

EMC & RF Test Report

As per

RSS-213 Issue 3:2015 & FCC Part 15 Subpart D:2017

Unlicensed Intentional Radiators

on the

SIP-DECT Base Station RFP44 and RFP45

Issued by: TÜV SÜD Canada Inc.

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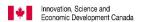
Prepared by:

Scott Drysdale, Test Personnel Reviewed by:

Min Xie, Sr. Project Engineer Testing produced for



See Appendix A for full client & EUT details.



Registration # 6844A-3



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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Report Scope

This report addresses the EMC verification testing and test results of the SIP-DECT Base Station RFP 44 and RFP 45, and is herein referred to as EUT (Equipment Under Test). The EUT was tested for compliance against the following standards:

RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017

Test procedures, results, justifications, and engineering considerations, if any, follow later in this report.

This report does not imply product endorsement by any government, accreditation agency, or TÜV SÜD Canada Inc.

Opinions or interpretations expressed in this report, if any, are outside the scope of TÜV SÜD Canada Inc. accreditations. Any opinions expressed do not necessarily reflect the opinions of TÜV SÜD Canada Inc., unless otherwise stated.

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Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Summary

The results contained in this report relate only to the item(s) tested.

EUT:	RFP44 and RFP45
FCC Certification #, FCC ID:	EHTRFP4445
Industry Canada Certification #, IC:	173A-RFP4445
EUT passed all tests performed	Yes
Tests conducted by	Scott Drysdale

For testing dates, see "Testing Environmental Conditions and Dates".

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Test Results Summary

Standard	Description	Class/Limit	Result
FCC 15.203 RSS-GEN 6.8	Antenna Requirement	Unique	Pass See Justification
FCC 15.205 RSS-GEN 8.10	Restricted Bands for Intentional Operation	No Tx.	Pass
FCC 15.207 RSS-213 6.3 RSS-GEN 7.2.2	Power Line Conducted Emissions	QuasiPeak Average	Pass
FCC 15.209 FCC 15.319(g) RSS-GEN 7.2.3 RSS-213 6.8	Spurious Radiated Emissions	QuasiPeak Average	Pass
FCC 15.319(b) RSS-GEN 6.1	Digital Modulation Techniques requirement	Yes/No	Pass See Justification
FCC 15.319(c) FCC 15.319(e) RSS-213 6.5	Peak Power and Antenna Gain reduction	<= 100 uW * √(EBW¹)	Pass
FCC 15.319(d) RSS-213 4.3.2.1	Power Spectral Density	<= 3 mW in 3 kHz	Pass
FCC 15.319(f) RSS-213 4.3.4(a)	Automatic discontinue of information	Yes/No	Pass
FCC 15.323(a) RSS-213 6.4	Emission Bandwidth	50 kHz to 2.5 MHz	Pass
FCC 15.323(c)(1) RSS-213 4.3.4	Monitoring of intended tx window and max reaction time	> 10 mS or > 20 mS (depending on frame period)	Pass See Justification
FCC 15.323(c)(2)(5)(9) RSS-213 4.3.4 (b)	Monitoring Threshold Least interfered channel	< 30 dB above thermal noise power	Pass
FCC 15.323(c)(3)	Transmission Duration	8 hours	N/A ²
FCC 15.323(c)(4)(6) RSS-213 4.3.4	Acknowledgements Access Criteria Test interval and functional test	< every 30 seconds	Pass
FCC 15.323(c)(7) RSS-213 4.3.4	Threshold monitoring bandwidth	> EBW In greater of 50uSec or 50xSQRT (1.25/EBW/1000000)	Pass
15.323(c)(10)(11) RSS-213 4.3.4	Dual access criteria Alternative monitoring interval	Duplex operation	N/A ^{2,3}

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Standard	Description	Class/Limit	Result
15.323(d) RSS-213 6.7.1	Spurious antenna conducted Emissions Mask	-9.5 dBm from 0 to 1.25 MHz out of band -29.5 dBm from 1.25 MHz to 2.5 MHz out of band -39.5 dBm 2.5 MHz or more out of band 1B to 2B -> 30dB below power 2B to 3B -> 50 dB below power 3B to band edge -> 60 dB below power See note 4.	Pass
15.323(e) RSS-213 4.3.4(c)	Frame repetition stability Frame period and jitter	< 10 ppm	Pass
15.323(f) RSS 213 6.2	Frequency stability	< 10 ppm -20C to +50C 85% to 115% Vac	Pass
	Overall Result		Pass

Note 1: EBW is the emission bandwidth in Hertz.

Note 2: Only applicable to EUT that can initiate a communication link.

Note 3: The client declares that the EUT does not implement this provision

Note 4: B is the emission EBW of the device, measured to be 1346153 Hz.

If the product as tested or otherwise complies with the specification, the EUT is deemed to comply with the requirement and is deemed a 'PASS' grade. If not applicable, an 'N/A' will be issued. If the requirement is applicable and cannot be met, a 'FAIL' grade will be issued. Note that 'PASS' / 'FAIL' grade is independent of any measurement uncertainties. A 'PASS' / 'FAIL' grade within measurement uncertainty is marked with a '*'.

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Notes, Justifications, or Deviations

The following notes, justifications for tests not performed or deviations from the above listed specifications apply:

The difference between the RFP 44 and the RFP 45 is firmware support for a specific number of handsets. As this was deemed to not affect measurement, the RFP 45 was tested as representative of both models.

For antenna requirements, this device either has an integral antenna or complies with the professional installation requirements as listed in 15.203.

For digital modulation requirements, the EUT applies only digital modulations, (Gaussian Frequency Shift Keying)

During radiated emissions, applicable in-band filters were employed on the receiving equipment to filter the intentional RF signal.

For the 15.323(c)(1), Reaction Time and Monitoring Interval, this test is only applicable for EUTs that can be an initiating device and does not apply.

For the Dual Access requirements in 15.232(c)(7) This test is only applicable for EUTs that can be an initiating device.

For 15.205, Restricted Bands of operation, the EUT is designed to only operate between 1920 MHz and 1930 MHz.

For radiated emissions, the EUT was mounted in three orthogonal axis. Worst case results were obtained with the EUT in the X-axis. Worst case results are presented. See Appendix B for axis details.

Sample Calculation(s)

Radiated Emission Test

Margin = Limit – (Received Signal + Antenna Factor + Cable Loss – Pre-Amp Gain)

Margin = $50.5 dB\mu V/m - (50 dB\mu V + 10 dB + 2.5 dB - 20 dB)$

Margin = 8.0 dB (pass)

Power Line Conducted Emission Test

 $Margin = Limit - (Received \ Signal + Attenuation \ Factor + Cable \ Loss + LISN \ Factor)$

Margin = $73.0 dB \mu V - (50 dB \mu V + 10 dB + 2.5 dB + 0.5 dB)$

Margin = 10.0 dB (pass)

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Applicable Standards, Specifications and Methods

ANSI C63.4:2014	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C 63.17:2013	American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices
CFR 47 FCC 15 Subpart D:2017	Code of Federal Regulations – Radio Frequency Devices, Intentional Radiators
ICES-003 Issue 6 2017	
RSS-GEN Issue 5 2018	1
RSS-213 Issue 3:2017	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices
ISO/IEC 17025:2005	General Requirements for the Competence of Testing and Calibration Laboratories

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Document Revision Status

Revision 000 - Oct 16, 2018 Initial Release

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Definitions and Acronyms

The following definitions and acronyms are applicable in this report. See also ANSI C63.14.

DTS – Digital Transmission System

LISN – Line Impedance Stabilization Network

NCR – No Calibration Required

NSA – Normalized Site Attenuation

N/A – Not Applicable

RF – Radio Frequency

AE – Auxiliary Equipment. A digital accessory that feeds data into or receives data from another device (host) that in turn, controls its operation.

Antenna Port – Port, other than a broadcast receiver tuner port, for connection of an antenna used for intentional transmission and/or reception of radiated RF energy.

BW – Bandwidth. Unless otherwise stated, this refers to the 6 dB bandwidth.

EMC – Electro-Magnetic Compatibility. The ability of an equipment or system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

EMI – Electro-Magnetic Immunity. The ability to maintain a specified performance when the equipment is subjected to disturbance (unwanted) signals of specified levels.

EUT – Equipment Under Test. A device or system being evaluated for compliance that is representative of a product to be marketed.

ITE – Information Technology Equipment. Has a primary function of entry, storage, display, retrieval, transmission, processing, switching, or control of data and/or telecommunication messages and which may be equipped with one or more ports typically for information transfer.

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Testing Facility

Testing for EMC on the EUT was carried out at TÜV SÜD Canada labs in Laval, QC as a satellite lab and listed under scope of accreditation. The testing lab consists of a 3m semi-anechoic chamber calibrated to be able to allow measurements on a EUT that has a maximum width or length of up to 2m and a height of up to 3m. The chamber is equipped with a turntable that is capable of testing devices up to 3300lb in weight. This facility is capable of testing products that are rated for 120Vac and 240Vac single phase, or devices that are rated for a 208Vac 3 phase input. DC capability is also available for testing. The chamber is equipped with a mast that controls the polarization and height of the antenna. Control of the mast occurs in the control room adjoining the shielded chamber. Radiated emission measurements are performed using a BiLog antenna and a Horn antenna where applicable. Conducted emissions, unless otherwise stated, are performed using a LISN and using the Vertical Ground plane if applicable.

Calibrations and Accreditations

The 3m semi-anechoic chamber is registered with Federal Communications Commission (FCC, CA6844), Industry Canada (IC, 6844A-4). This chamber was calibrated for Normalized Site Attenuation (NSA) using test procedures outlined in ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz". The chamber is lined with ferrite tiles and absorption cones to minimize any undesired reflections. The NSA data is kept on file at TÜV SÜD Canada. For radiated susceptibility testing, a 16 point field calibration has been performed on the chamber. The field uniformity data is kept on file at TÜV SÜD Canada. TÜV SÜD Canada Inc. is accredited to ISO/IEC 17025 by A2LA with Testing Certificate #2955.02. The laboratory's current scope of accreditation listing can be found as listed on the A2LA website. All measuring equipment is calibrated on an annual or biannual basis as listed for each respective test.

