1.6 <i>Region Six</i> .....	41
5.1.7 <i>Region Eight</i> .....	42
5.1.8 <i>Region Ten</i> .....	43
5.1.8.1 Praslin.....	43
5.1.8.2 La Digue.....	44
<b>6 APPENDICES</b> .....	<b>45</b>
<b>6.1 APPENDIX A1 - IDENTIFICATION OF THE MEASUREMENT POINTS (PER THE WEBGIS PORTAL) AND PHOTOS OF THE MEASUREMENT POINT LOCATIONS</b> .....	<b>46</b>
6.1.1 <i>Machabee Hill (CWS)</i> .....	47
6.1.2 <i>Carana Hill (CWS)</i> .....	49
6.1.3 <i>North East Point (Airtel)</i> .....	50
6.1.4 <i>Villa Fond de Lianes</i> .....	52
6.1.5 <i>Bel Ombre (Airtel)</i> .....	54
6.1.6 <i>Bel Ombre (Dan Zil) (CWS)</i> .....	56
6.1.7 <i>Sorento (Airtel)</i> .....	59
6.1.8 <i>La Batie (Airtel)</i> .....	62
6.1.9 <i>Perseverance (Airtel)</i> .....	65
6.1.10 <i>Espace building (Airtel)</i> .....	67
6.1.11 <i>Ma Constance (Airtel)</i> .....	70
6.1.12 <i>Mt. Buxton (Airtel)</i> .....	72
6.1.13 <i>SACOS Tower (CWS)</i> .....	75
6.1.14 <i>Stad Popiler and Central Bank Building (Airtel/CWS)</i> .....	78
6.1.15 <i>Dr. Chetty's Rooms (Airtel)</i> .....	83

6.1.16	<i>Seychelles Main Hospital (CWS) and SBC Hermitage (Airtel)</i> .....	87
6.1.17	<i>Plaisance (Airtel)</i> .....	92
6.1.18	<i>Copolia (Airtel)</i> .....	94
6.1.19	<i>Roche Caiman (CWS/Airtel)</i> .....	99
6.1.20	<i>Sunshine House (CWS)</i> .....	102
6.1.21	<i>Seychelles International Airport (CWS/Airtel)</i> .....	105
6.1.22	<i>Port Launay (Airtel)</i> .....	110
6.1.23	<i>Grand Anse (Praslin – CWS/Airtel)</i> .....	112
6.1.24	<i>Pt. Cabris (Praslin – CWS/Airtel)</i> .....	116
6.1.25	<i>Anse Reunion (La Digue – CWS/Airtel)</i> .....	119
<b>6.2</b>	<b>APPENDIX A2 – RESULT TABLES</b> .....	<b>122</b>
6.2.1	<i>Machabee Hill (CWS)</i> .....	123
6.2.2	<i>Carana Hill (CWS)</i> .....	125
6.2.3	<i>North East Point (Airtel)</i> .....	126
6.2.4	<i>Villa Fond de Lianes (Airtel)</i> .....	128
6.2.5	<i>Bel Ombre</i> .....	130
6.2.6	<i>Bel Ombre (Dan Zil) (CWS)</i> .....	132
6.2.7	<i>Sorento (Airtel)</i> .....	134
6.2.8	<i>La Batie (Airtel)</i> .....	138
6.2.9	<i>Perserverance (Airtel)</i> .....	140
6.2.10	<i>Espace building (Airtel)</i> .....	142
6.2.11	<i>Ma Constance (Airtel)</i> .....	148
6.2.12	<i>Mt. Buxton (Airtel)</i> .....	150
6.2.13	<i>SACOS Tower (CWS)</i> .....	154
6.2.14	<i>Stad Popiler and Central Bank Building (Airtel/CWS)</i> .....	158
6.2.15	<i>Dr Chetty’s Rooms</i> .....	164
6.2.16	<i>Seychelles Main Hospital (CWS) and SBC Hermitage (Airtel)</i> .....	169
6.2.17	<i>Plaisance (Airtel)</i> .....	173
6.2.18	<i>Copolia (Airtel)</i> .....	175
6.2.19	<i>Roche Caiman (CWS/Airtel)</i> .....	178
6.2.20	<i>Sunshine House (CWS)</i> .....	183
6.2.21	<i>Seychelles International Airport (CWS/Airtel)</i> .....	185
6.2.22	<i>Port Launay (Airtel)</i> .....	191
6.2.23	<i>Grand Anse – Praslin (CWS/Airtel)</i> .....	193
6.2.24	<i>Pt. Cabris – Praslin (CWS/Airtel)</i> .....	197
6.2.25	<i>Anse Reunion – La Digue (CWS/Airtel)</i> .....	201
<b>6.3</b>	<b>APPENDIX A3 – EXPLANATION OF THE EXPOSURE LIMITS</b> .....	<b>203</b>
<b>6.4</b>	<b>APPENDIX A4 – DESKTOP STUDIES</b> .....	<b>205</b>
6.4.1	<i>Mitigation studies for Mont Buxton</i> .....	205
6.4.2	<i>Predicted increases in EM levels with the addition of a new operator</i> .....	207
<b>6.5</b>	<b>APPENDIX A5 – LIST OF TOWER SITES</b> .....	<b>210</b>
<b>7</b>	<b>REFERENCES</b> .....	<b>214</b>



# Tables

TABLE 1 - APPLICABLE INFORMATION PER EACH MOBILE TELEPHONY SERVICE IDENTIFIED THROUGH PRE-QUALIFICATION .....	10
TABLE 2 – MEASUREMENT POINT (MP) LOCATIONS AS IDENTIFIED PER REGION IN THE SEYCHELLES .....	28
TABLE 3 - MEASUREMENT EQUIPMENT USED .....	30
TABLE 4 - APPLICABLE NARROW-BAND ANALYSER SETUP INFORMATION.....	31
TABLE 5 – COLOUR-CODES PER HIGHEST EMF VALUES .....	34
TABLE 6 – HIGHEST EMF EXPOSURE RESULTS (ELECTRIC FIELD STRENGTH IN % OF THE ICNIRP 98 REFERENCE LEVEL .....	35
TABLE 7 - REFERENCE LEVELS FOR GENERAL PUBLIC EXPOSURE IN THE FREQUENCY RANGE RELEVANT TO GSM AND UMTS BASE STATIONS [ICNIPR 98]. .....	203
TABLE 8 - ICNIRP 98 REFERENCE LEVELS FOR THE MOBILE PHONE BASE STATION FREQUENCY BANDS.....	204
TABLE 9 – COMPARATIVE RESULTS FOR THE PREDICTED INCREASE IN EXPOSURE LEVELS WITH THE ADDITION OF A NEW OPERATOR..	209

# FIGURES

FIGURE 1 - MACHABEE HILL: MEASUREMENT POINTS (WEBGIS) .....	47
FIGURE 2 - MACHABEE HILL: AS IDENTIFIED FROM MP1 AND MP2 LOCATIONS.....	48
FIGURE 3 - MACHABEE HILL: MP2 LOCATION (ADJACENT PROPERTY) .....	48
FIGURE 4 - CARANA HILL: MEASUREMENT POINT (WEBGIS) .....	49
FIGURE 5 - CARANA HILL: MP1 LOCATION .....	49
FIGURE 6 – NORTH EAST POINT: MEASUREMENT POINTS (WEBGIS) .....	50
FIGURE 7 – NORTH EAST POINT: AT MP1 LOCATION .....	50
FIGURE 8 – NORTH EAST POINT: AT MP2 LOCATION .....	51
FIGURE 9 – VILLA FOND DE LIANES: MEASUREMENT POINTS (WEBGIS) .....	52
FIGURE 10 – VILLA FOND DE LIANES: MP1 LOCATION.....	52
FIGURE 11 – VILLA FOND DE LIANES: MP2 LOCATION (BEHIND BASE STATION) .....	53
FIGURE 12 - BEL OMBRE: MEASUREMENT POINTS (WEBGIS) .....	54
FIGURE 13 – BEL OMBRE – MP2 LOCATION (LE MÉRIDIDIEN FISHERMAN'S COVE).....	55
FIGURE 14 - BEL OMBRE (DZ): MEASUREMENT POINTS (WEBGIS) .....	56
FIGURE 15 – BEL OMBRE (DZ): MP1 LOCATION .....	57
FIGURE 16 - BEL OMBRE (DZ): MP2 LOCATION.....	58
FIGURE 17 – SORENTO: MEASUREMENT POINTS (WEBGIS).....	59
FIGURE 18 – SORENTO: VIEW OF BASE STATION.....	59
FIGURE 19 - SORENTO: MP1 LOCATION (TOP FLOOR) .....	60
FIGURE 20 - SORENTO: MP2 LOCATION (LOWER LEVEL) .....	60
FIGURE 21 – SORENTO: MP3 LOCATION (SUB-BASEMENT).....	61
FIGURE 22 – SORENTO: MP4 LOCATION (GROUND LEVEL) .....	61
FIGURE 23 - LA BATIE: MEASUREMENT POINTS (WEBGIS) .....	62
FIGURE 24 - LA BATIE: VIEW OF BASE STATION FROM MP1 .....	63
FIGURE 25 - LA BATIE: MP1 LOCATION .....	63
FIGURE 26 - LA BATIE: MP2 LOCATION .....	64
FIGURE 27 - PERSEVERANCE: MEASUREMENT POINTS (WEBGIS) .....	65
FIGURE 28 - PERSEVERANCE: MP1 LOCATION.....	65
FIGURE 29 - PERSEVERANCE: VIEWED FROM MP2 LOCATION.....	66
FIGURE 30 - ESPACE BUILDING: MEASUREMENT POINTS (WEBGIS).....	67
FIGURE 31 - ESPACE: SECTOR ANTENNA VIEWED FROM ES2/MP1 AND ES1/MP3 RESPECTIVELY.....	67
FIGURE 32 - ESPACE: SECTOR ANTENNA AS SEEN FROM ES1/MP1 AND ES1/MP2 RESPECTIVELY.....	68
FIGURE 33 - ESPACE: ES1/MP3 LOCATION.....	68
FIGURE 34 – ESPACE: ES3/MP1 LOCATION. ....	69

FIGURE 35 – ESPACE: ES1/MP4 LOCATION .....	69
FIGURE 36 - MA CONSTANCE: MEASUREMENT POINTS (WEBGIS) .....	70
FIGURE 37 - MA CONSTANCE: BASE STATION INFRASTRUCTURE .....	70
FIGURE 38 - MA CONSTANCE: AS SEEN FROM MP1/MP2 .....	71
FIGURE 39 - MA CONSTANCE: AT MP1 LOCATION.....	71
FIGURE 40 - MT. BUXTON: MEASUREMENT POINTS (WEBGIS) .....	72
FIGURE 41 - MT. BUXTON: PROXIMITY OF BASE STATION TO MP1 .....	72
FIGURE 42 - MT. BUXTON: BASE STATION INFRASTRUCTURE AT MP1 .....	73
FIGURE 43 - MT. BUXTON: PROXIMITY TO BASE STATION AT MP2 (LOUNGE WINDOW).....	73
FIGURE 44 - MT. BUXTON: MP3 LOCATION (BEDROOM) .....	74
FIGURE 45 - MT. BUXTON: MP4 LOCATION (INSIDE LOFT) .....	74
FIGURE 46 - SACOS TOWER: MEASUREMENT POINTS (WEBGIS) .....	75
FIGURE 47 - SACOS: MP4 LOCATION.....	75
FIGURE 48 - SACOS TOWER: BASE STATION VIEW FROM MP2-MP4 .....	76
FIGURE 49 - SACOS: MP2/MP3 LOCATIONS .....	77
FIGURE 50 - STAD POPILER TERRAIN: MEASUREMENT POINTS (WEBGIS) .....	78
FIGURE 51 - CBS BUILDING: MEASUREMENT POINTS (WEBGIS) .....	78
FIGURE 52 - CBS (CWS): BASE STATION IDENTIFICATION .....	79
FIGURE 53 - STAD POPILER (AIRTEL): MP1 LOCATION.....	80
FIGURE 54 - CBS (CWS): MP2 LOCATION .....	80
FIGURE 55 - CBS (CWS): MP3 LOCATION .....	81
FIGURE 56 - CBS (AIRTEL): MP4/MP5 LOCATIONS .....	81
FIGURE 57 – STAD POPILER: MP6 LOCATION .....	82
FIGURE 58 – DR. CHETTY’S ROOMS: MEASUREMENT POINTS (WEBGIS) .....	83
FIGURE 59 – DR CHETTY: IDENTIFICATION OF BASE STATION .....	83
FIGURE 60 – DR CHETTY: MP1 LOCATION (AT PRE-SCHOOL/CRÈCHE –ON BALCONY).....	84
FIGURE 61 – DR. CHETTY: MP2 LOCATION (AT PRE-SCHOOL – INSIDE CLASSROOM) .....	84
FIGURE 62 – DR. CHETTY: MP3 LOCATION (OUTSIDE PRE-SCHOOL) .....	85
FIGURE 63 – DR. CHETTY: MP4 LOCATION (BELOW BASE STATION) .....	85
FIGURE 64 - DR. CHETTY: MP5 LOCATION .....	86
FIGURE 65 - SEYCHELLES MAIN HOSPITAL: MEASUREMENT POINTS (WEBGIS) .....	87
FIGURE 66 – SEYCHELLES MAIN HOSPITAL: IDENTIFICATION OF BASE STATION .....	87
FIGURE 67 – SEYCHELLES MAIN HOSPITAL: MP1 LOCATION .....	88
FIGURE 68 – SEYCHELLES MAIN HOSPITAL: MP2 LOCATION .....	88
FIGURE 69 – SEYCHELLES MAIN HOSPITAL: HERMITAGE (SBC) BASE STATION LOCATION .....	89
FIGURE 70 – SEYCHELLES MAIN HOSPITAL: MP3 LOCATION .....	90
FIGURE 71 - SBC HERMITAGE MEASUREMENT POINT (WEBGIS) .....	90
FIGURE 72 – HERMITAGE (SBC): IDENTIFICATION OF BASE STATION .....	91
FIGURE 73 – HERMITAGE (SBC): MP1 LOCATION .....	91
FIGURE 74 - PLAISANCE MEASUREMENT POINTS (WEBGIS) .....	92
FIGURE 75 – PLAISANCE: MP1 LOCATION.....	92
FIGURE 76 – PLAISANCE: IDENTIFICATION OF BASE STATION.....	93
FIGURE 77 – PLAISANCE: AT MP2 LOCATION.....	93
FIGURE 78 – COPOLIA: MEASUREMENT POINTS (WEBGIS) .....	94
FIGURE 79 – COPOLIA: MP1 LOCATION.....	95
FIGURE 80 – COPOLIA: IDENTIFICATION OF BASE STATION.....	96
FIGURE 81 – COPOLIA: MP2 LOCATION.....	97
FIGURE 82 – COPOLIA: MP3 LOCATION.....	98
FIGURE 83 – ROCHE CAIMAN (RC1): MEASUREMENT POINTS (WEBGIS).....	99

FIGURE 84 – ROCHE CAIMAN (RC2): MEASUREMENT POINTS (WEBGIS).....	99
FIGURE 85 – ROCHE CAIMAN (RC1): MP1 LOCATION .....	100
FIGURE 86 – ROCHE CAIMAN (RC1): MP2 LOCATION .....	100
FIGURE 87 – ROCHE CAIMAN (RC2): MP1 LOCATION (NEXT TO PUC).....	101
FIGURE 88 – ROCHE CAIMAN (RC2): MP2 LOCATION .....	101
FIGURE 89 – SUNSHINE HOUSE: MEASUREMENT POINTS (WEBGIS).....	102
FIGURE 90 – SUNSHINE HOUSE: MP1 LOCATION .....	102
FIGURE 91 – SUNSHINE HOUSE: IDENTIFICATION OF BASE STATION AT MP1 .....	103
FIGURE 92 – SUNSHINE HOUSE: IDENTIFICATION OF BASE STATION AT MP2 .....	103
FIGURE 93 – SUNSHINE HOUSE: MP2 LOCATION .....	104
FIGURE 94 – SEYCHELLES INT. AIRPORT (MAIN TERMINAL): MEASUREMENT POINTS (WEBGIS) .....	105
FIGURE 95 – SEYCHELLES INT. AIRPORT: MP1 LOCATION.....	105
FIGURE 96 – SEYCHELLES INT. AIRPORT: MP2 LOCATION.....	106
FIGURE 97 – SEYCHELLES INT. AIRPORT: IDENTIFICATION OF BASE STATION.....	106
FIGURE 98 – SEYCHELLES INT. AIRPORT: MP3 LOCATION.....	107
FIGURE 99 – SEYCHELLES INT. AIRPORT: MP4 LOCATION.....	107
FIGURE 100 – SEYCHELLES INT. AIRPORT (DOMESTIC TERMINAL): MEASUREMENT POINTS (WEBGIS) .....	108
FIGURE 101 – SEYCHELLES INT. AIRPORT: MP1 LOCATION.....	108
FIGURE 102 – SEYCHELLES INT. AIRPORT: MP2 LOCATION.....	109
FIGURE 103 – PORT LAUNAY: MEASUREMENT POINTS (WEBGIS).....	110
FIGURE 104 – PORT LAUNAY: AT MP1 LOCATION .....	110
FIGURE 105 – PORT LAUNAY: IDENTIFICATION OF BASE STATION .....	111
FIGURE 106 – PORT LAUNAY: MP2 LOCATION .....	111
FIGURE 107 – GRAND ANSE: MEASUREMENT POINTS (WEBGIS).....	112
FIGURE 108 – GRAND ANSE: MP1 LOCATION (AIRTEL).....	113
FIGURE 109 – GRAND ANSE: MP2 LOCATION (CWS).....	113
FIGURE 110 – GRAND ANSE: MP3 LOCATION (AIRTEL).....	114
FIGURE 111 – GRAND ANSE: IDENTIFICATION OF BASE STATION (AIRTEL).....	114
FIGURE 112 – GRAND ANSE: BASE STATION (AIRTEL) ADJACENT TO MP4 LOCATION.....	115
FIGURE 113 – GRAND ANSE: MP4 LOCATION .....	115
FIGURE 114 – PORT CABRIS: MEASUREMENT POINTS (WEBGIS).....	116
FIGURE 115 – PORT CABRIS: IDENTIFICATION OF BASE STATION (CWS) .....	117
FIGURE 116 – PORT CABRIS: IDENTIFICATION OF BASE STATION (AIRTEL) .....	117
FIGURE 117 – PORT CABRIS: MP1 LOCATION.....	118
FIGURE 118 – PORT CABRIS: MP2 THRU MP4 LOCATION/S .....	118
FIGURE 119 – REUNION: MEASUREMENT POINTS (WEBGIS) .....	119
FIGURE 120 – REUNION: IDENTIFICATION OF BASE STATION (CWS) .....	119
FIGURE 121 – REUNION: IDENTIFICATION OF BASE STATION (AIRTEL) .....	120
FIGURE 122 – REUNION: MP1 LOCATION.....	120
FIGURE 123 – REUNION: MP2 LOCATION.....	121
FIGURE 124 - SUGGESTED TRANSMITTING ANTENNA (KATHREIN TYPE 80010767) RADIATION PATTERN .....	206

# Glossary of Terms

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<b>2G</b>	Second Generation cellular technology. Covering GSM bands 880-960MHz.
<b>3G</b>	Third Generation cellular technology
<b>4G</b>	Fourth Generation cellular technology
<b>ARFCN</b>	Absolute Radio Frequency Channel Number
<b>BCCH</b>	Broadcast Control Channel (in GSM networks)
<b>CPICH</b>	Common Pilot Channel (in UMTS and other CDMA communication systems)
<b>DICT</b>	Department of Information Communications Technology
<b>DL</b>	Downlink
<b>DTT</b>	Digital Terrestrial Television
<b>EDGE</b>	Enhanced Data Rates for GSM Evolution
<b>EMF</b>	Electromagnetic Field
<b>EIRP</b>	Equivalent Isotropic Radiated Power
<b>ERP</b>	Effective Radiated Power
<b>FSL</b>	Free Space Loss
<b>GSM</b>	Global System for Mobile Communications
<b>ICNIRP 98</b>	Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Fields (up to 300 GHz), Health Physics, vol. 74 no. 4, S. 494-522, (1998).
<b>IEC</b>	International Electrotechnical Commission
<b>ITU</b>	International Telecommunications Union
<b>LTE</b>	Long Term Evolution
<b>MIMO</b>	Multiple-input and Multiple-output
<b>PAPR</b>	Peak-to-Average Power Ratio
<b>RBW</b>	Resolution Bandwidth
<b>RF</b>	Radio Frequency
<b>RMS</b>	Root Mean Square
<b>RS</b>	Reference Signal (in LTE)
<b>SBC</b>	Seychelles Broadcasting Corporation
<b>SFN</b>	Single frequency network
<b>TCH</b>	Traffic Channel (in GSM networks)
<b>UMTS</b>	Universal Mobile Telecommunication System
<b>VBW</b>	Video Bandwidth
<b>VBWF</b>	Video Bandwidth Filter

# 1 Executive Summary

---

LS of South Africa (Pty) Ltd was appointed by the Department of Information Communications Technology (DICT) in the Seychelles to undertake the complete measurement of non-ionizing electromagnetic field (EMF) exposure at 25 identified sites/locations – the details of which are recorded in Appendix A5 of this report.

The primary aim of the measurement task was to perform narrowband EMF measurements across the entire base of mobile telephony technologies that are being used by the two licensed operators, these being Cable and Wireless (Seychelles) Ltd (CWS) and Airtel (Seychelles) Ltd (Airtel) respectively.

The results of each measurement have been tabulated and the computed results compared against the International Commission for Non-ionizing Radiation (ICNIRP) published guidelines. The comparative results would be for public exposure limits only. As a revision of the ICNIRP guidelines is currently underway – reference is drawn to the “Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300GHz)”, Health Physics 74 (4): pp. 494-522; 1998. As ICNIRP is a health standard, the applicable methodologies applied in the studies have been developed through industry best practise approaches which are aligned with [ITU-T K.100] and [IEC 62232:2017] industry standards as applicable.

A summary of the results of all the measurement points is presented under Appendix A2 of this report and expressed as percentages of the reference levels. The highest exposure levels as measured were at Mont Buxton (MP2 – 58.31% and MP4 – 61.71% respectively) and whilst these are below the ICNIRP limits, they are reason for some concern. As this is a special case, we recommend that the present tower structure at Mont Buxton on which the antennae are installed onto be extended high enough above ground level (i.e. by a further 11m, by the applicable mobile operator) for limiting the degree of exposure on the occupants within the dwelling below the site – some of the rooms are directly opposite and/or very near to the antennae in question. We further suggest that the azimuth of the antennae be optimised again for the purposes of limiting exposure. The recommendations are presented for Mont Buxton around the fact that that at the MP4 location, the inhabitants are within the boundary distance ( $\pm 6.5\text{m}$ ) of the radiating near field and would be exposed to such electromagnetic fields for extended time periods. It is important to note that RF measurements for public exposure are usually done in the far field as the public should not be living in the near field of antennas.

The basis of the results from this study may provide further insight into the present exposure levels that are being emitted at present for the purposes of evaluating the expected increase in exposure levels when additional operators/services are proposed for the region. We present the maximal (i.e. worst case) exposure levels throughout this document as it is difficult to determine the extent of traffic levels that may be in force at any given instant with the base station/s and its users.

Where some measurements have displayed results that approach levels of 20% and above, these installations should be carefully evaluated for increase of exposure levels with the addition of further 2G/3G/4G services. We suggest that these studies be handled on a case-by-case basis where the addition of new operators/services is anticipated – we however present a set of results for the predicted increase in EMF values (i.e. for the measurement points at which the highest values were recorded) in the event that a new operator is licensed by the DICT.

We furthermore recommend that all base station facilities be appropriately secured (i.e. fenced off appropriately) and marked with internationally-accepted warning signage.



## 2 Objective

To achieve the specific outcomes as required for the completion of the project being the complete measurement of non-ionizing radiation emanating from operational mobile telephony base station infrastructure within the Seychelles, the following preliminary steps were put into place. These in brief were the following:

### 2.1 Shortlisting of the sites/locations to be measured

A shortlist of 25 sites was developed (from the current database) on the basis of their locality to public areas (schools, stadiums, hospitals/health-care centres, residential areas, airports, etc.) along with consideration of feedback as was received from concerned parties., and that from the operators, being Cable and Wireless Seychelles Limited, and Airtel Seychelles Limited.

### 2.2 Pre-qualification information for the measurement of the identified sites/locations

It was accepted that the service information for several of the sites/locations that were to be measured were unknown and therefore the following process was used for the identification and subsequent measurement of the service information at these sites.

In all instances the primary parameters of the mobile telephony service/s were identified (per Table 1 below) using the Snyder-LTE network analyser at each site that was to be measured. The final details as are presented in the report are for spectrum where services are presently being provisioned in.

Parameters for inspection	GSM-E900 (2G)	UMTS (3G)	LTE (4G)
Operating frequencies as identified (in MHz)			
Code-selective information	Not applicable to E900.	Scrambling codes as applicable per service.	MIMO information not available from Snyder.

*Note: For UMTS (3G) and LTE (4G) technologies – only the centre frequencies of each of the services are shown above.*

Table 1 - Applicable information per each mobile telephony service identified through pre-qualification

The results developed through the process in 2.2 above, were subjected for further evaluation using the Narda SRM 3006, narrow-band field strength analyser – all measurement results were documented and have been assessed against the ICNIRP 98 exposure reference levels.

It was noted throughout the measurements that the applicable mobile phone base stations remained in operation and therefore were in proximity to the measurement points (typically labelled as MP1,

MP2, etc.) which were identified. Where co-located, operational DVB-T2 sites were encountered – these results have been recorded and factored into the results.

### **3 Description of measurement points (MPs)**

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The measurements were performed from 05.04.2019 to 17.04.2019 inclusively at each of the measurement points, as agreed between the DICT and LSSA respectively.

Appendix A5 provides a comprehensive listing of all sites and mobile telephony services being provided to the respective regions. Table 2 (overleaf) summarise the particulars of all the measurement points per region – the sites are numbered in accordance with the site schedule in A5.

The selection criteria used for the determination of the number of measurement points took briefly the following into account;

- Facilities that were of a ‘public focus’ (e.g. sports stadiums, public concourses, kindergartens, airports, office areas, etc.) and located in close proximity to mobile base station infrastructure required that several measurement points to be taken
- In those instances where the limit consumption values were observed during the campaign to reach excessive values – several measurement points were taken to characterise the results obtained, and
- Where measurements were undertaken at remote base stations away from areas of public focus – these were limited to one measurement point (i.e. at the main entry point to the facility) which could sufficiently characterise the results as were measured.

An overlay of the surrounding terrain, marking the position/s of the base station and the measurement points has been provided courtesy of the Seychelles WebGIS portal (<https://www.webgis.gov.sc>) – this is indicated for all the measurement sites. Note that most of the map overlays that are presented on the portal are based on aerial photos dating from 2011 and therefore may not reflect the present status of all building developments, sites, locations, etc. that were earmarked for measurement. In some instances, we have applied the snapshots from the latest resource (i.e. 2018) as available.

Applicable snapshots of the WebGIS and the measurement point/s are presented in Appendix A1. The base station location/s are identified by a red/yellow ‘marker’ per the Lat. /Long coordinates provided in the schedules in Appendix A5. Where two (or more) base stations are depicted within a study – the base station/s are then denoted by red ‘circles’ placed around them.

Site No.	Region	Operator/s	Meas. point number/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight visibility to base station	Relative height above ground level (AGL)
<b>REGION ONE</b>								
1.	Glacis	CWS	N/A	47	Machabee Hill – WebGIS snapshot			
1/1	Glacis	CWS	MP1	48	Machabee Hill – Outside double-storey home(under car-port)	≈50	Partial visibility	Ground
1/2	Glacis	CWS	MP2	48	Machabee Hill – balcony of adjacent {white house} property)	≈63	Partial visibility	Ground
2.	Glacis	CWS	N/A	49	Carana Hill – WebGIS snapshot			
2/1	Glacis	CWS	MP1	49	Carana Hill – in front of base station entrance.	≈25	Yes	Ground
3.	Glacis	Airtel	N/A	50	North East Point – WebGIS snapshot			
3/1	Glacis	Airtel	MP1	50	North East Point – at base-station entrance	≈10	Yes	Ground
3/2	Glacis	Airtel	MP2	51	North East Point – in front of house at road intersection –	≈40	Yes	Ground
4	Glacis	Airtel	N/A	52	Villa Fond de Lianes – WebGIS snapshot			



**REGION ONE (CONTINUED)**

4/1	Glacis	Airtel	MP1	52	Villa Fond de Lianes – On North Coast Road (below site)	≈10	Yes	Ground
4/2	Glacis	Airtel	MP2	53	Villa Fond de Lianes – property adjacent to base station.	≈40	Yes	Ground

Site No.	Region	Operator/s	Meas. point number/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight visibility to base station	Relative height above ground level (AGL)
<b>REGION TWO</b>								
5.	Bel Ombre	Airtel	N/A	54	Bel Ombre – WebGIS snapshot			
5/1	Bel Ombre	Airtel	MP1	54	Bel Ombre – adjacent to base station site	≈25	Yes	Ground
5/2	Bel Ombre	Airtel	MP2	55	Bel Ombre – within car park of Le Méridien Fisherman's Cove	≈90	Yes	Ground
6	Bel Ombre (DZ)	CWS	N/A	56	Bel Ombre (DZ) – WebGIS snapshot			
6/1	Bel Ombre (Dan Zil)	CWS	MP1	57	Bel Ombre (Dan Zil) Bottom of double-track road leading to base-station	≈60	Yes	Ground
6/2	Bel Ombre (Dan Zil)	CWS	MP2	58	Bel Ombre (Dan Zil) – below base station	≈30	Yes	Ground

Site No.	Region	Operator/s	Meas. point number/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight visibility to base station	Relative height above ground level (AGL)
<b>REGION TWO (CONTINUED)</b>								
7.	Glacis	Airtel	N/A	59	Sorento – WebGIS snapshot and base station view.	Note: Accurate WebGIS points could not be determined as a result of the age of the WebGIS resource available.		
7/1	Glacis	Airtel	MP1	60	Sorento (Home under construction) On balcony. Base-station is directly below.	≈70	Yes	Top floor
7/2	Glacis	Airtel	MP2	60	Sorento Lower balcony facing base station (directly below)	30	Yes	Lower level
7/3	Glacis	Airtel	MP3	61	Sorento – on sub-basement level Facing base-station (directly below).	≈25	Yes	Sub-basement
7/4	Glacis	Airtel	MP4	61	Sorento – inside guardhouse	≈20	Yes	Ground.

**REGION TWO (CONTINUED)**

<b>8.</b>	<b>Beau Vallon</b>	<b>Airtel</b>	<b>N/A</b>	<b>62</b>	<b>La Batie – WebGIS snapshot</b>			
<b>8/1</b>	<b>Beau Vallon</b>	<b>Airtel</b>	<b>MP1</b>	<b>63</b>	<b>La Batie – In front of white house (under construction).</b>	<b>≈70</b>	<b>Partial visibility.</b>	<b>Ground.</b>
<b>8/2</b>	<b>Beau Vallon</b>	<b>Airtel</b>	<b>MP2</b>	<b>64</b>	<b>La Batie – at cul-de-sac in road (adjacent to base station)</b>	<b>≈30</b>	<b>Yes</b>	<b>Ground.</b>

Site No.	Region	Operator/s	Meas. point number/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight visibility to base station	Relative height above ground level (AGL)
<b>REGION THREE</b>								
9.	Pers.	Airtel	N/A	65	Perserverance – WebGIS snapshot			
9/1	Pers.	Airtel	MP1	65	Perserverance – adjacent to base station.	≈38	Yes	Ground
9/2	Pers.	Airtel	MP2	66	Adjacent to convenience store –on street corner...	≈ 62	Yes	Ground
10.	Eng. River	Airtel	N/A	67	Espace building – WebGIS snapshot	Note: site has multiple sector antennae installed and identified accordingly.		
10/1	Eng. River	Airtel	ES1-MP1	68	Espace building-In front- Approx. below sector antenna panel.	≈15	Yes	
10/2	Eng. River	Airtel	ES1-MP2	68	Espace building-at road turning into the open parking area	≈45	Yes	Ground
10/3	Eng. River	Airtel	ES1-MP3	68	Espace building- on steps of open area.	≈35	Yes	Ground
10/4	Eng. River	Airtel	ES1-MP4	69	Espace building-On balcony of dance studio. Three-storey building.	≈10	No	Top floor.

