

Test Report

Product	Transportable Base Station System	
Name and address of the applicant	EXFO Finland Elektroniikkatie 2 FI-90590 Oulu, Finland	
Name and address of the manufacturer	EXFO Finland Elektroniikkatie 2 FI-90590 Oulu, Finland	
Model	FXm-NR	
Rating	See clause 1.1	
Trademark	EXFO	
Additional information	5G NR (New Radio)	
Tested according to	FCC Part 2 Subpart J FCC Part 22 Subpart H FCC Part 24 Subpart E FCC Part 27 Subpart C	ISED RSS-GEN Issue 5 ISED RSS-130 Issue 2 ISED RSS-132 Issue 4 ISED RSS-133 Issue 6 ISED RSS-139 Issue 4 ISED RSS-192 Issue 5 ISED RSS-198 Issue 1 ISED RSS-199 Issue 4
Order number	PRJ0025485	
Tested in period	2023-01-23 to 2023-03-21	
Issue date	2023-12-13	
Name and address of the testing laboratory	 Instituttveien 6 Kjeller, Norway www.nemko.com CAB Number: FCC: NO0001 ISED: NO0470   An accredited technical test executed under the Norwegian accreditation scheme	
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Revision history

Revision	Date	Comment	Sign
A	2023-04-13	First edition	FS
B	2023-08-14	Updated ISED RSS references to latest version	FS
C	2023-10-11	Added more plots for EBW	FS
D	2023-12-13	Removed n48	FS
E	2024-01-19	Updated Average Power Limits	FS

GENERAL REMARKS

This report applies only to the sample(s) tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

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Opinions expressed within this report regarding general assessments and qualifications for PASS or FAIL to the standards limits and requirements, are not part of the current accreditation. Neither are opinions expressed regarding model variants covered by the testing of this report.

CALIBRATION

All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Between calibrations all test set-ups are controlled and verified on a regular basis by periodic checks to ensure, with 95% confidence, that the instruments remain within the calibrated levels.

MEASUREMENT UNCERTAINTY

Measurement uncertainties are calculated or considered for all instruments and instrument set-ups used during these tests. Uncertainty figures are found in a separate clause in this report.

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Annex 1 – Plots for FXm-NR

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1 INFORMATION

1.1 Test Item

Name	EXFO
Model	FXm-NR
FCC ID	2A7IGEXCBTSNR
ISED ID	28799-EXCBTSNR
Power Supplies	TDK-Lambda Model: DTM300PW280D1 (Input 100-240V~3.3-1.4A, 50-60Hz, Output: 28.0V=10.71A, Max 300W)

Model	FXm-C	FXm-NR
Description	Controller	Main Unit
Serial Number	1669356	1685787
HW Version	3.0	1.0
SW Version	2023-01-25	/
Input Voltage	10-32 V _{DC}	N/A
Antenna Conn.	N/A	QMA
Power Supply	TDK-Lambda DTM300PW280D1	Powered from FXm-C

Characteristics	Description
Radio System Type	5G NR
Channel Spacing	0.005 MHz or 0.015 MHz
Channel Bandwidths	10 / 15 / 20 / 25 / 30 / 40 MHz
Type of Modulation	QPSK
Description of Product	Transportable Base Station System

1.2 Normal Test Conditions

Temperature:	21 - 24 °C
Relative humidity:	30 - 50 %
Normal test voltage:	120 V 60Hz AC

The values are the limit registered during the test period.

All tests were performed with the listed power supplies powered from a regulated AC Power Source.

1.3 Extreme Test Conditions

	Voltage	Temperature
Minimum	98 V	-20 °C
Maximum	138 V	+55 °C

1.4 Test Engineer

Frode Sveinsen

1.5 Test Methods

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
ANSI C63.25-2015

1.6 EUT Operating Modes and Test Set-up

Description of operating modes	A laptop computer with Remote Desktop was used to connect to the the Controller Unit. The EUT was controlled with a test software application on the Controller. The test software application allowed selection of operating mode, frequency band, bandwidth, operating channel, and power level.
Description of Test Set-up	The Controller is latched on to the Main Unit. The Main Unit has antenna connectors for TX and RX antennas.