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Testing Environmental Conditions and Dates

Following environmental conditions were recorded in the facility during time of testing

Date	Test	Initials	Temperature (°C)	Humidity (%)	Pressure (kPa)
Aug 13 – 18, 2018	Radiated Emissions	SD.	20-25	35-55	96-104
July 23 – Aug 3, 2018	Antenna Conducted Emissions	SD	20-25	35-55	96-104
July 23 – Aug 3, 2018	Power Line Conducted Emissions	SD	20-25	35-55	96-104

SD = Scott Drysdale

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Detailed Test Results Section

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Power Line Conducted Emissions

Purpose

The purpose of this test is to ensure that the RF energy unintentionally emitted from the EUT's power line does not exceed the limits listed below as defined in the applicable test standard and measured from a LISN. This helps protect lower frequency radio services such as AM radio, shortwave radio, amateur radio, maritime radio, CB radio, and so on, from unwanted interference.

Limits & Method

The limits and method are as defined in, 47 CFR FCC Part 15 Section 15.107, and ICES-003 Issue 6 Section 6.1, FCC part 15.207.

CLASS B

Average L	imits	Quasi-Peak	Limits
150 kHz – 500 kHz	56 to 46* dBμV	150 kHz – 500 kHz	66 to 56* dBµV
500 kHz – 5 MHz	46 dBµV	500 kHz – 5 MHz	56 dBµV
5 MHz – 30 MHz	50 dBμV	5 MHz – 30 MHz	60 dBμV

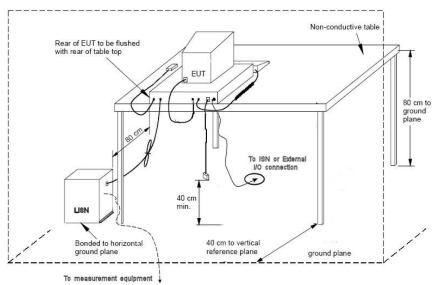
^{*} Decreases linearly with the logarithm of the frequency

Both Quasi-Peak and Average limits are applicable and each is specified as being measured with a resolution bandwidth of 9 kHz. For Quasi-Peak, a video bandwidth at least three times greater than the resolution bandwidth is used.

Based on ANSI C63.4 Section 4.2, if the Peak or Quasi-Peak detector measurements do not exceed the Average limits, then the EUT is deemed to have passed the requirements.

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Typical Setup Diagram



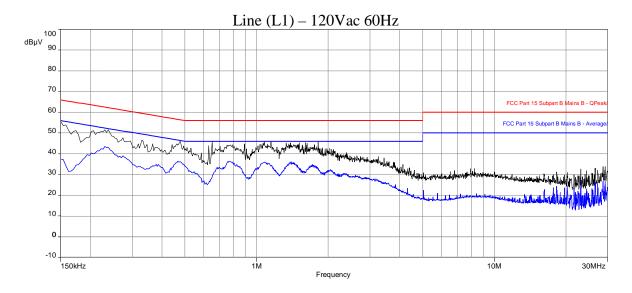
Measurement Uncertainty

The expanded measurement uncertainty is calculated in accordance with CISPR 16-4-2 and is ± 2.91 dB with a 'k=2' coverage factor and a 95% confidence level.

Preliminary Graphs

The graphs shown below are maximized peak measurement graphs measured with a resolution bandwidth greater than or equal to the final required detector. This peaking process is done as a worst case measurement and enables the detection of frequencies of concern for final measurement. For final measurements with the appropriate detector, where applicable, please refer to the tables under Final Measurements.

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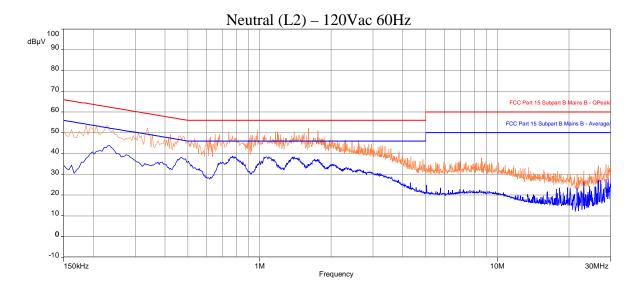
Automatic (35) Freque SR Level Level Level Margin Margin Margin Limit Limit Correcti QP (dB) QΡ ncy Averag QΡ Peak **AVG** - Peak **AVG** on (dB) (dBµV) (MHz) (dBµV) (dBµV) (dB) to AVG (dBuV) (dBuV) е (dBµV) (dBµV) (dBµV) (dBµV) (dB) (dBµV) 0.15 1 36.45 50.64 57.53 -19.55-15.36 1.53 56.00 66.00 9.86 0.178 1 35.46 45.73 54.63 -19.12-18.850.05 54.58 64.58 9.85 48.18 9.84 0.198 1 40.23 53.39 -13.46-15.52 53.69 63.69 -0.310.206 1 40.63 47.61 54.34 -12.74-15.760.98 53.37 63.37 9.84 0.234 1 43.33 48.49 52.99 -8.98 -13.820.69 52.31 62.31 9.83 -12.59 -17.41 0.262 1 38.77 43.96 48.64 -2.7251.37 61.37 9.82 0.314 1 34.15 41.15 49.15 -15.72-18.71 -0.71 49.86 59.86 9.82 0.354 33.41 39.54 48.15 -19.32 -0.72 48.87 9.82 1 -15.4658.87 0.39 1 46.40 -18.19 -1.67 48.06 9.81 34.51 39.87 -13.5558.06 0.418 49.40 -18.63 1.92 47.49 57.49 9.81 1 31.13 38.86 -16.351.98 0.454 1 35.32 41.02 48.78 -11.48-15.78 46.80 56.80 9.81 2.14 0.478 -15.12 1 36.02 41.25 48.51 -10.3546.37 56.37 9.81 0.514 1 32.81 38.16 44.83 -13.19 -17.84-1.17 46.00 56.00 9.81 0.586 1 27.59 34.99 44.95 -18.41 -21.01 -1.0546.00 56.00 9.80 -18.88 <u>-2</u>1.06 0.638 27.12 34.94 0.49 1 46.49 46.00 56.00 9.81 47.21 1.21 0.654 1 30.00 38.35 -16.00 -17.65 46.00 56.00 9.81 0.718 1 33.12 38.49 45.10 -12.88 -17.51 -0.90 46.00 56.00 9.81 0.774 1 36.53 41.52 48.48 -9.47 -14.48 2.48 46.00 56.00 9.81 47.14 -12.44 0.85 1 33.56 39.11 -16.89 1.14 46.00 56.00 9.81 1 0.878 31.18 38.44 49.02 -14.82-17.563.02 46.00 56.00 9.81 -12.94 0.99 33.06 38.90 45.37 -17.10-0.6346.00 56.00 9.81 1.066 1 35.91 41.01 47.81 -10.09 -14.99 1.81 46.00 56.00 9.81 1.158 39.79 47.71 -11.74 1.71 46.00 56.00 1 34.26 -16.21 9.81 1.306 49.45 -13.33 -16.78 1 32.67 39.22 3.45 46.00 56.00 9.81 1.43 1 35.53 40.71 47.45 -10.47 -15.29 1.45 46.00 56.00 9.81 1.51 1 40.02 49.61 -12.83 -15.98 3.61 46.00 56.00 9.81 33.17 1.662 1 33.50 39.35 48.36 -12.50 -16.65 2.36 46.00 56.00 9.81

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1.822	1	32.56	38.81	48.08	-13.44	-17.19	2.08	46.00	56.00	9.81
1.966	1	31.24	37.08	47.23	-14.76	-18.92	1.23	46.00	56.00	9.81
2.09	1	31.56	37.25	44.73	-14.44	-18.75	-1.27	46.00	56.00	9.81
23.126	1	25.30	29.37	34.25	-24.70	-30.63	-15.75	50.00	60.00	9.99
26.61	1	26.25	30.45	34.82	-23.75	-29.55	-15.18	50.00	60.00	10.06
27.158	1	26.17	30.40	35.31	-23.83	-29.60	-14.69	50.00	60.00	10.07
28.686	1	26.58	31.01	36.86	-23.42	-28.99	-13.14	50.00	60.00	10.10
29.234	1	27.02	31.46	36.65	-22.98	-28.54	-13.35	50.00	60.00	10.11

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Automatic ((63)