Site No.	Region	Operator/s	Meas. point number/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site	Line of sight visibility to base station	Relative height above ground level (AGL)
<b>REGION THREE (CONTINUED)</b>								
10/5	Eng. River	Airtel	ES2-MP1	67	Espace building- Open area in front of retail stores (restaurants)	≈15	Yes	Ground
10/6	Eng. River	Airtel	ES3-MP1	68	Espace building-Outside restaurant area.	≈10	Yes	Ground
11.	Anse Etoile	Airtel	N/A	70	Ma Constance – WebGIS snapshot/base station identification			
11/1	Anse Etoile	Airtel	MP1	71	Ma Constance – adjacent to base station.	≈12	Yes	Ground
11/2	Anse Etoile	Airtel	MP2	71	Ma Constance- at furthest end of property (adjacent to base station)	≈25	Yes	Ground
12.	Mt. Buxton	Airtel	N/A	72	Mt. Buxton – WebGIS snapshot/base station identification			
12/1	Mt. Buxton	Airtel	MP1	72	Mt Buxton – outside kitchen back-door (closest to base-station)	≈10	Yes	Ground

**REGION THREE (CONTINUED)**

12/2	Mt. Buxton	Airtel	MP2	73	Mt Buxton – inside living room	≈6	Yes (through house window)	Ground
12/3	Mt. Buxton	Airtel	MP3	74	Mt Buxton- inside girl's bedroom	≈6	Yes (through house window)	Ground
12/4	Mt. Buxton	Airtel	MP4	74	Mt Buxton – inside house loft	≈6	No	Upper level (inside loft)

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION FOUR</b>								
13.	Victoria	CWS	N/A	75	SACOS Tower – WebGIS snapshot			
13/1	Victoria	CWS	MP1	75	Adjacent to SACOS Tower. At street level.	≈25	Yes	Ground
13/2	Victoria	CWS	MP2	77	SACOS Tower. Adjacent three-storey building. On balcony.	≈25	Yes	Top floor
13/3	Victoria	CWS	MP3	77	SACOS Tower. Adjacent three-storey building. On balcony.	≈25	Yes	Top floor
13/4	Victoria	CWS	MP4	75	SACOS Tower. Adjacent three-storey building. On balcony.	≈25	Yes	Top floor
14.	Victoria	Airtel/CWS	N/A	78	Stad. Popiler/CBS – WebGIS snapshot/s.			
14/1	Victoria	Airtel/ CWS	MP1	80	Victoria (Stad Popiler)/CBS. Car park behind bank.	≈50	Yes	Ground
14/2	Victoria	Airtel/ CWS	MP2	80	Victoria (Stad Popiler)/CBS. Roof of CBS. Below base station (under photovoltaic panels). Three-storey.	≈10	Yes (for CWS)	Roof



14/3	Victoria	Airtel CWS	MP3	81	Victoria (Stad Popiler)/CBS. CBS roof – HVAC equipment storeroom.	≈15	Yes (for CWS)	Roof
14/4	Victoria	Airtel/ CWS	MP4	81	Victoria (Stad Popiler)/CBS. CBS Canteen. Large window facing Airtel base station.	≈25	Yes (for Airtel)	First floor
14/5	Victoria	Airtel/ CWS	MP5	81	Victoria (Stad Popiler)/CBS. CBS canteen. Balcony facing onto sports stadium.	≈30	Yes (for Airtel)	First floor
14/6	Victoria	Airtel/ CWS	MP6	82	Victoria (Stad Popiler)/CBS. Outside in sport stadium (on grandstand).	≈30	Yes – for Airtel only.	Ground
15.	St Louis	Airtel	N/A	83	Dr Chetty Clinic/neighbouring crèche – WebGIS snapshot			
15/1	St Louis	Airtel	MP1	84	Dr Chetty Clinic/surrounds. Pre-school –on balcony facing base station.	≈35	Yes	First floor
15/2	St. Louis	Airtel	MP2	84	Dr Chetty Clinic/surrounds. Inside pre-school classroom.	≈35	Yes	First floor
5/3	St. Louis	Airtel	MP3	85	Dr Chetty Clinic/surrounds. In front of pre-school. Facing the base station.	≈40	Yes	Ground
15/4	St. Louis	Airtel	MP4	85	Dr Chetty Clinic/surrounds. Below base-station. Top of stairwell. Three storey building.	≈10	No	Top floor
15/5	St. Louis	Airtel	MP5	86	Dr Chetty Clinic/surrounds. Office floor level.	≈15	No	Third floor

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION FOUR (CONTINUED)</b>								
16 (A)	Mt. Fleuri	CWS	N/A	87	Seychelles Hospital. WebGIS snapshot			
16/1	Mt. Fleuri	CWS	MP1	88	Seychelles Hospital. In front of mortuary building.	≈25	Yes	Ground
16/2	Mt. Fleuri	CWS	MP2	88	Seychelles Hospital. Open 'green' recreational area.	≈20	No	Ground
16/3	Mt. Fleuri	CWS/Airtel	MP3	90	Seychelles Hospital – in front of two-storey office building.	≈10	Yes	Ground
16 (B)	Mt. Fleuri	Airtel	N/A	90	Hermitage (SBC) – WebGIS snapshot			
16/4	Mt. Fleuri	Airtel	MP1	91	Hermitage (SBC). In car park in front of building.	20	Yes	Ground

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION FIVE</b>								
17.	Plaisance	Airtel	N/A	92	Plaisance – WebGIS snapshot			
17/1	Plaisance	Airtel/	MP1	92	Plaisance – closest to cemetery (at T-junction in road)	≈26	Yes	Ground
17/2	Plaisance	Airtel/	MP2	93	Plaisance – in front of base station (closest point).	≈13	Yes	Ground
18.	Plaisance	Airtel	N/A	94	Copolia – WebGIS snapshot			
18/1	Plaisance	Airtel	MP1	95	Copolia – in front of house (S-bend in road)	≈100	Yes	Ground
18/2	Plaisance	Airtel	MP2	97	Copolia. In front of base-station (closest to base station – solar panel on roof as identifier).	≈ 25	Yes	Ground
18/3	Plaisance	Airtel	MP3	98	Copolia. In front of white three-storey house (facing base station)	≈ 38	Yes	Ground

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION FIVE (CONTINUED)</b>								
19.	Roche Caiman	Airtel/CWS	N/A	99	Roche Caiman. WebGIS snapshot		Note: there are two sets of base station infrastructure, namely RC1 and RC2.	
19/1	Roche Caiman	Airtel/CWS	RC1/MP1	100	Roche Caiman. Public area behind stadium	≈25	Yes	Ground
19/2	Roche Caiman	Airtel/CWS	RC1/MP2	100	Roche Caiman. Inside stadium – on racetrack.	≈20	Yes	Ground
19/3	Roche Caiman	Airtel/CWS	RC2/MP1	101	Roche Caiman. Outside wall of PUC/base-station.	≈15	Yes	Ground
19/4	Roche Caiman	Airtel/CWS	RC2/MP2	101	Roche Caiman. Outside tennis courts/swimming complex.	≈45	Yes	Ground

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 (Page numbers)	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION SIX &amp; SEVEN</b>								
20.	Providence	CWS	N/A	102	Sunshine House. WebGIS snapshot			
20/1	Providence	CWS	MP1	102	Sunshine house. Outside building next to sub-station.	≈40	Yes	Ground
20/2	Providence	CWS	MP2	104	Sunshine house. Below base station (under atrium).	≈25	Yes	Top floor
21(A)	Pointe Larue	CWS	N/A	105	Seychelles Intl. Airport. WebGIS snapshot			
21/1	Pointe Larue	CWS	MP1	105	Seychelles Intl. Airport. Next to base station (Air Seychelles building).	≈25	Yes	Ground
21/2	Pointe Larue	CWS	MP2	106	Seychelles Intl. Airport. In front of VIP terminal – start of terminal building.	≈90	Yes	Ground
21/3	Pointe Larue	CWS	MP3	107	Seychelles Intl. Airport. Baggage handling area.	≈160	Yes	Ground
21/4	Pointe Larue	CWS	MP4	107	Air Seychelles office block. Inside office area. Three Storey building.	≈35	Yes	Top floor

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION SIX &amp; SEVEN (CONTINUED)</b>								
21 (B)	Pointe Larue	Airtel	N/A	108	Seychelles Int. Airport – Domestic Terminal. WebGIS snapshot			
21/5	Pointe Larue	Airtel	MP1	108	Seychelles International Airport – domestic terminal. Car park outside.	≈50	Yes	Ground
21/6	Pointe Larue	Airtel	MP2	109	Seychelles International Airport – Domestic terminal. Drop-off zone.	≈70	Yes	Ground
<b>REGION EIGHT</b>								
22.	Port Glaud	Airtel	N/A	110	Port Launay – WebGIS snapshot.			
22/1	Port Glaud	Airtel	MP1	110	Port Launay – below base station In front of house (with off-yellow exterior walls).	≈90	Yes	Ground
22/2	Port Glaud	Airtel	MP2	111	Port Launay – below base station (behind dwellings).	≈40	Yes	Ground

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION TEN (PRASLIN AND LA DIGUE)</b>								
23.	Praslin	Airtel/CWS	N/A	112	Grand Anse – WebGIS snapshot	<b>Note: this measurement location considers two base station site locations.</b>		
23/1	Praslin	Airtel/	MP1	113	Grand Anse – in front of auto-parts shop. Facing Airtel base-station.	≈75	Yes	Ground
23/2	Praslin	Airtel/CWS	MP2	113	Grand Anse – in front of auto-parts shop. Facing CWS base station.	≈35	Yes	Ground
23/3	Praslin	Airtel/CWS	MP3	114	Grand Anse. Closest point to Airtel base station (across road)	≈40	Yes	Ground
23/4	Praslin	Airtel/CWS	MP4	115	Grand Anse – at retail store entrance.	≈80	Yes	Ground
24.	Praslin	Airtel	N/A	116	Pt. Cabris – WebGIS snapshot			
24/1	Praslin	Airtel	MP1	118	Pt. Cabris – at access road into property.	≈30	Yes	Ground
24/2	Praslin	Airtel/	MP2	118	Pt. Cabris. In front of woodworking area.	≈40	Yes	Ground

Site No.	Region	Operator/s	Meas. Point/s	Seychelles WebGIS/ Meas. point/photo references in Appendix A1 {Page numbers}	Description	Approx. distance to base station site (in meters)	Line of sight to base station	Height above ground level (AGL)
<b>REGION TEN (CONTINUED)</b>								
24/3	Praslin	Airtel/ CWS	MP3	118	Pt. Cabris – in front of open area on property.	≈50	Yes	Ground
24/4	Praslin	Airtel/CWS	MP4	118	Pt. Cabris – under carport (closest to main dwelling).	≈55	Yes	Ground
25.	La Digue	CWS/Airtel	N/A	119	Anse Reunion – WebGIS snapshot.	Note: this measurement location considers two base station site locations.		
25/1	La Digue	CWS	MP1	120	Anse Reunion – adjacent to fence of CWS compound.	≈20	Yes	Ground
25/2	La Digue	Airtel	MP2	121	Anse Reunion – outside main entrance (distance shown is approximate to Airtel base station).	≈60	Yes	Ground

Table 2 – Measurement point (MP) locations as identified per region in the Seychelles



The measurements were performed from 04.04.2019 to 17.04.2019 inclusively between 10:00 and 15:30 on each of the days.

The measurements were undertaken primarily by representatives of the DICT under the supervision of Mr Vaughan Taylor (Project Manager) to fulfil the practical requirement of the training programme which was also offered as part of the exercise. The DICT personnel as were responsible for undertaking the measurements and gathering the information were the following;

- Mr Sivarajan Chetty
- Mr Yannick Julie
- Mr Michael Esparon
- Mr Abdoulaye Diallo

Regular reporting to the Director of Radio Communications Section, Mr Paul Pierre was ensured around progress of the campaign.

## 4 Measurement Protocol

### 4.1 Background

The applicable methodologies applied in these studies were developed through industry best practise approaches which are aligned with [ITU-T K.100] and [IEC 62232:2017] industry standards as applicable.

### 4.2 Measurement quantities for RF fields

For conducting exposure assessments around operational RF radio transmitting facilities, the following quantitative indicators were used;

- Electric field strength E in V/m (root-mean-square {or rms} value)
- Magnetic field strength H in A/m (rms value)
- Power density S in W/m<sup>2</sup> (linear mean value)

In the far field of a transmitted signal, the electric and magnetic field strength along with the power density are coupled by a constant ratio. For measurements around mobile phone base stations – it is acceptable for these to be done in the far-field because the measurements will be performed at some distance away from the radiating antenna systems.

Therefore for exposure assessments - the measurement of one of the three quantities may be sufficient. In the report of the conducted measurements, primarily the electric field strength and its reference level consumption are used as exposure quantities.

### 4.3 Measurement equipment and procedure

The following equipment was used throughout the measurement campaign in the Seychelles:

Equipment	Manufacturer	Type	Serial number
<b>SRM-3006</b>	Narda STS	Portable spectrum analyser 9 kHz - 6 GHz with additional UMTS and LTE code selective measurement option/s	<b>G-0007</b>
<b>3AX 420M-6G</b>	Narda STS	Three-axis measuring antenna 420 MHz - 6 GHz	<b>B-0212</b>
<b>Snyper LTE</b>	Siretta	Signal strength analyser utilised for surveying 4G/LTE, 3G/UMTS & 2G/GSM. For European networks.	<b>359852054679759</b>

Table 3 - Measurement equipment used

### 4.3.1 Measurement methodologies

Using the information as obtained from each pre-qualification assessment, the applicable mobile telephony service information was accurately recorded using the SRM3006 and its companion three-axis antenna.

Table 4 (below) briefly describes the applicable measurement methodology that was applied per telephony technology.

Applicable setup for SRM-3006	E900 GSM (2G)	UMTS950/IMT2100 (3G) – code selective	LTE (4G) – code selective
<b>Operational Mode/s</b>	Spectrum Analyser	UMTS P-CPICH demodulation	LTE demodulation
<b>Result type/s</b>	MIN and MAX traces	MAX and ACT.	MAX and ACT.
<b>Stop/start and centre frequencies</b>	Set ‘start’ and ‘stop’ frequencies as required  (Split the GSM band into two sub-bands for 900/1800MHz (if required))	Centre frequency of the UMTS signal  (For accurate demodulation – precise adjustment is necessary!)	Centre frequency of the LTE signal
<b>Resolution bandwidth (RBW) and detection.</b>	200kHz. Use the 2kHz Video Bandwidth (VBW) filter for RMS smoothing for EDGE modulation.	5MHz and RMS detection are automatically switched ‘in’ for the measurements	A channel bandwidth (CBW) of 1.4MHz is sufficient. RMS detection is automatically switched on.
<b>Measurement range</b>	Dependent on the field strength of strongest signal	Must be higher than the ‘Analog’ value displayed in the result table	Shall be a minimum of 30dB above the ‘Analog’ value in result table
<b>Signals to be measured (worst case approach)</b>	Measurement of BCCH signals. Apply extrapolation factor based on power ratio between the BCCH signal relative to the maximum power radiated by the antenna.	Measurement of the CPICH signals. Apply extrapolation factor.	Measurement of the RS0/RS1 for two MIMO. Apply extrapolation factor.
<b>Antenna</b>	Use three-axis throughout.		

Table 4 - Applicable narrow-band analyser setup information

The measurement equipment used was previously calibrated by the manufacturer and has been subject to regular calibration cycles.

With the spectrum analyser and a suitable receiving antenna, the operational frequencies and receive levels of the investigated radio services at the measurement point were assessed. No additional interconnecting cables were used between the antenna and spectrum analyser i.e. the antenna was directly connected to the analyser.

During the measurements, the sweeping method was used: The receive antenna is swept slowly through the measurement volume (height 0.75 m - 1.75 m, diameter at least 1 m) with continuous variation of the orientation and polarization of the antenna. The spectrum analyser is operated in the "max hold" mode. The measurement was performed until no changes in the measurement display could be observed. This method reliably finds and records the maximal exposure inside the measurement volume. During the sweeping process, a distance of at least 0.5 m was maintained between the measurement antenna and the immediate ground below it. In addition to this, the antenna was kept away from any metallic objects, windows and other reflective surfaces.

GSM signals were measured with the SRM-3006 set to 'spectrum analyser' mode - a RBW of 200 kHz was selected. A VBW filter at 2 kHz was used to provide for additional RMS smoothing for EDGE modulation. For UMTS and LTE signals the code selective modes of the instrument were used.

All single exposure values were summarized to a total exposure in correspondence with the summation formula given in Appendix A3. Radio Frequency electromagnetic exposure values that were measured at levels of 80 dB $\mu$ V/m and below do not contribute significantly (i.e. the resultant levels are for all practical purposes at 80 dB $\mu$ V/m and smaller would be 20dB lower than the largest measured value) to the total exposure and therefore may be disregarded.

## 4.4 Calculation of minimal and maximal exposure

The electromagnetic fields generated from mobile phone base station sites are non-constant in time and vary in proportion to the traffic throughput and established connection qualities to the respective end-users. In off-peak hours, the generated exposure may subside to a minimal nominal value, this being only produced through permanent signalisation information by the base station and will vary in terms of the mobile telephony system/standard in question. Due to worst-case considerations, the exposure at highest operational state of the site is to be determined. This was done as follows:

### GSM sites

GSM sites with more than one transmit channel operate with a transmit power control from channel 2 on, whereas channel 1 (broadcast control channel, BCCH) works permanently with maximal transmit power. To extrapolate from the measured instantaneous exposure to the maximal possible exposure, the exposure contributed by the BCCH of each sector was combined with the maximal possible number of the channels and as such only these values are documented.

The *maximal exposure*, documented in this report, therefore contains an extrapolation factor, to determine the maximal operational state of the base station as may be determined by its network operators. As such – the maximal exposure levels are reflected throughout the document. The typical total number of radio channels in one GSM cell is two to four (therefore four radio channels in one GSM cell allows for approximately 30 simultaneous telephone connections for a given cell). This in turn advises an extrapolation factor of 3 to 6 dB which may be applied on the BCCH measurement results. As the exact number of radio channels was not stated by the operators a 6dB extrapolation factor was decided upon throughout the exercise – the resultant limits were continuously evaluated and found in most instances to be within accepted norms.

The result tables in the report (in section 6.2) perform an automatic computation to 6dB, using the formula  $10 \log (4)$ .

#### UMTS sites

At UMTS sites - a signalization signal ("Common Pilot Channel", or CPICH) exists, which is transmitted with defined and constant power regardless of the traffic patterns, which are non-constant in nature. The field strength of each existing CPICH was determined by a code selective measurement. The *minimal exposure* results from the *CPICH exposure with an addition of 3 dB* (factor of 2 with regard to power), to account for other permanently transmitted signalization channels. For the minimal exposure all channels presently in operation are accounted for.

The maximal exposure results from a multiplication of the measured CPICH exposure with a factor, determined by the maximal approved transmit power of the frequency channel and the presently used power of the CPICH. This factor (e.g. 10 with regard to the power) was advised from the network operators and is referred to as the Peak to Average Power Ratio (or PAPR). The exposure determined this way may then be extrapolated to the maximal approved spectrum occupancy (regardless of whether during the measurement that less than the maximal possible channels were in operation) through the addition of 10dB to the measured results – and demonstrated in the result tables (in section 6.2).

#### LTE sites

Both UMTS and LTE utilise modulation schemes that present high peak-to average power ratios and similarly to UMTS described above- a special code selective measurement technique was used to determine the field strength of the reference signal (or RS) for each sector antenna with defined and constant power and thus regardless of traffic patterns. From the exposure value of these signals again an extrapolation to maximum and minimum traffic load is possible. An extrapolation factor of 600 (i.e. 27.8dB) being identical to the number of subcarriers, as applicable for a signal bandwidth of 9MHz – this is indicated for maximum traffic load conditions. It was further considered that as these systems were based upon two MIMO antenna approaches, the MIMO channel which exhibits the maximum value for the RS signal is therefore extrapolated by an additional factor of 3dB (which in effect is the measurement uncertainty factor in 4.5 below) – and is added to the measurement results in section 6.2.

## 4.5 Measurement uncertainty

The measurement uncertainty for the exposure measurements was calculated to be  $\pm 3$  dB (expanded uncertainty for  $k=2$ , i.e. confidence interval 95%). Here, uncertainties for the calibration of measurement antenna, spectrum analyser and cable as well as for the limited repeatability of the measurements were taken into account.

As the measured values are for the most part significantly below the ICNIRP limit threshold, the measurement uncertainty factor is included into the results as the effect of including it is innocuous on the final results.

## 5 Results

In Table 6 (overleaf) the maximum exposure values have been derived from the *highest values* of the measurement point sets which then extrapolated with reference to section 4.3. We present the maximal (i.e. worst case) exposure levels throughout this document as it is difficult to determine the extent of traffic levels that may be in force at any given instant with the base station/s and its users. For ease of reference, the results are 'colour-coded' for demonstrating compliance with the ICNIRP 98 reference levels (per Table 5 below).

Legend	Highest EMF Value/s [Colour Code]
Highest EMF value >26%	(Red – highest)
Highest EMF value 16 - 25%	(Orange - mid)
Highest EMF value - > 6% ≤ 15%	(Yellow – low-mid)
Highest EMF value ≤ 5.7%	(Light Green – lowest)

Table 5 – colour-codes per highest EMF values

Note that the results in the Table 6 are not the actual exposure levels, but the percentage values related to the reference levels of ICNIRP 98. Detailed tables with absolute values for field strength (in V/m) and power density (in mW/m<sup>2</sup>) are documented in Appendix A2. The colour-coding as has been applied in Tables 5 and 6 should not be interpreted that 'red' for example indicates a dangerous condition – they are recorded in this fashion to provide for easy grading of the results as were obtained.

Table 6 shows that whilst all the exposure levels as measured and referenced to ICNIRP 98 are within specification, there are some concerns around the values that were measured at Mt. Buxton – the highest value as recorded was at MP4 (61.71%) respectively. For remedial action, we present our remedial actions for reducing the exposure values under Appendix A4.

The geographical locations (per region) of the sites are presented in individual 'Google Earth' images on which the site locations are marked and colour-coded as per Table 6. The region images immediately follow the Table for easy reference in Section 5.1.

The basis of the results from this study may provide further insight into the present exposure levels that are being emitted at present for the purposes of evaluating the expected increase in exposure levels when additional operators/services are proposed for the region. We present the maximal (i.e. worst case) exposure levels throughout this document as it is difficult to determine the extent of traffic levels that may be in force at any given instant with the base station/s and its users.

Where some measurements have displayed results that approach levels of 20% and above, these installations may be evaluated for increase of exposure levels with the addition of further 2G/3G/4G services. Through desktop analyses, we have provided some predictive indicators as to what the further increases may be with the addition of a new operator – these results are displayed in Appendix A4 (Table 9).

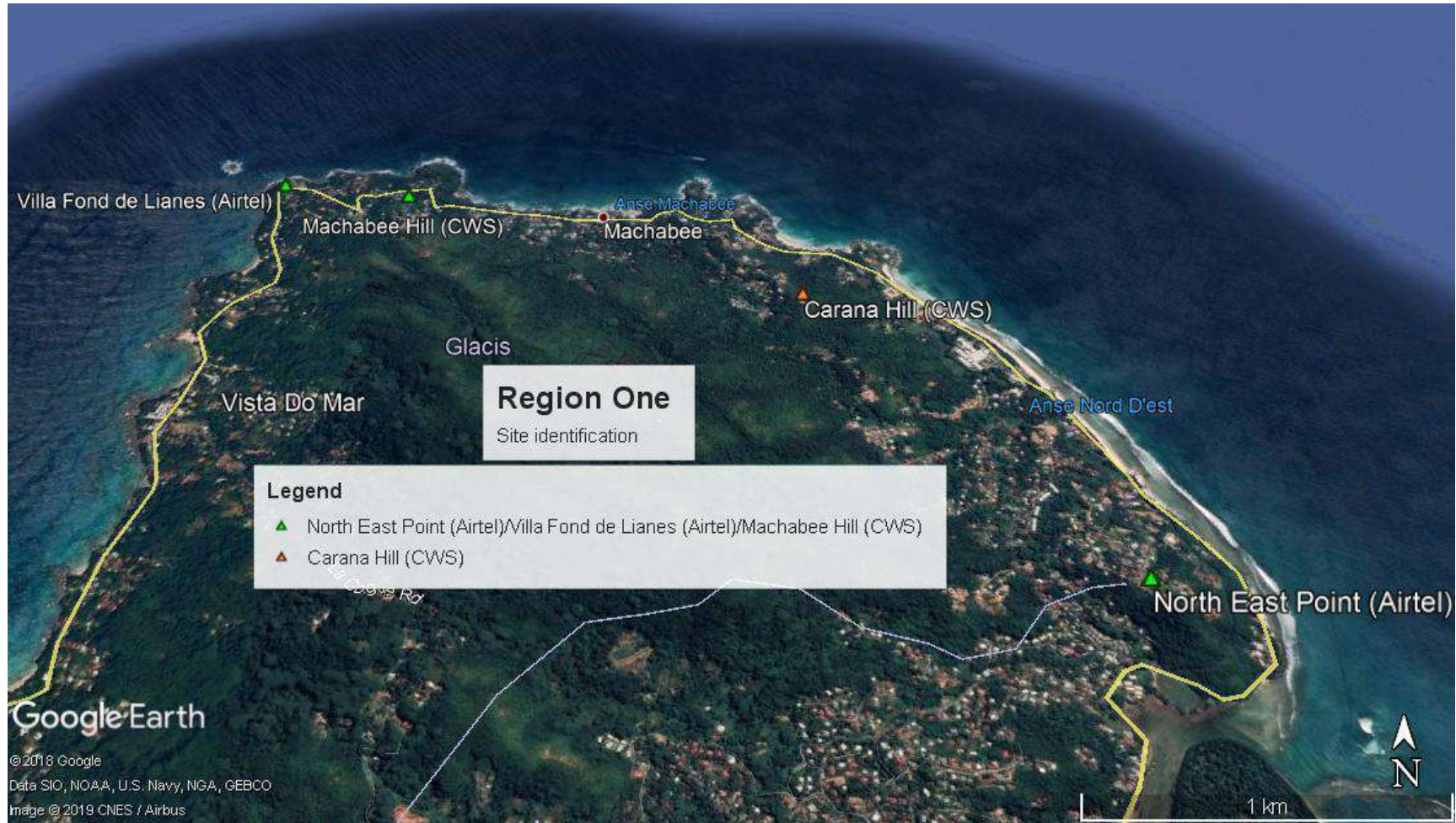
Site Lat.	Site Long.	Site Name/s	Operator/s	Highest EMF exposure values (in percentages)			
				≤ 5.7%	6% ≤ 15%	16% - 25%	>26%
-4.563900000	55.438999000	Machabee Hill	CWS	4.3 (MP2)			
-4.569700000	55.453796000	Carana Hill	CWS			19 (MP1)	
-4.582062000	55.463014000	North East Point	Airtel	4.15 (MP2)			
-4.563169000	55.434113000	Villa Fond de Lianes	Airtel	5.64 (MP1)			
-4.617199000	55.421298000	Bel Ombre	Airtel	4.44 (MP1)			
-4.621300000	55.403100000	Bel Ombre (Dan Zil)	CWS		9.81 (MP2)		
-4.590417000	55.437465000	Sorento	Airtel		8.43 (MP4)		
-4.600722220	55.437352780	La Batie (Mare Anglaise)	Airtel		7.88 (MP2)		
-4.604778000	55.461940000	Perseverance	Airtel	3.7 (MP2)			
-4.617869000	55.457500000	Espace Building (Hospital Opposite)	Airtel		14.7 (ES1-MP1)		
-4.601430560	55.455877780	Ma Constance	Airtel		13.16 (MP1)		
-4.615728000	55.450011000	Mt Buxton	Airtel				61.71 (MP4)
-4.620000000	55.454094000	SACOS Tower	CWS	4.88 (MP4)			
-4.623697000	55.453815000	Victoria (Stad Popiler)	Airtel		7.36 (MP1)		
-4.623400000	55.454000000	Central Bank Seychelles	CWS			22.27 (MP2)	
-4.621700000	55.449300000	Dr. Chetty Clinic	Airtel		11.46 (MP4)		
-4.632000000	55.455600000	Seychelles Hospital	CWS		10.11 (MP3)		
-4.631800000	55.453900000	Hermitage (SBC)	Airtel		6.95 (MP1)		
-4.638504000	55.463035000	Plaisance	Airtel	5.47 (MP1)			
-4.642780000	55.459210000	Copolia	Airtel	4.11 (MP2)			
-4.635800000	55.471300000	Roche Caiman (RC1)	Airtel	5.36 (MP2)			
-4.632800000	55.467700000	Roche Caiman (RC2)	CWS	5.45 (MP2)			
-4.651300000	55.484165000	Sunshine House	CWS		11.96 (MP2)		
-4.670743000	55.510394000	Airport Car Park/domestic terminal	Airtel		9.73 (MP2)		
-4.671600000	55.513042000	Airport main terminal	CWS		11.71 (MP2)		
-4.649816000	55.399089000	Port Launay	Airtel	2.31 (MP2)			
-4.326250000	55.714388890	Grand Anse	Airtel	3.39 (MP3)			
-4.351849000	55.766349000	Pt. Cabris	Airtel		8.12 (MP3)		
-4.353130000	55.827330000	Anse Reunion	Airtel	2.3 (MP1)			
-4.352900000	55.826500000	Anse Reunion (CWS)	CWS	2.59 (MP2)			

Table 6 – Highest EMF Exposure results (Electric field strength in % of the ICNIRP 98 reference level)



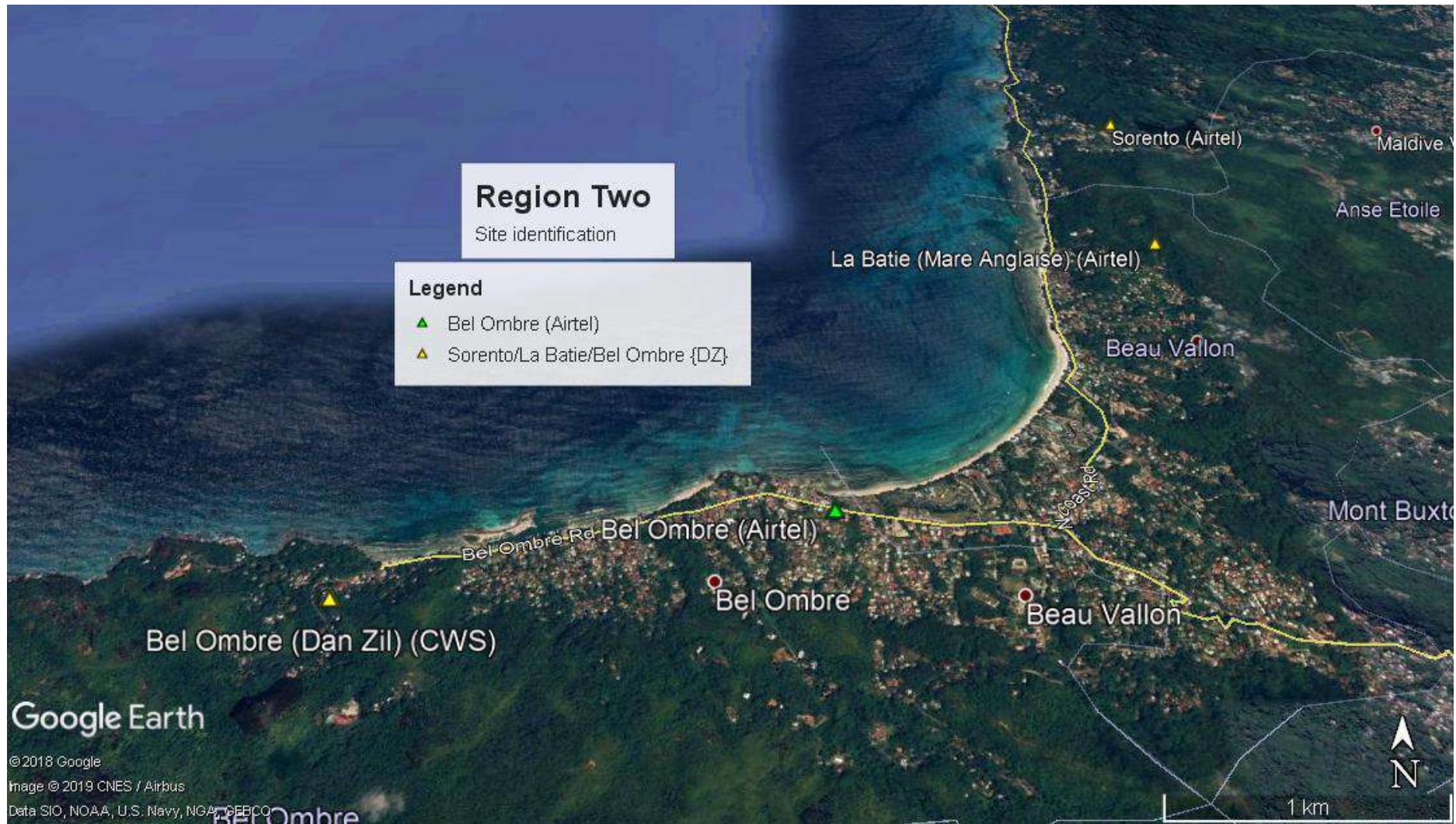
## 5.1 Google Earth images per measurement region