1.7 Supported Operating Modes and Frequency Bands

Operating Mode	Frequency Band	Lower Band Edge (MHz)	Upper Band Edge (MHz)	Bandwidths (MHz)	FCC Part	RSS Part
NR (5G)	n02	1930	1990	10/15/20/25/30/40	Part 24E	RSS-133, Issue 6
	n05	869	894	10/15/20/25	Part 22H	RSS-132, Issue 4
	n07	2620	2690	10/15/20/25/30/40	N/A	RSS-139, Issue 4
	n12	729	746	10/15	Part 27C	RSS-130, Issue 2
	n25	1930	1995	10/15/20/25/30/40	Part 24E	RSS-133, Issue 6
	n41 ¹	2496	2690	10/15/20/25/30/40	Part 27C	RSS-199, Issue 4
	n66	2110	2180	10/15/20/25/30/40	Part 27C	RSS-139, Issue 4
	n71	617	652	10/15/20/25/30	Part 27C	RSS-130, Issue 2
	n77 ²	3450	3980	10/15/20/25/30/40	Part 27C	RSS-192, Issue 5 RSS-198, Issue 1
	n78 ³	3300	3800	10/15/20/25/30/40	Part 27C	RSS-192, Issue 5

¹ According to RSS-199 Issue 4, the Band n41 starts at 2500MHz.

² The range 3900-3980MHz is covered by RSS-198. FCC Part 27C does not include the range 3550-3700MHz.

³ RSS-192 does not cover the part of this band from 3300-3450MHz, and FCC Part 27C does NOT include the ranges 3300-3450MHz and 3550-3700MHz.

1.8 Comments

The measurements were performed with the EUT powered by 120 V AC. It was checked that power variations between 85% and 115% did not have any influence on the measurements.

The EUT was pre-programmed with maximum power level for each operating mode and frequency band, however for some of the band edge frequencies the power levels were reduced further to satisfy the emission limits.

The power level is noted for measurements where the level was reduced, all tests where reduced power level in not noted were performed with the maximum power level (=100).

2 TEST REPORT SUMMARY

2.1 General

All measurements are traceable to national standards.

Radiated tests were made in a semi-anechoic chamber at measuring distance of 3m or 1m.

A description of the test facility is on file with the FCC and Industry Canada.

☒ New Submission	☒ Production Unit
☐ Class II Permissive Change	☐ Pre-production Unit
TNB Equipment Code	☐ Family Listing

2.2 Test Summary

Name of test	FCC Reference	ISED Canada RSS Reference	Test Method ANSI C63.26-2015 Reference	Result
RF Power Output	2.1046 22.913 24.232 27.50	4.6 (RSS-130) 5.4 (RSS-132) 6.4 (RSS-133) 5.5 (RSS-139) 8.6 (RSS-192) 5.5 (RSS-198) 4.4 (RSS-199)	5.2.3.4	Complies
Peak-Average Ratio	2.1046 22.913 24.232 27.50	4.6 (RSS-130) 5.4 (RSS-132) 6.4 (RSS-133) 5.5 (RSS-139) 4.4 (RSS-199)	5.2.3.4	Complies
Modulation Characteristics	2.1047	4.2 (RSS-130) 5.2 (RSS-132) 6.2 (RSS-133) 5.3 (RSS-139) 8.4 (RSS-192) 5.3 (RSS-198) 4.1 (RSS-199)	5.3	Complies
Bandwidth	2.1049	6.7 (RSS-GEN) 8.3 (RSS-192) 4.2 (RSS-199)	5.4.3 5.4.4	Complies

Name of test	FCC Reference	ISED Canada RSS Reference	Test Method ANSI C63.26-2015 Reference	Result
Band Edge Compliance	2.1051 22.917 24.238 27.53	4.7 (RSS-130) 5.5 (RSS-132) 6.5 (RSS-133) 5.6 (RSS-139) 8.7 (RSS-192) 5.6 (RSS-198) 4.5 (RSS-199)	5.7	Complies
Emission Mask	N/A	N/A	-	N/A
Spurious Emissions at antenna terminals	2.1051 22.917 24.238 27.53	4.7 (RSS-130) 5.5 (RSS-132) 6.5 (RSS-133) 5.6 (RSS-139) 8.7 (RSS-192) 5.6 (RSS-198) 4.5 (RSS-199)	5.7	Complies
Field Strength of Spurious Radiations	2.1053, 2.1057 22.917 24.238 27.53	4.7 (RSS-130) 5.5 (RSS-132) 6.5 (RSS-133) 5.6 (RSS-139) 8.7 (RSS-192) 5.6 (RSS-198) 4.5 (RSS-199)	5.5	Complies
Frequency Stability	2.1055 22.355 24.235 27.54	4.5 (RSS-130) 5.3 (RSS-132) 6.3 (RSS-133) 5.4 (RSS-139) 8.5 (RSS-192) 5.4 (RSS-198) 4.3 (RSS-199)	5.6	Complies