Freque	SR	Level	Level	Level	Margin	Margin	Margin	Limit	Limit	Correcti
ncy		Averag	QP	Peak	AVG	QP (dB)	- Peak	AVG	QP	on (dB)
(MHz)		е	(dBµV)	(dBµV)	(dB)	(dBµV)	to AVG	(dBuV)	(dBuV)	
		(dBµV)			(dBµV)		(dB)	(dBµV)	(dBµV)	
							(dBµV)			
0.15	1	34.96	47.44	54.89	-21.04	-18.56	-1.11	56.00	66.00	9.87
0.162	1	32.60	46.23	53.68	-22.76	-19.13	-1.69	55.36	65.36	9.85
0.178	1	34.91	46.75	56.56	-19.67	-17.83	1.98	54.58	64.58	9.84
0.186	1	37.66	47.45	57.00	-16.56	-16.76	2.79	54.21	64.21	9.84
0.206	1	41.01	48.06	55.66	-12.35	-15.31	2.30	53.37	63.37	9.84
0.214	1	41.97	47.45	52.96	-11.08	-15.59	-0.08	53.05	63.05	9.84
0.222	1	43.09	48.59	53.78	-9.66	-14.16	1.04	52.74	62.74	9.84
0.242	1	42.43	47.73	52.56	-9.59	-14.30	0.53	52.03	62.03	9.83
0.262	1	38.97	44.50	48.88	-12.40	-16.86	-2.49	51.37	61.37	9.83
0.294	1	36.95	43.44	49.78	-13.46	-16.97	-0.63	50.41	60.41	9.82
0.314	1	35.33	42.50	50.35	-14.54	-17.36	0.48	49.86	59.86	9.82
0.33	1	34.93	44.89	52.20	-14.52	-14.56	2.75	49.45	59.45	9.82
0.342	1	34.56	44.51	52.87	-14.59	-14.65	3.72	49.15	59.15	9.82
0.354	1	34.66	40.87	48.95	-14.21	-18.00	0.08	48.87	58.87	9.82
0.374	1	35.94	41.44	46.65	-12.47	-16.97	-1.77	48.41	58.41	9.82
0.41	1	33.71	40.48	48.44	-13.94	-17.16	0.79	47.65	57.65	9.81
0.426	1	32.76	38.22	44.67	-14.57	-19.11	-2.66	47.33	57.33	9.82
0.458	1	37.37	43.26	50.69	-9.36	-13.47	3.96	46.73	56.73	9.82
0.466	1	37.89	43.85	50.84	-8.69	-12.74	4.26	46.58	56.58	9.82
0.478	1	37.75	43.10	50.04	-8.62	-13.27	3.66	46.37	56.37	9.81
0.51	1	34.98	40.23	46.12	-11.02	-15.77	0.12	46.00	56.00	9.81
0.526	1	33.60	39.63	47.16	-12.40	-16.37	1.16	46.00	56.00	9.81
0.554	1	32.46	38.18	46.47	-13.54	-17.82	0.47	46.00	56.00	9.81
0.578	1	30.38	36.52	44.81	-15.62	-19.48	-1.19	46.00	56.00	9.81
0.602	1	28.14	39.13	48.67	-17.86	-16.87	2.67	46.00	56.00	9.81
0.654	1	32.20	40.29	49.01	-13.80	-15.71	3.01	46.00	56.00	9.81

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Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

0.678 1 35.21 42.06 49.97 -10.79 -13.94 3.97 46.00 56.00 9.81 0.742 1 36.65 42.44 50.22 -9.35 -13.56 4.22 46.00 56.00 9.80 0.774 1 38.43 43.47 50.00 -7.57 -12.53 4.00 46.00 56.00 9.80 0.81 1 36.67 42.26 49.18 -9.33 -13.74 3.18 46.00 56.00 9.81 0.846 1 35.61 41.18 49.23 -10.39 -14.82 3.23 46.00 56.00 9.81 0.989 1 31.86 39.61 50.29 -14.14 -16.39 3.24 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.094 1 37.54 42.62 52.55 -11.46 -13.37			1	1		1	1	1		1	
0.742 1 36.65 42.44 50.22 -9.35 -13.56 4.22 46.00 56.00 9.80 0.774 1 38.43 43.47 50.00 -7.57 -12.53 4.00 46.00 56.00 9.80 0.81 1 36.67 42.26 49.18 -9.33 -13.74 3.18 46.00 56.00 9.81 0.846 1 35.61 41.18 49.23 -10.39 -14.82 3.23 46.00 56.00 9.81 0.989 1 31.86 39.61 50.29 -14.14 -16.39 4.29 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.62 55.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96	0.678	1	35.21	42.06	49.97	-10.79	-13.94	3.97	46.00	56.00	9.81
0.774 1 38.43 43.47 50.00 -7.57 -12.53 4.00 46.00 56.00 9.80 0.81 1 36.67 42.26 49.18 -9.33 -13.74 3.18 46.00 56.00 9.81 0.846 1 35.61 41.18 49.23 -10.39 -14.82 32.23 46.00 56.00 9.81 0.989 1 31.86 39.61 50.29 -14.14 -16.39 4.29 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.158 1 36.13 41.69 49.05 -9.87 -14.31											
0.81 1 36.67 42.26 49.18 -9.33 -13.74 3.18 46.00 56.00 9.81 0.846 1 35.61 41.18 49.23 -10.39 -14.82 3.23 46.00 56.00 9.81 0.89 1 31.86 39.61 50.29 -14.14 -16.39 4.29 46.00 56.00 9.82 0.918 1 30.46 39.10 49.41 -15.54 -16.90 3.41 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46											
0.846 1 35.61 41.18 49.23 -10.39 -14.82 3.23 46.00 56.00 9.81 0.89 1 31.86 39.61 50.29 -14.14 -16.39 4.29 46.00 56.00 9.82 0.978 1 30.46 39.10 49.41 -15.54 -16.90 3.41 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.30 46.00				_							
0.89 1 31.86 39.61 50.29 -14.14 -16.39 4.29 46.00 56.00 9.82 0.918 1 30.46 39.10 49.41 -15.54 -16.90 3.41 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.158 1 36.13 41.69 49.05 -9.87 -14.31 3.05 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 +14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74	0.81	1	36.67	42.26	49.18	-9.33	-13.74	3.18	46.00	56.00	9.81
0.918 1 30.46 39.10 49.41 -15.54 -16.90 3.41 46.00 56.00 9.82 0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.158 1 36.13 41.69 49.05 -9.87 -14.31 3.05 46.00 56.00 9.81 1.260 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74	0.846	1	35.61	41.18	49.23	-10.39		3.23	46.00	56.00	9.81
0.978 1 34.54 42.62 52.55 -11.46 -13.38 6.55 46.00 56.00 9.81 1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.158 1 36.13 44.69 50.987 -14.31 3.05 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58		1	31.86	39.61	50.29	-14.14	-16.39	4.29	46.00	56.00	9.82
1.042 1 37.04 42.53 50.37 -8.96 -13.47 4.37 46.00 56.00 9.81 1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.158 1 36.13 41.69 49.05 -9.87 -14.31 3.05 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.206 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 36.04 42.90 52.58 -10.96 -13.80	0.918	1	30.46	39.10	49.41		-16.90	3.41	46.00	56.00	9.82
1.094 1 37.85 43.04 50.19 -8.15 -12.96 4.19 46.00 56.00 9.81 1.158 1 36.13 41.69 49.05 -9.87 -14.31 3.05 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 -14.74 3.63 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87	0.978	1	34.54		52.55	-11.46	-13.38	6.55	46.00	56.00	9.81
1.158 1 36.13 41.69 49.05 -9.87 -14.31 3.05 46.00 56.00 9.81 1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01	1.042	1		42.53	50.37	-8.96	-13.47	4.37	46.00	56.00	9.81
1.206 1 33.15 39.54 49.19 -12.85 -16.46 3.19 46.00 56.00 9.81 1.262 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02	1.094	1	37.85	43.04	50.19	-8.15	-12.96	4.19	46.00	56.00	9.81
1.262 1 32.91 41.64 51.49 -13.09 -14.36 5.49 46.00 56.00 9.81 1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78	1.158	1	36.13	41.69	49.05	-9.87	-14.31	3.05	46.00	56.00	9.81
1.318 1 35.50 41.26 49.63 -10.50 -14.74 3.63 46.00 56.00 9.81 1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06	1.206	1	33.15	39.54	49.19	-12.85	-16.46	3.19	46.00	56.00	9.81
1.39 1 37.74 42.91 50.56 -8.26 -13.09 4.56 46.00 56.00 9.81 1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06	1.262	1	32.91	41.64	51.49	-13.09	-14.36	5.49	46.00	56.00	9.81
1.51 1 35.04 42.20 52.58 -10.96 -13.80 6.58 46.00 56.00 9.81 1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64	1.318	1	35.50	41.26	49.63	-10.50	-14.74	3.63	46.00	56.00	9.81
1.61 1 34.33 41.13 52.34 -11.67 -14.87 6.34 46.00 56.00 9.81 1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99	1.39	1	37.74	42.91	50.56	-8.26	-13.09	4.56	46.00	56.00	9.81
1.69 1 36.60 41.99 50.11 -9.40 -14.01 4.11 46.00 56.00 9.81 1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15	1.51	1	35.04	42.20	52.58	-10.96	-13.80	6.58	46.00	56.00	9.81
1.75 1 36.47 41.98 49.86 -9.53 -14.02 3.86 46.00 56.00 9.81 1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.66	1.61	1	34.33	41.13	52.34	-11.67	-14.87	6.34	46.00	56.00	9.81
1.834 1 34.08 40.22 48.55 -11.92 -15.78 2.55 46.00 56.00 9.81 1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.57 45.91 -15.12 -19.66 -1.65 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 <td>1.69</td> <td>1</td> <td>36.60</td> <td>41.99</td> <td>50.11</td> <td>-9.40</td> <td>-14.01</td> <td>4.11</td> <td>46.00</td> <td>56.00</td> <td>9.81</td>	1.69	1	36.60	41.99	50.11	-9.40	-14.01	4.11	46.00	56.00	9.81
1.962 1 33.69 39.48 48.48 -12.31 -16.52 2.48 46.00 56.00 9.81 2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 <td>1.75</td> <td>1</td> <td>36.47</td> <td></td> <td>49.86</td> <td>-9.53</td> <td></td> <td>3.86</td> <td>46.00</td> <td>56.00</td> <td></td>	1.75	1	36.47		49.86	-9.53		3.86	46.00	56.00	
2.106 1 33.41 38.94 46.44 -12.59 -17.06 0.44 46.00 56.00 9.81 2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 <td>1.834</td> <td>1</td> <td>34.08</td> <td>40.22</td> <td>48.55</td> <td>-11.92</td> <td>-15.78</td> <td>2.55</td> <td>46.00</td> <td>56.00</td> <td>9.81</td>	1.834	1	34.08	40.22	48.55	-11.92	-15.78	2.55	46.00	56.00	9.81
2.242 1 31.97 37.36 44.45 -14.03 -18.64 -1.55 46.00 56.00 9.81 2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 </td <td>1.962</td> <td>1</td> <td>33.69</td> <td>39.48</td> <td>48.48</td> <td>-12.31</td> <td>-16.52</td> <td>2.48</td> <td>46.00</td> <td>56.00</td> <td>9.81</td>	1.962	1	33.69	39.48	48.48	-12.31	-16.52	2.48	46.00	56.00	9.81
2.378 1 32.40 38.01 46.08 -13.60 -17.99 0.08 46.00 56.00 9.81 2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 </td <td>2.106</td> <td>1</td> <td>33.41</td> <td>38.94</td> <td>46.44</td> <td>-12.59</td> <td>-17.06</td> <td>0.44</td> <td>46.00</td> <td>56.00</td> <td>9.81</td>	2.106	1	33.41	38.94	46.44	-12.59	-17.06	0.44	46.00	56.00	9.81
2.574 1 31.49 36.85 45.94 -14.51 -19.15 -0.06 46.00 56.00 9.81 2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64<	2.242	1	31.97	37.36	44.45	-14.03	-18.64	-1.55	46.00	56.00	9.81
2.73 1 30.88 36.34 44.35 -15.12 -19.66 -1.65 46.00 56.00 9.81 2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.6	2.378	1	32.40	38.01	46.08	-13.60	-17.99	0.08	46.00	56.00	9.81
2.93 1 30.88 36.57 45.91 -15.12 -19.43 -0.09 46.00 56.00 9.81 3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -	2.574	1	31.49	36.85	45.94	-14.51	-19.15	-0.06	46.00	56.00	9.81
3.174 1 29.75 35.39 44.07 -16.25 -20.61 -1.93 46.00 56.00 9.81 3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	2.73	1	30.88	36.34	44.35	-15.12	-19.66	-1.65	46.00	56.00	9.81
3.374 1 28.62 34.37 44.51 -17.38 -21.63 -1.49 46.00 56.00 9.81 3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	2.93	1	30.88	36.57	45.91	-15.12	-19.43	-0.09	46.00	56.00	9.81
3.598 1 28.64 34.28 43.42 -17.36 -21.72 -2.58 46.00 56.00 9.81 3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	3.174	1	29.75	35.39	44.07	-16.25	-20.61	-1.93	46.00	56.00	9.81
3.838 1 27.44 33.31 42.43 -18.56 -22.69 -3.57 46.00 56.00 9.81 23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	3.374	1	28.62	34.37	44.51			-1.49	46.00	56.00	9.81
23.13 1 26.26 30.36 33.93 -23.74 -29.64 -16.07 50.00 60.00 10.03 26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	3.598	1	28.64	34.28	43.42	-17.36	-21.72	-2.58	46.00	56.00	9.81
26.61 1 27.21 31.35 35.51 -22.79 -28.65 -14.49 50.00 60.00 10.09 27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	3.838	1	27.44	33.31	42.43	-18.56	-22.69	-3.57	46.00	56.00	9.81
27.158 1 27.16 31.20 35.43 -22.84 -28.80 -14.57 50.00 60.00 10.09	23.13	1	26.26	30.36	33.93	-23.74	-29.64	-16.07	50.00	60.00	10.03
	26.61	1	27.21	31.35	35.51	-22.79	-28.65	-14.49	50.00	60.00	10.09
28.686 1 27.66 31.97 36.35 -22.34 -28.03 -13.65 50.00 60.00 10.16	27.158	1	27.16	31.20	35.43	-22.84	-28.80	-14.57	50.00	60.00	10.09
	28.686	1	27.66	31.97	36.35	-22.34	-28.03	-13.65	50.00	60.00	10.16
29.234 1 28.32 32.58 37.13 -21.68 -27.42 -12.87 50.00 60.00 10.19	29.234	1	28.32	32.58	37.13	-21.68	-27.42	-12.87	50.00	60.00	10.19