### 5.1.1 Region One



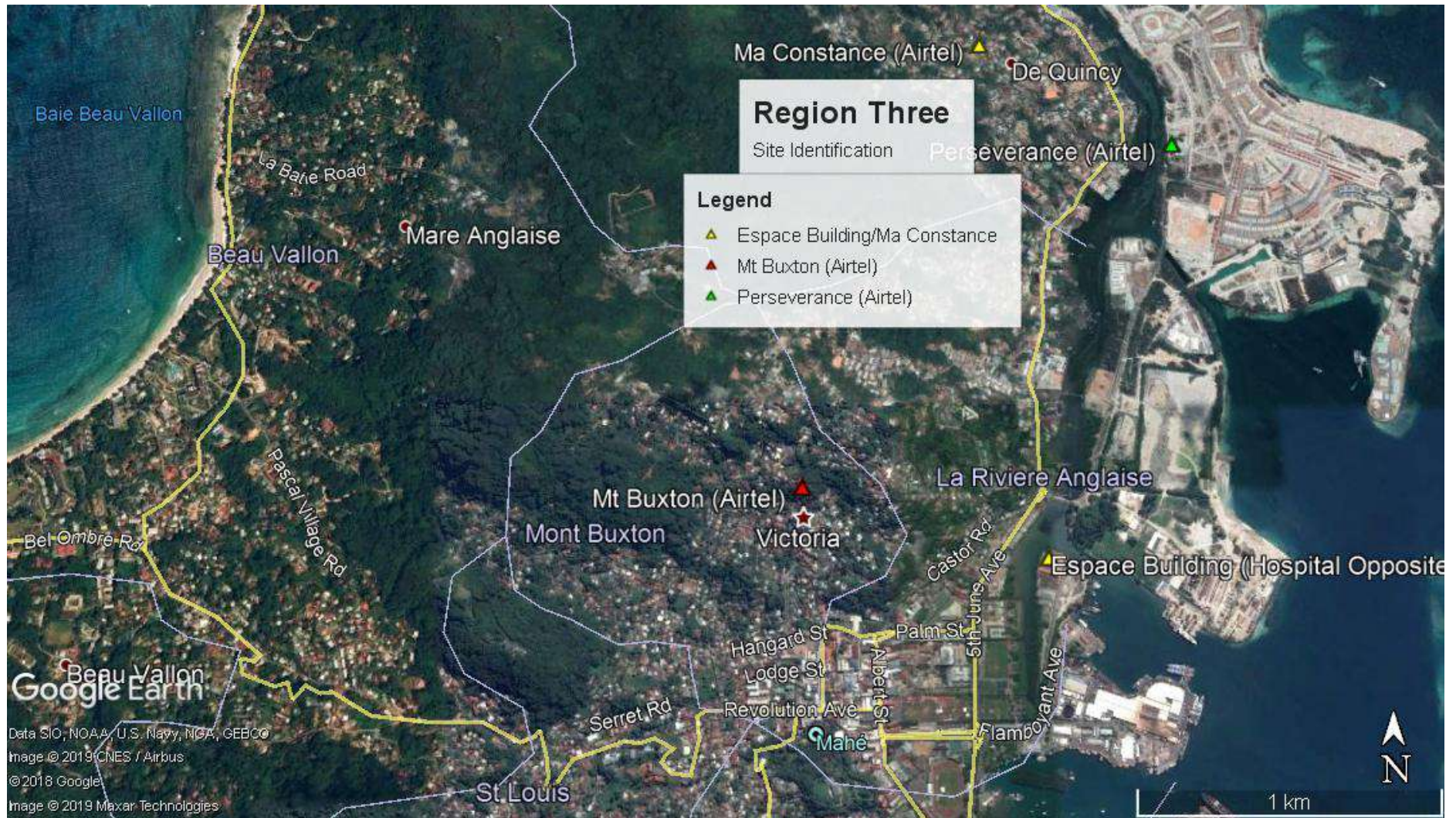


### 5.1.2 Region Two



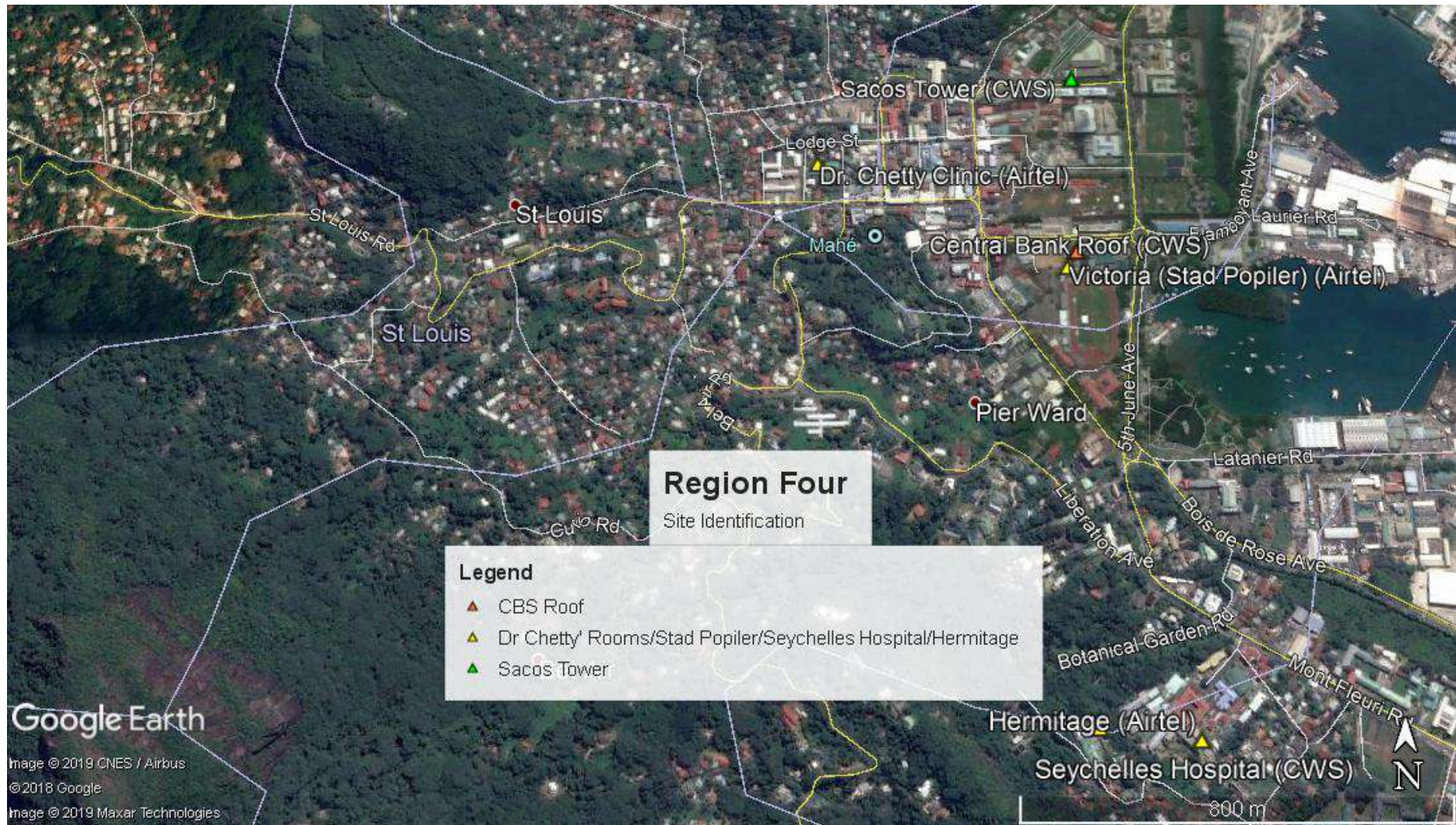


### 5.1.3 Region Three



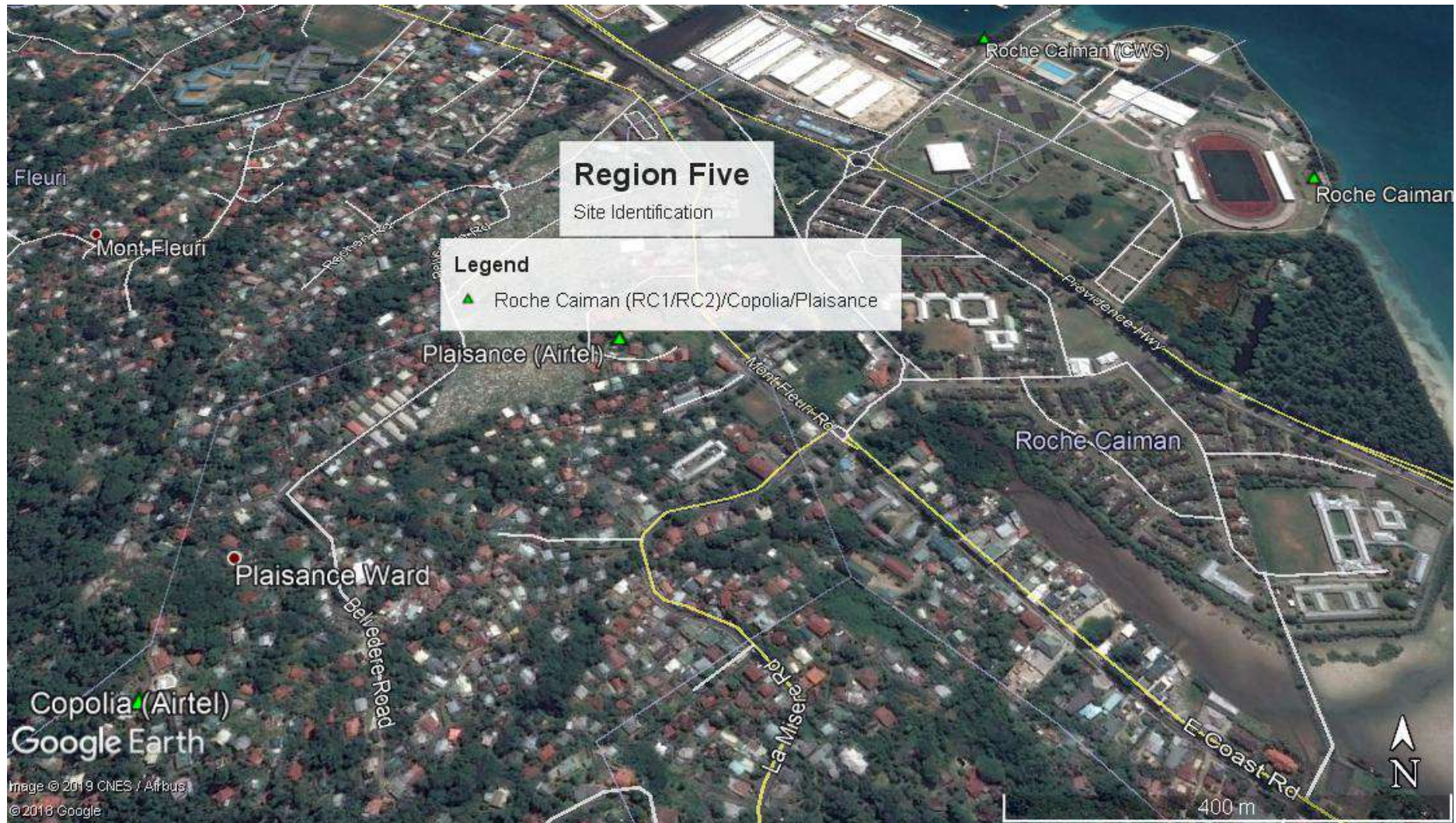


### 5.1.4 Region Four





### 5.1.5 Region Five



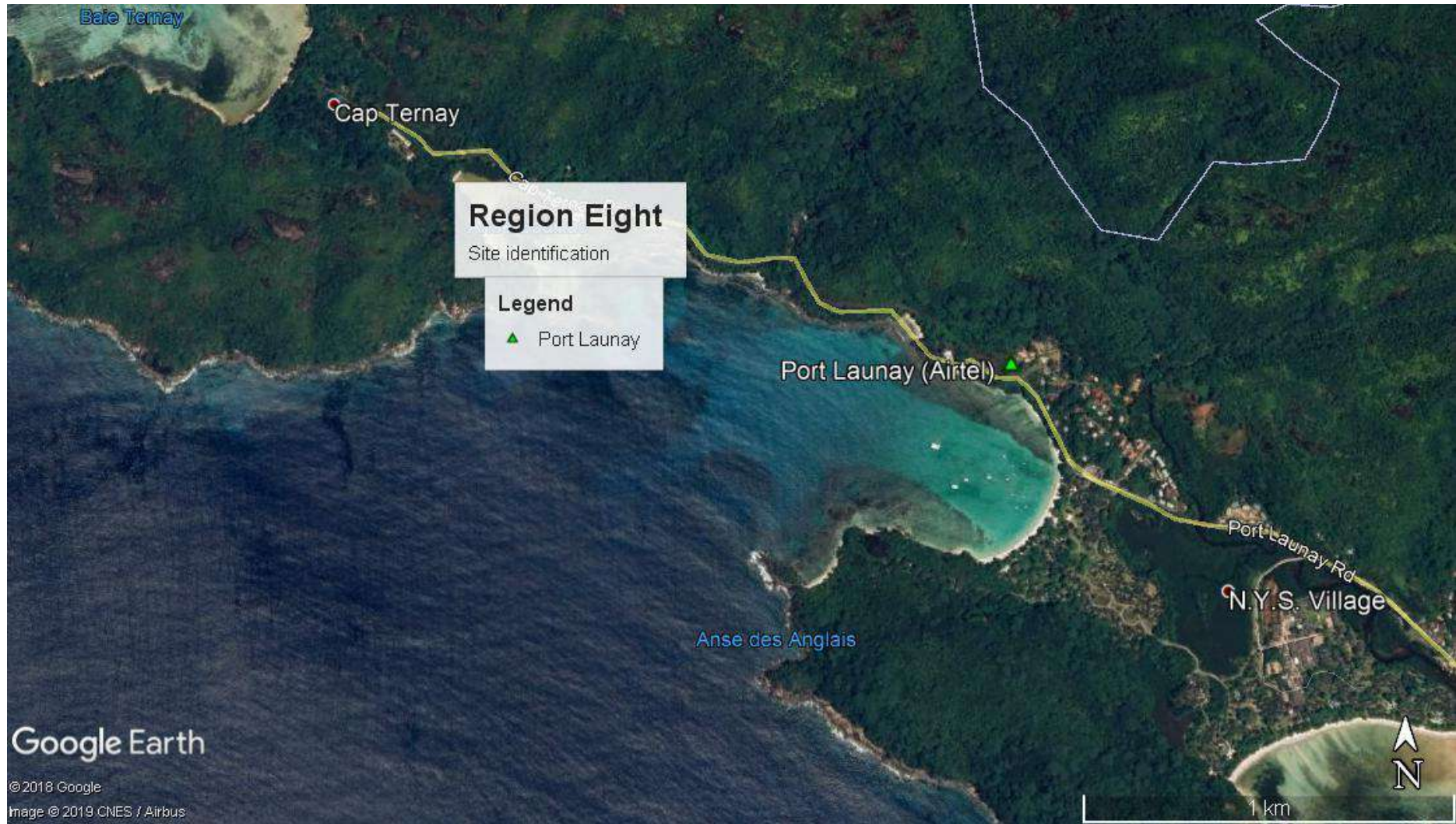


### 5.1.6 Region Six





### 5.1.7 Region Eight





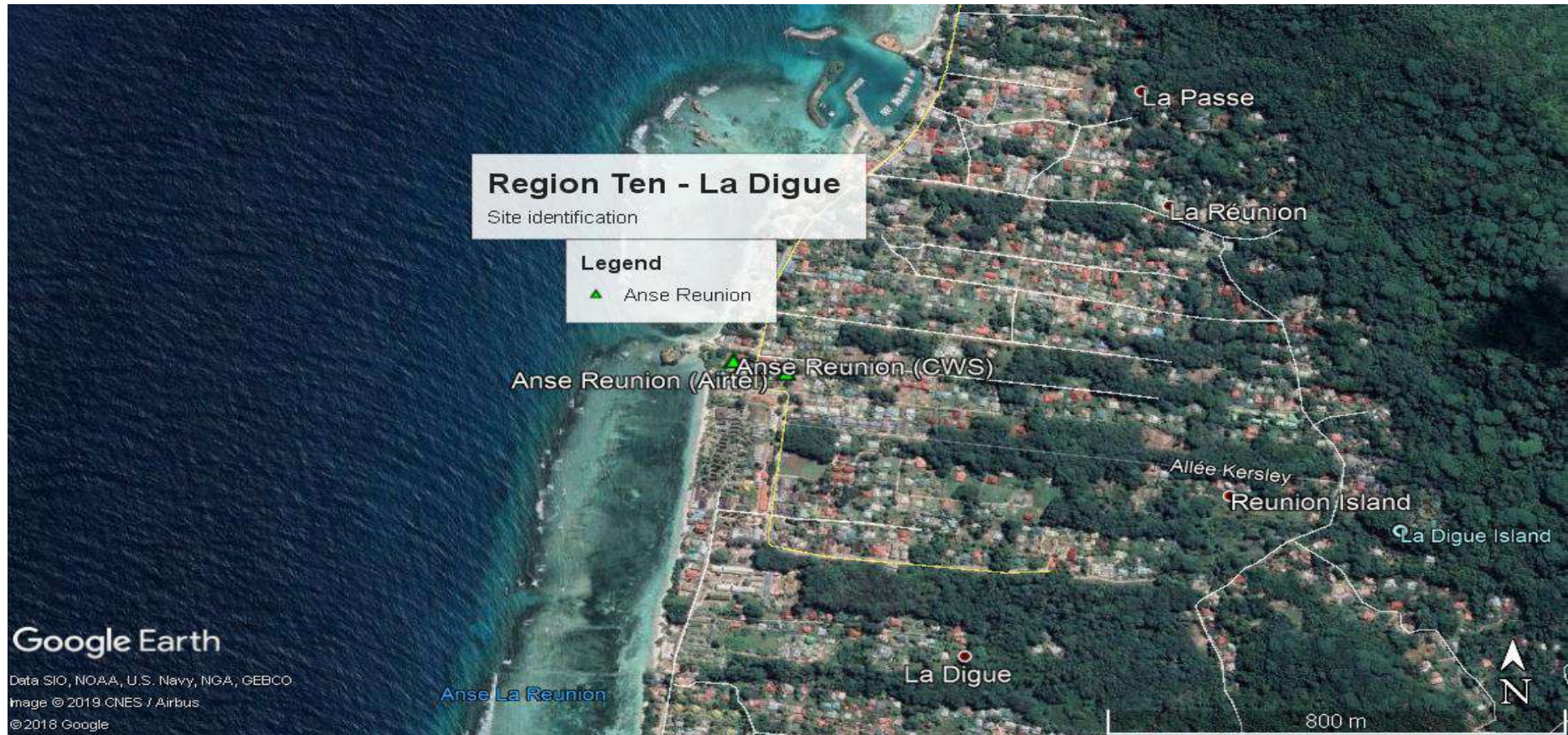
## 5.1.8 Region Ten

### 5.1.8.1 Praslin





### 5.1.8.2 La Digue





## 6 Appendices

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**6.1 Appendix A1 - Identification of the measurement points (per the WebGIS portal) and photos of the measurement point locations.**

### 6.1.1 Machabee Hill (CWS)



Figure 1 - Machabee Hill: measurement points (WebGIS)



Figure 2 - Machabee Hill: as identified from MP1 and MP2 locations



Figure 3 - Machabee Hill: MP2 location (adjacent property)



### 6.1.2 Carana Hill (CWS)



Figure 4 - Carana Hill: measurement point (WebGIS)



Figure 5 - Carana Hill: MP1 location

### 6.1.3 North East Point (Airtel)



Figure 6 – North East Point: measurement points (WebGIS)



Figure 7 – North East Point: At MP1 location





Figure 8 – North East Point: At MP2 location

#### 6.1.4 Villa Fond de Lianes



Figure 9 – Villa Fond de Lianes: measurement points (WebGIS)



Figure 10 – Villa Fond de Lianes: MP1 location





Figure 11 – Villa Fond de Lianes: MP2 location (behind base station)

### 6.1.5 Bel Ombre (Airtel)



Figure 12 - Bel Ombre: measurement points (WebGIS)

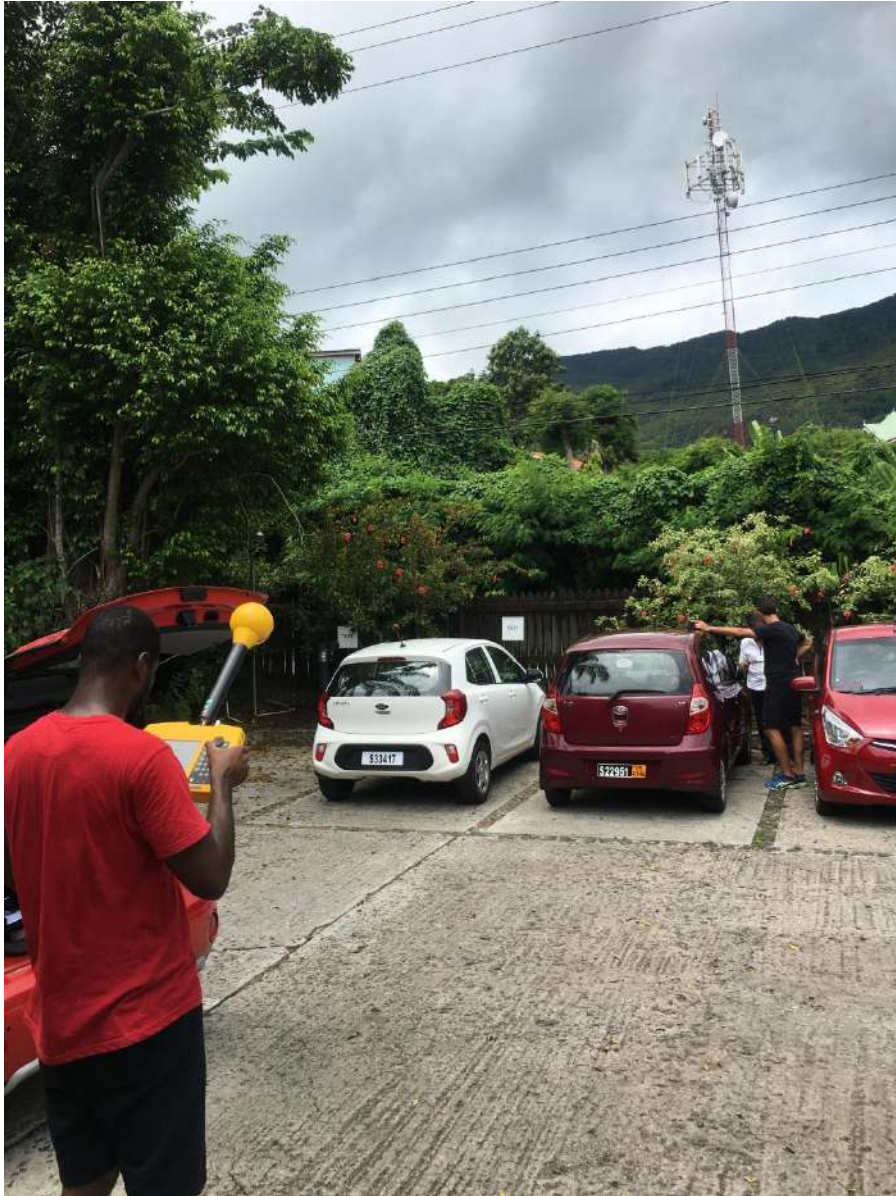


Figure 13 – Bel Ombre – MP2 location (Le Méridien Fisherman's Cove)



### 6.1.6 Bel Ombre (Dan Zil) (CWS)



Figure 14 - Bel Ombre (DZ): measurement points (WebGIS)



Figure 15 – Bel Ombre (DZ): MP1 location





Figure 16 - Bel Ombre (DZ): MP2 location

### 6.1.7 Sorento (Airtel)

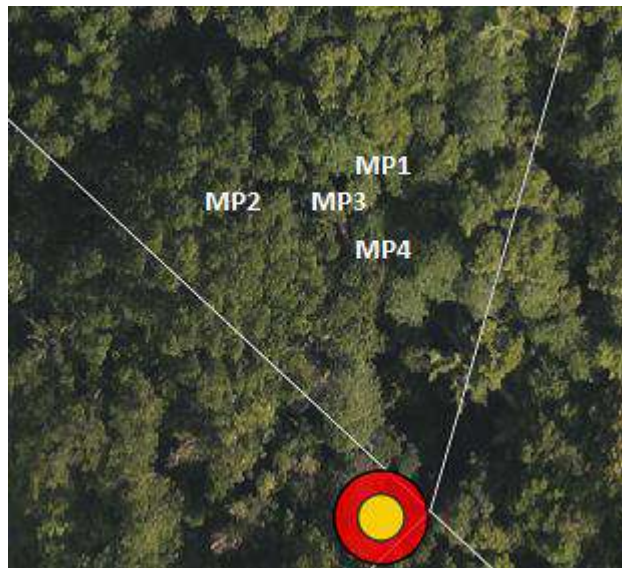


Figure 17 – Sorento: measurement points (WebGIS)



Figure 18 – Sorento: view of base station





Figure 19 - Sorrento: MP1 location (top floor)

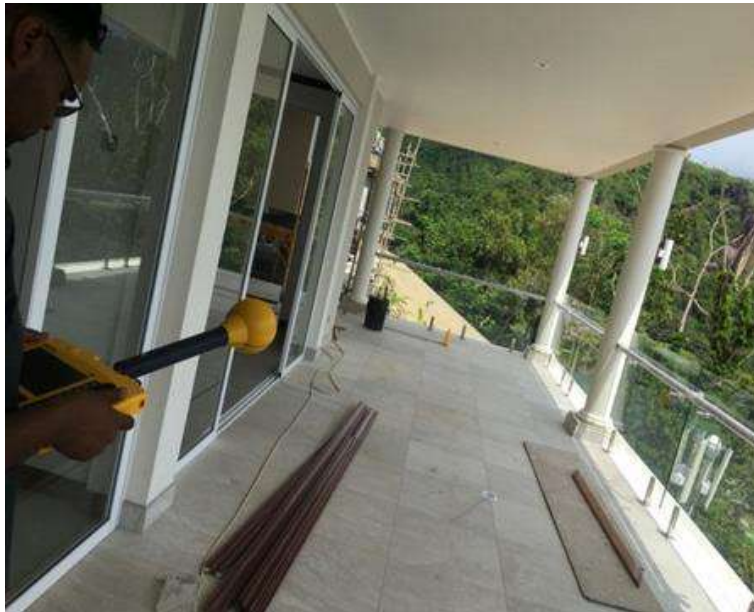


Figure 20 - Sorrento: MP2 location (lower level)





Figure 21 – Sorento: MP3 location (sub-basement)



Figure 22 – Sorento: MP4 location (ground level)

### 6.1.8 La Batie (Airtel)



Figure 23 - La Batie: measurement points (WebGIS)





Figure 24 - La Batie: view of base station from MP1



Figure 25 - La Batie: MP1 location



Figure 26 - La Batié: MP2 location



### 6.1.9 Perseverance (Airtel)



Figure 27 - Perseverance: measurement points (WebGIS)



Figure 28 - Perseverance: MP1 location



Figure 29 - Perseverance: viewed from MP2 location



### 6.1.10 Espace building (Airtel)

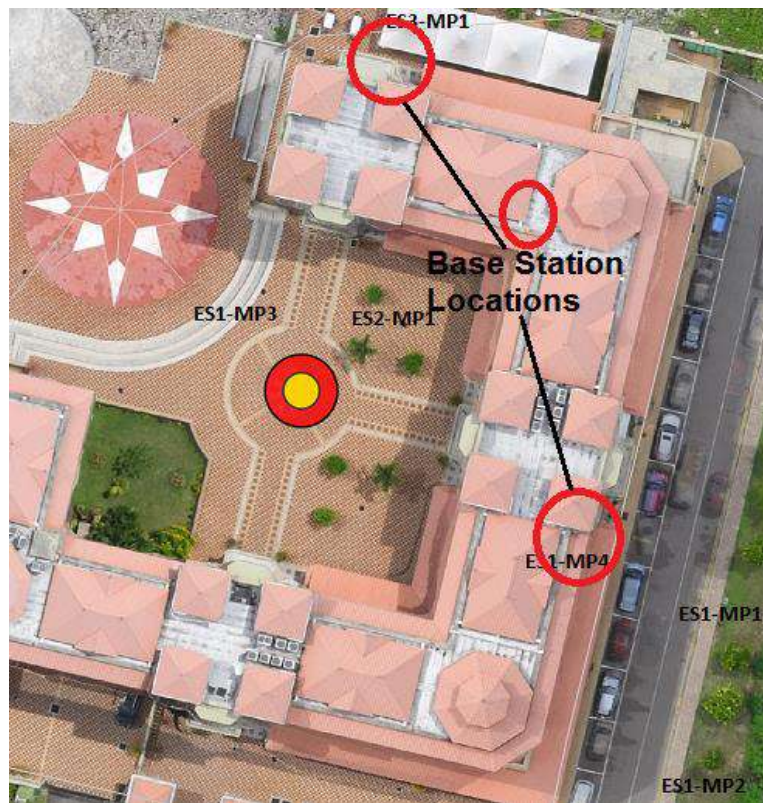


Figure 30 - Espace building: measurement points (WebGIS)



Figure 31 - Espace: sector antenna viewed from ES2/MP1 and ES1/MP3 respectively.



Figure 32 - Espace: sector antenna as seen from ES1/MP1 and ES1/MP2 respectively.



Figure 33 - Espace: ES1/MP3 location





Figure 34 – Espace: ES3/MP1 location.



Figure 35 – Espace: ES1/MP4 location

### 6.1.11 Ma Constance (Airtel)



Figure 36 - Ma Constance: measurement points (WebGIS)



Figure 37 - Ma Constance: base station infrastructure



Figure 38 - Ma Constance: as seen from MP1/MP2



Figure 39 - Ma Constance: at MP1 location



### 6.1.12 Mt. Buxton (Airtel)

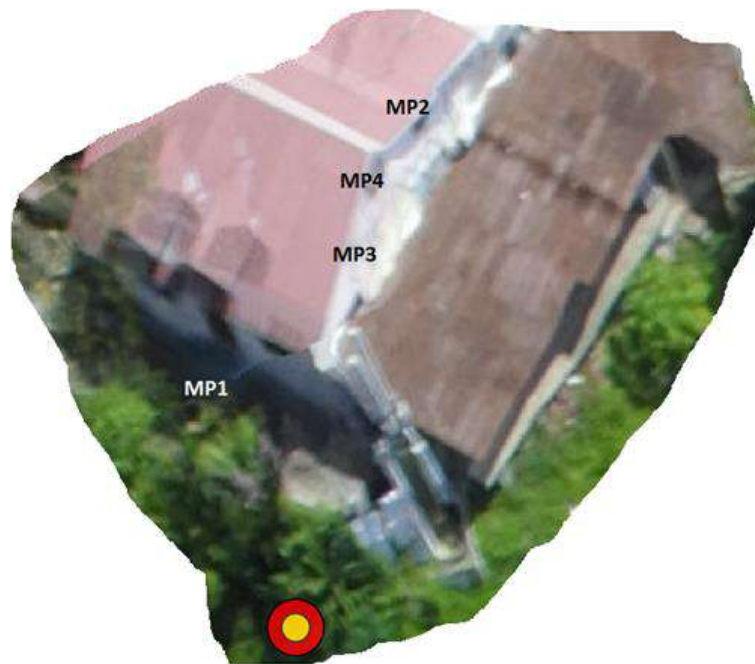


Figure 40 - Mt. Buxton: measurement points (WebGIS)



Figure 41 - Mt. Buxton: proximity of base station to MP1





Figure 42 - Mt. Buxton: base station infrastructure at MP1



Figure 43 - Mt. Buxton: proximity to base station at MP2 (lounge window)



Figure 44 - Mt. Buxton: MP3 location (bedroom)



Figure 45 - Mt. Buxton: MP4 location (inside loft)

### 6.1.13 SACOS Tower (CWS)

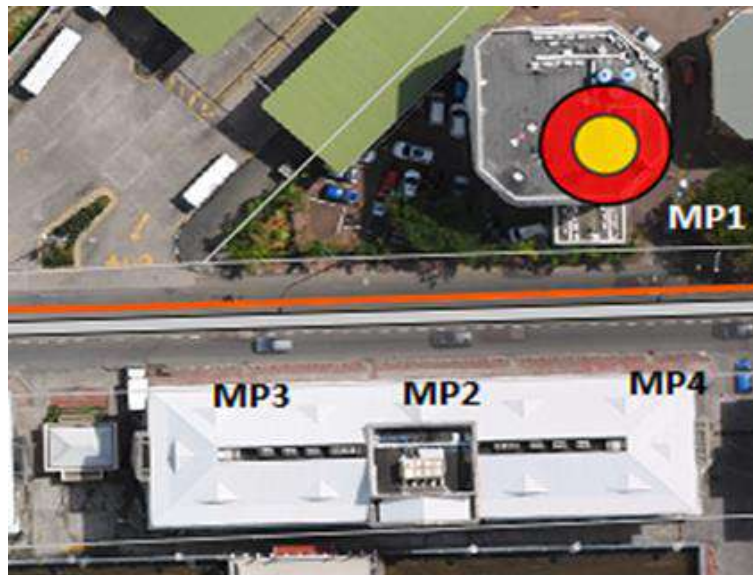


Figure 46 - SACOS Tower: measurement points (WebGIS)



Figure 47 - SACOS: MP4 location





Figure 48 - SACOS Tower: base station view from MP2-MP4





Figure 49 - SACOS: MP2/MP3 locations

### 6.1.14 Stad Popiler and Central Bank Building (Airtel/CWS)



Figure 50 - Stad Popiler terrain: measurement points (WebGIS)



Figure 51 - CBS building: measurement points (WebGIS)



Figure 52 - CBS (CWS): base station identification



Figure 53 - Stad Popiler (Airtel): MP1 location



Figure 54 - CBS (CWS): MP2 location





Figure 55 - CBS (CWS): MP3 location



Figure 56 - CBS (Airtel): MP4/MP5 locations



Figure 57 – Stad Popiler: MP6 location

### 6.1.15 Dr. Chetty's Rooms (Airtel)



Figure 58 – Dr. Chetty's Rooms: measurement points (WebGIS)



Figure 59 – Dr Chetty: identification of base station



Figure 60 – Dr Chetty: MP1 location (at pre-school/crèche –on balcony)



Figure 61 – Dr. Chetty: MP2 location (at pre-school – inside classroom)





Figure 62 – Dr. Chetty: MP3 location (outside pre-school)



Figure 63 – Dr. Chetty: MP4 location (below base station)



Figure 64 - Dr. Chetty: MP5 location

### 6.1.16 Seychelles Main Hospital (CWS) and SBC Hermitage (Airtel)



Figure 65 - Seychelles main hospital: measurement points (WebGIS)



Figure 66 – Seychelles main hospital: identification of base station





Figure 67 – Seychelles main hospital: MP1 location



Figure 68 – Seychelles main hospital: MP2 location





Figure 69 – Seychelles main hospital: Hermitage (SBC) base station location



Figure 70 – Seychelles main hospital: MP3 location



Figure 71 - SBC Hermitage measurement point (WebGIS)



Figure 72 – Hermitage (SBC): identification of base station



Figure 73 – Hermitage (SBC): MP1 location



### 6.1.17 Plaisance (Airtel)



Figure 74 - Plaisance measurement points (WebGIS)



Figure 75 – Plaisance: MP1 location





Figure 76 – Plaisance: identification of base station



Figure 77 – Plaisance: at MP2 location

6.1.18 Copolia (Airtel)



Figure 78 – Copolia: measurement points (WebGIS)

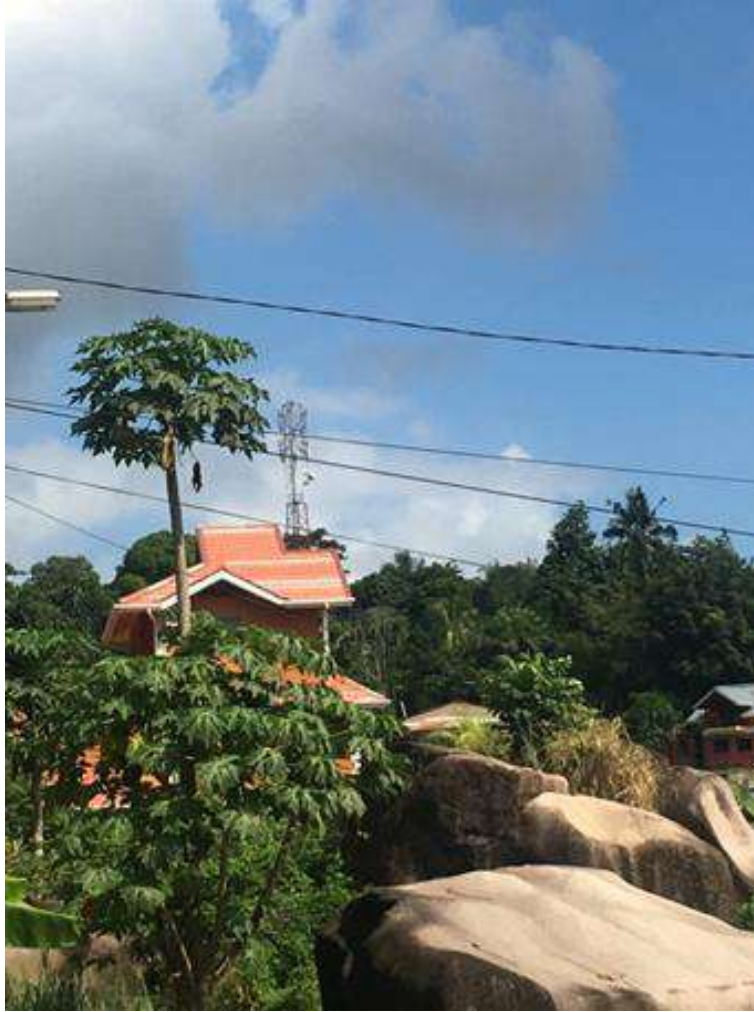


Figure 79 – Copolia: MP1 location





Figure 80 – Copolia: identification of base station



Figure 81 – Copolia: MP2 location



Figure 82 – Copolia: MP3 location



6.1.19 Roche Caiman (CWS/Airtel)

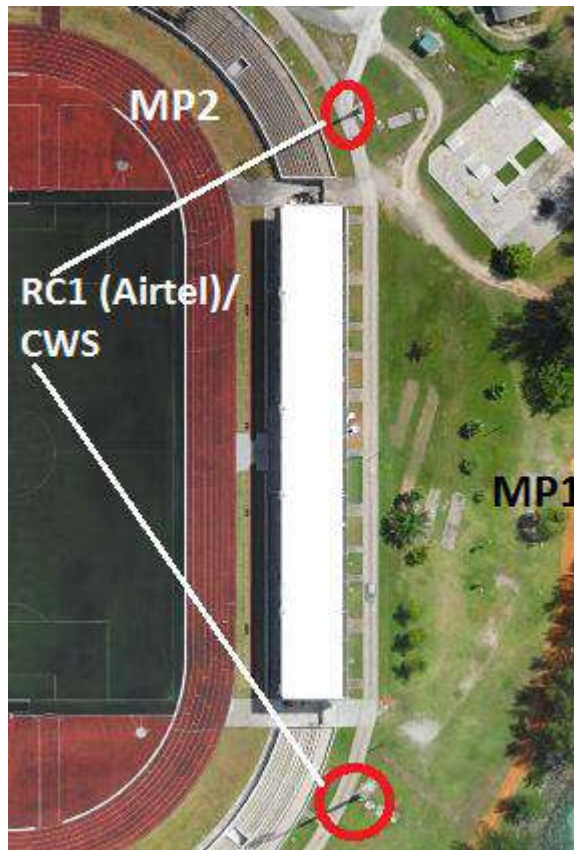


Figure 83 – Roche Caiman (RC1): measurement points (WebGIS)



Figure 84 – Roche Caiman (RC2): measurement points (WebGIS)



Figure 85 – Roche Caiman (RC1): MP1 location



Figure 86 – Roche Caiman (RC1): MP2 location



Figure 87 – Roche Caiman (RC2): MP1 location (next to PUC)



Figure 88 – Roche Caiman (RC2): MP2 location



## 6.1.20 Sunshine House (CWS)



Figure 89 – Sunshine House: measurement points (WebGIS)



Figure 90 – Sunshine House: MP1 location





Figure 91 – Sunshine House: identification of base station at MP1



Figure 92 – Sunshine House: identification of base station at MP2



Figure 93 – Sunshine House: MP2 location

### 6.1.21 Seychelles International Airport (CWS/Airtel)



Figure 94 – Seychelles Int. Airport (main terminal): measurement points (WebGIS)



Figure 95 – Seychelles Int. Airport: MP1 location





Figure 96 – Seychelles Int. Airport: MP2 location



Figure 97 – Seychelles Int. Airport: identification of base station



Figure 98 – Seychelles Int. Airport: MP3 location



Figure 99 – Seychelles Int. Airport: MP4 location



Figure 100 – Seychelles Int. Airport (Domestic terminal): measurement points (WebGIS)



Figure 101 – Seychelles Int. Airport: MP1 location





Figure 102 – Seychelles Int. Airport: MP2 location

### 6.1.22 Port Launay (Airtel)



Figure 103 – Port Launay: measurement points (WebGIS)



Figure 104 – Port Launay: at MP1 location



Figure 105 – Port Launay: identification of base station



Figure 106 – Port Launay: MP2 location



6.1.23 Grand Anse (Praslin – CWS/Airtel)



Figure 107 – Grand Anse: measurement points (WebGIS)



Figure 108 – Grand Anse: MP1 location (Airtel)



Figure 109 – Grand Anse: MP2 location (CWS)





Figure 110 – Grand Anse: MP3 location (Airtel)



Figure 111 – Grand Anse: identification of base station (Airtel)





Figure 112 – Grand Anse: base station (Airtel) adjacent to MP4 location



Figure 113 – Grand Anse: MP4 location

6.1.24 Pt. Cabris (Praslin – CWS/Airtel)



Figure 114 – Port Cabris: measurement points (WebGIS)



Figure 115 – Port Cabris: identification of base station (CWS)



Figure 116 – Port Cabris: identification of base station (Airtel)





Figure 117 – Port Cabris: MP1 location



Figure 118 – Port Cabris: MP2 thru MP4 location/s

6.1.25 Anse Reunion (La Digue – CWS/Airtel)



Figure 119 – Reunion: measurement points (WebGIS)



Figure 120 – Reunion: identification of base station (CWS)





Figure 121 – Reunion: identification of base station (Airtel)



Figure 122 – Reunion: MP1 location





Figure 123 – Reunion: MP2 location

## 6.2 Appendix A2 – Result Tables

Column	Description
1	Frequency/channel number of the signalization channel
2	Scrambling code (Cell ID) for UMTS (3G) and LTE (4G) services.
3	Name of operator and measurement point {MP} number.
4	Reference level for this frequency in V/m (according to ICNIRP 98)
5	Measured field strength of BCCH (GSM)/ CPICH (UMTS) or RS (LTE) signals expressed in dB $\mu$ V/m Remark: The BCCH values were only used for the GSM measurements. .
6	Measurement uncertainty in dB (if uncertainty is not added, its value would be set to 0)
7	Factors for extrapolation of maximal exposure: <ul style="list-style-type: none"> <li>• For GSM – this corresponds to an extrapolation figure as based upon the number of radio channels assigned to a given cell. As the information was not provided – we assumed a factor of 6dB be applied throughout. The factor stated in the tables is converted automatically through the formula <math>10 \log (4)</math> in column 8.</li> <li>• For UMTS - an extrapolation of the CPICH power to the maximal channel power is carried out. We assigned a factor of 10 in this regard.</li> <li>• For LTE – it is the ratio of the maximum power of the transmitter divided by the power of the reference signals (RS). We assigned a factor of 600 in this regard and is equal to the number of sub-carriers.</li> </ul>
8	Maximal exposure in dB $\mu$ V/m: $\langle \text{Column 8} \rangle = \langle \text{Column 5} \rangle + \langle \text{Column 6} \rangle + 10 \cdot \log \langle \text{Column 7} \rangle$
9	Conversion from dB $\mu$ V/m to V/m.
10	Maximal exposure in percentage of the reference level: $\langle \text{Column 10} \rangle = 100 \% \cdot \langle \text{Column 9} \rangle / \langle \text{Column 4} \rangle$
11	Maximal exposure as power flux density in mW/m <sup>2</sup> .