See 'Appendix B - EUT, Peripherals and Test Setup Photos' for photos showing the test set-up for the highest line conducted emission.

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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Test Equipment List

Description	Make	Model number	Asset ID	Calibration date	Calibration due
Impedance Stabilization Network	TESEQ	ISN T8-Cat6	SSG013730	2017-10-19	2018-10-19
Termination	Narda	374BNM	SSG012451	2017-10-03	2018-10-03
Termination	Narda	370BNF	SSG012766	2017-09-27	2018-09-27
Line Impedance Stabilization Network	Emco	3825/2	SSG011780	2017-11-02	2018-11-02
Transient Limiter	Hewlett Packard	11947A	SSG012403	2018-01-05	2019-01-06
EMI Receiver	Rohde & Schwarz	ESCI	SSG013727	2017-12-14	2018-12-14
Coaxial Cable	Huber & Suhner	104PEA	SSG013078	2018-01-05	2019-01-06
Current Probe	Ailtech	94111-1	SSG012043	2017-09-22	2018-09-22
Decoupling Clamp	Luthi	FTC 101	SSG012722	not required	not required

This report module is based on report template 'CISPR32-FCC_PLCE_Rev1'

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Spurious Radiated Emissions

Purpose

The purpose of this test is to ensure that the RF energy unintentionally emitted from the EUT does not exceed the limits listed below as defined in the applicable test standard and measured from a receiving antenna. This helps protect broadcast radio services such as television, FM radio, pagers, cellular telephones, emergency services, and so on, from unwanted interference.

Limits & Method

The limits and method are as defined in ANSI C63.4, FCC Part 15 Section 15.109, 15.209, and ICES-003 Issue 6 Section 6.2 and RSS-GEN.

Frequency	Limit
0.009 MHz – 0.490 MHz	2400/F(kHz) uV/m at 300m ¹
0.490 MHz – 1.705 MHz	24000/F(kHz) uV/m at 30m ¹
1.705 MHz – 30 MHz	30 uV/m at 30m1
30 MHz – 88 MHz	100 uV/m (40.0 dBuV/m ¹) at 3m
88 MHz – 216 MHz	150 uV/m (43.5 dBuV/m¹) at 3m
216 MHz – 960 MHz	200 uV/m (46.0 dBuV/m1) at 3m
Above 960 MHz	500 uV/m (54.0 dBuV/m1) at 3m
Above 1000 MHz	500 uV/m (54 dBuV/m²) at 3m
Above 1000 MHz	500 uV/m (74 dBuV/m³) at 3m

¹Limit is with Quasi Peak detector with bandwidths as defined in CISPR-16-1-1

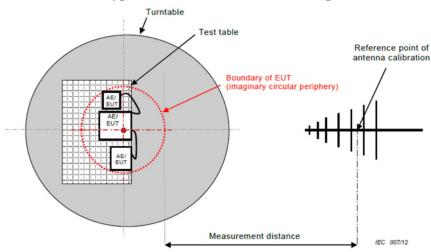
Based on ANSI C63.4 Section 4.2 if the Peak detector measurements do not exceed the Quasi-Peak limits, where defined, then the EUT is deemed to have passed the requirements.

²Limit is with 1 MHz measurement bandwidth and using an Average detector

³Limit is with 1 MHz measurement bandwidth and using a Peak detector

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Typical Radiated Emissions Setup



Note: testing was performed at a 3 meter test distance below 1 GHz and 10 meter below 1 GHz.

Measurement Uncertainty

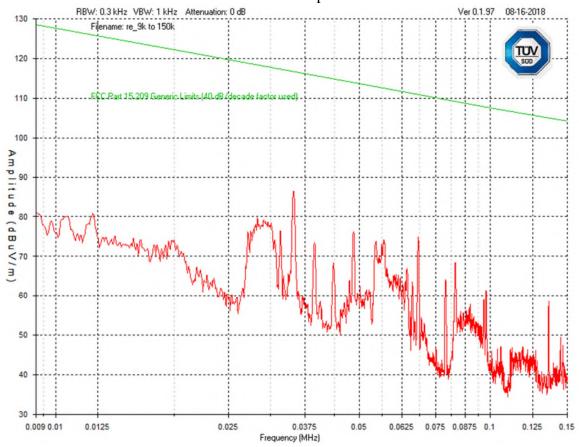
The expanded measurement uncertainty is calculated in accordance with CISPR 16-4-2 and is $\pm 4.25 dB$ for 30 MHz - 1 GHz and $\pm 4.93 dB$ for 1 GHz - 18 GHz with a 'k=2' coverage factor and a 95% confidence level.

Preliminary Graphs

The graphs shown below are maximized peak measurement graphs measured with a resolution bandwidth greater than or equal to the final required detector over a full 0-360°. This peaking process is done as a worst case measurement and enables the detection of frequencies of concern for final measurement. For final measurements with the appropriate detector, where applicable, please refer to the tables under Final Measurements.

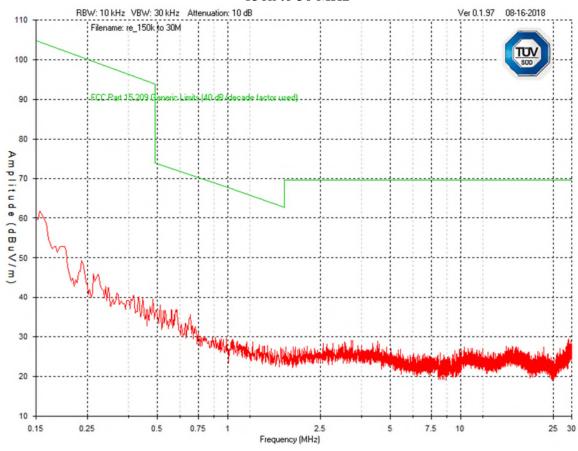
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 9k to 150k



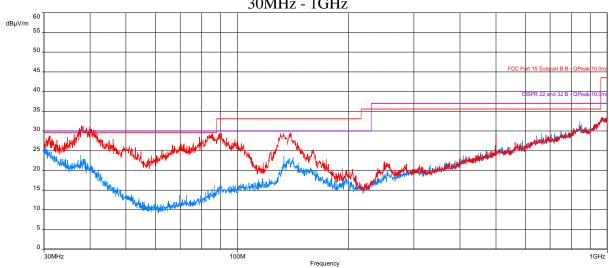
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 150k to 30 MHz