## 6.2.1 Machabee Hill (CWS)

**Location:** Machabee Hill  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE+DTT  
**Date:** 2019/04/09

**Time:** 11:05 - 11:30  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	86.67	3	4	95.7	0.06	0.14	0.01	GSM-900
		Airtel	42.5	82.77	3	4	91.8	0.04	0.09	0.00	GSM-900
		CWS	42.1	109.75	3	4	118.8	0.87	2.06	2.00	GSM-900
		CWS	42.1	101.12	3	4	110.1	0.32	0.76	0.27	GSM-900
		CWS	42.1	103.48	3	4	112.5	0.42	1.00	0.47	GSM-900
		Airtel	42.4	87.13	3	10	100.1	0.10	0.24	0.03	UMTS
		Airtel	42.4	83.17	3	10	96.2	0.06	0.15	0.01	UMTS
		Airtel	61.0	82.01	3	10	95.0	0.06	0.09	0.01	UMTS
		Airtel	61.0	81.48	3	10	94.5	0.05	0.09	0.01	UMTS
		CWS	61.0	104.21	3	10	117.2	0.73	1.19	1.40	UMTS
		CWS	61.0	94.03	3	10	107.0	0.22	0.37	0.13	UMTS
		CWS	61.0	85.09	3	10	98.1	0.08	0.13	0.02	UMTS
		CWS	59.5	85.18	3	600	116.0	0.63	1.06	1.05	LTE
		SBC	30.2	99.61	3	1	102.6	0.14	0.45	0.05	DTT
								<b>1.43</b>	<b>2.97</b>	<b>5.45</b>	



Location: Machabee Hill  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE+DTT  
 Date: 2019/04/09

Time: 11:05 - 11:30  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	80.97	3	4	90.0	0.03	0.07	0.00	GSM-900
		Airtel	42.5	90.00	3	4	99.0	0.09	0.21	0.02	GSM-900
		CWS	42.1	114.30	3	4	123.3	1.47	3.48	5.70	GSM-900
		CWS	42.1	109.00	3	4	118.0	0.80	1.89	1.68	GSM-900
		CWS	42.1	105.48	3	4	114.5	0.53	1.26	0.75	GSM-900
		Airtel	42.4	86.25	3	10	99.3	0.09	0.22	0.02	UMTS
		Airtel	42.4	81.45	3	10	94.5	0.05	0.12	0.01	UMTS
		Airtel	61.0	82.01	3	10	95.0	0.06	0.09	0.01	UMTS
		Airtel	61.0	80.84	3	10	93.8	0.05	0.08	0.01	UMTS
		CWS	61.0	99.41	3	10	112.4	0.42	0.68	0.46	UMTS
		CWS	61.0	86.98	3	10	100.0	0.10	0.16	0.03	UMTS
		CWS	59.5	81.12	3	600	111.9	0.39	0.66	0.41	LTE
		SBC	30.2	99.35	3	1	102.35	0.13	0.43	0.05	DTT
								<b>1.86</b>	<b>4.30</b>	<b>9.14</b>	

## 6.2.2 Carana Hill (CWS)

Location: Carana Hill  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/09

Time: 14:00 - 14:30  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	110.85	3	4	119.9	0.99	2.32	2.57	GSM-900
		Airtel	42.5	107.51	3	4	116.5	0.67	1.58	1.19	GSM-900
		Airtel	42.5	101.14	3	4	110.2	0.32	0.76	0.28	GSM-900
		CWS	42.1	104.15	3	4	113.2	0.46	1.08	0.55	GSM-900
		CWS	42.1	112.08	3	4	121.1	1.14	2.70	3.42	GSM-900
		CWS	42.0	100.00	3	4	109.0	0.28	0.67	0.21	GSM-900
		Airtel	42.4	106.15	3	10	119.2	0.91	2.14	2.18	UMTS
		Airtel	42.4	108.28	3	10	121.3	1.16	2.73	3.56	UMTS
		Airtel	42.4	99.15	3	10	112.2	0.41	0.96	0.44	UMTS
		Airtel	61.0	105.76	3	10	118.8	0.87	1.42	1.99	UMTS
		Airtel	61.0	101.35	3	10	114.4	0.52	0.86	0.72	UMTS
		Airtel	61.0	103.19	3	10	116.2	0.64	1.06	1.10	UMTS
		CWS	61.0	105.76	3	10	118.8	0.87	1.42	1.99	UMTS
		CWS	61.0	101.35	3	10	114.4	0.52	0.86	0.72	UMTS
		CWS	61.0	97.17	3	10	110.2	0.32	0.53	0.28	UMTS
		CWS	61.0	103.19	3	10	116.2	0.64	1.06	1.10	UMTS
		CWS	39.0	87.53	3	600	118.3	0.82	2.11	1.80	LTE
		CWS	39.0	105.84	3	600	136.6	6.78	17.36	121.85	LTE
		Airtel	39.3	90.66	3	600	121.4	1.18	3.01	3.70	LTE
		Airtel	39.3	83.13	3	600	113.9	0.50	1.26	0.65	LTE
		Airtel	39.3	88.86	3	600	119.6	0.96	2.44	2.44	LTE
								<b>7.59</b>	<b>19.00</b>	<b>152.75</b>	

### 6.2.3 North East Point (Airtel)

Location: North East Point  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/09

Time: 14:55 - 15:47  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]
Point No.		MP1								
		Airtel	42.5	110.96	3	4	120.0	1.00	2.35	2.64
		Airtel	42.5	100.53	3	4	109.6	0.30	0.71	0.24
		CWS	42.1	100.00	3	4	109.0	0.28	0.67	0.21
		Airtel	42.4	100.95	3	10	114.0	0.50	1.18	0.66
		Airtel	42.4	100.11	3	10	113.1	0.45	1.07	0.54
		Airtel	42.4	84.58	3	10	97.6	0.08	0.18	0.02
		Airtel	61.0	102.43	3	10	115.4	0.59	0.97	0.93
		Airtel	61.0	100.23	3	10	113.2	0.46	0.75	0.56
		Airtel	61.0	91.41	3	10	104.4	0.17	0.27	0.07
		Airtel	61.0	93.11	3	10	106.1	0.20	0.33	0.11
		Airtel	61.0	103.16	3	10	116.2	0.64	1.05	1.10
		Airtel	61.0	100.75	3	10	113.8	0.49	0.80	0.63
		CWS	61.0	92.37	3	10	105.4	0.19	0.30	0.09
		CWS	61.0	92.62	3	10	105.6	0.19	0.31	0.10
		Airtel	39.3	81.25	3	600	112.0	0.40	1.02	0.42
								<b>1.77</b>	<b>3.70</b>	<b>8.31</b>

GSM-900  
 GSM-900  
 GSM-900  
 UMTS  
 UMTS  
 UMTS  
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 UMTS  
 LTE



**Location:** North East Point  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/09

**Time:** 14:55 - 15:47  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX400M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	105.33	3	4	114.4	0.52	1.23	0.72	GSM-900
		Airtel	42.5	113.01	3	4	122.0	1.26	2.97	4.23	GSM-900
		CWS	42.1	90.00	3	4	99.0	0.09	0.21	0.02	GSM-900
		Airtel	42.4	96.67	3	10	109.7	0.30	0.72	0.25	UMTS
		Airtel	42.4	92.88	3	10	105.9	0.20	0.46	0.10	UMTS
		Airtel	42.4	93.49	3	10	106.5	0.21	0.50	0.12	UMTS
		Airtel	61.0	106.86	3	10	119.9	0.98	1.61	2.57	UMTS
		Airtel	61.0	95.58	3	10	108.6	0.27	0.44	0.19	UMTS
		Airtel	61.0	107.17	3	10	120.2	1.02	1.67	2.76	UMTS
		Airtel	61.0	96.56	3	10	109.6	0.30	0.49	0.24	UMTS
		CWS	61.0	80.17	3	10	93.2	0.05	0.07	0.01	UMTS
							<b>2.06</b>		<b>4.15</b>	<b>11.21</b>	

## 6.2.4 Villa Fond de Lianes (Airtel)

**Location:** Villa Fond de Lianes  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/09

**Time:** 11:40 - 12:15  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	105.28	3	4	114.3	0.52	1.22	0.71	GSM-900
		Airtel	42.5	108.87	3	4	117.9	0.78	1.85	1.63	GSM-900
		Airtel	42.4	101.89	3	10	114.9	0.56	1.31	0.82	UMTS
		Airtel	42.4	95.61	3	10	108.6	0.27	0.64	0.19	UMTS
		Airtel	42.4	91.88	3	10	104.9	0.18	0.41	0.08	UMTS
		Airtel	61.0	101.53	3	10	114.5	0.53	0.87	0.75	UMTS
		Airtel	61.0	97.81	3	10	110.8	0.35	0.57	0.32	UMTS
		Airtel	61.0	87.98	3	10	101.0	0.11	0.18	0.03	UMTS
		Airtel	61.0	101.93	3	10	114.9	0.56	0.91	0.83	UMTS
		Airtel	61.0	97.98	3	10	111.0	0.35	0.58	0.33	UMTS
		Airtel	61.0	89.46	3	10	102.5	0.13	0.22	0.05	UMTS
		Airtel	39.3	93.40	3	600	124.2	1.62	4.12	6.95	LTE
		Airtel	39.3	88.34	3	600	119.1	0.90	2.30	2.17	LTE
								<b>2.37</b>	<b>5.64</b>	<b>14.86</b>	

Location: Villa Fond de Lianes  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/09

Time: 11:40 - 12:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	101.40	3	4	110.4	0.33	0.78	0.29	GSM-900
		Airtel	42.5	113.91	3	4	122.9	1.40	3.30	5.21	GSM-900
		CWS	42.1	93.74	3	4	102.8	0.14	0.33	0.05	GSM-900
		CWS	42.1	83.06	3	4	92.1	0.04	0.10	0.00	GSM-900
		Airtel	42.4	101.60	3	10	114.6	0.54	1.27	0.76	UMTS
		Airtel	42.4	100.82	3	10	113.8	0.49	1.16	0.64	UMTS
		Airtel	42.4	93.60	3	10	106.6	0.21	0.50	0.12	UMTS
		Airtel	61.0	108.23	3	10	121.2	1.15	1.89	3.52	UMTS
		Airtel	61.0	97.60	3	10	110.6	0.34	0.56	0.30	UMTS
		Airtel	61.0	91.70	3	10	104.7	0.17	0.28	0.08	UMTS
		Airtel	61.0	101.90	3	10	114.9	0.56	0.91	0.82	UMTS
		Airtel	61.0	98.00	3	10	111.0	0.35	0.58	0.33	UMTS
		Airtel	61.0	89.50	3	10	102.5	0.13	0.22	0.05	UMTS
		Airtel	39.3	85.90	3	600	116.7	0.68	1.74	1.24	LTE
		Airtel	39.3	80.20	3	600	111.0	0.35	0.90	0.33	LTE
		Airtel	39.3	86.01	3	600	116.8	0.69	1.76	1.27	LTE
								<b>2.38</b>	<b>5.19</b>	<b>15.02</b>	



## 6.2.5 Bel Ombre

**Location:** Bel Ombre  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/08

**Time:** 11:13 - 11:58  
**Weather:** Partly cloudy, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	107.62	3	4	116.6	0.68	1.60	1.22	GSM-900
		Airtel	42.5	105.20	3	4	114.2	0.51	1.21	0.70	GSM-900
		Airtel	42.4	92.30	3	4	101.3	0.12	0.27	0.04	GSM-900
		Airtel	42.5	110.00	3	4	119.0	0.89	2.10	2.12	GSM-900
		CWS	42.1	83.50	3	4	92.5	0.04	0.10	0.00	GSM-900
		CWS	42.1	80.00	3	4	89.0	0.03	0.07	0.00	GSM-900
		Airtel	42.4	98.60	3	10	111.6	0.38	0.90	0.38	UMTS
		Airtel	42.4	93.80	3	10	106.8	0.22	0.52	0.13	UMTS
		Airtel	42.4	89.30	3	10	102.3	0.13	0.31	0.05	UMTS
		Airtel	61.0	106.50	3	10	119.5	0.94	1.55	2.36	UMTS
		Airtel	61.0	98.50	3	10	111.5	0.38	0.62	0.37	UMTS
		Airtel	61.0	87.30	3	10	100.3	0.10	0.17	0.03	UMTS
		Airtel	61.0	106.00	3	10	119.0	0.89	1.46	2.11	UMTS
		Airtel	61.0	98.50	3	10	111.5	0.38	0.62	0.37	UMTS
		Airtel	61.0	85.20	3	10	98.2	0.08	0.13	0.02	UMTS
		CWS	61.0	81.40	3	10	94.4	0.05	0.09	0.01	UMTS
		CWS	61.0	80.20	3	10	93.2	0.05	0.07	0.01	UMTS
		Airtel	39.3	86.00	3	600	116.8	0.69	1.76	1.26	LTE
		Airtel	39.3	83.00	3	600	113.8	0.49	1.24	0.63	LTE
								<b>2.11</b>	<b>4.44</b>	<b>11.82</b>	

Location: Bel Ombre  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/08

Time: 11:13 - 11:58  
 Weather: Partly cloudy, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max.emission	Emax [dBµV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	92.36	3	4	101.4	0.12	0.28	0.04	
		Airtel	42.5	87.50	3	4	96.5	0.07	0.16	0.01	
		Airtel	42.4	82.80	3	4	91.8	0.04	0.09	0.00	
		Airtel	42.5	87.50	3	4	96.5	0.07	0.16	0.01	
		Airtel	42.4	92.30	3	10	105.3	0.18	0.43	0.09	
		Airtel	42.4	83.93	3	10	96.9	0.07	0.17	0.01	
		Airtel	42.4	88.34	3	10	101.3	0.12	0.28	0.04	
		Airtel	61.0	98.50	3	10	111.5	0.38	0.62	0.37	
		Airtel	61.0	86.30	3	10	99.3	0.09	0.15	0.02	
		Airtel	61.0	89.40	3	10	102.4	0.13	0.22	0.05	
		Airtel	61.0	90.72	3	10	103.7	0.15	0.25	0.06	
		Airtel	61.0	97.50	3	10	110.5	0.33	0.55	0.30	
		Airtel	61.0	84.50	3	10	97.5	0.07	0.12	0.01	
									<b>0.62</b>	<b>1.12</b>	<b>1.02</b>

GSM-900  
 GSM-900  
 GSM-900  
 GSM-900  
 UMTS  
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## 6.2.6 Bel Ombre (Dan Zil) (CWS)

**Location:** Ben Ombre (Dan Zil)  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/08

**Time:** 10:05 - 10:45  
**Weather:** Partly cloudy, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	113.42	3	4	122.4	1.32	3.12	4.65	GSM-900
		Airtel	42.4	96.90	3	4	105.9	0.20	0.47	0.10	GSM-900
		Airtel	42.5	100.00	3	4	109.0	0.28	0.67	0.21	GSM-900
		CWS	42.1	109.13	3	4	118.2	0.81	1.92	1.73	GSM-900
		CWS	42.1	102.00	3	4	111.0	0.36	0.84	0.34	GSM-900
		CWS	42.1	87.00	3	4	96.0	0.06	0.15	0.01	GSM-900
		Airtel	42.4	104.87	3	10	117.9	0.78	1.85	1.62	UMTS
		Airtel	42.4	87.12	3	10	100.1	0.10	0.24	0.03	UMTS
		Airtel	42.4	86.00	3	10	99.0	0.09	0.21	0.02	UMTS
		Airtel	61.0	106.40	3	10	119.4	0.93	1.53	2.31	UMTS
		Airtel	61.0	92.60	3	10	105.6	0.19	0.31	0.10	UMTS
		Airtel	61.0	82.00	3	10	95.0	0.06	0.09	0.01	UMTS
		Airtel	61.0	104.60	3	10	117.6	0.76	1.24	1.53	UMTS
		Airtel	61.0	94.00	3	10	107.0	0.22	0.37	0.13	UMTS
		Airtel	61.0	89.00	3	10	102.0	0.13	0.21	0.04	UMTS
		CWS	61.0	109.70	3	10	122.7	1.36	2.24	4.94	UMTS
		CWS	61.0	97.10	3	10	110.1	0.32	0.52	0.27	UMTS
		CWS	39.0	87.30	3	600	118.1	0.80	2.05	1.71	LTE
		Airtel	39.3	89.30	3	600	120.1	1.01	2.57	2.70	LTE
								<b>2.91</b>	<b>6.21</b>	<b>22.45</b>	



Location: Bel Ombre (Dan Zil)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/08

Time: 10:05 - 10:45  
 Weather: Partly cloudy, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	117.50	3	4	126.5	2.12	4.99	11.90	GSM-900
		Airtel	42.4	93.10	3	4	102.1	0.13	0.30	0.04	GSM-900
		Airtel	42.5	92.70	3	4	101.7	0.12	0.29	0.04	GSM-900
		CWS	42.1	116.30	3	4	125.3	1.85	4.39	9.03	GSM-900
		CWS	42.1	108.40	3	4	117.4	0.74	1.76	1.46	GSM-900
		CWS	42.1	95.80	3	4	104.8	0.17	0.41	0.08	GSM-900
		Airtel	42.4	103.00	3	10	116.0	0.63	1.49	1.06	UMTS
		Airtel	42.4	84.50	3	10	97.5	0.07	0.18	0.01	UMTS
		Airtel	42.4	86.40	3	10	99.4	0.09	0.22	0.02	UMTS
		Airtel	61.0	104.00	3	10	117.0	0.71	1.16	1.33	UMTS
		Airtel	61.0	89.50	3	10	102.5	0.13	0.22	0.05	UMTS
		Airtel	61.0	85.90	3	10	98.9	0.09	0.14	0.02	UMTS
		Airtel	61.0	105.80	3	10	118.8	0.87	1.43	2.01	UMTS
		Airtel	61.0	90.60	3	10	103.6	0.15	0.25	0.06	UMTS
		Airtel	61.0	85.70	3	10	98.7	0.09	0.14	0.02	UMTS
		CWS	61.0	117.40	3	10	130.4	3.31	5.43	29.08	UMTS
		CWS	61.0	98.50	3	10	111.5	0.38	0.62	0.37	UMTS
		CWS	61.0	92.10	3	10	105.1	0.18	0.29	0.09	UMTS
		CWS	39.0	89.00	3	600	119.8	0.98	2.50	2.52	LTE
		Airtel	39.3	89.30	3	600	120.1	1.01	2.57	2.70	LTE
								<b>4.83</b>	<b>9.81</b>	<b>61.92</b>	

## 6.2.7 Sorento (Airtel)

**Location:** Sorento  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/13

**Time:** 13:00 - 14:00  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11		
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]		
Point No.		MP1										
		Airtel	42.6	115.84	3	4	124.9	1.75	4.11	8.12	GSM-900	
		Airtel	42.5	105.40	3	4	114.4	0.53	1.24	0.73	GSM-900	
		Airtel	42.4	108.83	3	4	117.9	0.78	1.84	1.62	GSM-900	
		CWS	42.1	92.92	3	4	101.9	0.13	0.30	0.04	GSM-900	
		CWS	42.1	84.18	3	4	93.2	0.05	0.11	0.01	GSM-900	
		Airtel	42.4	99.03	3	4	108.1	0.25	0.60	0.17	GSM-900	
		Airtel	42.4	96.84	3	10	109.8	0.31	0.73	0.26	UMTS	
		Airtel	42.4	100.13	3	10	113.1	0.45	1.07	0.55	UMTS	
		Airtel	61.0	106.93	3	10	119.9	0.99	1.63	2.61	UMTS	
		Airtel	61.0	102.99	3	10	116.0	0.63	1.03	1.05	UMTS	
		Airtel	61.0	100.58	3	10	113.6	0.48	0.78	0.60	UMTS	
		Airtel	61.0	104.47	3	10	117.5	0.75	1.23	1.48	UMTS	
		Airtel	61.0	100.00	3	10	113.0	0.45	0.73	0.53	UMTS	
		Airtel	61.0	101.38	3	10	114.4	0.52	0.86	0.73	UMTS	
		Airtel	39.3	86.65	3	600	117.4	0.74	1.89	1.47	LTE	
		Airtel	39.3	86.15	3	600	116.9	0.70	1.79	1.31	LTE	
		Airtel	39.3	80.99	3	600	111.8	0.39	0.99	0.40	LTE	
								<b>2.86</b>	<b>6.23</b>	<b>21.67</b>		

Location: Sorento  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/13

Time: 13:00 - 14:00  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.6	110.14	3	4	119.2	0.91	2.13	2.19	GSM-900
		Airtel	42.5	107.70	3	4	116.7	0.69	1.61	1.25	GSM-900
		Airtel	42.4	101.89	3	4	110.9	0.35	0.83	0.33	GSM-900
		CWS	42.1	81.78	3	4	90.8	0.03	0.08	0.00	GSM-900
		CWS	42.1	89.80	3	4	98.8	0.09	0.21	0.02	GSM-900
		Airtel	42.4	104.29	3	10	117.3	0.73	1.73	1.42	UMTS
		Airtel	42.4	103.75	3	10	116.8	0.69	1.62	1.26	UMTS
		Airtel	42.4	93.79	3	10	106.8	0.22	0.52	0.13	UMTS
		Airtel	61.0	105.99	3	10	119.0	0.89	1.46	2.10	UMTS
		Airtel	61.0	106.76	3	10	119.8	0.97	1.59	2.51	UMTS
		Airtel	61.0	101.13	3	10	114.1	0.51	0.83	0.69	UMTS
		Airtel	61.0	108.05	3	10	121.1	1.13	1.85	3.38	UMTS
		Airtel	61.0	105.89	3	10	118.9	0.88	1.44	2.05	UMTS
		Airtel	61.0	104.45	3	10	117.5	0.75	1.22	1.47	UMTS
		Airtel	39.3	88.22	3	600	119.0	0.89	2.27	2.11	LTE
		Airtel	39.3	88.96	3	600	119.7	0.97	2.47	2.50	LTE
								<b>2.97</b>	<b>6.11</b>	<b>23.40</b>	



Location: Sorento  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/13

Time: 13:00 - 14:00  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.6	102.29	3	4	111.3	0.37	0.86	0.36	GSM-900
		Airtel	42.5	99.85	3	4	108.9	0.28	0.65	0.20	GSM-900
		Airtel	42.4	98.62	3	4	107.6	0.24	0.57	0.15	GSM-900
		CWS	42.1	82.19	3	4	91.2	0.04	0.09	0.00	GSM-900
		Airtel	42.4	96.60	3	10	109.6	0.30	0.71	0.24	UMTS
		Airtel	42.4	97.30	3	10	110.3	0.33	0.77	0.28	UMTS
		Airtel	42.4	93.52	3	10	106.5	0.21	0.50	0.12	UMTS
		Airtel	61.0	98.07	3	10	111.1	0.36	0.59	0.34	UMTS
		Airtel	61.0	96.92	3	10	109.9	0.31	0.51	0.26	UMTS
		Airtel	61.0	97.01	3	10	110.0	0.32	0.52	0.27	UMTS
		Airtel	61.0	95.71	3	10	108.7	0.27	0.45	0.20	UMTS
		Airtel	61.0	98.53	3	10	111.5	0.38	0.62	0.38	UMTS
		Airtel	61.0	96.23	3	10	109.2	0.29	0.47	0.22	UMTS
		Airtel	39.3	83.65	3	600	114.4	0.53	1.34	0.74	LTE
		Airtel	39.3	82.56	3	600	113.3	0.46	1.18	0.57	LTE
								<b>1.28</b>	<b>2.78</b>	<b>4.34</b>	

Location: Sorrento  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/13

Time: 13:00 - 14:00  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBµV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.6	102.37	3	4	111.4	0.37	0.87	0.37	GSM-900
		Airtel	42.5	111.58	3	4	120.6	1.07	2.52	3.05	GSM-900
		Airtel	42.4	95.27	3	4	104.3	0.16	0.39	0.07	GSM-900
		CWS	42.1	83.42	3	4	92.4	0.04	0.10	0.00	GSM-900
		Airtel	42.4	107.53	3	10	120.5	1.06	2.51	3.00	UMTS
		Airtel	42.4	96.70	3	10	109.7	0.31	0.72	0.25	UMTS
		Airtel	42.4	96.10	3	10	109.1	0.29	0.67	0.22	UMTS
		Airtel	61.0	114.01	3	10	127.0	2.24	3.67	13.32	UMTS
		Airtel	61.0	103.31	3	10	116.3	0.65	1.07	1.13	UMTS
		Airtel	61.0	100.13	3	10	113.1	0.45	0.74	0.55	UMTS
		Airtel	61.0	108.86	3	10	121.9	1.24	2.03	4.07	UMTS
		Airtel	61.0	103.69	3	10	116.7	0.68	1.12	1.24	UMTS
		Airtel	61.0	104.69	3	10	117.7	0.77	1.26	1.56	UMTS
		Airtel	39.3	95.92	3	600	126.7	2.16	5.51	12.41	LTE
		Airtel	39.3	87.22	3	600	118.0	0.79	2.02	1.67	LTE
								<b>4.02</b>	<b>8.43</b>	<b>42.90</b>	

## 6.2.8 La Batie (Airtel)

**Location:** La Batie  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/13

**Time:** 14:40 - 15:00  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	106.30	3	4	115.3	0.58	1.37	0.90	GSM-900
		Airtel	42.5	96.76	3	4	105.8	0.19	0.46	0.10	GSM-900
		Airtel	42.5	93.86	3	4	102.9	0.14	0.33	0.05	GSM-900
		CWS	42.0	99.10	3	4	108.1	0.25	0.61	0.17	GSM-900
		Airtel	42.4	99.26	3	10	112.3	0.41	0.97	0.45	UMTS
		Airtel	42.4	96.11	3	10	109.1	0.29	0.67	0.22	UMTS
		Airtel	42.4	92.23	3	10	105.2	0.18	0.43	0.09	UMTS
		Airtel	61.0	95.16	3	10	108.2	0.26	0.42	0.17	UMTS
		Airtel	61.0	100.52	3	10	113.5	0.47	0.78	0.60	UMTS
		Airtel	61.0	90.61	3	10	103.6	0.15	0.25	0.06	UMTS
		Airtel	61.0	101.82	3	10	114.8	0.55	0.90	0.80	UMTS
		Airtel	61.0	96.49	3	10	109.5	0.30	0.49	0.24	UMTS
		Airtel	61.0	92.40	3	10	105.4	0.19	0.31	0.09	UMTS
		Airtel	39.3	81.46	3	600	112.2	0.41	1.04	0.44	LTE
		Airtel	39.3	83.83	3	600	114.6	0.54	1.37	0.77	LTE
								<b>1.39</b>	<b>3.02</b>	<b>5.15</b>	



Location: La Batie  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/13

Time: 14:40 - 15:00  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	99.85	3	4	108.9	0.28	0.65	0.20	GSM-900
		Airtel	42.5	102.15	3	4	111.2	0.36	0.85	0.35	GSM-900
		Airtel	42.5	94.21	3	4	103.2	0.15	0.34	0.06	GSM-900
		CWS	42.0	80.94	3	4	90.0	0.03	0.07	0.00	GSM-900
		Airtel	42.4	106.30	3	10	119.3	0.92	2.18	2.26	UMTS
		Airtel	42.4	112.87	3	10	125.9	1.97	4.64	10.25	UMTS
		Airtel	42.4	99.92	3	10	112.9	0.44	1.04	0.52	UMTS
		Airtel	61.0	110.56	3	10	123.6	1.51	2.47	6.02	UMTS
		Airtel	61.0	100.33	3	10	113.3	0.46	0.76	0.57	UMTS
		Airtel	61.0	104.81	3	10	117.8	0.78	1.27	1.60	UMTS
		Airtel	61.0	105.64	3	10	118.6	0.86	1.40	1.94	UMTS
		Airtel	61.0	107.07	3	10	120.1	1.01	1.65	2.70	UMTS
		Airtel	61.0	102.53	3	10	115.5	0.60	0.98	0.95	UMTS
		Airtel	39.3	92.77	3	600	123.6	1.51	3.83	6.01	LTE
		Airtel	39.3	84.05	3	600	114.8	0.55	1.40	0.81	LTE
		Airtel	39.3	85.78	3	600	116.6	0.67	1.71	1.20	LTE
							<b>3.65</b>	<b>7.88</b>	<b>35.43</b>		

## 6.2.9 Perserverance (Airtel)

Location: Perserverance  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 14:15 - 14:50  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	101.95	3	4	111.0	0.35	0.83	0.33	GSM-900
		Airtel	42.4	101.16	3	4	110.2	0.32	0.76	0.28	GSM-900
		Airtel	42.5	99.07	3	4	108.1	0.25	0.60	0.17	GSM-900
		CWS	42.1	97.09	3	4	106.1	0.20	0.48	0.11	GSM-900
		CWS	42.1	94.06	3	4	103.1	0.14	0.34	0.05	GSM-900
		Airtel	42.4	84.92	3	10	97.9	0.08	0.19	0.02	UMTS
		Airtel	42.4	94.05	3	10	107.1	0.23	0.53	0.13	UMTS
		Airtel	42.4	92.74	3	10	105.7	0.19	0.46	0.10	UMTS
		Airtel	61.0	100.22	3	10	113.2	0.46	0.75	0.56	UMTS
		Airtel	61.0	97.68	3	10	110.7	0.34	0.56	0.31	UMTS
		Airtel	61.0	90.30	3	10	103.3	0.15	0.24	0.06	UMTS
		Airtel	61.0	100.69	3	10	113.7	0.48	0.79	0.62	UMTS
		Airtel	61.0	97.38	3	10	110.4	0.33	0.54	0.29	UMTS
		Airtel	61.0	94.11	3	10	107.1	0.23	0.37	0.14	UMTS
		Airtel	61.0	100.23	3	10	113.2	0.46	0.75	0.56	UMTS
		CWS	61.0	84.94	3	10	97.9	0.08	0.13	0.02	UMTS
		CWS	61.0	85.65	3	10	98.7	0.09	0.14	0.02	UMTS
		CWS	61.0	80.33	3	10	93.3	0.05	0.08	0.01	UMTS
		Airtel	39.3	83.29	3	600	114.1	0.51	1.29	0.68	LTE
								<b>1.29</b>	<b>2.60</b>	<b>4.44</b>	

Location: Perserance  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 14:15 - 14:50  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	101.82	3	4	110.8	0.35	0.82	0.32	GSM-900
		Airtel	42.4	114.87	3	4	123.9	1.57	3.69	6.50	GSM-900
		Airtel	42.5	99.75	3	4	108.8	0.27	0.65	0.20	GSM-900
		CWS	42.1	97.43	3	4	106.5	0.21	0.50	0.12	GSM-900
		CWS	42.1	97.59	3	4	106.6	0.21	0.51	0.12	GSM-900
		Airtel	42.4	104.54	3	10	117.5	0.75	1.78	1.51	UMTS
		Airtel	42.4	94.91	3	10	107.9	0.25	0.59	0.16	UMTS
		Airtel	42.4	86.69	3	10	99.7	0.10	0.23	0.02	UMTS
		Airtel	61.0	101.24	3	10	114.2	0.52	0.84	0.70	UMTS
		Airtel	61.0	103.25	3	10	116.3	0.65	1.06	1.12	UMTS
		Airtel	61.0	84.53	3	10	97.5	0.08	0.12	0.02	UMTS
		Airtel	61.0	102.81	3	10	115.8	0.62	1.01	1.01	UMTS
		Airtel	61.0	103.40	3	10	116.4	0.66	1.08	1.16	UMTS
		Airtel	61.0	98.20	3	10	111.2	0.36	0.60	0.35	UMTS
		Airtel	61.0	100.50	3	10	113.5	0.47	0.78	0.59	UMTS
		CWS	61.0	84.59	3	10	97.6	0.08	0.12	0.02	UMTS
		CWS	61.0	83.64	3	10	96.6	0.07	0.11	0.01	UMTS
		Airtel	39.3	88.20	3	600	119.0	0.89	2.26	2.10	LTE
							<b>1.82</b>	<b>3.70</b>	<b>16.03</b>		