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 30MHz - 1GHz

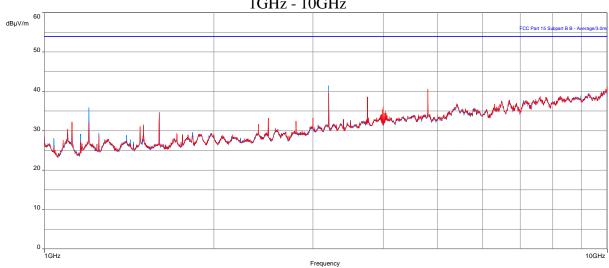


Red=Vertical, Blue=Horizontal QuasiPeak (PASS) (7)

Freque	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	PeakFi	Correcti
ncy		(dBµV/	(dBµV/	(dB)	(°)	(m)		Time	nal	on (dB)
(MHz)		m)	m)					(s)		
38.1943	1	25.75	29.54	-3.79	228.25	1.64	Vertical	15.00	31.14	-4.61
9777										
500.000	2	30.15	35.56	-5.41	131.50	1.59	Horizon	15.00	32.77	-0.36
0544							tal			
139.238	1	24.01	33.06	-9.05	53.25	1.06	Vertical	15.00	29.69	-8.23
4646										
90.6101	1	23.89	33.06	-9.17	235.50	2.80	Vertical	15.00	31.33	-11.61
3495										
30.1150	2	20.05	29.54	-9.49	146.00	2.51	Horizon	15.00	25.87	-0.85
7018							tal			
839.743	2	24.98	35.56	-10.58	328.00	3.60	Horizon	15.00	31.36	6.67
6603							tal			
133.493	2	16.46	33.06	-16.60	292.50	3.94	Horizon	15.00	22.34	-8.22
8718							tal			

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 1GHz - 10GHz



Note: A filter from 1920 MHz to 1930 MHz and from 2.4GHz to 2.4835 GHz was employed

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Avg (PASS) (4)

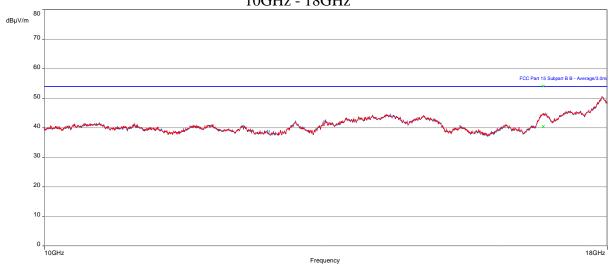
Frequen cy (MHz)	SR	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Meas. Time (s)	Correctio n (dB)
4800.000 641	1	39.16	59.96	-20.80	198.75	2.60	Vertical	15.00	-3.43
9940.742 949	1	37.23	59.96	-22.73	289.50	3.69	Vertical	15.00	6.39
3200.000 962	2	41.26	59.96	-18.70	277.25	3.55	Horizont al	15.00	-6.75
9942.135 256	2	37.15	59.96	-22.81	339.00	3.69	Horizont al	15.00	6.39

Peak (PASS) (4)

				Jan (1. 7.133)				
Frequency	SR	Level	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dB)	(°)			Time (s)	(dB)
4800.0006 41	1	47.99	-11.97	198.75	2.60	Vertical	15.00	-3.43
41								
9940.7429	1	50.66	-9.30	289.50	3.69	Vertical	15.00	6.39
49								
3200.0009	2	46.94	-13.02	277.25	3.55	Horizontal	15.00	-6.75
62								
9942.1352	2	50.54	-9.42	339.00	3.69	Horizontal	15.00	6.39
56								

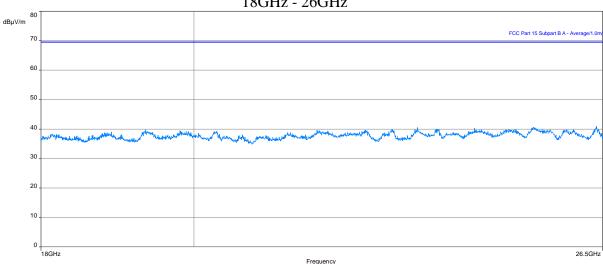
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 10GHz - 18GHz



Note: No emissions were detected and the system noise floor was below the limit.

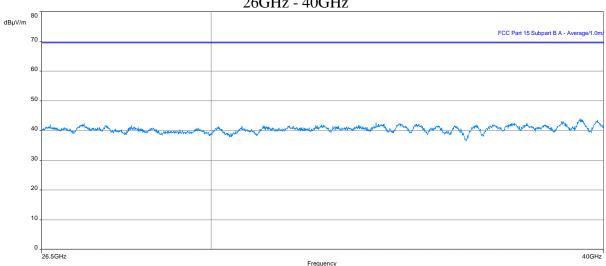
Peak Emissions Graph 18GHz - 26GHz



Note: No emissions were detected and the system noise floor was below the limit.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Emissions Graph 26GHz - 40GHz



Note: No emissions were detected and the system noise floor was below the limit.

See 'Appendix B - EUT, Peripherals, and Test Setup Photos' for photos showing the test set-up for the highest radiated emission.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Test Equipment List

Description	Make	Model number	Asset ID	Calibration date	Calibration due
Bilog Antenna	Chase	CBL6111	SSG012564	2018-02-01	2019-02-01
Coaxial Cable	Huber & Suhner	104PEA	SSG012041	2018-01-05	2019-01-06
Coaxial Cable	Huber & Suhner	106A	SSG012455	2018-01-05	2019-01-06
Coaxial Cable	Huber & Suhner	ST18/Nm/Nm/36	SSG012786	2018-01-05	2019-01-06
Coaxial Cable	Micro-Coax	UFA 210B-1- 1500-504504	SSG012376	2018-01-05	2019-01-06
Coaxial Cable	Huber & Suhner	101 PEA, Sucoflex	SSG012290	2017-09-25	2018-09-25
Coaxial Cable	Huber & Suhner	106A	SSG012711	2018-01-05	2019-01-06
Double Ridged Horn Antenna	Emco	3115	SSG012508	2017-12-21	2018-12-21
EMC Automation Software	Nexio	BAT-EMC	F0163649	not required	not required
EMI Receiver	Rohde & Schwarz	ESU26	SSG013729	2018-02-13	2019-02-13
EMI Receiver	Rohde & Schwarz	ESU40	SSG013672	2017-11-28	2018-11-28
Horn Antenna (18 - 26.5 GHz)	Emco	3160-09	SSG012292	2018-01-02	2019-01-02
Horn Antenna (26.5 - 40 GHz)	Emco	3160-10	SSG012294	2018-01-02	2019-01-02
Pre-Amplifier	BNR	LNA	SSG012360	2017-09-28	2018-09-28
RF Amplifier	Hewlett Packard	8447D	SSG013045	2018-01-05	2019-01-06

This report module is based on report template 'CISPR32-FCC_RE-B_Rev1'

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Peak Power and Antenna Gain reduction

Measurement Procedure:

ANSI C63.17, clause 6.1.2.

Test Results:

Pass

Limit:

100 μ W X SQRT(B) where B is the (lowest) measured Emission Bandwidth in Hz B=1346153 SQRT(B)=1160.24

100 uW * 1160.24 = 116023.83 uW = 116.023 mW = 20.6 dBm

Measurement Data:

Maximum Output Power

Channel	Frequency	Maximum	Maximum	Calculated	Result
	(MHz)	Conducted	EiRP	Antenna	
		Output power	(dBm)	Gain	
		(dBm)		(dBi)	
4	1921.536	19.9	19.3	-0.6	Pass
2	1924.992	19.8	19.4	-0.4	Pass
0	1928.448	19.7	19.1	-0.6	Pass

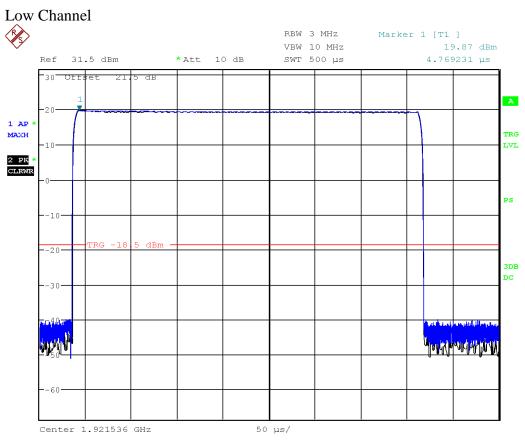
For this test it the input voltage was varied between 85% and 115% of nominal value, and no effect was observed.

No effect on power was observed when the temperature was varied from -20C to 50C.

The antenna gain is below 3 dBi, so no reduction in the limit is necessary.

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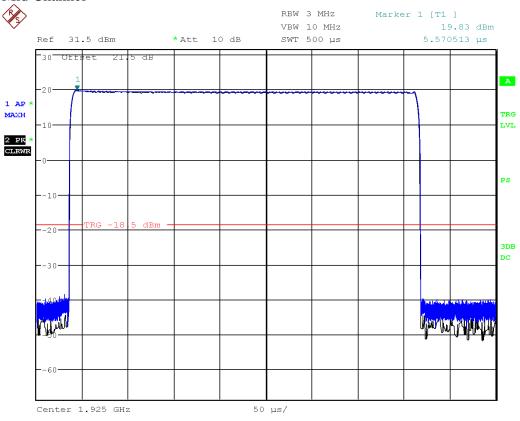
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 21:09:48

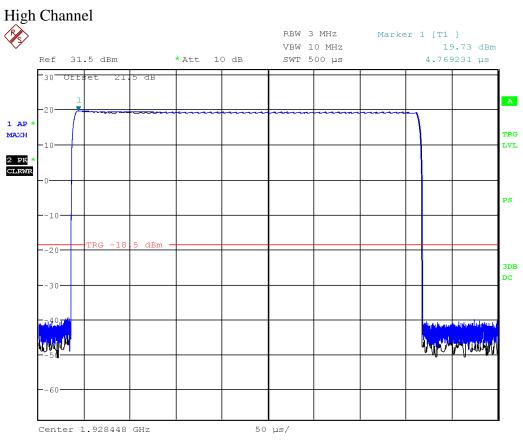
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Mid Channel



Date: 25.JUL.2018 21:06:19

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 21:01:21

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Power Spectral Density

Measurement Procedure:

ANSI C63.17, clause 6.1.5.