## 6.2.10 Espace building (Airtel)

Location: Espace building  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 15:30 - 16:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES1-MP1									
		Airtel	42.4	117.21	3	4	126.2	2.05	4.83	11.14	GSM-900
		Airtel	42.5	115.20	3	4	124.2	1.63	3.83	7.01	GSM-900
		Airtel	42.5	94.54	3	4	103.6	0.15	0.35	0.06	GSM-900
		Airtel	42.6	85.83	3	4	94.9	0.06	0.13	0.01	GSM-900
		CWS	42.1	114.49	3	4	123.5	1.50	3.56	5.95	GSM-900
		CWS	42.1	91.58	3	4	100.6	0.11	0.25	0.03	GSM-900
		CWS	42.1	98.05	3	4	107.1	0.23	0.54	0.14	GSM-900
		Airtel	42.4	107.76	3	10	120.8	1.09	2.58	3.16	UMTS
		Airtel	42.4	89.71	3	10	102.7	0.14	0.32	0.05	UMTS
		Airtel	42.4	81.76	3	10	94.8	0.05	0.13	0.01	UMTS
		Airtel	61.0	118.56	3	10	131.6	3.78	6.20	37.99	UMTS
		Airtel	61.0	121.79	3	10	134.8	5.49	9.00	79.92	UMTS
		CWS	61.0	105.32	3	10	118.3	0.82	1.35	1.80	UMTS
		CWS	61.0	106.66	3	10	119.7	0.96	1.58	2.45	UMTS
		CWS	61.0	81.07	3	10	94.1	0.05	0.08	0.01	UMTS
		Airtel	39.3	96.49	3	600	127.3	2.31	5.88	14.15	LTE
								<b>7.86</b>	<b>14.70</b>	<b>163.87</b>	

**Location:** Espace building  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/10

**Time:** 15:30 - 16:15  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES1-MP2									
		Airtel	42.4	120.75	3	4	129.8	3.08	7.26	25.16	GSM-900
		Airtel	42.5	117.27	3	4	126.3	2.06	4.86	11.29	GSM-900
		Airtel	42.5	93.76	3	4	102.8	0.14	0.32	0.05	GSM-900
		CWS	42.6	87.84	3	4	96.9	0.07	0.16	0.01	GSM-900
		CWS	42.1	110.52	3	4	119.5	0.95	2.25	2.39	GSM-900
		CWS	42.1	106.21	3	4	115.2	0.58	1.37	0.88	GSM-900
		CWS	42.1	94.67	3	4	103.7	0.15	0.36	0.06	GSM-900
		Airtel	42.4	115.64	3	10	128.6	2.70	6.38	19.39	UMTS
		Airtel	42.4	86.65	3	10	99.7	0.10	0.23	0.02	UMTS
		Airtel	42.4	85.83	3	10	98.8	0.09	0.21	0.02	UMTS
		Airtel	61.0	109.58	3	10	122.6	1.35	2.21	4.80	UMTS
		Airtel	61.0	85.47	3	10	98.5	0.08	0.14	0.02	UMTS
		Airtel	61.0	109.29	3	10	122.3	1.30	2.13	4.49	UMTS
		Airtel	61.0	87.23	3	10	100.2	0.10	0.17	0.03	UMTS
		CWS	61.0	104.81	3	10	117.8	0.78	1.27	1.60	UMTS
		CWS	61.0	92.41	3	10	105.4	0.19	0.31	0.09	UMTS
		CWS	61.0	87.37	3	10	100.4	0.10	0.17	0.03	UMTS
		CWS	61.0	104.64	3	10	117.6	0.76	1.25	1.54	UMTS
		CWS	61.0	92.90	3	10	105.9	0.20	0.32	0.10	UMTS
		CWS	61.0	88.93	3	10	101.9	0.12	0.20	0.04	UMTS
		CWS	61.0	91.89	3	10	104.9	0.18	0.29	0.08	UMTS
		CWS	39.0	85.05	3	600	115.8	0.62	1.59	1.02	LTE
		CWS	39.0	82.66	3	600	113.4	0.47	1.20	0.59	LTE
		CWS	39.0	80.90	3	600	111.7	0.38	0.98	0.39	LTE
		Airtel	39.3	92.14	3	600	122.9	1.40	3.56	5.20	LTE
								<b>5.47</b>	<b>12.45</b>	<b>79.31</b>	

Location: Espace building  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 15:30 - 16:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES1-MP3									
		Airtel	42.4	98.18	3	4	107.2	0.23	0.54	0.14	GSM-900
		Airtel	42.5	96.15	3	4	105.2	0.18	0.43	0.09	GSM-900
		Airtel	42.5	84.47	3	4	93.5	0.05	0.11	0.01	GSM-900
		Airtel	42.6	87.00	3	1	90.0	0.03	0.07	0.00	GSM-900
		CWS	42.1	100.70	3	4	109.7	0.31	0.73	0.25	GSM-900
		CWS	42.1	89.62	3	4	98.6	0.09	0.20	0.02	GSM-900
		CWS	42.1	83.70	3	4	92.7	0.04	0.10	0.00	GSM-900
		Airtel	42.4	80.28	3	10	93.3	0.05	0.11	0.01	UMTS
		Airtel	42.4	82.60	3	10	95.6	0.06	0.14	0.01	UMTS
		Airtel	61.0	88.60	3	10	101.6	0.12	0.20	0.04	UMTS
		Airtel	61.0	84.64	3	10	97.6	0.08	0.12	0.02	UMTS
		Airtel	61.0	87.63	3	10	100.6	0.11	0.18	0.03	UMTS
		Airtel	61.0	86.12	3	10	99.1	0.09	0.15	0.02	UMTS
		CWS	61.0	81.07	3	10	94.1	0.05	0.08	0.01	UMTS
							<b>0.49</b>		<b>1.10</b>	<b>0.64</b>	



Location: Espace building  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/12

Time: 13:30 - 14:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES1-MP4									
		Airtel	42.4	113.47	3	4	122.5	1.33	3.14	4.71	GSM-900
		Airtel	42.5	109.11	3	4	118.1	0.81	1.90	1.72	GSM-900
		Airtel	42.5	96.40	3	4	105.4	0.19	0.44	0.09	GSM-900
		Airtel	42.6	89.90	3	4	98.9	0.09	0.21	0.02	GSM-900
		CWS	42.1	95.90	3	4	104.9	0.18	0.42	0.08	GSM-900
		CWS	42.1	93.40	3	4	102.4	0.13	0.31	0.05	GSM-900
		Airtel	42.4	106.36	3	10	119.4	0.93	2.19	2.29	UMTS
		Airtel	61.0	100.51	3	10	113.5	0.47	0.78	0.60	UMTS
		Airtel	61.0	95.31	3	10	108.3	0.26	0.43	0.18	UMTS
		CWS	61.0	80.72	3	10	93.7	0.05	0.08	0.01	UMTS
		CWS	61.0	84.30	3	10	97.3	0.07	0.12	0.01	UMTS
		CWS	61.0	80.57	3	10	93.6	0.05	0.08	0.01	UMTS
		CWS	61.0	86.64	3	10	99.6	0.10	0.16	0.02	UMTS
		Airtel	39.3	83.18	3	600	114.0	0.50	1.27	0.66	LTE
								<b>1.98</b>	<b>4.61</b>	<b>10.45</b>	

Location: Espace, Mahe  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 15:30 - 16:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES2-MP1									
		Airtel	42.4	83.19	3	4	92.2	0.04	0.10	0.00	GSM-900
		Airtel	42.5	80.67	3	4	89.7	0.03	0.07	0.00	GSM-900
		Airtel	42.5	101.53	3	4	110.6	0.34	0.79	0.30	GSM-900
		Airtel	42.6	114.52	3	4	123.5	1.50	3.53	5.99	GSM-900
		CWS	42.1	112.09	3	4	121.1	1.14	2.70	3.43	GSM-900
		CWS	42.1	97.17	3	4	106.2	0.20	0.48	0.11	GSM-900
		Airtel	42.4	107.41	3	10	120.4	1.05	2.47	2.92	UMTS
		Airtel	42.4	92.86	3	10	105.9	0.20	0.46	0.10	UMTS
		Airtel	61.0	103.91	3	10	116.9	0.70	1.15	1.30	UMTS
		Airtel	61.0	85.02	3	10	98.0	0.08	0.13	0.02	UMTS
		Airtel	61.0	104.10	3	10	117.1	0.72	1.17	1.36	UMTS
		Airtel	61.0	84.47	3	10	97.5	0.07	0.12	0.01	UMTS
		CWS	61.0	100.82	3	10	113.8	0.49	0.80	0.64	UMTS
		CWS	61.0	101.05	3	10	114.1	0.50	0.83	0.67	UMTS
		CWS	39.0	90.94	3	600	121.7	1.22	3.12	3.94	LTE
		Airtel	39.3	91.83	3	600	122.6	1.35	3.44	4.84	LTE
								<b>3.11</b>	<b>7.25</b>	<b>25.65</b>	

Location: Espace, Mahe  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/12

Time: 11:20 - 11:50  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		ES3-MP1									
		Airtel	42.5	114.50	3	4	123.5	1.50	3.53	5.97	GSM-900
		Airtel	42.6	93.99	3	4	103.0	0.14	0.33	0.05	GSM-900
		CWS	42.1	109.98	3	4	119.0	0.89	2.12	2.11	GSM-900
		CWS	42.1	99.11	3	4	108.1	0.25	0.61	0.17	GSM-900
		CWS	42.1	92.42	3	4	101.4	0.12	0.28	0.04	GSM-900
		Airtel	42.4	110.08	3	10	123.1	1.43	3.36	5.39	UMTS
		Airtel	42.4	88.34	3	10	101.3	0.12	0.28	0.04	UMTS
		Airtel	42.4	81.42	3	10	94.4	0.05	0.12	0.01	UMTS
		Airtel	61.0	98.95	3	10	112.0	0.40	0.65	0.42	UMTS
		Airtel	61.0	88.23	3	10	101.2	0.12	0.19	0.04	UMTS
		Airtel	61.0	88.85	3	10	101.9	0.12	0.20	0.04	UMTS
		Airtel	61.0	91.31	3	10	104.3	0.16	0.27	0.07	UMTS
		CWS	61.0	100.78	3	10	113.8	0.49	0.80	0.63	UMTS
		CWS	61.0	91.90	3	10	104.9	0.18	0.29	0.08	UMTS
		CWS	61.0	85.18	3	10	98.2	0.08	0.13	0.02	UMTS
		CWS	61.0	82.33	3	10	95.3	0.06	0.10	0.01	UMTS
		CWS	61.0	89.14	3	10	102.1	0.13	0.21	0.04	UMTS
		CWS	61.0	99.54	3	10	112.5	0.42	0.69	0.48	UMTS
		CWS	61.0	92.99	3	10	106.0	0.20	0.33	0.11	UMTS
		CWS	61.0	85.98	3	10	99.0	0.09	0.15	0.02	UMTS
		CWS	61.0	91.06	3	10	104.1	0.16	0.26	0.07	UMTS
		CWS	61.0	81.54	3	10	94.5	0.05	0.09	0.01	UMTS
		CWS	61.0	86.01	3	10	99.0	0.09	0.15	0.02	UMTS
		CWS	39.0	88.75	3	600	119.5	0.95	2.43	2.38	LTE
								<b>2.62</b>	<b>6.07</b>	<b>18.20</b>	



## 6.2.11 Ma Constance (Airtel)

**Location:** Ma Constance  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/10

**Time:** 13:30 - 13:55  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.6	110.58	3	4	119.6	0.96	2.24	2.42	GSM-900
		Airtel	42.5	117.54	3	4	126.6	2.13	5.01	12.01	GSM-900
		Airtel	42.5	104.30	3	4	113.3	0.46	1.09	0.57	GSM-900
		Airtel	42.5	99.01	3	4	108.0	0.25	0.59	0.17	GSM-900
		CWS	42.1	102.32	3	4	111.3	0.37	0.88	0.36	GSM-900
		CWS	42.1	91.87	3	4	100.9	0.11	0.26	0.03	GSM-900
		CWS	42.1	88.02	3	4	97.0	0.07	0.17	0.01	GSM-900
		Airtel	42.4	110.53	3	10	123.5	1.50	3.54	5.98	UMTS
		Airtel	42.4	92.81	3	10	105.8	0.20	0.46	0.10	UMTS
		Airtel	42.4	100.91	3	10	113.9	0.50	1.17	0.65	UMTS
		Airtel	61.0	111.40	3	10	124.4	1.66	2.72	7.31	UMTS
		Airtel	61.0	106.66	3	10	119.7	0.96	1.58	2.45	UMTS
		Airtel	61.0	109.49	3	10	122.5	1.33	2.18	4.71	UMTS
		Airtel	61.0	113.43	3	10	126.4	2.10	3.44	11.66	UMTS
		Airtel	61.0	112.23	3	10	125.2	1.83	2.99	8.84	UMTS
		Airtel	61.0	111.40	3	10	124.4	1.66	2.72	7.31	UMTS
		Airtel	39.3	85.10	3	600	115.9	0.62	1.58	1.03	LTE
		Airtel	39.3	98.49	3	600	129.3	2.91	7.40	22.43	LTE
		Airtel	39.3	95.30	3	600	126.1	2.01	5.13	10.76	LTE
								<b>6.10</b>	<b>13.16</b>	<b>98.80</b>	

Location: Ma Constance  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 13:30 - 13:55  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.6	108.64	3	4	117.7	0.76	1.80	1.55	GSM-900
		Airtel	42.5	109.40	3	4	118.4	0.83	1.96	1.84	GSM-900
		Airtel	42.5	94.60	3	4	103.6	0.15	0.36	0.06	GSM-900
		CWS	42.5	92.67	3	4	101.7	0.12	0.29	0.04	GSM-900
		CWS	42.1	94.90	3	4	103.9	0.16	0.37	0.07	GSM-900
		CWS	42.1	82.95	3	4	92.0	0.04	0.09	0.00	GSM-900
		Airtel	42.4	97.91	3	10	110.9	0.35	0.83	0.33	UMTS
		Airtel	42.4	103.61	3	10	116.6	0.68	1.60	1.22	UMTS
		Airtel	61.0	106.74	3	10	119.7	0.97	1.59	2.50	UMTS
		Airtel	61.0	93.55	3	10	106.6	0.21	0.35	0.12	UMTS
		Airtel	61.0	101.28	3	10	114.3	0.52	0.85	0.71	UMTS
		Airtel	61.0	104.58	3	10	117.6	0.76	1.24	1.52	UMTS
		Airtel	61.0	103.19	3	10	116.2	0.64	1.06	1.10	UMTS
		Airtel	61.0	98.11	3	10	111.1	0.36	0.59	0.34	UMTS
		CWS	39.0	86.38	3	600	117.2	0.72	1.85	1.38	LTE
		Airtel	39.3	93.54	3	600	124.3	1.64	4.19	7.17	LTE
		Airtel	39.3	91.66	3	600	122.4	1.32	3.37	4.65	LTE
		Airtel	39.3	82.83	3	600	113.6	0.48	1.22	0.61	LTE
								<b>3.08</b>	<b>7.13</b>	<b>25.22</b>	

## 6.2.12 Mt. Buxton (Airtel)

Location: Mt. Buxton  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 10:15 - 11:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	[V/m]E <sub>max</sub>	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	123.75	3	4	132.8	4.35	10.24	50.20	GSM-900
		Airtel	42.5	119.92	3	4	128.9	2.80	6.59	20.78	GSM-900
		Airtel	42.5	116.46	3	4	125.5	1.88	4.42	9.37	GSM-900
		CWS	42.1	83.13	3	4	92.2	0.04	0.10	0.00	GSM-900
		CWS	42.1	89.22	3	4	98.2	0.08	0.19	0.02	GSM-900
		CWS	42.1	84.94	3	4	94.0	0.05	0.12	0.01	GSM-900
		Airtel	42.4	115.82	3	10	128.8	2.76	6.51	20.21	UMTS
		Airtel	42.4	114.49	3	10	127.5	2.37	5.59	14.88	UMTS
		Airtel	42.4	106.91	3	10	119.9	0.99	2.34	2.60	UMTS
		Airtel	61.0	84.95	3	10	98.0	0.08	0.13	0.02	UMTS
		Airtel	61.0	80.02	3	10	93.0	0.04	0.07	0.01	UMTS
		Airtel	61.0	81.15	3	10	94.2	0.05	0.08	0.01	UMTS
		Airtel	61.0	119.10	3	10	132.1	4.03	6.60	43.02	UMTS
		Airtel	61.0	108.58	3	10	121.6	1.20	1.97	3.82	UMTS
		Airtel	61.0	115.54	3	10	128.5	2.67	4.38	18.95	UMTS
		CWS	61.0	84.60	3	10	97.6	0.08	0.12	0.02	UMTS
		CWS	61.0	82.82	3	10	95.8	0.06	0.10	0.01	UMTS
		CWS	61.0	80.06	3	10	93.1	0.04	0.07	0.01	UMTS
		CWS	61.0	82.93	3	10	95.9	0.06	0.10	0.01	UMTS
		CWS	61.0	81.93	3	10	94.9	0.06	0.09	0.01	UMTS
		CWS	61.0	80.15	3	10	93.2	0.05	0.07	0.01	UMTS
		Airtel	39.3	93.92	3	600	124.7	1.72	4.37	7.83	LTE
		Airtel	39.3	100.40	3	600	131.2	3.62	9.22	34.82	LTE
								<b>9.24</b>	<b>20.44</b>	<b>226.60</b>	



Location: Mt. Buxton  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 10:15 - 11:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	[V/m]E <sub>max</sub>	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	114.01	3	4	123.0	1.42	3.33	5.33	GSM-900
		Airtel	42.5	138.04	3	4	147.1	22.54	53.10	1348.09	GSM-900
		Airtel	42.5	109.68	3	4	118.7	0.86	2.03	1.97	GSM-900
		CWS	42.1	84.39	3	4	93.4	0.05	0.11	0.01	GSM-900
		CWS	42.1	87.19	3	4	96.2	0.06	0.15	0.01	GSM-900
		CWS	42.1	85.18	3	4	94.2	0.05	0.12	0.01	GSM-900
		Airtel	42.4	126.82	3	10	139.8	9.79	23.11	254.48	UMTS
		Airtel	42.4	99.99	3	10	113.0	0.45	1.05	0.53	UMTS
		Airtel	61.0	116.37	3	10	129.4	2.94	4.82	22.94	UMTS
		Airtel	61.0	95.13	3	10	108.1	0.25	0.42	0.17	UMTS
		Airtel	61.0	101.49	3	10	114.5	0.53	0.87	0.75	UMTS
		Airtel	39.3	81.41	3	600	112.2	0.41	1.04	0.44	LTE
		Airtel	39.3	87.36	3	600	118.1	0.81	2.06	1.73	LTE
								<b>24.84</b>	<b>58.31</b>	<b>1 636.45</b>	

Location: Mt. Buxton  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 10:15 - 11:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	[V/m]E <sub>max</sub>	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.5	122.49	3	4	131.5	3.76	8.85	37.56	GSM-900
		Airtel	42.5	130.25	3	4	139.3	9.19	21.66	224.24	GSM-900
		Airtel	42.5	112.53	3	4	121.6	1.20	2.81	3.79	GSM-900
		CWS	42.1	82.62	3	4	91.6	0.04	0.09	0.00	GSM-900
		CWS	42.1	91.48	3	4	100.5	0.11	0.25	0.03	GSM-900
		CWS	42.1	84.35	3	4	93.4	0.05	0.11	0.01	GSM-900
		Airtel	42.4	120.31	3	10	133.3	4.63	10.92	56.84	UMTS
		Airtel	42.4	110.54	3	10	123.5	1.50	3.55	5.99	UMTS
		Airtel	42.4	104.32	3	10	117.3	0.73	1.73	1.43	UMTS
		Airtel	61.0	82.40	3	10	95.4	0.06	0.10	0.01	UMTS
		Airtel	61.0	101.18	3	10	114.2	0.51	0.84	0.69	UMTS
		Airtel	61.0	100.62	3	10	113.6	0.48	0.79	0.61	UMTS
		Airtel	61.0	96.66	3	10	109.7	0.30	0.50	0.25	UMTS
		CWS	61.0	84.32	3	10	97.3	0.07	0.12	0.01	UMTS
		CWS	61.0	82.12	3	10	95.1	0.06	0.09	0.01	UMTS
		CWS	61.0	81.17	3	10	94.2	0.05	0.08	0.01	UMTS
		Airtel	39.3	90.96	3	600	121.7	1.22	3.11	3.96	LTE
		Airtel	39.3	88.97	3	600	119.8	0.97	2.47	2.51	LTE
								<b>11.29</b>	<b>26.60</b>	<b>337.95</b>	

Location: Mt. Buxton  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/10

Time: 10:15 - 11:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	[V/m]E <sub>max</sub>	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.5	118.36	3	4	127.4	2.34	5.50	14.51	GSM-900
		Airtel	42.5	138.78	3	4	147.8	24.55	57.83	1 598.52	GSM-900
		Airtel	42.5	109.58	3	4	118.6	0.85	2.00	1.92	GSM-900
		CWS	42.1	80.94	3	4	90.0	0.03	0.07	0.00	GSM-900
		CWS	42.1	83.06	3	4	92.1	0.04	0.10	0.00	GSM-900
		CWS	42.1	85.96	3	4	95.0	0.06	0.13	0.01	GSM-900
		Airtel	42.4	124.29	3	10	137.3	7.32	17.27	142.12	UMTS
		Airtel	42.4	105.36	3	10	118.4	0.83	1.95	1.82	UMTS
		Airtel	42.4	95.94	3	10	108.9	0.28	0.66	0.21	UMTS
		Airtel	61.0	123.47	3	10	136.5	6.66	10.92	117.67	UMTS
		Airtel	61.0	109.49	3	10	122.5	1.33	2.18	4.71	UMTS
		Airtel	39.3	85.41	3	600	116.2	0.65	1.64	1.10	LTE
								<b>26.64</b>	<b>61.71</b>	<b>1 882.60</b>	



### 6.2.13 SACOS Tower (CWS)

Location: SACOS Tower (ground level)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 11:35 - 12:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	99.34	3	4	108.4	0.26	0.62	0.18	GSM-900
		Airtel	42.5	100.51	3	4	109.5	0.30	0.71	0.24	GSM-900
		Airtel	42.5	89.13	3	4	98.2	0.08	0.19	0.02	GSM-900
		CWS	42.1	106.11	3	4	115.1	0.57	1.36	0.86	GSM-900
		CWS	42.1	94.01	3	4	103.0	0.14	0.34	0.05	GSM-900
		CWS	42.1	95.90	3	4	104.9	0.18	0.42	0.08	GSM-900
		CWS	42.1	87.55	3	4	96.6	0.07	0.16	0.01	GSM-900
		Airtel	42.4	88.88	3	4	97.9	0.08	0.19	0.02	GSM-900
		Airtel	61.0	91.84	3	10	104.8	0.17	0.29	0.08	UMTS
		Airtel	61.0	84.90	3	10	97.9	0.08	0.13	0.02	UMTS
		Airtel	61.0	91.47	3	10	104.5	0.17	0.27	0.07	UMTS
		Airtel	61.0	85.40	3	10	98.4	0.08	0.14	0.02	UMTS
		CWS	61.0	99.08	3	10	112.1	0.40	0.66	0.43	UMTS
		CWS	61.0	102.17	3	10	115.2	0.57	0.94	0.87	UMTS
		CWS	61.0	91.81	3	10	104.8	0.17	0.29	0.08	UMTS
		CWS	61.0	85.10	3	10	98.1	0.08	0.13	0.02	UMTS
		CWS	61.0	98.43	3	10	111.4	0.37	0.61	0.37	UMTS
		CWS	61.0	103.89	3	10	116.9	0.70	1.15	1.30	UMTS
		CWS	61.0	80.02	3	10	93.0	0.04	0.07	0.01	UMTS
		CWS	61.0	104.60	3	10	117.6	0.76	1.24	1.53	UMTS
		CWS	61.0	95.73	3	10	108.7	0.27	0.45	0.20	UMTS
		CWS	39.0	91.51	3	600	122.3	1.30	3.34	4.50	LTE
								<b>2.03</b>	<b>4.39</b>	<b>10.94</b>	

Location: SACOS Tower  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 11:35 - 12:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	93.77	3	4	102.8	0.14	0.32	0.05	GSM-900
		Airtel	42.5	91.53	3	4	100.6	0.11	0.25	0.03	GSM-900
		Airtel	42.5	82.12	3	4	91.1	0.04	0.08	0.00	GSM-900
		CWS	42.1	109.00	3	4	118.0	0.80	1.89	1.68	GSM-900
		CWS	42.1	103.76	3	4	112.8	0.44	1.03	0.50	GSM-900
		CWS	42.1	98.94	3	4	108.0	0.25	0.59	0.17	GSM-900
		CWS	42.1	82.93	3	4	92.0	0.04	0.09	0.00	GSM-900
		Airtel	42.4	81.07	3	10	94.1	0.05	0.12	0.01	UMTS
		Airtel	61.0	86.23	3	10	99.2	0.09	0.15	0.02	UMTS
		Airtel	61.0	86.79	3	10	99.8	0.10	0.16	0.03	UMTS
		Airtel	61.0	81.82	3	10	94.8	0.06	0.09	0.01	UMTS
		CWS	61.0	99.60	3	10	112.6	0.43	0.70	0.48	UMTS
		CWS	61.0	87.71	3	10	100.7	0.11	0.18	0.03	UMTS
		CWS	61.0	98.35	3	10	111.4	0.37	0.61	0.36	UMTS
		CWS	61.0	88.25	3	10	101.3	0.12	0.19	0.04	UMTS
		CWS	61.0	90.26	3	10	103.3	0.15	0.24	0.06	UMTS
		CWS	61.0	88.43	3	10	101.4	0.12	0.19	0.04	UMTS
		CWS	61.0	97.08	3	10	110.1	0.32	0.52	0.27	UMTS
		CWS	61.0	92.12	3	10	105.1	0.18	0.30	0.09	UMTS
		CWS	61.0	95.89	3	10	108.9	0.28	0.46	0.21	UMTS
		CWS	61.0	96.09	3	10	109.1	0.28	0.47	0.22	UMTS
		CWS	39.0	89.46	3	600	120.2	1.03	2.63	2.80	LTE
		CWS	39.0	89.83	3	600	120.6	1.07	2.75	3.05	LTE
								<b>1.96</b>	<b>4.64</b>	<b>10.14</b>	

Location: SACOS Tower  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 11:35 - 12:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.5	95.03	3	4	104.1	0.16	0.37	0.07	GSM-900
		Airtel	42.5	96.35	3	4	105.4	0.19	0.44	0.09	GSM-900
		Airtel	42.5	86.10	3	4	95.1	0.06	0.13	0.01	GSM-900
		CWS	42.1	94.26	3	4	103.3	0.15	0.35	0.06	GSM-900
		CWS	42.1	107.87	3	4	116.9	0.70	1.66	1.30	GSM-900
		CWS	42.1	101.53	3	4	110.6	0.34	0.80	0.30	GSM-900
		CWS	42.1	0.00	3	4	9.0	0.00	0.00	0.00	GSM-900
		Airtel	42.4	83.54	3	10	96.5	0.07	0.16	0.01	UMTS
		Airtel	61.0	86.74	3	10	99.7	0.10	0.16	0.02	UMTS
		Airtel	61.0	84.82	3	10	97.8	0.08	0.13	0.02	UMTS
		Airtel	61.0	87.27	3	10	100.3	0.10	0.17	0.03	UMTS
		Airtel	61.0	83.90	3	10	96.9	0.07	0.11	0.01	UMTS
		CWS	61.0	93.94	3	10	106.9	0.22	0.36	0.13	UMTS
		CWS	61.0	96.80	3	10	109.8	0.31	0.51	0.25	UMTS
		CWS	61.0	92.62	3	10	105.6	0.19	0.31	0.10	UMTS
		CWS	61.0	100.93	3	10	113.9	0.50	0.82	0.66	UMTS
		CWS	61.0	82.59	3	10	95.6	0.06	0.10	0.01	UMTS
		CWS	61.0	96.87	3	10	109.9	0.31	0.51	0.26	UMTS
		CWS	61.0	100.46	3	10	113.5	0.47	0.77	0.59	UMTS
		CWS	61.0	88.56	3	10	101.6	0.12	0.20	0.04	UMTS
		CWS	61.0	94.90	3	10	107.9	0.25	0.41	0.16	UMTS
		CWS	61.0	95.61	3	10	108.6	0.27	0.44	0.19	UMTS
		CWS	61.0	100.15	3	10	113.2	0.45	0.75	0.55	UMTS
		CWS	39.0	90.41	3	600	121.2	1.15	2.94	3.49	LTE
								<b>1.77</b>	<b>3.95</b>	<b>8.34</b>	



Location: SACOS Tower  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 11:35 - 12:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.5	99.29	3	4	108.3	0.26	0.61	0.18	GSM-900
		Airtel	42.5	99.09	3	4	108.1	0.25	0.60	0.17	GSM-900
		Airtel	42.5	84.49	3	4	93.5	0.05	0.11	0.01	GSM-900
		CWS	42.1	113.13	3	4	122.2	1.28	3.04	4.35	GSM-900
		CWS	42.1	97.26	3	4	106.3	0.21	0.49	0.11	GSM-900
		CWS	42.1	105.90	3	4	114.9	0.56	1.32	0.82	GSM-900
		CWS	42.1	82.47	3	4	91.5	0.04	0.09	0.00	GSM-900
		Airtel	42.4	89.92	3	10	102.9	0.14	0.33	0.05	UMTS
		Airtel	61.0	93.43	3	10	106.4	0.21	0.34	0.12	UMTS
		Airtel	61.0	91.45	3	10	104.5	0.17	0.27	0.07	UMTS
		Airtel	61.0	87.27	3	10	100.3	0.10	0.17	0.03	UMTS
		Airtel	61.0	83.90	3	10	96.9	0.07	0.11	0.01	UMTS
		CWS	61.0	107.32	3	10	120.3	1.04	1.70	2.86	UMTS
		CWS	61.0	98.55	3	10	111.6	0.38	0.62	0.38	UMTS
		CWS	61.0	99.95	3	10	113.0	0.44	0.73	0.52	UMTS
		CWS	61.0	106.57	3	10	119.6	0.95	1.56	2.40	UMTS
		CWS	61.0	97.88	3	10	110.9	0.35	0.57	0.32	UMTS
		CWS	61.0	105.69	3	10	118.7	0.86	1.41	1.96	UMTS
		CWS	61.0	85.69	3	10	98.7	0.09	0.14	0.02	LTE
		CWS	39.0	85.68	3	600	116.5	0.67	1.70	1.17	LTE
								<b>2.42</b>	<b>4.88</b>	<b>15.57</b>	

## 6.2.14 Stad Popiler and Central Bank Building (Airtel/CWS)

Location: Stad Popiler  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 14:00 - 14:20  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.4	109.16	3	4	118.2	0.81	1.91	1.74	GSM-900
		Airtel	42.5	98.67	3	4	107.7	0.24	0.57	0.16	GSM-900
		Airtel	42.5	99.50	3	4	108.5	0.27	0.63	0.19	GSM-900
		CWS	42.1	90.37	3	4	99.4	0.09	0.22	0.02	GSM-900
		CWS	42.1	113.23	3	4	122.3	1.30	3.08	4.45	GSM-900
		CWS	42.1	102.36	3	4	111.4	0.37	0.88	0.36	GSM-900
		CWS	42.0	105.33	3	4	114.4	0.52	1.24	0.72	GSM-900
		Airtel	42.4	92.04	3	10	105.0	0.18	0.42	0.08	GSM-900
		Airtel	42.4	83.64	3	10	96.6	0.07	0.16	0.01	UMTS
		Airtel	42.4	86.01	3	10	99.0	0.09	0.21	0.02	UMTS
		Airtel	61.0	108.34	3	10	121.3	1.17	1.91	3.61	UMTS
		Airtel	61.0	97.52	3	10	110.5	0.34	0.55	0.30	UMTS
		Airtel	61.0	88.08	3	10	101.1	0.11	0.19	0.03	UMTS
		Airtel	61.0	108.34	3	10	121.3	1.17	1.91	3.61	UMTS
		Airtel	61.0	97.27	3	10	110.3	0.33	0.53	0.28	UMTS
		Airtel	61.0	84.73	3	10	97.7	0.08	0.13	0.02	UMTS
		CWS	61.0	102.40	3	10	115.4	0.59	0.97	0.92	UMTS
		CWS	61.0	99.55	3	10	112.6	0.42	0.70	0.48	UMTS
		CWS	61.0	96.57	3	10	109.6	0.30	0.49	0.24	UMTS
		CWS	61.0	100.47	3	10	113.5	0.47	0.77	0.59	UMTS
		CWS	61.0	97.86	3	10	110.9	0.35	0.57	0.32	UMTS
		CWS	61.0	96.21	3	10	109.2	0.29	0.47	0.22	UMTS
		CWS	61.0	94.61	3	10	107.6	0.24	0.39	0.15	UMTS
		CWS	61.0	98.71	3	10	111.7	0.39	0.63	0.39	UMTS
		CWS	61.0	98.39	3	10	111.4	0.37	0.61	0.37	UMTS
		CWS	39.0	94.52	3	600	125.3	1.84	4.72	8.99	LTE
		Airtel	39.3	85.08	3	600	115.9	0.62	1.58	1.02	LTE
		Airtel	58.6	83.79	3	600	114.6	0.54	0.91	0.76	LTE
		Airtel	58.6	81.30	3	600	112.1	0.40	0.69	0.43	LTE
								<b>3.39</b>	<b>7.36</b>	<b>30.51</b>	

Location: CBS - Roof of building  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 14:35 - 14:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.4	96.05	3	4	105.1	0.18	0.42	0.09	GSM-900
		Airtel	42.5	89.16	3	4	98.2	0.08	0.19	0.02	GSM-900
		Airtel	42.5	107.24	3	4	116.3	0.65	1.53	1.12	GSM-900
		CWS	42.1	112.58	3	4	121.6	1.20	2.86	3.83	GSM-900
		CWS	42.1	96.58	3	4	105.6	0.19	0.45	0.10	GSM-900
		CWS	42.1	100.52	3	4	109.5	0.30	0.71	0.24	GSM-900
		Airtel	42.0	117.33	3	10	130.3	3.28	7.81	28.62	UMTS
		Airtel	42.4	97.59	3	10	110.6	0.34	0.80	0.30	UMTS
		Airtel	61.0	89.50	3	10	102.5	0.13	0.22	0.05	UMTS
		Airtel	61.0	96.81	3	10	109.8	0.31	0.51	0.25	UMTS
		Airtel	61.0	82.90	3	10	95.9	0.06	0.10	0.01	UMTS
		Airtel	61.0	98.05	3	10	111.1	0.36	0.59	0.34	UMTS
		Airtel	61.0	89.57	3	10	102.6	0.13	0.22	0.05	UMTS
		CWS	61.0	122.13	3	10	135.1	5.71	9.36	86.43	UMTS
		CWS	61.0	97.44	3	10	110.4	0.33	0.55	0.29	UMTS
		CWS	61.0	111.79	3	10	124.8	1.74	2.85	7.99	UMTS
		CWS	61.0	122.29	3	10	135.3	5.81	9.53	89.67	UMTS
		CWS	61.0	111.13	3	10	124.1	1.61	2.64	6.87	UMTS
		CWS	61.0	102.86	3	10	115.9	0.62	1.02	1.02	UMTS
		CWS	61.0	120.13	3	10	133.1	4.53	7.43	54.53	UMTS
		CWS	61.0	110.45	3	10	123.5	1.49	2.44	5.87	UMTS
		CWS	39.0	88.66	3	600	119.4	0.94	2.40	2.33	LTE
		CWS	39.0	102.03	3	600	132.8	4.37	11.20	50.68	LTE
		Airtel	39.3	93.80	3	600	124.6	1.69	4.31	7.62	LTE
		Airtel	39.3	85.88	3	600	116.7	0.68	1.73	1.23	LTE
		Airtel	58.6	95.80	3	600	126.6	2.13	3.64	12.07	LTE
								<b>11.68</b>	<b>22.27</b>	<b>361.62</b>	



Location: CBS - HVAC store-room  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 14:50 - 15:00  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.4	89.90	3	4	98.9	0.09	0.21	0.02	GSM-900
		Airtel	42.5	86.31	3	4	95.3	0.06	0.14	0.01	GSM-900
		Airtel	42.5	96.63	3	4	105.7	0.19	0.45	0.10	GSM-900
		CWS	42.1	105.47	3	4	114.5	0.53	1.26	0.75	GSM-900
		CWS	42.1	92.71	3	4	101.7	0.12	0.29	0.04	GSM-900
		CWS	42.1	94.62	3	4	103.6	0.15	0.36	0.06	GSM-900
		Airtel	42.0	106.05	3	10	119.1	0.90	2.13	2.13	UMTS
		Airtel	42.4	87.39	3	10	100.4	0.10	0.25	0.03	UMTS
		Airtel	42.4	83.55	3	10	96.6	0.07	0.16	0.01	UMTS
		Airtel	42.4	82.89	3	10	95.9	0.06	0.15	0.01	UMTS
		Airtel	61.0	86.92	3	10	99.9	0.10	0.16	0.03	UMTS
		Airtel	61.0	80.22	3	10	93.2	0.05	0.08	0.01	UMTS
		Airtel	61.0	82.54	3	10	95.5	0.06	0.10	0.01	UMTS
		Airtel	61.0	83.78	3	10	96.8	0.07	0.11	0.01	UMTS
		Airtel	61.0	87.46	3	10	100.5	0.11	0.17	0.03	UMTS
		Airtel	61.0	80.68	3	10	93.7	0.05	0.08	0.01	UMTS
		Airtel	61.0	81.81	3	10	94.8	0.06	0.09	0.01	UMTS
		CWS	61.0	109.30	3	10	122.3	1.30	2.14	4.50	UMTS
		CWS	61.0	104.51	3	10	117.5	0.75	1.23	1.50	UMTS
		CWS	61.0	91.09	3	10	104.1	0.16	0.26	0.07	UMTS
		CWS	61.0	106.24	3	10	119.2	0.92	1.50	2.23	UMTS
		CWS	61.0	106.30	3	10	119.3	0.92	1.51	2.26	UMTS
		CWS	61.0	93.40	3	10	106.4	0.21	0.34	0.12	UMTS
		CWS	61.0	104.44	3	10	117.4	0.74	1.22	1.47	UMTS
		CWS	61.0	103.82	3	10	116.8	0.69	1.14	1.28	UMTS
		CWS	61.0	90.93	3	10	103.9	0.16	0.26	0.07	UMTS
		CWS	39.0	83.30	3	600	114.1	0.51	1.30	0.68	LTE
		CWS	39.0	89.71	3	600	120.5	1.06	2.71	2.97	LTE
		Airtel	39.3	84.09	3	600	114.9	0.55	1.41	0.81	LTE
		Airtel	39.3	82.64	3	600	113.4	0.47	1.19	0.58	LTE
		Airtel	58.6	80.82	3	600	111.6	0.38	0.65	0.38	LTE
		Airtel	58.6	82.52	3	600	113.3	0.46	0.79	0.57	LTE
								<b>2.93</b>	<b>5.83</b>	<b>22.73</b>	

Location: CBS - canteen (1)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 15:05 - 15:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.4	109.34	3	4	118.4	0.83	1.95	1.82	GSM-900
		Airtel	42.5	95.04	3	4	104.1	0.16	0.38	0.07	GSM-900
		Airtel	42.5	97.12	3	4	106.1	0.20	0.48	0.11	GSM-900
		CWS	42.1	82.10	3	4	91.1	0.04	0.09	0.00	GSM-900
		CWS	42.1	98.19	3	4	107.2	0.23	0.54	0.14	GSM-900
		CWS	42.1	92.59	3	4	101.6	0.12	0.29	0.04	GSM-900
		Airtel	42.0	91.24	3	10	104.2	0.16	0.39	0.07	UMTS
		Airtel	42.4	98.50	3	10	111.5	0.38	0.89	0.37	UMTS
		Airtel	42.4	81.59	3	10	94.6	0.05	0.13	0.01	UMTS
		Airtel	42.4	87.69	3	10	100.7	0.11	0.26	0.03	UMTS
		Airtel	61.0	94.69	3	10	107.7	0.24	0.40	0.16	UMTS
		Airtel	61.0	93.82	3	10	106.8	0.22	0.36	0.13	UMTS
		Airtel	61.0	81.91	3	10	94.9	0.06	0.09	0.01	UMTS
		Airtel	61.0	93.49	3	10	106.5	0.21	0.35	0.12	UMTS
		Airtel	61.0	95.16	3	10	108.2	0.26	0.42	0.17	UMTS
		Airtel	61.0	84.02	3	10	97.0	0.07	0.12	0.01	UMTS
		CWS	61.0	89.70	3	10	102.7	0.14	0.22	0.05	UMTS
		CWS	61.0	87.26	3	10	100.3	0.10	0.17	0.03	UMTS
		CWS	61.0	84.47	3	10	97.5	0.07	0.12	0.01	UMTS
		CWS	61.0	80.54	3	10	93.5	0.05	0.08	0.01	UMTS
		CWS	61.0	85.16	3	10	98.2	0.08	0.13	0.02	UMTS
		CWS	61.0	84.65	3	10	97.7	0.08	0.13	0.02	UMTS
		CWS	61.0	86.16	3	10	99.2	0.09	0.15	0.02	UMTS
		CWS	61.0	92.87	3	10	105.9	0.20	0.32	0.10	UMTS
		CWS	61.0	80.03	3	10	93.0	0.04	0.07	0.01	UMTS
		CWS	61.0	85.27	3	10	98.3	0.08	0.13	0.02	UMTS
		CWS	61.0	80.47	3	10	93.5	0.05	0.08	0.01	UMTS
		CWS	61.0	85.83	3	10	98.8	0.09	0.14	0.02	UMTS
		CWS	39.0	81.10	3	600	111.9	0.39	1.01	0.41	LTE
		Airtel	58.6	83.72	3	600	114.5	0.53	0.91	0.75	LTE
								<b>1.33</b>	<b>2.89</b>	<b>4.72</b>	

Location: CBS - canteen (2)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 15:15 - 15:25  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP5									
		Airtel	42.4	110.60	3	4	119.6	0.96	2.26	2.43	GSM-900
		Airtel	42.5	96.36	3	4	105.4	0.19	0.44	0.09	GSM-900
		Airtel	42.5	93.94	3	4	103.0	0.14	0.33	0.05	GSM-900
		CWS	42.1	80.77	3	4	89.8	0.03	0.07	0.00	GSM-900
		CWS	42.1	112.20	3	4	121.2	1.15	2.73	3.51	GSM-900
		CWS	42.1	98.66	3	4	107.7	0.24	0.57	0.16	GSM-900
		Airtel	42.0	97.40	3	10	110.4	0.33	0.79	0.29	UMTS
		Airtel	42.4	99.52	3	10	112.5	0.42	1.00	0.47	UMTS
		Airtel	42.4	86.52	3	10	99.5	0.09	0.22	0.02	UMTS
		Airtel	42.4	87.78	3	10	100.8	0.11	0.26	0.03	UMTS
		Airtel	61.0	104.11	3	10	117.1	0.72	1.18	1.36	UMTS
		Airtel	61.0	86.29	3	10	99.3	0.09	0.15	0.02	UMTS
		Airtel	61.0	83.96	3	10	97.0	0.07	0.12	0.01	UMTS
		Airtel	61.0	103.75	3	10	116.8	0.69	1.13	1.26	UMTS
		Airtel	61.0	81.77	3	10	94.8	0.05	0.09	0.01	UMTS
		Airtel	61.0	87.69	3	10	100.7	0.11	0.18	0.03	UMTS
		CWS	61.0	100.30	3	10	113.3	0.46	0.76	0.57	UMTS
		CWS	61.0	100.37	3	10	113.4	0.47	0.76	0.58	UMTS
		CWS	61.0	97.64	3	10	110.6	0.34	0.56	0.31	UMTS
		CWS	61.0	100.03	3	10	113.0	0.45	0.73	0.53	UMTS
		CWS	61.0	100.41	3	10	113.4	0.47	0.77	0.58	UMTS
		CWS	61.0	97.39	3	10	110.4	0.33	0.54	0.29	UMTS
		CWS	61.0	98.64	3	10	111.6	0.38	0.63	0.39	UMTS
		CWS	61.0	100.11	3	10	113.1	0.45	0.74	0.54	UMTS
		CWS	61.0	86.04	3	10	99.0	0.09	0.15	0.02	UMTS
		CWS	39.0	92.30	3	600	123.1	1.43	3.65	5.39	LTE
		Airtel	39.3	83.43	3	600	114.2	0.51	1.31	0.70	LTE
		Airtel	58.6	82.81	3	600	113.6	0.48	0.82	0.61	LTE
		Airtel	58.6	81.28	3	600	112.1	0.40	0.68	0.43	LTE
								<b>2.79</b>	<b>6.14</b>	<b>20.69</b>	



Location: Stad Popiler  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 15:30 - 15:40  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP6									
		Airtel	42.4	104.64	3	4	113.7	0.48	1.14	0.62	GSM-900
		Airtel	42.5	90.85	3	4	99.9	0.10	0.23	0.03	GSM-900
		Airtel	42.5	96.11	3	4	105.1	0.18	0.42	0.09	GSM-900
		CWS	42.1	92.31	3	4	101.3	0.12	0.28	0.04	GSM-900
		CWS	42.1	103.36	3	4	112.4	0.42	0.99	0.46	GSM-900
		CWS	42.1	94.23	3	4	103.3	0.15	0.35	0.06	GSM-900
		Airtel	42.0	104.87	3	10	117.9	0.78	1.86	1.62	UMTS
		Airtel	42.4	102.63	3	10	115.6	0.60	1.43	0.97	UMTS
		Airtel	42.4	86.69	3	10	99.7	0.10	0.23	0.02	UMTS
		Airtel	42.4	82.20	3	10	95.2	0.06	0.14	0.01	UMTS
		Airtel	42.4	80.10	3	10	93.1	0.05	0.11	0.01	UMTS
		Airtel	61.0	100.13	3	10	113.1	0.45	0.74	0.55	UMTS
		Airtel	61.0	101.39	3	10	114.4	0.52	0.86	0.73	UMTS
		Airtel	61.0	90.42	3	10	103.4	0.15	0.24	0.06	UMTS
		Airtel	61.0	100.23	3	10	113.2	0.46	0.75	0.56	UMTS
		Airtel	61.0	99.86	3	10	112.9	0.44	0.72	0.51	UMTS
		Airtel	61.0	87.23	3	10	100.2	0.10	0.17	0.03	UMTS
		CWS	61.0	96.58	3	10	109.6	0.30	0.49	0.24	UMTS
		CWS	61.0	88.68	3	10	101.7	0.12	0.20	0.04	UMTS
		CWS	61.0	94.64	3	10	107.6	0.24	0.40	0.15	UMTS
		CWS	61.0	91.30	3	10	104.3	0.16	0.27	0.07	UMTS
		CWS	61.0	96.71	3	10	109.7	0.31	0.50	0.25	UMTS
		CWS	61.0	90.29	3	10	103.3	0.15	0.24	0.06	UMTS
		CWS	61.0	90.04	3	10	103.0	0.14	0.23	0.05	UMTS
		CWS	61.0	93.39	3	10	106.4	0.21	0.34	0.12	UMTS
		CWS	61.0	94.27	3	10	107.3	0.23	0.38	0.14	UMTS
		CWS	61.0	92.34	3	10	105.3	0.18	0.30	0.09	UMTS
		CWS	61.0	86.29	3	10	99.3	0.09	0.15	0.02	UMTS
		CWS	61.0	91.29	3	10	104.3	0.16	0.27	0.07	UMTS
		CWS	39.0	83.34	3	600	114.1	0.51	1.30	0.69	LTE
		CWS	39.0	83.66	3	600	114.4	0.53	1.35	0.74	LTE
		Airtel	39.3	84.42	3	600	115.2	0.58	1.47	0.88	LTE
		Airtel	58.6	86.48	3	600	117.3	0.73	1.25	1.41	LTE
								<b>2.07</b>	<b>4.39</b>	<b>11.36</b>	

## 6.2.15 Dr Chetty's Rooms

**Location:** Dr Chetty's Rooms  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/15

**Time:** 09:45 - 10:45  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	104.97	3	4	114.0	0.50	1.18	0.66	GSM-900
		Airtel	42.5	119.42	3	4	128.4	2.64	6.21	18.52	GSM-900
		Airtel	42.5	96.90	3	4	105.9	0.20	0.46	0.10	GSM-900
		Airtel	42.5	92.66	3	4	101.7	0.12	0.29	0.04	GSM-900
		CWS	42.1	92.95	3	4	102.0	0.13	0.30	0.04	GSM-900
		CWS	42.1	94.89	3	4	103.9	0.16	0.37	0.07	GSM-900
		CWS	42.4	107.02	3	4	116.0	0.63	1.50	1.07	GSM-900
		Airtel	42.4	101.46	3	10	114.5	0.53	1.25	0.74	UMTS
		Airtel	61.0	105.31	3	10	118.3	0.82	1.35	1.80	UMTS
		Airtel	61.0	93.15	3	10	106.2	0.20	0.33	0.11	UMTS
		Airtel	61.0	100.42	3	10	113.4	0.47	0.77	0.58	UMTS
		Airtel	61.0	104.30	3	10	117.3	0.73	1.20	1.42	UMTS
		Airtel	61.0	100.02	3	10	113.0	0.45	0.73	0.53	UMTS
		Airtel	61.0	93.20	3	10	106.2	0.20	0.33	0.11	UMTS
		Airtel	61.0	80.68	3	10	93.7	0.05	0.08	0.01	UMTS
		CWS	61.0	83.12	3	10	96.1	0.06	0.10	0.01	UMTS
		CWS	61.0	86.64	3	10	99.6	0.10	0.16	0.02	UMTS
		CWS	61.0	80.41	3	10	93.4	0.05	0.08	0.01	UMTS
		CWS	61.0	80.62	3	10	93.6	0.05	0.08	0.01	UMTS
		CWS	61.0	80.78	3	10	93.8	0.05	0.08	0.01	UMTS
		Airtel	39.3	80.25	3	600	111.0	0.36	0.91	0.34	LTE
		Airtel	39.3	81.53	3	600	112.3	0.41	1.05	0.45	LTE
								<b>3.17</b>	<b>7.13</b>	<b>26.65</b>	

Location: Dr Chetty's Rooms  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 09:45 - 10:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	100.93	3	4	110.0	0.31	0.74	0.26	GSM-900
		Airtel	42.5	107.49	3	4	116.5	0.67	1.57	1.19	GSM-900
		Airtel	42.5	86.20	3	4	95.2	0.06	0.14	0.01	GSM-900
		Airtel	42.5	82.25	3	4	91.3	0.04	0.09	0.00	GSM-900
		CWS	42.1	86.21	3	4	95.2	0.06	0.14	0.01	GSM-900
		CWS	42.1	89.59	3	4	98.6	0.09	0.20	0.02	GSM-900
		Airtel	42.4	100.83	3	10	113.8	0.49	1.16	0.64	UMTS
		Airtel	42.4	92.87	3	10	105.9	0.20	0.46	0.10	UMTS
		Airtel	61.0	87.36	3	10	100.4	0.10	0.17	0.03	UMTS
		Airtel	61.0	86.99	3	10	100.0	0.10	0.16	0.03	UMTS
		Airtel	61.0	81.22	3	10	94.2	0.05	0.08	0.01	UMTS
		Airtel	61.0	90.59	3	10	103.6	0.15	0.25	0.06	UMTS
		Airtel	61.0	87.71	3	10	100.7	0.11	0.18	0.03	UMTS
		CWS	61.0	84.82	3	10	97.8	0.08	0.13	0.02	UMTS
		CWS	61.0	80.40	3	10	93.4	0.05	0.08	0.01	UMTS
		CWS	61.0	84.31	3	10	97.3	0.07	0.12	0.01	UMTS
		CWS	61.0	100.84	3	10	113.8	0.49	0.81	0.64	UMTS
								<b>1.08</b>	<b>2.35</b>	<b>3.07</b>	



Location: Dr Chetty's Rooms  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 09:45 - 10:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11		
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]		
Point No.		MP3										
		Airtel	42.5	103.56	3	4	112.6	0.43	1.00	0.48	GSM-900	
		Airtel	42.5	116.32	3	4	125.3	1.85	4.35	9.07	GSM-900	
		Airtel	42.5	100.81	3	4	109.8	0.31	0.73	0.26	GSM-900	
		Airtel	42.5	92.51	3	4	101.5	0.12	0.28	0.04	GSM-900	
		CWS	42.1	84.02	3	4	93.0	0.04	0.11	0.01	GSM-900	
		Airtel	42.4	108.27	3	10	121.3	1.16	2.73	3.55	UMTS	
		Airtel	42.4	101.79	3	10	114.8	0.55	1.30	0.80	UMTS	
		Airtel	42.4	88.08	3	10	101.1	0.11	0.27	0.03	UMTS	
		Airtel	61.0	105.95	3	10	119.0	0.89	1.45	2.08	UMTS	
		Airtel	61.0	93.20	3	10	106.2	0.20	0.33	0.11	UMTS	
		Airtel	61.0	86.75	3	10	99.8	0.10	0.16	0.03	UMTS	
		Airtel	61.0	105.30	3	10	118.3	0.82	1.35	1.79	UMTS	
		Airtel	61.0	94.24	3	10	107.2	0.23	0.38	0.14	UMTS	
		Airtel	61.0	88.14	3	10	101.1	0.11	0.19	0.03	UMTS	
		CWS	61.0	83.38	3	10	96.4	0.07	0.11	0.01	UMTS	
		CWS	61.0	80.16	3	10	93.2	0.05	0.07	0.01	UMTS	
		CWS	61.0	83.98	3	10	97.0	0.07	0.12	0.01	UMTS	
		CWS	61.0	86.94	3	10	99.9	0.10	0.16	0.03	UMTS	
		CWS	61.0	80.30	3	10	93.3	0.05	0.08	0.01	UMTS	
		CWS	61.0	83.49	3	10	96.5	0.07	0.11	0.01	UMTS	
		CWS	61.0	80.78	3	10	93.8	0.05	0.08	0.01	UMTS	
		Airtel	39.3	81.32	3	600	112.1	0.40	1.03	0.43	LTE	
								<b>2.67</b>	<b>5.92</b>	<b>18.94</b>		

Location: Dr Chetty's Rooms  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 09:45 - 10:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.5	107.87	3	4	116.9	0.70	1.64	1.30	GSM-900
		Airtel	42.5	122.24	3	4	131.3	3.66	8.59	35.46	GSM-900
		Airtel	42.5	112.23	3	4	121.3	1.15	2.72	3.54	GSM-900
		Airtel	42.5	110.43	3	4	119.5	0.94	2.21	2.34	GSM-900
		CWS	42.1	109.69	3	4	118.7	0.86	2.05	1.97	GSM-900
		CWS	42.1	88.09	3	4	97.1	0.07	0.17	0.01	GSM-900
		Airtel	42.4	110.02	3	10	123.0	1.42	3.34	5.32	UMTS
		Airtel	42.4	104.06	3	10	117.1	0.71	1.68	1.35	UMTS
		Airtel	42.4	101.87	3	10	114.9	0.55	1.31	0.81	UMTS
		Airtel	42.4	93.96	3	10	107.0	0.22	0.53	0.13	UMTS
		Airtel	61.0	108.30	3	10	121.3	1.16	1.90	3.58	UMTS
		Airtel	61.0	97.52	3	10	110.5	0.34	0.55	0.30	UMTS
		Airtel	61.0	92.95	3	10	106.0	0.20	0.33	0.10	UMTS
		Airtel	61.0	105.95	3	10	119.0	0.89	1.45	2.08	UMTS
		Airtel	61.0	97.84	3	10	110.8	0.35	0.57	0.32	UMTS
		Airtel	61.0	85.55	3	10	98.6	0.08	0.14	0.02	UMTS
		Airtel	61.0	93.38	3	10	106.4	0.21	0.34	0.12	UMTS
		CWS	61.0	101.34	3	10	114.3	0.52	0.85	0.72	UMTS
		CWS	61.0	90.47	3	10	103.5	0.15	0.24	0.06	UMTS
		CWS	61.0	100.23	3	10	113.2	0.46	0.75	0.56	UMTS
		CWS	61.0	90.11	3	10	103.1	0.14	0.23	0.05	UMTS
		CWS	61.0	80.33	3	10	93.3	0.05	0.08	0.01	UMTS
		CWS	61.0	100.84	3	10	113.8	0.49	0.81	0.64	UMTS
		CWS	39.0	89.43	3	600	120.2	1.02	2.62	2.78	LTE
		Airtel	39.3	87.74	3	600	118.5	0.84	2.15	1.89	LTE
		Airtel	39.3	84.34	3	600	115.1	0.57	1.45	0.86	LTE
								<b>5.00</b>	<b>11.46</b>	<b>66.32</b>	

Location: Dr Chetty's Rooms  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/15

Time: 09:45 - 10:45  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dB $\mu$ V/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m <sup>2</sup> ]	
Point No.		MP5									
		Airtel	42.5	92.76	3	4	101.8	0.12	0.29	0.04	GSM-900
		Airtel	42.5	99.03	3	4	108.1	0.25	0.59	0.17	GSM-900
		Airtel	42.5	100.25	3	4	109.3	0.29	0.68	0.22	GSM-900
		Airtel	42.5	94.49	3	4	103.5	0.15	0.35	0.06	GSM-900
		CWS	42.1	88.26	3	4	97.3	0.07	0.17	0.01	GSM-900
		Airtel	42.4	89.16	3	10	102.2	0.13	0.30	0.04	UMTS
		Airtel	42.4	85.66	3	10	98.7	0.09	0.20	0.02	UMTS
		Airtel	42.4	90.71	3	10	103.7	0.15	0.36	0.06	UMTS
		Airtel	61.0	82.97	3	10	96.0	0.06	0.10	0.01	UMTS
		Airtel	61.0	84.90	3	10	97.9	0.08	0.13	0.02	UMTS
		Airtel	61.0	86.03	3	10	99.0	0.09	0.15	0.02	UMTS
		Airtel	61.0	86.23	3	10	99.2	0.09	0.15	0.02	UMTS
								<b>0.51</b>	<b>1.18</b>	<b>0.70</b>	



## 6.2.16 Seychelles Main Hospital (CWS) and SBC Hermitage (Airtel)

**Location:** Seychelles Main Hospital  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/12

**Time:** 15:30 - 17:15  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	88.80	3	4	97.8	0.08	0.18	0.02	GSM-900
		Airtel	42.5	84.43	3	4	93.5	0.05	0.11	0.01	GSM-900
		Airtel	42.5	83.68	3	4	92.7	0.04	0.10	0.00	GSM-900
		Airtel	42.5	80.83	3	4	89.9	0.03	0.07	0.00	GSM-900
		CWS	42.1	107.08	3	4	116.1	0.64	1.52	1.08	GSM-900
		CWS	42.1	110.31	3	4	119.3	0.93	2.20	2.27	GSM-900
		CWS	42.1	118.38	3	4	127.4	2.34	5.57	14.58	GSM-900
		CWS	61.0	108.03	3	10	121.0	1.13	1.85	3.36	UMTS
		CWS	61.0	102.74	3	10	115.7	0.61	1.00	0.99	UMTS
		CWS	61.0	91.27	3	10	104.3	0.16	0.27	0.07	UMTS
		CWS	61.0	108.51	3	10	121.5	1.19	1.95	3.76	UMTS
		CWS	61.0	103.35	3	10	116.4	0.66	1.08	1.14	UMTS
		CWS	61.0	90.64	3	10	103.6	0.15	0.25	0.06	UMTS
		CWS	61.0	106.60	3	10	119.6	0.95	1.57	2.42	UMTS
		CWS	39.0	95.02	3	600	125.8	1.95	5.00	10.09	LTE
								<b>3.88</b>	<b>8.67</b>	<b>39.86</b>	

Location: Seychelles Main Hospital  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/12

Time: 15:30 - 17:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	95.73	3	4	104.8	0.17	0.41	0.08	GSM-900
		Airtel	42.5	100.89	3	4	109.9	0.31	0.74	0.26	GSM-900
		Airtel	42.5	96.52	3	4	105.5	0.19	0.45	0.09	GSM-900
		CWS	42.1	95.38	3	4	104.4	0.17	0.39	0.07	GSM-900
		Airtel	42.4	92.10	3	10	105.1	0.18	0.42	0.09	UMTS
		Airtel	42.4	90.42	3	10	103.4	0.15	0.35	0.06	UMTS
		Airtel	42.4	85.27	3	10	98.3	0.08	0.19	0.02	UMTS
		Airtel	61.0	101.80	3	10	114.8	0.55	0.90	0.80	UMTS
		Airtel	61.0	88.30	3	10	101.3	0.12	0.19	0.04	UMTS
		Airtel	61.0	101.37	3	10	114.4	0.52	0.86	0.73	UMTS
		Airtel	61.0	87.29	3	10	100.3	0.10	0.17	0.03	UMTS
		CWS	61.0	83.33	3	10	96.3	0.07	0.11	0.01	UMTS
		CWS	61.0	85.11	3	10	98.1	0.08	0.13	0.02	UMTS
								<b>0.93</b>	<b>1.74</b>	<b>2.29</b>	

Location: Seychelles Main Hospital  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/12

Time: 15:30 - 17:15  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBµV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m²]	
Point No.		MP3									
		Airtel	42.5	102.76	3	4	111.8	0.39	0.91	0.40	GSM-900
		Airtel	42.5	94.30	3	4	103.3	0.15	0.34	0.06	GSM-900
		Airtel	42.5	88.76	3	4	97.8	0.08	0.18	0.02	GSM-900
		CWS	42.1	105.59	3	4	114.6	0.54	1.28	0.77	GSM-900
		CWS	42.1	106.21	3	4	115.2	0.58	1.37	0.88	GSM-900
		CWS	42.1	118.88	3	4	127.9	2.48	5.90	16.36	GSM-900
		Airtel	42.4	95.50	3	10	108.5	0.27	0.63	0.19	UMTS
		Airtel	42.4	88.09	3	10	101.1	0.11	0.27	0.03	UMTS
		Airtel	42.4	82.87	3	10	95.9	0.06	0.15	0.01	UMTS
		Airtel	61.0	103.30	3	10	116.3	0.65	1.07	1.13	UMTS
		Airtel	61.0	101.74	3	10	114.7	0.55	0.89	0.79	UMTS
		Airtel	61.0	85.91	3	10	98.9	0.09	0.14	0.02	UMTS
		CWS	61.0	98.39	3	10	111.4	0.37	0.61	0.37	UMTS
		CWS	61.0	90.04	3	10	103.0	0.14	0.23	0.05	UMTS
		CWS	61.0	88.13	3	10	101.1	0.11	0.19	0.03	UMTS
		CWS	61.0	82.75	3	10	95.8	0.06	0.10	0.01	UMTS
		CWS	61.0	99.36	3	10	112.4	0.41	0.68	0.46	UMTS
		CWS	61.0	89.80	3	10	102.8	0.14	0.23	0.05	UMTS
		CWS	61.0	90.88	3	10	103.9	0.16	0.26	0.06	UMTS
		CWS	61.0	83.80	3	10	96.8	0.07	0.11	0.01	UMTS
		CWS	61.0	98.74	3	10	111.7	0.39	0.63	0.40	UMTS
		CWS	39.0	98.39	3	600	129.2	2.87	7.36	21.92	LTE
		Airtel	39.0	87.85	3	600	118.6	0.85	2.19	1.94	LTE
							<b>4.16</b>		<b>10.11</b>	<b>45.95</b>	



Location: Hermitage (SBC)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 09:31 - 10:14  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	112.69	3	4	121.7	1.22	2.86	3.93	GSM-900
		Airtel	42.5	108.94	3	4	118.0	0.79	1.86	1.66	GSM-900
		Airtel	42.5	107.13	3	4	116.2	0.64	1.51	1.09	GSM-900
		CWS	42.1	89.52	3	4	98.5	0.08	0.20	0.02	GSM-900
		CWS	42.1	88.47	3	4	97.5	0.07	0.18	0.01	GSM-900
		Airtel	42.4	98.90	3	10	111.9	0.39	0.93	0.41	UMTS
		Airtel	42.4	100.78	3	10	113.8	0.49	1.15	0.63	UMTS
		Airtel	42.4	97.86	3	10	110.9	0.35	0.82	0.32	UMTS
		Airtel	61.0	111.56	3	10	124.6	1.69	2.77	7.58	UMTS
		Airtel	61.0	102.41	3	10	115.4	0.59	0.97	0.92	UMTS
		Airtel	61.0	104.77	3	10	117.8	0.77	1.27	1.59	UMTS
		Airtel	61.0	112.34	3	10	125.3	1.85	3.03	9.07	UMTS
		Airtel	61.0	105.76	3	10	118.8	0.87	1.42	1.99	UMTS
		Airtel	61.0	103.32	3	10	116.3	0.65	1.07	1.14	UMTS
		CWS	61.0	82.62	3	10	95.6	0.06	0.10	0.01	UMTS
		CWS	61.0	82.97	3	10	96.0	0.06	0.10	0.01	UMTS
		Airtel	39.3	89.46	3	600	120.2	1.03	2.62	2.80	LTE
		Airtel	39.3	81.32	3	600	112.1	0.40	1.03	0.43	LTE
		Airtel	39.3	80.54	3	600	111.3	0.37	0.94	0.36	LTE
								<b>3.58</b>	<b>6.95</b>	<b>33.99</b>	

## 6.2.17 Plaisance (Airtel)

**Location:** Plaisance  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/05

**Time:** 13:10 - 13:58  
**Weather:** Cloudy, isolated showers  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.4	114.65	3	4	123.7	1.53	3.60	6.18	GSM-900
		Airtel	42.5	91.60	3	4	100.6	0.11	0.25	0.03	GSM-900
		Airtel	42.5	111.00	3	4	120.0	1.00	2.36	2.67	GSM-900
		Airtel	42.5	102.00	3	4	111.0	0.36	0.84	0.34	GSM-900
		Airtel	42.4	100.85	3	10	113.9	0.49	1.16	0.64	UMTS
		Airtel	42.4	86.85	3	10	99.9	0.10	0.23	0.03	UMTS
		Airtel	42.4	88.49	3	10	101.5	0.12	0.28	0.04	UMTS
		Airtel	42.4	86.43	3	10	99.4	0.09	0.22	0.02	UMTS
		Airtel	61.0	102.64	3	10	115.6	0.61	0.99	0.97	UMTS
		Airtel	61.0	99.75	3	10	112.8	0.43	0.71	0.50	UMTS
		Airtel	61.0	94.03	3	10	107.0	0.22	0.37	0.13	UMTS
		Airtel	61.0	102.60	3	10	115.6	0.60	0.99	0.96	UMTS
		Airtel	61.0	99.75	3	10	112.8	0.43	0.71	0.50	UMTS
		Airtel	61.0	94.03	3	10	107.0	0.22	0.37	0.13	UMTS
		Airtel	39.3	88.76	3	600	119.5	0.95	2.42	2.39	LTE
								<b>2.42</b>	<b>5.47</b>	<b>15.53</b>	

Location: Plaisance  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 13:10 - 13:58  
 Weather: Cloudy, isolated showers  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.4	105.59	3	4	114.6	0.54	1.27	0.77	GSM-900
		Airtel	42.5	91.24	3	4	100.3	0.10	0.24	0.03	GSM-900
		Airtel	42.5	107.16	3	4	116.2	0.64	1.52	1.10	GSM-900
		Airtel	42.5	91.24	3	4	100.3	0.10	0.24	0.03	GSM-900
		Airtel	42.4	101.49	3	10	114.5	0.53	1.25	0.75	UMTS
		Airtel	42.4	95.25	3	10	108.3	0.26	0.61	0.18	UMTS
		Airtel	42.4	91.09	3	10	104.1	0.16	0.38	0.07	UMTS
		Airtel	42.4	80.22	3	10	93.2	0.05	0.11	0.01	UMTS
		Airtel	61.0	99.05	3	10	112.1	0.40	0.66	0.43	UMTS
		Airtel	61.0	99.83	3	10	112.8	0.44	0.72	0.51	UMTS
		Airtel	61.0	100.15	3	10	113.2	0.45	0.75	0.55	UMTS
		Airtel	61.0	99.59	3	10	112.6	0.43	0.70	0.48	UMTS
		Airtel	61.0	101.41	3	10	114.4	0.53	0.86	0.73	UMTS
		Airtel	61.0	98.37	3	10	111.4	0.37	0.61	0.36	UMTS
		Airtel	39.3	86.65	3	600	117.4	0.74	1.89	1.47	LTE
								<b>1.68</b>	<b>3.58</b>	<b>7.45</b>	



## 6.2.18 Copolia (Airtel)

**Location:** Copolia  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/05

**Time:** 09:42 - 11:22  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	112.63	3	4	121.7	1.21	2.84	3.88	GSM-900
		Airtel	42.5	92.20	3	4	101.2	0.12	0.27	0.04	GSM-900
		Airtel	42.4	102.15	3	10	115.2	0.57	1.35	0.87	UMTS
		Airtel	61.0	104.06	3	10	117.1	0.71	1.17	1.35	UMTS
		Airtel	61.0	105.44	3	10	118.4	0.84	1.37	1.85	UMTS
								<b>1.73</b>	<b>3.64</b>	<b>7.98</b>	

Location: Copolia  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 09:42 - 11:22  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	90.30	3	4	99.3	0.09	0.22	0.02	GSM-900
		Airtel	42.5	88.92	3	4	97.9	0.08	0.19	0.02	GSM-900
		Airtel	42.5	100.18	3	4	109.2	0.29	0.68	0.22	GSM-900
		Airtel	42.4	92.98	3	10	106.0	0.20	0.47	0.11	UMTS
		Airtel	42.4	89.18	3	10	102.2	0.13	0.30	0.04	UMTS
		Airtel	42.4	86.56	3	10	99.6	0.10	0.22	0.02	UMTS
		Airtel	61.0	105.89	3	10	118.9	0.88	1.44	2.05	UMTS
		Airtel	61.0	100.27	3	10	113.3	0.46	0.76	0.56	UMTS
		Airtel	61.0	103.13	3	10	116.1	0.64	1.05	1.09	UMTS
		Airtel	61.0	106.18	3	10	119.2	0.91	1.49	2.20	UMTS
		Airtel	61.0	103.89	3	10	116.9	0.70	1.15	1.30	UMTS
		Airtel	61.0	101.49	3	10	114.5	0.53	0.87	0.75	UMTS
		Airtel	39.3	87.06	3	600	117.8	0.78	1.99	1.61	LTE
		Airtel	58.6	90.59	3	600	121.4	1.17	2.00	3.64	LTE
								<b>2.27</b>	<b>4.11</b>	<b>13.63</b>	