Limit

The Power Spectral Density shall be less than 3 mW (4.77 dBm).

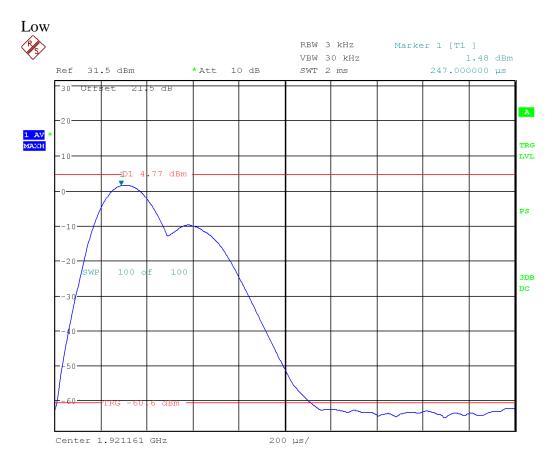
Test Results:

Pass

Measurement Data:

Channel	Frequency (MHz)	dBm	mW
4	1921.536	1.48	1.41
2	1924.992	1.21	1.33
0	1928.448	1.45	1.40

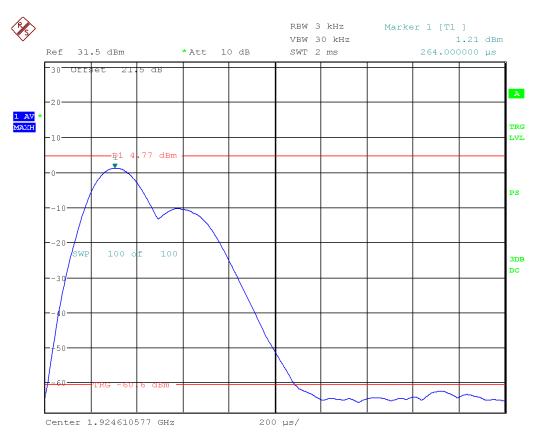
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 21:35:33

Middle

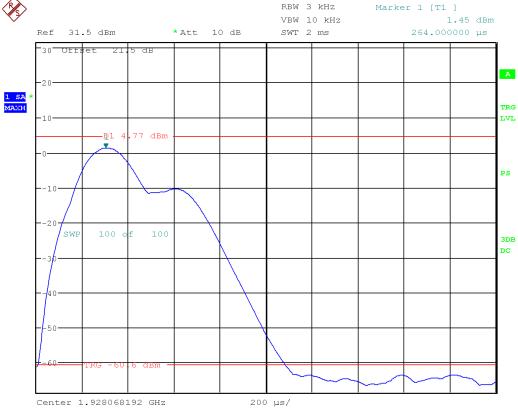
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 21:37:34

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada





Date: 25.JUL.2018 21:39:56

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Automatic discontinue of information

Limit:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. This provision is not intended to preclude transmission of control and signaling information or use or repetitive code used by certain digital modulation technologies to complete frame or burst intervals.

Test Result:

Pass

The EUT transmits control and Signaling Information.

The EUT is a responding device only. The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

Test	EUT Result	Pass/Fail
Power removed	Connection lost, all	Pass
from EUT	transmissions stop	
Not Applicable the	Not Applicable the	N/A
EUT does not have	EUT does not have	
an on/off switch	an on/off switch	
Hook on by	Connection lost,	Pass
companion device	EUT transmits	
	control and signal	
	information only	
Hook on by EUT	EUT can not	N/A
	perform Hook-on	
Power removed	Connection lost,	Pass
from companion	EUT transmits	
device	control and signal	
	information only	
Companion device	Connection lost,	Pass
switched Off	EUT transmits	
	control and signal	
	information only	

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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Emission Bandwidth

Measurement Procedure:

ANSI C63.17, clause 6.1.3.

Limit:

The 26 dB Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz.

Test Results:

Pass

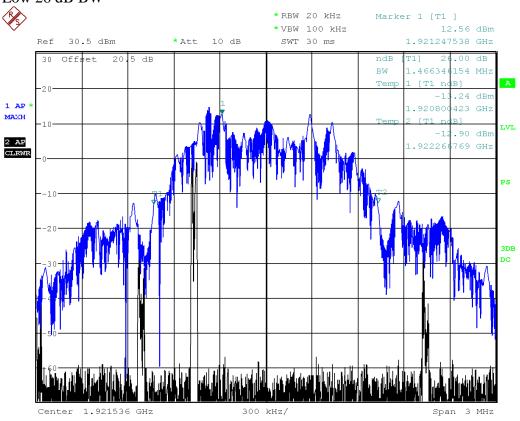
Measurement Data:

Channel	Frequency (MHz)	26 DB Bandwidth	Occupied
		MHz	Bandwidth
			(OBW = 99%) MHz
4	1921.536	1.467	1.212
2	1924.992	1.404	1.216
0	1928.448	1.347	1.207

Note: For the purposes of EBW the lowest emission bandwidth was measured to be 1346153 Hz.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

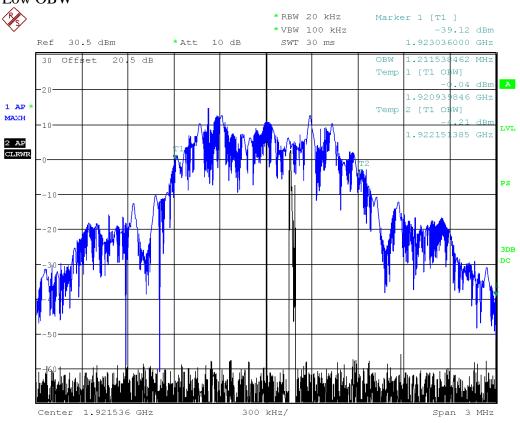
Low 26 dB BW



Date: 25.JUL.2018 20:17:03

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

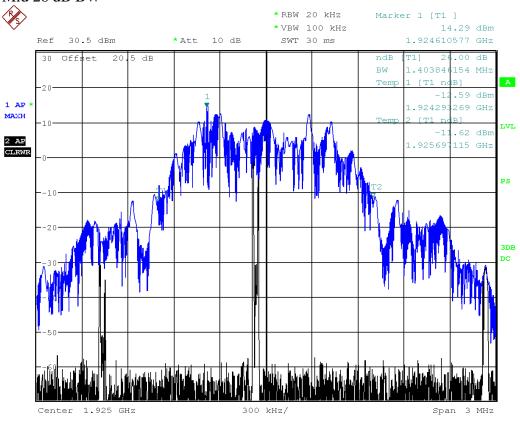
Low OBW



Date: 25.JUL.2018 20:36:58

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

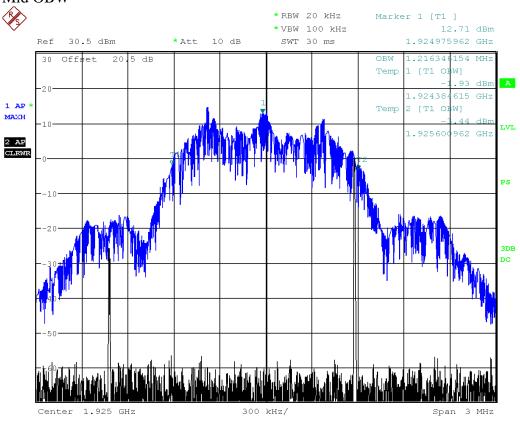
Mid 26 dB BW



Date: 25.JUL.2018 20:38:33

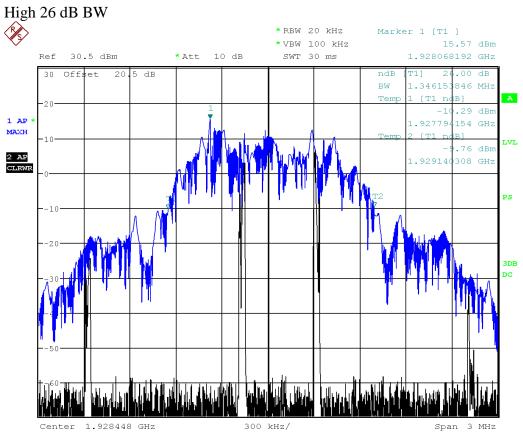
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Mid OBW



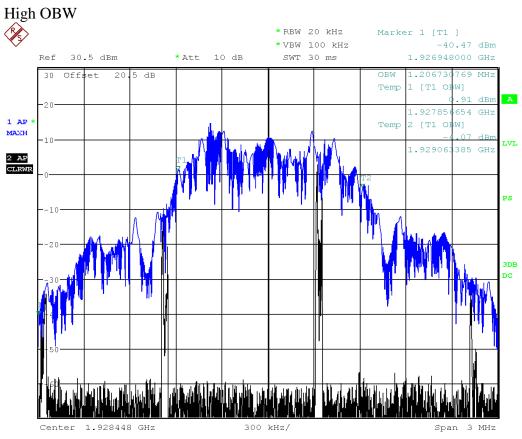
Date: 25.JUL.2018 20:28:34

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 20:44:25

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 25.JUL.2018 20:32:10

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Monitoring Threshold & Least interfered channel

Measurement Procedure:

The Upper Threshold is found by the procedure defined in ANSI C63.17 clause 7.3.1 or 7.3.2.