Location: Copolia  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 09:42 - 11:22  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.5	104.00	3	4	113.0	0.45	1.05	0.53	GSM-900
		Airtel	42.5	88.27	3	4	97.3	0.07	0.17	0.01	GSM-900
		Airtel	42.5	107.50	3	4	116.5	0.67	1.58	1.19	GSM-900
		Airtel	42.4	97.96	3	10	111.0	0.35	0.83	0.33	UMTS
		Airtel	42.4	82.15	3	10	95.2	0.06	0.14	0.01	UMTS
		Airtel	61.0	107.42	3	10	120.4	1.05	1.72	2.92	UMTS
		Airtel	61.0	98.13	3	10	111.1	0.36	0.59	0.34	UMTS
		Airtel	61.0	91.57	3	10	104.6	0.17	0.28	0.08	UMTS
		Airtel	61.0	109.27	3	10	122.3	1.30	2.13	4.47	UMTS
			61.0	98.06	3	10	111.1	0.36	0.59	0.34	UMTS
			61.0	93.11	3	10	106.1	0.20	0.33	0.11	UMTS
		Airtel	39.3	85.08	3	600	115.9	0.62	1.58	1.02	LTE
		Airtel	58.6	82.75	3	600	113.5	0.47	0.81	0.60	LTE
								<b>2.12</b>	<b>3.98</b>	<b>11.96</b>	



6.2.19 Roche Caiman (CWS/Airtel)

Location: Roche Caiman-1  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 14:40 - 15:50  
 Weather: Partly cloudy, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		RC1 MP1									
		Airtel	42.5	90.00	3	4	99.0	0.09	0.21	0.02	GSM-900
		Airtel	42.5	108.62	3	4	117.6	0.76	1.79	1.54	GSM-900
		Airtel	42.5	102.90	3	4	111.9	0.39	0.93	0.41	GSM-900
		Airtel	42.5	82.64	3	4	91.7	0.04	0.09	0.00	GSM-900
		CWS	42.1	99.46	3	4	108.5	0.27	0.63	0.19	GSM-900
		CWS	42.1	100.50	3	4	109.5	0.30	0.71	0.24	GSM-900
		CWS	42.1	85.29	3	4	94.3	0.05	0.12	0.01	GSM-900
		Airtel	42.4	99.63	3	10	112.6	0.43	1.01	0.49	UMTS
		Airtel	42.4	94.83	3	10	107.8	0.25	0.58	0.16	UMTS
		Airtel	42.4	84.13	3	10	97.1	0.07	0.17	0.01	UMTS
		Airtel	42.4	87.71	3	10	100.7	0.11	0.26	0.03	UMTS
		Airtel	61.0	87.81	3	10	100.8	0.11	0.18	0.03	UMTS
		Airtel	61.0	81.20	3	10	94.2	0.05	0.08	0.01	UMTS
		Airtel	61.0	87.72	3	10	100.7	0.11	0.18	0.03	UMTS
		Airtel	61.0	80.36	3	10	93.4	0.05	0.08	0.01	UMTS
		Airtel	61.0	80.71	3	10	93.7	0.05	0.08	0.01	UMTS
		CWS	61.0	94.66	3	10	107.7	0.24	0.40	0.15	UMTS
		CWS	61.0	88.56	3	10	101.6	0.12	0.20	0.04	UMTS
		CWS	61.0	97.15	3	10	110.2	0.32	0.53	0.27	UMTS
		CWS	61.0	93.90	3	10	106.9	0.22	0.36	0.13	UMTS
		CWS	61.0	82.65	3	10	95.7	0.06	0.10	0.01	UMTS
		CWS	61.0	95.28	3	10	108.3	0.26	0.43	0.18	UMTS
		CWS	61.0	80.83	3	10	93.8	0.05	0.08	0.01	UMTS
		CWS	61.0	91.91	3	10	104.9	0.18	0.29	0.08	UMTS
		CWS	61.0	88.19	3	10	101.2	0.11	0.19	0.03	UMTS
		CWS	61.0	100.54	3	10	113.5	0.48	0.78	0.60	UMTS
		CWS	61.0	93.37	3	10	106.4	0.21	0.34	0.11	UMTS
		CWS	39.0	82.71	3	600	113.5	0.47	1.21	0.59	LTE
		Airtel	58.6	82.70	3	600	113.5	0.47	0.81	0.59	LTE
								<b>1.50</b>	<b>3.22</b>	<b>5.99</b>	

Location: Roche Caiman-1  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 14:40 - 15:50  
 Weather: Partly cloudy, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		RC1 MP2									
		Airtel	42.5	103.97	3	4	113.0	0.45	1.05	0.53	GSM-900
		Airtel	42.5	106.86	3	4	115.9	0.62	1.47	1.03	GSM-900
		Airtel	42.5	108.75	3	4	117.8	0.77	1.82	1.59	GSM-900
		Airtel	42.5	89.78	3	4	98.8	0.09	0.21	0.02	GSM-900
		CWS	42.1	104.99	3	4	114.0	0.50	1.19	0.67	GSM-900
		CWS	42.1	89.53	3	4	98.6	0.08	0.20	0.02	GSM-900
		CWS	42.1	89.72	3	4	98.7	0.09	0.21	0.02	GSM-900
		Airtel	42.4	102.12	3	10	115.1	0.57	1.35	0.86	UMTS
		Airtel	42.4	96.64	3	10	109.6	0.30	0.72	0.24	UMTS
		Airtel	42.4	90.98	3	10	104.0	0.16	0.37	0.07	UMTS
		CWS	61.0	114.69	3	10	127.7	2.42	3.97	15.58	UMTS
		CWS	61.0	97.23	3	10	110.2	0.32	0.53	0.28	UMTS
		CWS	61.0	100.10	3	10	113.1	0.45	0.74	0.54	UMTS
		CWS	61.0	83.23	3	10	96.2	0.06	0.11	0.01	UMTS
		CWS	61.0	81.71	3	10	94.7	0.05	0.09	0.01	UMTS
		CWS	61.0	95.87	3	10	108.9	0.28	0.46	0.20	UMTS
		CWS	61.0	88.33	3	10	101.3	0.12	0.19	0.04	UMTS
		CWS	39.0	82.10	3	600	112.9	0.44	1.13	0.52	LTE
								<b>2.89</b>	<b>5.36</b>	<b>22.22</b>	



Location: Roche Caiman-2  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 15:55 - 16:30  
 Weather: Partly cloudy, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max.emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		RC2 MP1									
		Airtel	42.5	108.30	3	4	117.3	0.73	1.73	1.43	GSM-900
		Airtel	42.5	107.35	3	4	116.4	0.66	1.55	1.15	GSM-900
		Airtel	42.1	99.72	3	4	108.7	0.27	0.65	0.20	GSM-900
		CWS	42.1	81.06	3	4	90.1	0.03	0.08	0.00	GSM-900
		CWS	42.1	109.15	3	4	118.2	0.81	1.92	1.74	GSM-900
		CWS	42.1	101.43	3	4	110.5	0.33	0.79	0.29	GSM-900
		Airtel	42.4	101.73	3	10	114.7	0.55	1.29	0.79	UMTS
		Airtel	42.4	98.07	3	10	111.1	0.36	0.84	0.34	UMTS
		CWS	61.0	102.05	3	10	115.1	0.57	0.93	0.85	UMTS
		CWS	61.0	87.01	3	10	100.0	0.10	0.16	0.03	UMTS
		CWS	61.0	90.01	3	10	103.0	0.14	0.23	0.05	UMTS
		CWS	61.0	89.81	3	10	102.8	0.14	0.23	0.05	UMTS
		CWS	61.0	95.44	3	10	108.4	0.26	0.43	0.19	UMTS
		CWS	61.0	102.75	3	10	115.8	0.61	1.01	1.00	UMTS
		CWS	61.0	94.97	3	10	108.0	0.25	0.41	0.17	UMTS
		CWS	61.0	88.22	3	10	101.2	0.12	0.19	0.04	UMTS
		CWS	61.0	83.97	3	10	97.0	0.07	0.12	0.01	UMTS
		CWS	61.0	92.97	3	10	106.0	0.20	0.33	0.10	UMTS
		CWS	61.0	101.61	3	10	114.6	0.54	0.88	0.77	UMTS
		CWS	61.0	93.81	3	10	106.8	0.22	0.36	0.13	UMTS
		CWS	39.0	82.02	3	600	112.8	0.44	1.12	0.51	LTE
		CWS	39.0	86.73	3	600	117.5	0.75	1.92	1.50	LTE
		Airtel	58.6	83.35	3	600	114.1	0.51	0.87	0.69	LTE
		Airtel	58.6	80.34	3	600	111.1	0.36	0.61	0.34	LTE
								<b>2.16</b>	<b>4.69</b>	<b>12.35</b>	

Location: Roche Caiman-2  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/05

Time: 15:55 - 16:30  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBμV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m <sup>2</sup> ]	
Point No.		RC2 MP2									
		Airtel	42.5	113.74	3	4	122.8	1.37	3.23	5.01	GSM-900
		Airtel	42.5	102.10	3	4	111.1	0.36	0.85	0.34	GSM-900
		Airtel	42.5	113.18	3	4	122.2	1.29	3.03	4.40	GSM-900
		Airtel	42.5	87.95	3	4	97.0	0.07	0.17	0.01	GSM-900
		CWS	42.1	100.32	3	4	109.3	0.29	0.70	0.23	GSM-900
		CWS	42.1	83.93	3	4	93.0	0.04	0.11	0.01	GSM-900
		CWS	42.1	108.87	3	4	117.9	0.78	1.86	1.63	GSM-900
		CWS	42.1	97.96	3	4	107.0	0.22	0.53	0.13	GSM-900
		Airtel	42.4	102.93	3	10	115.9	0.63	1.48	1.04	UMTS
		Airtel	42.4	96.41	3	10	109.4	0.30	0.70	0.23	UMTS
		Airtel	61.0	81.88	3	10	94.9	0.06	0.09	0.01	UMTS
		Airtel	61.0	84.91	3	10	97.9	0.08	0.13	0.02	UMTS
		CWS	61.0	89.24	3	10	102.2	0.13	0.21	0.04	UMTS
		CWS	61.0	85.58	3	10	98.6	0.08	0.14	0.02	UMTS
		CWS	61.0	92.95	3	10	106.0	0.20	0.33	0.10	UMTS
		CWS	61.0	84.38	3	10	97.4	0.07	0.12	0.01	UMTS
		CWS	61.0	92.45	3	10	105.5	0.19	0.31	0.09	UMTS
		CWS	61.0	85.90	3	10	98.9	0.09	0.14	0.02	UMTS
		CWS	61.0	81.42	3	10	94.4	0.05	0.09	0.01	UMTS
		CWS	61.0	85.11	3	10	98.1	0.08	0.13	0.02	UMTS
		CWS	61.0	84.62	3	10	97.6	0.08	0.12	0.02	UMTS
		CWS	61.0	92.37	3	10	105.4	0.19	0.30	0.09	UMTS
		Airtel	58.6	85.57	3	600	116.4	0.66	1.12	1.15	LTE
		Airtel	58.6	83.20	3	600	114.0	0.50	0.85	0.66	LTE
								<b>2.40</b>	<b>5.45</b>	<b>15.30</b>	

## 6.2.20 Sunshine House (CWS)

**Location:** Sunshine House (CWS)  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/11

**Time:** 13:33 - 13:57  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	98.18	3	4	107.2	0.23	0.54	0.14	GSM-900
		Airtel	42.5	84.47	3	4	93.5	0.05	0.11	0.01	GSM-900
		CWS	42.1	116.25	3	4	125.3	1.83	4.35	8.93	GSM-900
		CWS	42.1	110.32	3	4	119.3	0.93	2.20	2.28	GSM-900
		CWS	42.1	99.23	3	4	108.3	0.26	0.61	0.18	GSM-900
		Airtel	42.4	84.90	3	10	97.9	0.08	0.19	0.02	UMTS
		CWS	61.0	105.63	3	10	118.6	0.85	1.40	1.93	UMTS
		CWS	61.0	101.85	3	10	114.9	0.55	0.91	0.81	UMTS
		CWS	61.0	106.84	3	10	119.8	0.98	1.61	2.56	UMTS
		CWS	61.0	101.74	3	10	114.7	0.55	0.89	0.79	UMTS
		CWS	61.0	83.04	3	10	96.0	0.06	0.10	0.01	UMTS
		CWS	39.0	87.26	3	600	118.0	0.80	2.04	1.69	LTE
		CWS	39.0	89.29	3	600	120.1	1.01	2.58	2.70	LTE
								<b>2.88</b>	<b>6.45</b>	<b>22.03</b>	



Location: Sunshine House (CWS)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/11

Time: 13:33 - 13:57  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	90.78	3	4	99.8	0.10	0.23	0.03	GSM-900
		Airtel	42.5	81.97	3	4	91.0	0.04	0.08	0.00	GSM-900
		CWS	42.1	122.63	3	4	131.7	3.82	9.08	38.79	GSM-900
		CWS	42.1	108.92	3	4	117.9	0.79	1.87	1.65	GSM-900
		CWS	42.1	116.17	3	4	125.2	1.82	4.32	8.76	GSM-900
		Airtel	42.4	86.53	3	10	99.5	0.09	0.22	0.02	UMTS
		CWS	61.0	97.99	3	10	111.0	0.35	0.58	0.33	UMTS
		CWS	61.0	100.75	3	10	113.8	0.49	0.80	0.63	UMTS
		CWS	61.0	104.61	3	10	117.6	0.76	1.25	1.53	UMTS
		CWS	61.0	107.45	3	10	120.5	1.05	1.73	2.94	UMTS
		CWS	61.0	99.29	3	10	112.3	0.41	0.67	0.45	UMTS
		CWS	61.0	102.07	3	10	115.1	0.57	0.93	0.85	UMTS
		CWS	39.0	90.91	3	600	121.7	1.21	3.11	3.92	LTE
		CWS	39.0	93.61	3	600	124.4	1.66	4.25	7.29	LTE
		CWS	39.0	86.79	3	600	117.6	0.76	1.94	1.52	LTE
								<b>5.09</b>	<b>11.96</b>	<b>68.72</b>	

## 6.2.21 Seychelles International Airport (CWS/Airtel)

Location: Seychelles Intl Airport (Main Term.)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 11/04/2019

Time: 09:48 - 11:51  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	104.24	3	4	113.3	0.46	1.08	0.56	GSM-900
		Airtel	42.5	108.72	3	4	117.7	0.77	1.81	1.58	GSM-900
		Airtel	42.6	107.47	3	4	116.5	0.67	1.57	1.18	GSM-900
		CWS	42.1	115.11	3	4	124.1	1.61	3.82	6.87	GSM-900
		CWS	42.1	101.64	3	4	110.7	0.34	0.81	0.31	GSM-900
		CWS	42.1	99.54	3	4	108.6	0.27	0.64	0.19	GSM-900
		Airtel	42.4	103.66	3	10	116.7	0.68	1.61	1.23	UMTS
		Airtel	42.4	95.83	3	10	108.8	0.28	0.65	0.20	UMTS
		Airtel	42.4	98.17	3	10	111.2	0.36	0.85	0.35	UMTS
		Airtel	42.4	95.13	3	10	108.1	0.25	0.60	0.17	UMTS
		Airtel	42.4	88.82	3	10	101.8	0.12	0.29	0.04	UMTS
		Airtel	61.0	101.59	3	10	114.6	0.54	0.88	0.76	UMTS
		Airtel	61.0	106.60	3	10	119.6	0.95	1.57	2.42	UMTS
		Airtel	61.0	94.86	3	10	107.9	0.25	0.41	0.16	UMTS
		Airtel	61.0	90.43	3	10	103.4	0.15	0.24	0.06	UMTS
		Airtel	61.0	102.07	3	10	115.1	0.57	0.93	0.85	UMTS
		Airtel	61.0	107.47	3	10	120.5	1.06	1.73	2.96	UMTS
		Airtel	61.0	92.10	3	10	105.1	0.18	0.29	0.09	UMTS
		Airtel	61.0	95.86	3	10	108.9	0.28	0.45	0.20	UMTS
		CWS	61.0	105.94	3	10	118.9	0.89	1.45	2.08	UMTS
		CWS	61.0	93.93	3	10	106.9	0.22	0.36	0.13	UMTS
		CWS	61.0	90.81	3	10	103.8	0.16	0.25	0.06	UMTS
		CWS	61.0	105.50	3	10	118.5	0.84	1.38	1.88	UMTS
		CWS	61.0	96.72	3	10	109.7	0.31	0.50	0.25	UMTS
		CWS	61.0	96.16	3	10	109.2	0.29	0.47	0.22	UMTS
		CWS	61.0	95.65	3	10	108.7	0.27	0.44	0.19	UMTS
		CWS	39.0	97.09	3	600	127.9	2.48	6.34	16.25	LTE
		CWS	39.0	80.38	3	600	111.2	0.36	0.93	0.35	LTE
		Airtel	39.3	89.40	3	600	120.2	1.02	2.60	2.77	LTE
		Airtel	58.6	91.88	3	600	122.7	1.36	2.32	4.90	LTE
		Airtel	58.6	86.76	3	600	117.5	0.75	1.29	1.51	LTE
							<b>4.37</b>		<b>9.70</b>	<b>50.75</b>	

Location: Seychelles Intl Airport (Main Term.)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 11/04/2019

Time: 09:48 - 11:51  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBμV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	120.64	3	4	129.7	3.04	7.16	24.53	GSM-900
		Airtel	42.5	101.45	3	4	110.5	0.33	0.79	0.30	GSM-900
		Airtel	42.6	93.23	3	4	102.3	0.13	0.30	0.04	GSM-900
		CWS	42.1	92.72	3	4	101.7	0.12	0.29	0.04	GSM-900
		CWS	42.1	108.49	3	4	117.5	0.75	1.78	1.50	GSM-900
		CWS	42.1	90.45	3	4	99.5	0.09	0.22	0.02	GSM-900
		Airtel	42.4	115.98	3	10	129.0	2.81	6.63	20.97	UMTS
		Airtel	42.4	90.40	3	10	103.4	0.15	0.35	0.06	UMTS
		Airtel	61.0	114.86	3	10	127.9	2.47	4.05	16.21	UMTS
		Airtel	61.0	114.13	3	10	127.1	2.27	3.73	13.70	UMTS
		Airtel	61.0	87.77	3	10	100.8	0.11	0.18	0.03	UMTS
		Airtel	61.0	81.31	3	10	94.3	0.05	0.09	0.01	UMTS
		CWS	61.0	92.72	3	10	105.7	0.19	0.32	0.10	UMTS
		CWS	61.0	86.44	3	10	99.4	0.09	0.15	0.02	UMTS
		CWS	61.0	83.97	3	10	97.0	0.07	0.12	0.01	UMTS
		CWS	61.0	91.27	3	10	104.3	0.16	0.27	0.07	UMTS
		CWS	61.0	82.83	3	10	95.8	0.06	0.10	0.01	UMTS
		CWS	61.0	86.79	3	10	99.8	0.10	0.16	0.03	UMTS
		CWS	61.0	92.81	3	10	105.8	0.20	0.32	0.10	UMTS
		CWS	39.0	88.42	3	600	119.2	0.91	2.34	2.21	LTE
		Airtel	39.3	81.70	3	600	112.5	0.42	1.07	0.47	LTE
		Airtel	58.6	80.07	3	600	110.9	0.35	0.60	0.32	LTE
								<b>5.52</b>	<b>11.71</b>	<b>80.75</b>	



**Location:** Seychelles Intl Airport (Main Term.)  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 11/04/2019

**Time:** 09:48 - 11:51  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.5	102.55	3	4	111.6	0.38	0.89	0.38	GSM-900
		Airtel	42.5	90.53	3	4	99.6	0.09	0.22	0.02	GSM-900
		Airtel	42.6	84.97	3	4	94.0	0.05	0.12	0.01	GSM-900
		CWS	42.1	99.80	3	4	108.8	0.28	0.66	0.20	GSM-900
		Airtel	42.4	95.26	3	10	108.3	0.26	0.61	0.18	UMTS
		Airtel	42.4	84.44	3	10	97.4	0.07	0.18	0.01	UMTS
		Airtel	42.4	82.80	3	10	95.8	0.06	0.15	0.01	UMTS
		Airtel	61.0	97.71	3	10	110.7	0.34	0.56	0.31	UMTS
		Airtel	61.0	97.90	3	10	110.9	0.35	0.58	0.33	UMTS
		CWS	61.0	88.15	3	10	101.2	0.11	0.19	0.03	UMTS
		CWS	61.0	88.50	3	10	101.5	0.12	0.19	0.04	UMTS
		CWS	61.0	89.55	3	10	102.6	0.13	0.22	0.05	UMTS
								<b>0.77</b>	<b>1.58</b>	<b>1.57</b>	

Location: Seychelles Intl Airport (Main Term.)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 11/04/2019

Time: 09:48 - 11:51  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBµV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.5	96.01	3	4	105.0	0.18	0.42	0.08	GSM-900
		Airtel	42.5	99.39	3	4	108.4	0.26	0.62	0.18	GSM-900
		Airtel	42.6	99.54	3	4	108.6	0.27	0.63	0.19	GSM-900
		CWS	42.1	103.01	3	4	112.0	0.40	0.95	0.42	GSM-900
		CWS	42.1	90.53	3	4	99.6	0.09	0.23	0.02	GSM-900
		CWS	42.1	94.80	3	4	103.8	0.16	0.37	0.06	GSM-900
		Airtel	42.4	97.51	3	10	110.5	0.34	0.79	0.30	UMTS
		Airtel	42.4	87.16	3	10	100.2	0.10	0.24	0.03	UMTS
		Airtel	42.4	89.19	3	10	102.2	0.13	0.30	0.04	UMTS
		Airtel	42.4	90.90	3	10	103.9	0.16	0.37	0.07	UMTS
		Airtel	42.4	81.23	3	10	94.2	0.05	0.12	0.01	UMTS
		Airtel	61.0	94.46	3	10	107.5	0.24	0.39	0.15	UMTS
		Airtel	61.0	91.35	3	10	104.4	0.17	0.27	0.07	UMTS
		Airtel	61.0	88.04	3	10	101.0	0.11	0.18	0.03	UMTS
		Airtel	61.0	82.44	3	10	95.4	0.06	0.10	0.01	UMTS
		Airtel	61.0	93.58	3	10	106.6	0.21	0.35	0.12	UMTS
		Airtel	61.0	94.24	3	10	107.2	0.23	0.38	0.14	UMTS
		Airtel	61.0	86.70	3	10	99.7	0.10	0.16	0.02	UMTS
		Airtel	61.0	83.96	3	10	97.0	0.07	0.12	0.01	UMTS
		CWS	61.0	98.72	3	10	111.7	0.39	0.63	0.39	UMTS
		CWS	61.0	96.71	3	10	109.7	0.31	0.50	0.25	UMTS
		CWS	61.0	80.31	3	10	93.3	0.05	0.08	0.01	UMTS
		CWS	61.0	80.91	3	10	93.9	0.05	0.08	0.01	UMTS
		Airtel	39.3	89.40	3	600	120.2	1.02	2.60	2.77	LTE
								<b>1.43</b>	<b>3.31</b>	<b>5.39</b>	

**Location:** Seychelles Int. Airport (Domestic term.)  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 11/04/2019

**Time:** 14:30 - 14:54  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	111.09	3	4	120.1	1.01	2.38	2.72	GSM-900
		Airtel	42.4	103.21	3	4	112.2	0.41	0.96	0.44	GSM-900
		Airtel	42.5	102.01	3	4	111.0	0.36	0.84	0.34	GSM-900
		Airtel	42.5	98.25	3	4	107.3	0.23	0.54	0.14	GSM-900
		CWS	42.1	91.23	3	4	100.3	0.10	0.24	0.03	GSM-900
		Airtel	42.4	106.16	3	10	119.2	0.91	2.14	2.19	UMTS
		Airtel	42.4	96.07	3	10	109.1	0.28	0.67	0.21	UMTS
		Airtel	42.4	88.12	3	10	101.1	0.11	0.27	0.03	UMTS
		Airtel	61.0	102.45	3	10	115.5	0.59	0.97	0.93	UMTS
		Airtel	61.0	97.41	3	10	110.4	0.33	0.54	0.29	UMTS
		Airtel	61.0	85.88	3	10	98.9	0.09	0.14	0.02	UMTS
		Airtel	61.0	106.33	3	10	119.3	0.93	1.52	2.27	UMTS
		Airtel	61.0	99.03	3	10	112.0	0.40	0.65	0.42	UMTS
		Airtel	61.0	90.51	3	10	103.5	0.15	0.25	0.06	UMTS
		CWS	61.0	84.28	3	10	97.3	0.07	0.12	0.01	UMTS
		CWS	61.0	85.66	3	10	98.7	0.09	0.14	0.02	UMTS
		CWS	61.0	83.63	3	10	96.6	0.07	0.11	0.01	UMTS
		Airtel	39.3	91.05	3	600	121.8	1.23	3.14	4.04	LTE
								<b>2.31</b>	<b>5.17</b>	<b>14.19</b>	



Location: Seychelles Intl Airport (Domestic Term.)  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 11/04/2019

Time: 14:30 - 14:54  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	112.34	3	4	121.4	1.17	2.75	3.63	GSM-900
		Airtel	42.4	108.91	3	4	117.9	0.79	1.86	1.65	GSM-900
		Airtel	42.5	98.28	3	4	107.3	0.23	0.54	0.14	GSM-900
		Airtel	42.5	104.77	3	4	113.8	0.49	1.15	0.63	GSM-900
		CWS	42.1	88.57	3	4	97.6	0.08	0.18	0.02	GSM-900
		Airtel	42.4	104.13	3	10	117.1	0.72	1.70	1.37	UMTS
		Airtel	42.4	101.55	3	10	114.6	0.53	1.26	0.76	UMTS
		Airtel	61.0	110.24	3	10	123.2	1.45	2.38	5.59	UMTS
		Airtel	61.0	105.26	3	10	118.3	0.82	1.34	1.78	UMTS
		Airtel	61.0	110.47	3	10	123.5	1.49	2.44	5.90	UMTS
		Airtel	61.0	105.05	3	10	118.1	0.80	1.31	1.69	UMTS
		Airtel	39.3	98.37	3	600	129.2	2.87	7.30	21.82	LTE
		Airtel	39.3	90.65	3	600	121.4	1.18	3.00	3.69	LTE
								<b>4.28</b>	<b>9.73</b>	<b>48.66</b>	

## 6.2.22 Port Launay (Airtel)

**Location:** Port Launay  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/13

**Time:** 10:33 - 11:00  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	41.7	102.86	3	4	111.9	0.39	0.94	0.41	GSM-900
		Airtel	41.7	98.86	3	4	107.9	0.25	0.59	0.16	GSM-900
		Airtel	41.7	90.29	3	4	99.3	0.09	0.22	0.02	GSM-900
		CWS	41.7	85.44	3	4	94.5	0.05	0.13	0.01	GSM-900
		CWS	41.7	85.27	3	4	94.3	0.05	0.12	0.01	GSM-900
		Airtel	41.7	96.16	3	10	109.2	0.29	0.69	0.22	UMTS
		Airtel	41.7	87.14	3	10	100.1	0.10	0.24	0.03	UMTS
		Airtel	61.0	93.82	3	10	106.8	0.22	0.36	0.13	UMTS
		Airtel	61.0	82.75	3	10	95.8	0.06	0.10	0.01	UMTS
								<b>0.61</b>	<b>1.41</b>	<b>0.99</b>	

**Location:** Port Launay  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/13

**Time:** 10:33 - 11:00  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	41.7	99.85	3	4	108.9	0.28	0.67	0.20	GSM-900
		Airtel	41.7	102.15	3	4	111.2	0.36	0.87	0.35	GSM-900
		Airtel	41.7	94.21	3	4	103.2	0.15	0.35	0.06	GSM-900
		CWS	41.7	80.94	3	4	90.0	0.03	0.08	0.00	GSM-900
		CWS	41.7	83.06	3	4	92.1	0.04	0.10	0.00	GSM-900
		Airtel	41.7	94.03	3	10	107.0	0.22	0.54	0.13	UMTS
		Airtel	41.7	95.17	3	10	108.2	0.26	0.61	0.17	UMTS
		Airtel	41.7	95.97	3	10	109.0	0.28	0.67	0.21	UMTS
		Airtel	61.0	101.18	3	10	114.2	0.51	0.84	0.69	UMTS
		Airtel	61.0	100.62	3	10	113.6	0.48	0.79	0.61	UMTS
		Airtel	61.0	96.66	3	10	109.7	0.30	0.50	0.25	UMTS
		Airtel	39.2	82.27	3	600	113.1	0.45	1.15	0.54	LTE
								<b>1.10</b>	<b>2.31</b>	<b>3.22</b>	



## 6.2.23 Grand Anse – Praslin (CWS/Airtel)

Location: Grand Anse, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 09:31 - 10:14  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dB $\mu$ V/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dB $\mu$ V/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	97.58	3	4	106.6	0.21	0.50	0.12	GSM-900
		Airtel	42.5	97.42	3	4	106.4	0.21	0.49	0.12	GSM-900
		Airtel	42.5	94.09	3	4	103.1	0.14	0.34	0.05	GSM-900
		CWS	42.1	99.66	3	4	108.7	0.27	0.65	0.20	GSM-900
		CWS	42.1	100.24	3	4	109.3	0.29	0.69	0.22	GSM-900
		CWS	42.1	87.68	3	4	96.7	0.07	0.16	0.01	GSM-900
		Airtel	42.4	88.90	3	10	101.9	0.12	0.29	0.04	UMTS
		Airtel	42.4	83.78	3	10	96.8	0.07	0.16	0.01	UMTS
		Airtel	42.4	85.24	3	10	98.2	0.08	0.19	0.02	UMTS
		Airtel	61.0	94.93	3	10	107.9	0.25	0.41	0.16	UMTS
		Airtel	61.0	93.21	3	10	106.2	0.20	0.34	0.11	UMTS
		Airtel	61.0	88.98	3	10	102.0	0.13	0.21	0.04	UMTS
		CWS	61.0	105.26	3	10	118.3	0.82	1.34	1.78	UMTS
		CWS	61.0	84.04	3	10	97.0	0.07	0.12	0.01	UMTS
		CWS	39.0	80.87	3	600	111.7	0.38	0.98	0.39	LTE
								<b>1.11</b>	<b>2.19</b>	<b>3.29</b>	

Location: Grand Anse, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 09:31 - 10:14  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	96.13	3	4	105.2	0.18	0.43	0.09	GSM-900
		Airtel	42.5	93.28	3	4	102.3	0.13	0.31	0.05	GSM-900
		Airtel	42.5	96.21	3	4	105.2	0.18	0.43	0.09	GSM-900
		CWS	42.1	103.48	3	4	112.5	0.42	1.00	0.47	GSM-900
		CWS	42.1	100.76	3	4	109.8	0.31	0.73	0.25	GSM-900
		CWS	42.1	89.67	3	4	98.7	0.09	0.20	0.02	GSM-900
		Airtel	42.4	80.91	3	10	93.9	0.05	0.12	0.01	UMTS
		Airtel	42.4	85.58	3	10	98.6	0.08	0.20	0.02	UMTS
		Airtel	42.4	84.12	3	10	97.1	0.07	0.17	0.01	UMTS
		Airtel	61.0	86.24	3	10	99.2	0.09	0.15	0.02	UMTS
		Airtel	61.0	95.81	3	10	108.8	0.28	0.45	0.20	UMTS
		Airtel	61.0	92.86	3	10	105.9	0.20	0.32	0.10	UMTS
		CWS	61.0	106.59	3	10	119.6	0.95	1.56	2.41	UMTS
		CWS	61.0	96.05	3	10	109.1	0.28	0.46	0.21	UMTS
		CWS	61.0	85.03	3	10	98.0	0.08	0.13	0.02	UMTS
								<b>1.22</b>	<b>2.27</b>	<b>3.97</b>	

Location: Grand Anse, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 09:31 - 10:14  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBµV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m²]	
Point No.		MP3									
		Airtel	42.5	102.83	3	4	111.9	0.39	0.92	0.41	GSM-900
		Airtel	42.5	97.48	3	4	106.5	0.21	0.50	0.12	GSM-900
		Airtel	42.5	94.81	3	4	103.8	0.16	0.37	0.06	GSM-900
		CWS	42.1	100.89	3	4	109.9	0.31	0.74	0.26	GSM-900
		CWS	42.1	106.68	3	4	115.7	0.61	1.45	0.99	GSM-900
		CWS	42.1	91.05	3	4	100.1	0.10	0.24	0.03	GSM-900
		Airtel	42.4	95.56	3	10	108.6	0.27	0.63	0.19	UMTS
		Airtel	42.4	86.50	3	10	99.5	0.09	0.22	0.02	UMTS
		Airtel	42.4	85.12	3	10	98.1	0.08	0.19	0.02	UMTS
		Airtel	61.0	92.07	3	10	105.1	0.18	0.29	0.09	UMTS
		Airtel	61.0	84.67	3	10	97.7	0.08	0.13	0.02	UMTS
		Airtel	61.0	88.66	3	10	101.7	0.12	0.20	0.04	UMTS
		CWS	61.0	103.10	3	10	116.1	0.64	1.05	1.08	UMTS
		CWS	61.0	96.50	3	10	109.5	0.30	0.49	0.24	UMTS
		CWS	61.0	84.15	3	10	97.2	0.07	0.12	0.01	UMTS
		CWS	61.0	89.77	3	10	102.8	0.14	0.23	0.05	UMTS
		CWS	39.0	83.74	3	600	114.5	0.53	1.36	0.75	LTE
		CWS	39.0	85.77	3	600	116.6	0.67	1.72	1.20	LTE
		Airtel	58.6	80.23	3	600	111.0	0.36	0.61	0.33	LTE
		Airtel	58.6	80.23	3	600	111.0	0.36	0.61	0.33	LTE
							<b>1.53</b>	<b>3.39</b>	<b>6.23</b>		