Limit:

Upper Threshold:

 $TU = 15 \log B - 184 + 50 - PEUT (dBm)$

B is measured Emission Bandwidth in Hz = 1346153

PEUT is measured Transmitter Power in dBm = 19.9

TU = 15 Log(1346153) - 184 + 50 - 19.9

TU = 91.94 - 184 + 50 - 19.9

TU = -61.96 dBm

The Upper Threshold is applicable for systems with more than 40 duplex systems access channels and that implements the Least Interfered Channel Procedure (LIC). FCC 15.323(b), (c)(2) and (c)(5)

Least Interfered Channel Procedure used with an Upper Threshold -61.96 dBm

Test Results

Least Interfered Channel (LIC) Procedure Test, ANSI C63.17 clause 7.3.3 ref. Observation Verdict

- a) f1 TL + 13 dB, f2 TL + 6 dB Transmission always on f2 Pass
- b) f1 TL + 6 dB, f2 TL + 13 dB Transmission always on f1 Pass
- c) f1 TL + 7 dB, f2 TL Transmission always on f2 Pass
- d) f1 TL, f2 at TL+ 7 dB Transmission always on f1 Pass

Selected Channel Confirmation, FCC 15.323(c)(1) and (5)

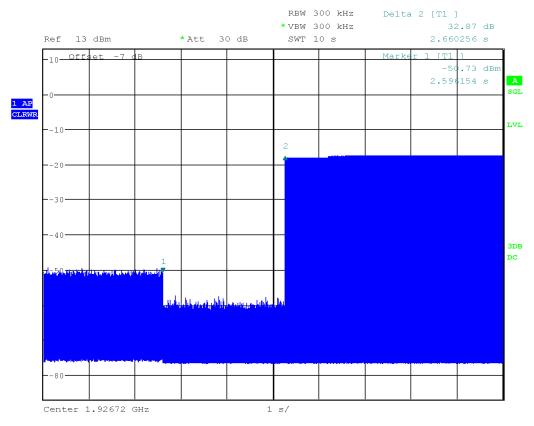
ANSI C63.17 clause 7.3.4 ref. Observation Verdict

- a) Shall not transmit on f1 EUT transmits on f2 Pass
- b) Shall not transmit on f2 EUT transmits on f1 Pass Limits:

Upper Threshold + 6 dB margin -55.96 dBm

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Graph



Date: 20.JUL.2018 15:23:37

Selected Channel Confirmation, connection 2.66 sec after interferer removed

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Acknowledgements, Test interval and functional test

Acknowledgments: ANSI C63.17, clause 8.2.1

During the test initial transmission without acknowledgments the signal from the EUT to the companion device is blocked by circulators in addition to the tunable attenuator. The test Transmission time after loss of acknowledgments is performed by cutting-off the signal from the companion device by a RF switch the time until the EUT stops transmitting.

The Transmission Duration test is performed by monitoring the slot in use and measuring the time until the EUT changes to a different slot.

Limits:

FCC 15.323(c)(3) and (4)

Occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria. This is not applicable as the only for initiating device that controls which time slot is used.

Once access to specific combined time and spectrum windows is obtained an acknowledgment from a system participant must be received by the initiating transmitter within one second or transmission must cease.

Periodic acknowledgments must be received at least every 30 seconds or transmission must cease.

Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgement, at which the time access criteria must be repeated.

Test Result

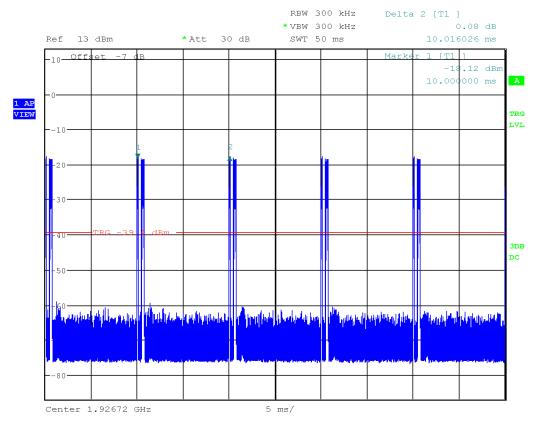
Acknowledgments

Test ref. to ANSI C63.17	Result	Pass/Fail
clause 8.2.1		
a) Initial transmission	Only for initiating device	N/A
without acknowledgments		
c) Transmission time after	5 s	Pass
loss of acknowledgments		

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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Graph



Date: 20.JUL.2018 15:37:45

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Threshold monitoring bandwidth

This test is only required if a dedicated monitoring receiver is used. If the test is not carried out the manufacturer shall declare and provide evidence that the monitoring is made through the radio receiver used for communication.

Measurement Procedure:

Simple Compliance Test, ANSI C63.17, clause 7.4.1

The test is passed if either the Simple Compliance Test or the More Detailed Test is passed. During this test the spectrum analyzer is observed visually to see if the EUT transmits or not.

Limits:

FCC 15.323(c)(7):

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission.

Test Results:

Simple Compliance Test, at $\pm 30\%$ of B was applied, No transmissions occurred and this was deemed a Pass

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Out of Band Unwanted Emissions, antenna conducted

Measurement Procedure:

ANSI C63.17, clause 6.1.6.1.

Limit

Requirement: FCC 15.323(d)

- -9.5 dBm from 0 to 1.25 MHz out of band
- -29.5 dBm from 1.25 MHz to 2.5 MHz out of band
- -39.5 dBm 2.5 MHz or more out of band

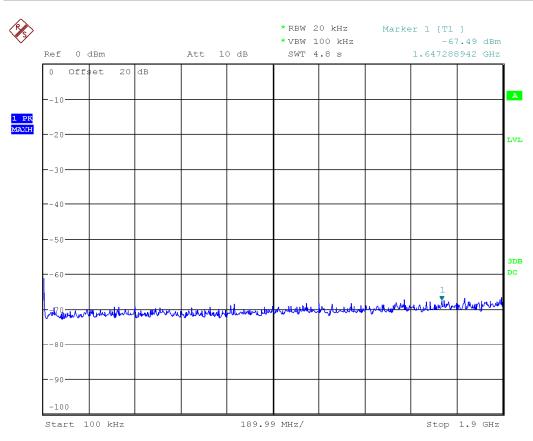
Test Result

Pass

Measurement Data

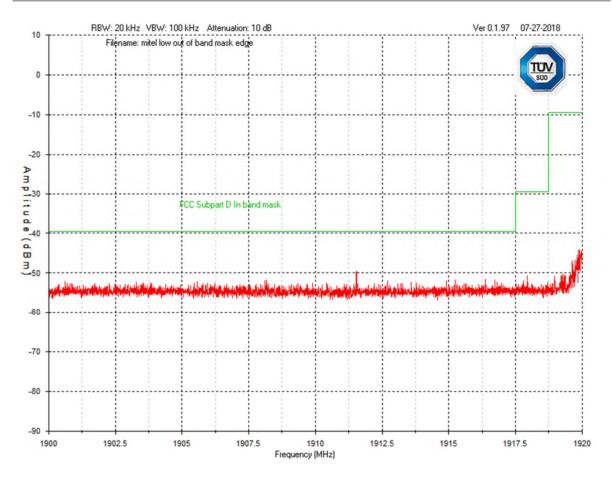
See Graphs

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

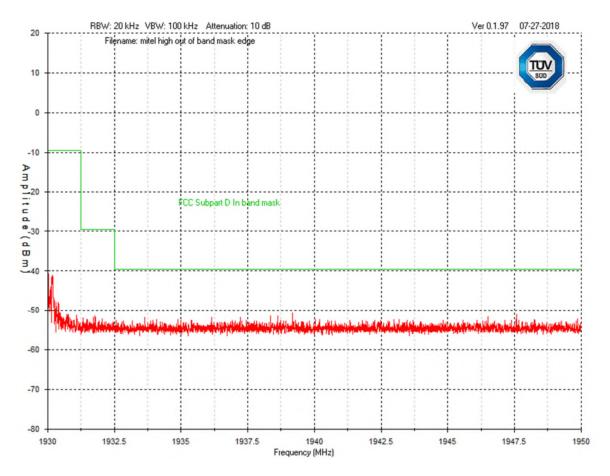


Date: 27.JUL.2018 20:39:02

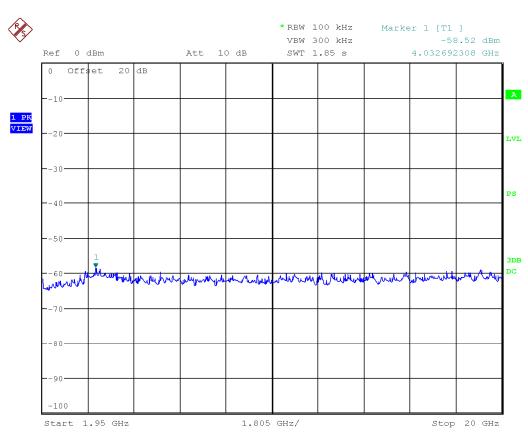
Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Date: 27.JUL.2018 20:33:49

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

In Band Emission Mask, antenna conducted

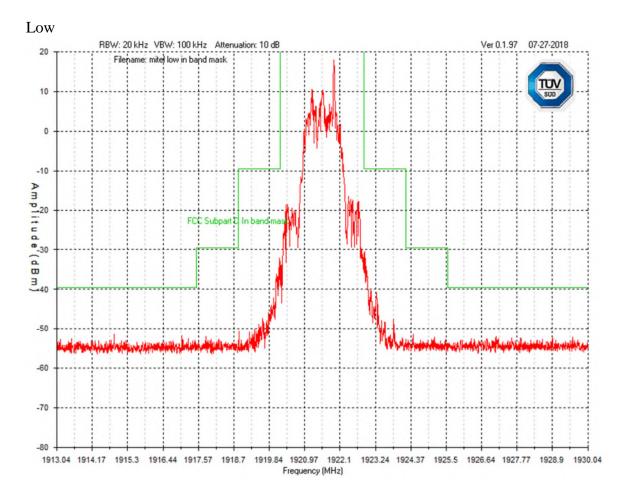
Measurement Procedure:

ANSI C63.17, clause 6.1.6.1.

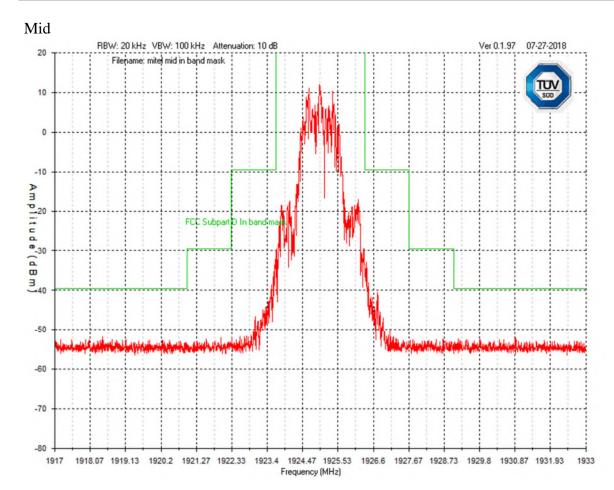
Limit

Requirement: FCC 15.323(d) 1B to 2B -> 30dB below power 2B to 3B -> 50 dB below power 3B to band edge -> 60 dB below power B=1346153 Hz, Power = 19.7 dBm

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

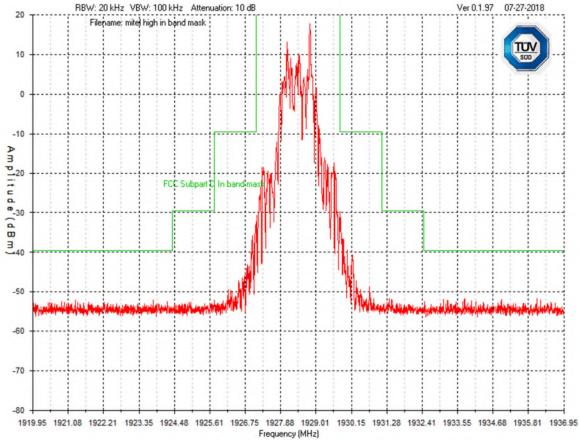


Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

High RBW: 20 kHz VBW: 100 kHz Attenuation: 10 dB 20



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Frame repetition stability, Frame period and jitter

Measurement Procedure:

ANSI C63.17, clause 6.2.2 and 6.2.3

Limit:

Frame Repetition Stability ± 10 ppm (TDMA) Max Jitter = 25 uS or 3 times St.Dev. of Jitter = 12.5 uS

Test Results:

Pass. Note at as the device more than met ppm and jitter with the worst case results, standard deviation was not applied.

Measurement Data:

The Frame Repetition Stability is measured with the CMD60. The Frame Repetition Stability is 3 times the standard deviation.

Carrier Frequency	Worst case (Hz)
1924.992 MHz	123.00000

Carrier Freuqency	Frame Period	Worst Case Max	3xStandard
		Jitter	Deviation of
		(uS)	Jitter (μs)
1924.992 MHz	10 mS	-0.005	0.006

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Frequency stability

Measurement Procedure:

ANSI C63.17, clause 6.2.1.

Limit

Over the temperature range of -20C to +50C, 10 ppm Over the voltage range of +/- 15% of the nominal voltage (115 Vac), 10 ppm.

Test result

Pass. See data below

Data

The Carrier Frequency Stability over power Supply Voltage and over Temperature is measured also with the CMD60.

Temperature	Measured Carrier Frequency (MHz)	Difference (kHz)	Deviation (ppm)	Pass/Fail
20C	1924.989	ref	N/A	N/A
-20C	1924.992	3	1.6	Pass
+50C	1924.991	2	1.0	Pass

Deviation ppm = ((Mean – Measured frequency) / Mean) x 106

Over the Voltage range of 95Vac to 140 Vac (exceeding the requirements) there was no measureable difference in frequency.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Appendix A – EUT Summary

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

For further details for filing purposes, refer to filing package.

General EUT Description

Client Details			
Organization / Address	Mitel Networks Corp		
	350 Legget Drive, Kanata, Ontario, Canada,		
Combort	K2K 2W7		
Contact	Paul Scott		
Phone	(613) 592 2122		
Email	Paul.Scott@Mitel.com		
, , ,	oment Under Test) Details		
EUT Name (for report title)	SIP-DECT Base Station RFP 44 and RFP 45		
EUT revision	New product Original Version		
Software version	SIP-DECT 8.0TC12		
Equipment category	DECT base station		
EUT is powered using	DC Power over Ethernet 48Vdc		
If mains powered, how many plugs?	N/A		
Input voltage range(s) (V)	48Vdc over POE adaptor		
Frequency range(s) (Hz)	n/a		
Rated input current (A)	310mA		
Nominal power consumption (W)	17W		
Number of power supplies in EUT	1		
Transmits RF energy? (describe)	Yes 100mW		
Basic EUT functionality description	DECT base station		
High level block diagram of EUT	Provided PDF file Name:EXHIBIT4- RFP4445		
(attachment)	BLOCK DIAGRAMs.pdf		
Modes of operation	DECT base station		
Step by step instructions for setup and operation	Just POWER ON		
Customer to setup EUT on site?	Yes		
EUT response time (ms)	<= 0.5ms		
EUT setup time (min)	5ms		
Frequency of all clocks present in EUT	25MHZ		

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Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

I/O cable description Specify length and type	CAT5 10Meter
Available connectors on EUT	NO
Peripherals required to exercise EUT Ex. Signal generator	Ehternet HUB with POE and an external Laptop or PC and DECT phones QTY 2 model Mitel M6xxD
Dimensions of product	L 175mm W 175mm H 40mm
Method of monitoring EUT and description of failure for immunity.	Laptop to monitor "ping" and 2xDECT handsets

Note the EUT is considered to have been received the date of the commencement of the first test, unless otherwise stated. For a close-up picture of the EUT, see 'Appendix B - EUT and Test Setup Photos'.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

EUT Functional Description

The Mitel RFP 44 and RFP 45 product is used as a DECT Base station as well as IP telephony

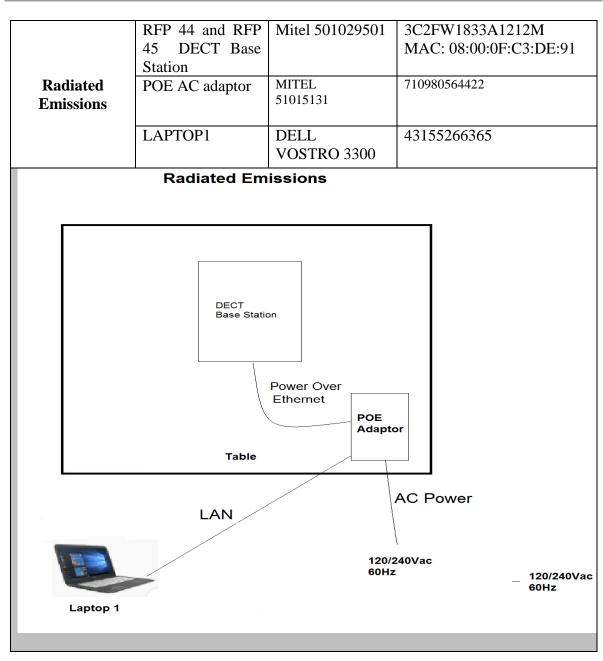
EUT Configuration

Please see Appendix B for a picture of the unit running under normal conditions. Cables were connected as per manufacturer 's specification.

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

		77.11	G • • • •
<u>Test</u>	Component	Model	Serial#
	DED 44 AMD DED 45	35: 1501020501	2 C2 FY 1 2 2 2 1 2 1 2 1 2 1 2 1
	RFP 44 AND RFP 45 DECT Base Station	Mitel 501029501	3C2FW1833A1212M MAC: 08:00:0F:C3:DE:91
	POE AC adaptor	MITEL	710980564422
Power Line	1 02 TO adaptor	51015131	710700301122
Conducted	LAPTOP1 (LAN)	DELL	43155266365
Emissions		VOSTRO 3300	
Power	· line Conducted Emis	esions	
Power	line Conducted Emis	ssions	
			\neg
		7	
	DECT		
	Base Station		
		J	
		er Over ernet	
	Luie	POE	
		Adaptor	
	Table		
		AC	— C Power
	LAN		
i man		1	
		LISN	120/240Va 60Hz
Laptop 1			

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Appendix B – EUT and Test Setup Photos

For information only. Refer to the photo exhibit separate from this test report

Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Power Line Conducted Emissions



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada



Client	Mitel Networks Corporation	
Product	SIP-DECT Base Station RFP44 and RFP45	TÜV
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	Canada

Radiated Emissions – 30 MHz to 1 GHz

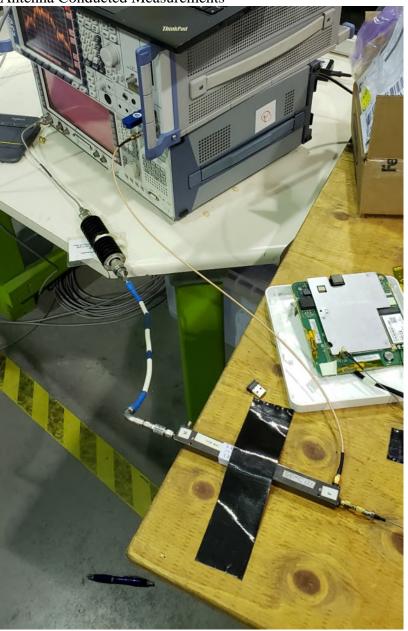


Radiated Emissions – 1GHz to 40 GHz



Client	Mitel Networks Corporation	Canada
Product	SIP-DECT Base Station RFP44 and RFP45	
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	

Antenna Conducted Measurements



Client	Mitel Networks Corporation	SUD
Product	SIP-DECT Base Station RFP44 and RFP45	
Standard(s)	RSS-213 Issue 3:2015& FCC Part 15 Subpart D:2017	

Monitoring and threshold Setup



Frequency Stability