Location: Grand Anse, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 09:31 - 10:14  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBμV/m]	Meas. Uncert. [dB]	Factor max. emission	Emax [dBμV/m]	Emax [V/m]	Emax Limit consumpt. [%]	Smax [mW/m²]	
Point No.		MP4									
		Airtel	42.5	85.31	3	4	94.3	0.05	0.12	0.01	GSM-900
		Airtel	42.5	100.80	3	4	109.8	0.31	0.73	0.25	GSM-900
		Airtel	42.5	107.01	3	4	116.0	0.63	1.49	1.06	GSM-900
		CWS	42.1	88.29	3	4	97.3	0.07	0.17	0.01	GSM-900
		CWS	42.1	103.82	3	4	112.8	0.44	1.04	0.51	GSM-900
		CWS	42.1	105.02	3	4	114.0	0.50	1.20	0.67	GSM-900
		Airtel	42.4	91.45	3	10	104.5	0.17	0.39	0.07	UMTS
		Airtel	42.4	93.10	3	10	106.1	0.20	0.48	0.11	UMTS
		Airtel	61.0	92.27	3	10	105.3	0.18	0.30	0.09	UMTS
		Airtel	61.0	84.77	3	10	97.8	0.08	0.13	0.02	UMTS
		Airtel	61.0	97.33	3	10	110.3	0.33	0.54	0.29	UMTS
		CWS	61.0	97.29	3	10	110.3	0.33	0.54	0.28	UMTS
		CWS	61.0	88.29	3	10	101.3	0.12	0.19	0.04	UMTS
		CWS	61.0	90.72	3	10	103.7	0.15	0.25	0.06	UMTS
		CWS	61.0	92.74	3	10	105.7	0.19	0.32	0.10	UMTS
		CWS	39.0	81.26	3	600	112.0	0.40	1.02	0.42	LTE
		CWS	39.0	84.25	3	600	115.0	0.56	1.45	0.84	LTE
		Airtel	58.6	83.92	3	600	114.7	0.54	0.93	0.78	LTE
		Airtel	58.6	81.61	3	600	112.4	0.42	0.71	0.46	LTE
								<b>1.52</b>	<b>3.33</b>	<b>6.09</b>	

## 6.2.24 Pt. Cabris – Praslin (CWS/Airtel)

**Location:** Pt Cabris, Praslin  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/16

**Time:** 10:54 - 11:48  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	118.28	3	4	127.3	2.32	5.45	14.25	GSM-900
		Airtel	42.5	108.70	3	4	117.7	0.77	1.81	1.57	GSM-900
		Airtel	42.4	105.94	3	4	115.0	0.56	1.32	0.83	GSM-900
		CWS	42.1	107.19	3	4	116.2	0.65	1.54	1.11	GSM-900
		CWS	42.1	89.12	3	4	98.1	0.08	0.19	0.02	GSM-900
		CWS	42.1	94.28	3	4	103.3	0.15	0.35	0.06	GSM-900
		Airtel	42.4	111.50	3	10	124.5	1.68	3.96	7.48	UMTS
		Airtel	42.4	98.41	3	10	111.4	0.37	0.88	0.37	UMTS
		Airtel	42.4	98.49	3	10	111.5	0.38	0.89	0.37	UMTS
		Airtel	61.0	102.09	3	10	115.1	0.57	0.93	0.86	UMTS
		Airtel	61.0	101.04	3	10	114.0	0.50	0.83	0.67	UMTS
		Airtel	61.0	93.77	3	10	106.8	0.22	0.36	0.13	UMTS
		Airtel	61.0	102.24	3	10	115.2	0.58	0.95	0.89	UMTS
		Airtel	61.0	103.59	3	10	116.6	0.68	1.11	1.21	UMTS
		Airtel	61.0	91.84	3	10	104.8	0.17	0.29	0.08	UMTS
		CWS	61.0	91.45	3	10	104.5	0.17	0.27	0.07	UMTS
		CWS	61.0	86.71	3	10	99.7	0.10	0.16	0.02	UMTS
		CWS	61.0	82.57	3	10	95.6	0.06	0.10	0.01	UMTS
		CWS	61.0	85.14	3	10	98.1	0.08	0.13	0.02	UMTS
		CWS	61.0	82.45	3	10	95.5	0.06	0.10	0.01	UMTS
		CWS	61.0	81.54	3	10	94.5	0.05	0.09	0.01	UMTS
		Airtel	58.6	92.16	3	600	122.9	1.40	2.40	5.22	LTE
		Airtel	58.6	83.24	3	600	114.02	0.50	0.86	0.67	LTE
								<b>3.68</b>	<b>8.06</b>	<b>35.91</b>	

Location: Pt Cabris, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 10:54 - 11:48  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS)/ Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP2									
		Airtel	42.5	115.85	3	4	124.9	1.75	4.12	8.14	GSM-900
		Airtel	42.5	107.13	3	4	116.2	0.64	1.51	1.09	GSM-900
		Airtel	42.4	103.19	3	4	112.2	0.41	0.96	0.44	GSM-900
		CWS	42.1	105.37	3	4	114.4	0.52	1.25	0.73	GSM-900
		CWS	42.1	88.32	3	4	97.3	0.07	0.17	0.01	GSM-900
		CWS	42.1	92.65	3	4	101.7	0.12	0.29	0.04	GSM-900
		Airtel	42.4	109.86	3	10	122.9	1.39	3.28	5.12	UMTS
		Airtel	42.4	99.38	3	10	112.4	0.42	0.98	0.46	UMTS
		Airtel	42.4	94.65	3	10	107.7	0.24	0.57	0.15	UMTS
		Airtel	61.0	99.97	3	10	113.0	0.45	0.73	0.53	UMTS
		Airtel	61.0	96.75	3	10	109.8	0.31	0.50	0.25	UMTS
		Airtel	61.0	91.71	3	10	104.7	0.17	0.28	0.08	UMTS
		Airtel	61.0	86.24	3	10	99.2	0.09	0.15	0.02	UMTS
		Airtel	61.0	95.81	3	10	108.8	0.28	0.45	0.20	UMTS
		Airtel	61.0	92.86	3	10	105.9	0.20	0.32	0.10	UMTS
		CWS	61.0	93.87	3	10	106.9	0.22	0.36	0.13	UMTS
		CWS	61.0	85.02	3	10	98.0	0.08	0.13	0.02	UMTS
		CWS	61.0	81.77	3	10	94.8	0.05	0.09	0.01	UMTS
		CWS	61.0	87.99	3	10	101.0	0.11	0.18	0.03	UMTS
		CWS	61.0	83.42	3	10	96.4	0.07	0.11	0.01	UMTS
		CWS	61.0	82.31	3	10	95.3	0.06	0.10	0.01	UMTS
		CWS	39.0	81.53	3	600	112.3	0.41	1.06	0.45	LTE
							<b>2.61</b>	<b>6.04</b>	<b>18.04</b>		



Location: Pt Cabris, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 10:54 - 11:48  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP3									
		Airtel	42.5	118.95	3	4	128.0	2.50	5.89	16.62	GSM-900
		Airtel	42.5	101.95	3	4	111.0	0.35	0.83	0.33	GSM-900
		Airtel	42.4	110.31	3	4	119.3	0.93	2.18	2.27	GSM-900
		CWS	42.1	100.00	3	4	109.0	0.28	0.67	0.21	GSM-900
		CWS	42.1	85.02	3	4	94.0	0.05	0.12	0.01	GSM-900
		CWS	42.1	92.93	3	4	102.0	0.13	0.30	0.04	GSM-900
		Airtel	42.4	110.67	3	10	123.7	1.53	3.60	6.18	UMTS
		Airtel	42.4	100.51	3	10	113.5	0.47	1.12	0.60	UMTS
		Airtel	42.4	104.64	3	10	117.6	0.76	1.80	1.54	UMTS
		Airtel	61.0	99.79	3	10	112.8	0.44	0.71	0.50	UMTS
		Airtel	61.0	92.81	3	10	105.8	0.20	0.32	0.10	UMTS
		Airtel	61.0	91.22	3	10	104.2	0.16	0.27	0.07	UMTS
		Airtel	61.0	100.59	3	10	113.6	0.48	0.78	0.61	UMTS
		Airtel	61.0	87.61	3	10	100.6	0.11	0.18	0.03	UMTS
		Airtel	61.0	91.75	3	10	104.8	0.17	0.28	0.08	UMTS
		CWS	61.0	90.34	3	10	103.3	0.15	0.24	0.06	UMTS
		CWS	61.0	84.57	3	10	97.6	0.08	0.12	0.02	UMTS
		CWS	61.0	85.14	3	10	98.1	0.08	0.13	0.02	UMTS
		CWS	39.0	83.74	3	600	114.5	0.53	1.36	0.75	LTE
		Airtel	58.6	87.31	3	600	118.1	0.80	1.37	1.71	LTE
		Airtel	58.6	83.58	3	600	114.4	0.52	0.89	0.72	LTE
		Airtel	58.6	87.19	3	600	117.97	0.79	1.35	1.66	LTE
								<b>3.59</b>	<b>8.12</b>	<b>34.13</b>	

Location: Port Cabris, Praslin  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE+DTT  
 Date: 2019/04/16

Time: 10:54 - 11:48  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+No of MIMO path (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP4									
		Airtel	42.5	108.62	3	4	117.6	0.76	1.79	1.54	GSM-900
		Airtel	42.5	100.74	3	4	109.8	0.31	0.72	0.25	GSM-900
		Airtel	42.4	111.54	3	4	120.6	1.07	2.51	3.02	GSM-900
		CWS	42.1	94.91	3	4	103.9	0.16	0.37	0.07	GSM-900
		CWS	42.1	78.49	3	4	87.5	0.02	0.06	0.00	GSM-900
		CWS	42.1	94.90	3	4	103.9	0.16	0.37	0.07	GSM-900
		Airtel	42.4	99.14	3	10	112.1	0.40	0.95	0.43	UMTS
		Airtel	42.4	104.14	3	10	117.1	0.72	1.70	1.37	UMTS
		Airtel	42.4	89.49	3	10	102.5	0.13	0.31	0.05	UMTS
		Airtel	61.0	100.15	3	10	113.2	0.45	0.75	0.55	UMTS
		Airtel	61.0	94.31	3	10	107.3	0.23	0.38	0.14	UMTS
		Airtel	61.0	84.58	3	10	97.6	0.08	0.12	0.02	UMTS
		Airtel	61.0	99.06	3	10	112.1	0.40	0.66	0.43	UMTS
		Airtel	61.0	91.68	3	10	104.7	0.17	0.28	0.08	UMTS
		Airtel	61.0	87.68	3	10	100.7	0.11	0.18	0.03	UMTS
		CWS	61.0	84.35	3	10	97.4	0.07	0.12	0.01	UMTS
		CWS	61.0	84.43	3	10	97.4	0.07	0.12	0.01	UMTS
		CWS	61.0	83.21	3	10	96.2	0.06	0.11	0.01	UMTS
		CWS	39.0	81.26	3	600	112.0	0.40	1.02	0.42	LTE
		Airtel	58.6	82.25	3	600	113.0	0.45	0.77	0.53	LTE
		SBC	32.6	105.64	3	1	108.64	0.27	0.83	0.19	DVB-T2
								<b>1.87</b>	<b>4.23</b>	<b>9.23</b>	

## 6.2.25 Anse Reunion – La Digue (CWS/Airtel)

**Location:** Anse Reunion, LaDigue  
**Responsible:** Vaughan Taylor  
**Signals:** GSM+UMTS+LTE  
**Date:** 2019/04/16

**Time:** 15:01 - 15:18  
**Weather:** Sunshine, dry  
**Analyzer:** SRM-3006  
**Antenna:** 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11	
f [MHz]	Scr. Code (UMTS) / Cell-ID+MIMO (LTE)	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m <sup>2</sup> ]	
Point No.		MP1									
		Airtel	42.5	98.10	3	4	107.1	0.23	0.53	0.14	GSM-900
		Airtel	42.5	87.48	3	4	96.5	0.07	0.16	0.01	GSM-900
		Airtel	42.5	87.65	3	4	96.7	0.07	0.16	0.01	GSM-900
		CWS	42.0	103.59	3	4	112.6	0.43	1.02	0.48	GSM-900
		CWS	42.1	104.36	3	4	113.4	0.47	1.11	0.58	GSM-900
		CWS	42.1	96.26	3	4	105.3	0.18	0.44	0.09	GSM-900
		Airtel	42.4	87.07	3	10	100.1	0.10	0.24	0.03	UMTS
		Airtel	61.0	81.62	3	10	94.6	0.05	0.09	0.01	UMTS
		Airtel	61.0	80.04	3	10	93.0	0.04	0.07	0.01	UMTS
		Airtel	61.0	83.52	3	10	96.5	0.07	0.11	0.01	UMTS
		CWS	61.0	99.62	3	10	112.6	0.43	0.70	0.48	UMTS
		CWS	61.0	91.17	3	10	104.2	0.16	0.26	0.07	UMTS
		CWS	61.0	85.98	3	10	99.0	0.09	0.15	0.02	UMTS
		CWS	61.0	104.66	3	10	117.7	0.76	1.25	1.55	UMTS
		CWS	61.0	95.67	3	10	108.7	0.27	0.44	0.20	UMTS
		CWS	61.0	87.35	3	10	100.4	0.10	0.17	0.03	UMTS
		CWS	61.0	89.69	3	10	102.7	0.14	0.22	0.05	UMTS
								<b>1.19</b>	<b>2.30</b>	<b>3.76</b>	



Location: Anse Reunion, LaDigue  
 Responsible: Vaughan Taylor  
 Signals: GSM+UMTS+LTE  
 Date: 2019/04/16

Time: 15:00 - 15:18  
 Weather: Sunshine, dry  
 Analyzer: SRM-3006  
 Antenna: 3AX420M-6G

1	2	3	4	5	6	7	8	9	10	11		
f [MHz]	UMTS Scr. Code/Cell ID+MIMO path	Operator	Limit [V/m]	E (measured) [dBµV/m]	Meas. Uncert. [dB]	Factor max. emission	E <sub>max</sub> [dBµV/m]	E <sub>max</sub> [V/m]	E <sub>max</sub> Limit consumpt. [%]	S <sub>max</sub> [mW/m²]		
Point No.		MP2										
		Airtel	42.5	99.87	3	4	108.9	0.28	0.65	0.21	GSM-900	
		Airtel	42.5	86.62	3	4	95.6	0.06	0.14	0.01	GSM-900	
		Airtel	42.5	88.58	3	4	97.6	0.08	0.18	0.02	GSM-900	
		CWS	42.0	90.58	3	4	99.6	0.10	0.23	0.02	GSM-900	
		CWS	42.1	95.95	3	4	105.0	0.18	0.42	0.08	GSM-900	
		CWS	42.1	93.54	3	4	102.6	0.13	0.32	0.05	GSM-900	
		Airtel	42.4	94.15	3	10	107.2	0.23	0.54	0.14	UMTS	
		Airtel	42.4	86.52	3	10	99.5	0.09	0.22	0.02	UMTS	
		Airtel	42.4	84.72	3	10	97.7	0.08	0.18	0.02	UMTS	
		Airtel	61.0	92.47	3	10	105.5	0.19	0.31	0.09	UMTS	
		Airtel	61.0	80.55	3	10	93.6	0.05	0.08	0.01	UMTS	
		Airtel	61.0	93.14	3	10	106.1	0.20	0.33	0.11	UMTS	
		Airtel	61.0	81.50	3	10	94.5	0.05	0.09	0.01	UMTS	
		CWS	61.0	85.91	3	10	98.9	0.09	0.14	0.02	UMTS	
		CWS	61.0	104.36	3	10	117.4	0.74	1.21	1.44	UMTS	
		CWS	61.0	99.11	3	10	112.1	0.40	0.66	0.43	UMTS	
		CWS	61.0	103.70	3	10	116.7	0.68	1.12	1.24	UMTS	
		CWS	61.0	98.18	3	10	111.2	0.36	0.59	0.35	UMTS	
		CWS	61.0	88.95	3	10	102.0	0.13	0.21	0.04	UMTS	
		CWS	61.0	102.15	3	10	115.2	0.57	0.94	0.87	UMTS	
		CWS	39.0	80.47	3	600	111.3	0.37	0.94	0.35	LTE	
									<b>1.44</b>	<b>2.59</b>	<b>5.53</b>	

## 6.3 Appendix A3 – Explanation of the Exposure Limits

The measured and documented exposure in this report was assessed with regard to the ICNIRP’s “GUIDELINES FOR LIMITING EXPOSURE TO TIME-VARYING ELECTRIC, MAGNETIC, AND ELECTROMAGNETIC FIELDS (UP TO 300 GHz)” [ICNIRP 98]. The ICNIRP is the International Commission on Non-Ionizing Radiation Protection.

The main objective of this publication was to establish guidelines for limiting EMF exposure that will provide protection against known adverse health effects. An adverse health effect causes detectable impairment of the health of the exposed individual or of his or her offspring; a biological effect, on the other hand, may or may not result in an adverse health effect.

Restrictions on the effects of exposure are based on established health effects and are termed basic restrictions. In the RF region, the physical quantity used to specify the basic restrictions on exposure to EMF is the specific absorption rate (SAR). Protection against adverse health effects requires that these basic restrictions are not exceeded. Reference levels (electric field strength E, magnetic field strength H) of exposure are provided for comparison with measured values of physical quantities; compliance with all reference levels given in these guidelines will ensure compliance with basic restrictions. If measured values are higher than reference levels, it does not necessarily follow that the basic restrictions have been exceeded, but a more detailed analysis is necessary to assess compliance with the basic restrictions.

RMS value, geometrically averaged over any 6-min period		
Frequency f in MHz	Electric field strength $E_{\text{eff}}$ in V/m	Magnetic field strength $H_{\text{eff}}$ in A/m
400 - 2000	$1.375 \cdot \sqrt{f}$	$0.0037 \cdot \sqrt{f}$

**Note:** - The value of f (in MHz) is required per formula (above)

Table 7 - Reference levels for general public exposure in the frequency range relevant to GSM and UMTS base stations [ICNIPR 98].

In the far-field as generated by a transmitting source, the electric and magnetic field strength are combined via the free space impedance  $Z_0 \approx 377 \Omega$ . Therefore, in the far-field it is sufficient to only measure the electric or the magnetic field component. The product of electric and magnetic field strength in the far-field gives the power density S. Because S contains the same information as E and H, it is often used alternatively in exposure assessment. Table 8 summarizes the relevant reference values of ICNIRP 98 in the downlink frequency ranges of the mobile phone services LTE-800, GSM-R, GSM-900, GSM-1800/LTE-1800 and UMTS-2100. For the analysis in this report, the service specific reference level is used, which is valid for the lowest frequency end of the respective frequency range.

Mobile phone/DTT services (freq. ranges)	Electric field strength $E_{\text{eff}}$ in V/m	Magnetic field strength $H_{\text{eff}}$ in A/m	Equivalent power density $S$ in $W/m^2$
LTE-800	38.7	0.10	4.0
GSM-900, GSM-R	41.7	0.11	4.6
GSM-1800 / LTE-1800	58.4	0.16	9.0
UMTS-2100	61.0	0.17	10
DVB-T2 (Band IV CH21-CH37) E.g. CH22	30.2	0.0812	2.45

**Note:** For the analysis in this report, the reference level is mathematically determined per the actual mobile telephony and digital television systems (DVB-T2 – where applicable) frequencies per individual evaluation.

Table 8 - ICNIRP 98 reference levels for the mobile phone base station frequency bands.

In situations of simultaneous exposure to fields of different frequencies, the different exposures relative to the reference levels have to be added appropriately. Referring to [ICNIRP 98], the resulting total exposure (relative to the reference values)  $TEX_{RL}$  for frequencies above 100 kHz has to be computed as follows:

$$TEX_{RL} = \sqrt{\sum_{i=100kHz}^{1MHz} \left(\frac{E_i}{c}\right)^2 + \sum_{i>1MHz}^{300GHz} \left(\frac{E_i}{E_{L,i}}\right)^2} \quad (A1)$$

with

$E_i$  electric field strength at frequency  $i$ ;

$E_{L,i}$  electric field reference level from table A1 and A2;

$c$   $87/\sqrt{f}$  ( $f$  in MHz) for general public exposure

**Note:** Table A1 and A2 are referenced to Table 7 and Table 8 respectively.

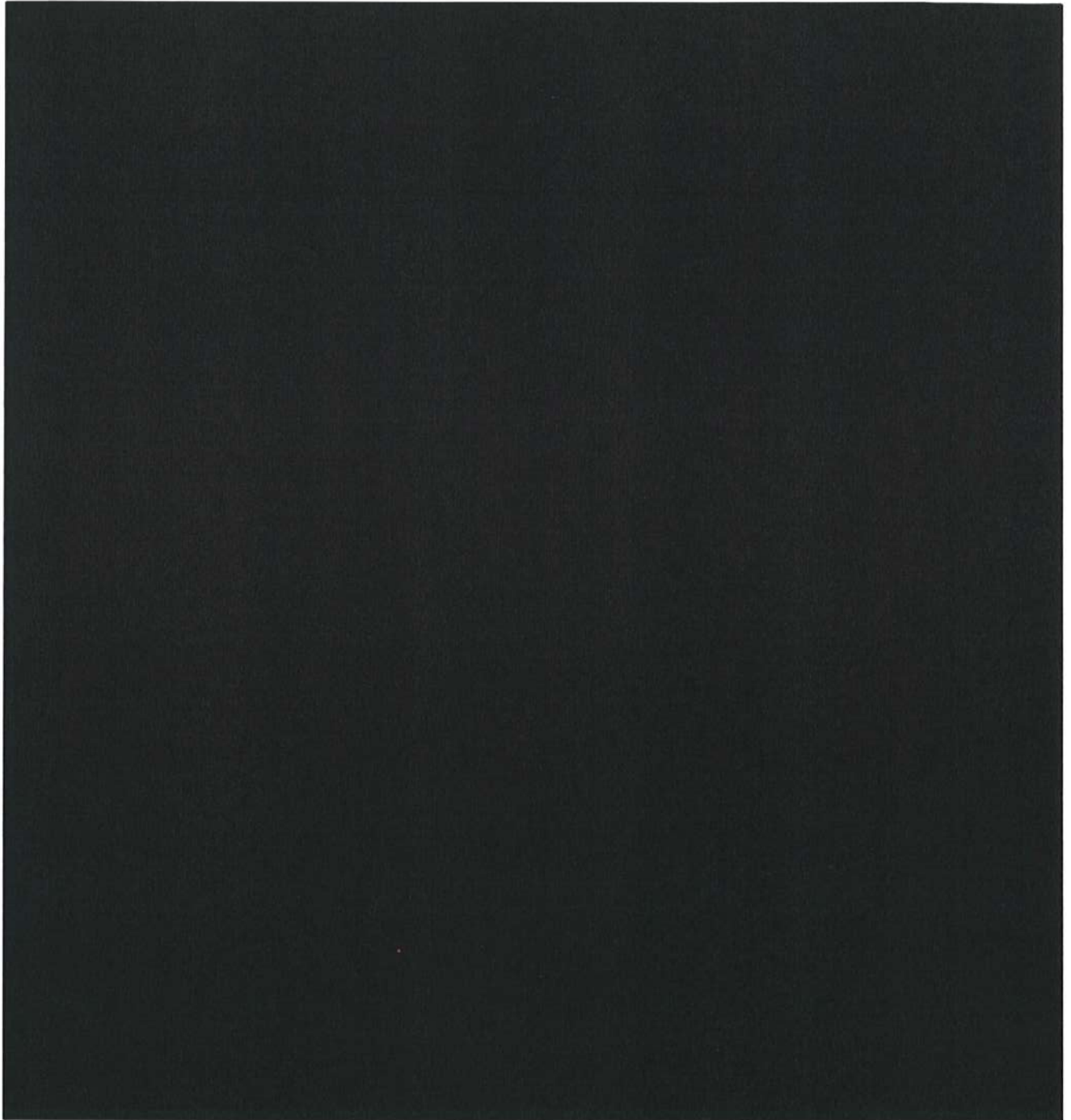
The total exposure relative to the reference level,  $TEX_{RL}$ , multiplied by a factor 100, is the total exposure in per cent of the reference level and must not exceed the value 100.

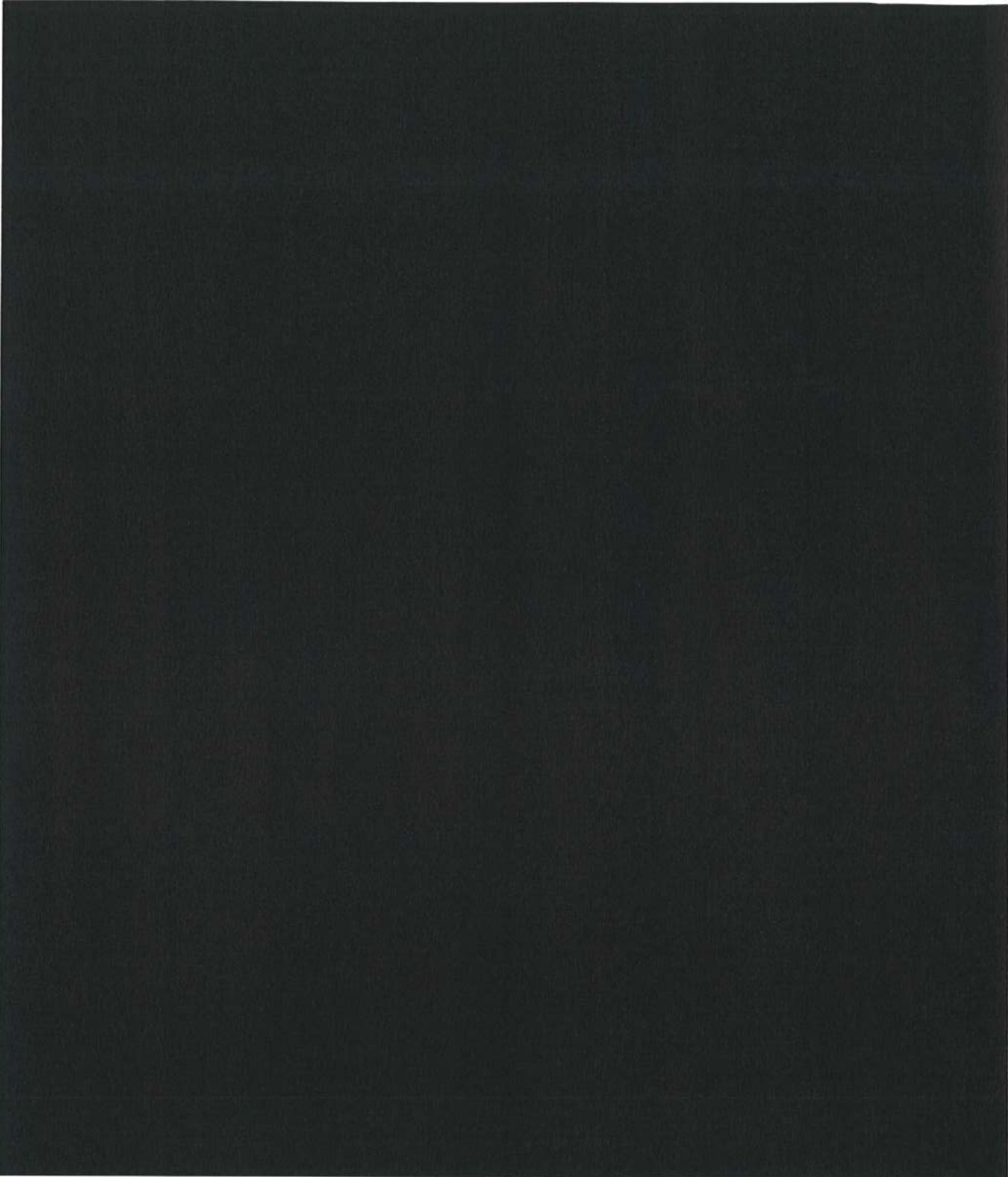


## 6.4 Appendix A4 – Desktop studies

The desktop studies in this section are complementary actions and serve to provide additional insight into the non-ionizing electromagnetic field (EMF) exposure measurements that took place at 25 identified sites/locations within the Seychelles. The results as depicted in this section were calculated through using computing methods and therefore have not been verified through measurement using appropriate test instrumentation.

### 6.4.1 Mitigation studies for Mont Buxton





## 6.4.2 Predicted increases in EM levels with the addition of a new operator

The measured results as were obtained from the campaign by surveying 25 site locations within the Seychelles, provided a point of reference for expressing the range of values for the two mobile telephony operators, being Airtel and CWS respectively.

Table 9 (overleaf) indicates the maximum values that were derived at the measurement points along with the predicted increase/s in the EMF values at these locations should an additional operator be awarded a licence for the provision of mobile telephony services. The predictions have been made through first-order calculation/simulation processes.

Note that these predictions bear no relationship whatsoever to the proposed addition of 5G services, as the studies are based upon the usage of the RF spectrum which is allocated for 2G/3G/4G telephony services.

The colour-coding as has been applied in Table 9, should not be interpreted that 'red' for example indicates a dangerous condition – they are recorded in this manner to provide for easy grading of the results as were obtained.



Site Name/s	Existing Operator/s	Highest EMF exposure values (in percentages) and threshold values Note: predicted increase values are shown for the addition of a new network operator providing the <u>same</u> complement of mobile telephony services (i.e. not 5G services!)							
		Measured value/s ≤ 5.7%	Predicted increase 3.25% ≤ 8%	Measured Value/s 6% ≤ 15%	Predicted increase 9.8% ≤ 20.8%	Measured value/s 16% ≤ 25%	Predicted increase 26.8% ≤ 31.5%	Measured value/s	Predicted increase >32%
		LOWEST VALUES		LOW-MID VALUES		MID VALUES		HIGHEST VALUES	
Machabee Hill	CWS	4.3 (MP2)	6.08 (MP2)						
Carana Hill	CWS					19 (MP1)	26.83 (MP1)		
North East Point	Airtel	4.15 (MP2)	5.86 (MP2)						
Villa Fond de Lianes	Airtel	5.64 (MP1)	7.97 (MP1)						
Bel Ombre	Airtel	4.44 (MP1)	6.27 (MP1)						
Bel Ombre (Dan Zil)	CWS			9.81 (MP2)	13.85 (MP2)				
Sorento	Airtel			8.43 (MP4)	11.91 (MP4)				
La Batie (Mare Anglaise)	Airtel			7.88 (MP2)	11.14 (MP2)				
Perseverance	Airtel	3.7 (MP2)	5.23 (MP2)						
Espace Building	Airtel			14.7 (ES1-MP1)	20.77 (ES1-MP1)				
Ma Constance	Airtel			13.16 (MP1)	18.59 (MP1)				
Mt Buxton	Airtel							61.71 (MP4)	87.16 (MP4)
SACOS Tower	CWS	4.88 (MP4)	6.90(MP4)						
Victoria (St. Popiler)	Airtel			7.36 (MP1)	10.40 (MP1)				
Central Bank Seychelles	CWS					22.27 (MP2)	31.45 (MP2)		
Dr. Chetty Clinic	Airtel			11.46 (MP4)	16.19 (MP4)				
Seychelles Hospital	CWS			10.11 (MP3)	14.28 (MP3)				
Hermitage (SBC)	Airtel			6.95 (MP1)	9.81 (MP1)				
Plaisance	Airtel	5.47 (MP1)	7.72 (MP1)						
Copolia	Airtel	4.11 (MP2)	5.81 (MP2)						

Roche Caiman (RC1)	Airtel	5.36 (MP2)	7.57 (MP2)						
Roche Caiman (RC2)	Airtel	5.45(MP2)	7.70 (MP2)						
Sunshine House	CWS			11.96 (MP2)	16.89 (MP2)				
Airport (Dom. Term)	Airtel			9.73 (MP2)	13.74 (MP2)				
Airport main terminal	CWS			11.71 (MP2)	16.53 (MP2)				
Port Launay	Airtel	2.31 (MP2)	3.26 (MP2)						
Grand Anse	Airtel	3.39 (MP3)	4.79 (MP3)						
Pt. Cabris	Airtel			8.12 (MP3)	11.48 (MP3)				
Anse Reunion	Airtel	2.3 (MP1)	3.25 (MP1)						
Anse Reunion	CWS	2.59 (MP2)	3.66 (MP2)						

Table 9 – Comparative results for the predicted increase in exposure levels with the addition of a new operator

## 6.5 Appendix A5 – List of Tower Sites

The sites as were measured in this campaign are presented per region in the following tables (see overleaf).



**TOWER SITE DETAILS**

Quantity	Site Name	Operator	Operator Site Number/Code	District	Coordinates		Services (GSM, 3G, 4G)	Frequency Band of Operation	Sites located very near residential areas or within the yards of residential homes	Sites located near or within the compound of schools;	Sites located near or within the compound of hospitals	Sites which have resulted in concerns raised by members of the public.		
					LAT	LONG								
<b>Region - 1</b>														
1	Machabee Hill	CWS		Glacis	-4.5639	55.438999								
2	Carana Hill	CWS		Glacis	-4.5697	55.453796								
3	North East Point	Airtel		Glacis	-4.582062	55.463014			Yes	No	No	Yes		
4	Villa Fond de Lianes	Airtel		Glacis	-4.563169	55.434113			Yes	No	No	No		
<b>Region - 2</b>														
5	Bel Ombre	Airtel		Bel Ombre	-4.617199	55.421298			Yes	No	No	No		
6	Bel Ombre (Dan Zil)	CWS		Bel Ombre	-4.6213	55.4031			Yes	No	No	No		
7	Sorento	Airtel		Glacis	-4.590417	55.437465			Yes	No	No	No		
8	La Battie (Marc Anglaisc)	Airtel		Beau Vallon	4.60072222	55.43735278	Yes	No	No	Yes				

Region - 3										
9	Perseverance	Airtel		Perseverance	-4.604778	55.46194	Yes	Yes	No	No
10	Espace Building (Hospital Opposite)	Airtel		English River	-4.617869	55.4575	No	No	Yes	No
11	Ma Constance	Airtel		Anse Etoile	-4.60143056	55.45587778	Yes	No	No	No
12	Mt Buxton	Airtel		Mont Buxton	4.615728	55.450011	Yes	No	No	No
Region - 4										
13	Sacos Tower	CWS		Victoria	-4.62	55.454094				
14	Victoria (Stad Popiler)	Airtel		Victoria	-4.623697	55.453815	No	No	No	No
	Central Bank Roof	CWS		Victoria	-4.6234	55.454				
15	Dr. Chetty Clinic	Airtel		St Louis	-4.6217	55.4493	Yes	No	Yes	No
16	Seychelles Hospital	CWS		Mont Fleuri	-4.632	55.4556				
	Hermitage	Airtel		Mont Fleuri	-4.6318	55.4539	Yes	No	Yes	No
Region - 5										
17	Plaisance	Airtel		Plaisance	-4.638504	55.463035	Yes	No	No	No



18	Copolia	Airtel		Plaisance	-4.64278	55.45921	Yes	No	No	No
19	Roche Caiman	Airtel		Roche Caiman	-4.6358	55.4713	No	No	No	No
	Roche Caiman	CWS		Roche Caiman	-4.6328	55.4677				
<b>Region - 6</b>										
20	Sunshine House	CWS		Providence	-4.6513	55.484165				
<b>Region - 7</b>										
21	Airport Car Park	Airtel		Pointe Larue	-4.670743	55.510394	Yes	No	No	Yes
	Airport	CWS		Pointe Larue	-4.6716	55.513042				
<b>Region - 8</b>										
22	Port Launay	Airtel		Port Gland	-4.649816	55.399089	Yes	No	No	Yes
<b>Region - 10 - Praslin &amp; La Digue</b>										
23	Grand Anse	Airtel		Grand Anse Praslin	-4.32625	55.7143889	Yes	No	No	No
24	Pt Cabris	Airtel		Baie Ste Anne Praslin	-4.351849	55.766349	Yes	No	No	No
25	Anse Reunion -	Airtel		La Digue	-4.35313	55.82733	Yes	No	No	No



## 7 REFERENCES

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[ICNIRP 98] ICNIRP Guidelines, Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic and Electromagnetic Fields (up to 300 GHz), Health Physics, vol. 74 no. 4, S. 494-522, (1998).

[ITU-T K.100] Measurement of radio frequency electromagnetic fields to determine compliance with human exposure limits when a base station is put into service (2019- 0714).

[IEC 62232:2017] Determination of RF field strength, power density and SAR in the vicinity of radio communication base stations for the purpose of evaluating human exposure.

**END OF DOCUMENT**