3 TEST RESULTS

3.1 RF Output Power / Peak Excursion / Emission Bandwidth / OBW

Test Results: Complies

Measurement Method:

ANSI C63.26-2015 Clause 5.2 / 5.4

Output Power (dBm)	CCDF Function of Spectrum analyzer Number of Samples: 1,000,000 Bandwidth: Same as or higher than Channel BW (5, 10 or 20 MHz) EUT was transmitting continuously with modulation
PSD Average Power (dBm/MHz)	Spectrum analyzer RMS Detector, Max Hold, RBW: 1MHz, VBW: 3MHz Trace was allowed to stabilize EUT was transmitting continuously with modulation
Emission BW (26 dB)	Spectrum Analyzer with 26dB Marker function Peak Detector, Max Hold, RBW: 1-5% of EBW, VBW: 3xRBW Trace was allowed to stabilize EUT was transmitting continuously with modulation
Occupied BW (99%)	Spectrum Analyzer with 99% OBW function Peak Detector, Max Hold, RBW: 1-5% of EBW, VBW: 3xRBW Trace was allowed to stabilize EUT was transmitting continuously with modulation

Measurement data:

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak- Average Ratio, 0.1% (dB)	PSD Average Power (dBm/ MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
n02	10	387500	1937.5	100	28.96	38.87	8.20		11.55	
		392000	1960	100	28.59	38.37	8.06	27.98	11.41	8.92
		397000	1985	100	27.62	37.22	7.94		11.55	
	15	387700	1938.5	100	28.27	38.40	8.18			
		392000	1960	100	28.25	38.19	8.26	27.75	18.58	14.08
		396400	1982	100	27.21	37.48	8.12			
	20	388100	1940	90	26.10	36.80	8.34			
		388140	1940.7	100	28.14	37.86	8.24		22.98	
		392000	1960	100	28.18	38.31	8.30	24.18	22.94	18.55
	25	396000	1980	100	27.08	36.58	8.16		23.10	
		388500	1942.5	90	25.92	36.25	8.28			
		388800	1944	100	27.85	37.76	8.18			
	30	392000	1960	100	26.75	36.97	8.28	24.37	28.22	23.39
		395500	1977.5	100	26.98	37.07	8.18			
		389000	1945	92	26.32	36.55	8.20			
		389200	1946	100	27.78	37.78	8.10			
		392000	1960	100	27.16	37.16	8.16	23.91	35.09	28.15
		395000	1975	100	26.93	37.26	7.98		35.24	

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak-Average Ratio, 0.1% (dB)	PSD Average Power (dBm/MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
	40	390000	1950	100	27.58	37.55	8.12		46.65	
		392000	1960	100	27.22	36.99	8.16	22.01	45.85	38.72
		394000	1970	100	27.02	36.95	8.12			
n05	10	174800	874	100	27.77	36.86	7.42		11.63	9.17
		176300	881.5	100	27.43	36.73	7.44	27.97	11.59	9.04
		177800	889	100	27.76	37.02	7.36		11.57	9.10
	15	175300	876.5	100	27.30	39.91	7.46		18.79	
		176300	881.5	100	27.37	36.96	7.40	26.66	19.03	14.05
		177300	886.5	100	27.43	36.73	7.44		18.97	
	20	175800	879	100	27.31	36.50	7.34		22.82	
		176300	881.5	100	27.27	36.35	7.34	24.40	23.02	18.50
		176800	884	100	27.31	36.55	7.38		23.14	
	25	176300	881.5	100	27.25	36.30	7.48	22.54	29.92	23.37
n07	10	525000	2625	92	26.76	36.89	8.04			
		525100	2625.5	100	28.35	37.91	7.92			
		531000	2655	100	28.49	37.77	9.28	28.80	11.57	9.14
		537000	2685	100	27.43	36.74	7.62			
	15	525500	2627.5	85	25.01	35.71	8.08			
		525700	2628.5	100	28.28	38.65	8.00			
		531000	2655	100	28.28	38.08	7.86	27.74	18.88	14.00
		536400	2682.4	100	27.66	37.80	7.70			
	20	526000	2630	96	27.52	37.35	7.96			
		526100	2630.5	100	28.23	38.43	7.94			
		531000	2655	100	28.22	38.02	7.80	25.36	23.06	18.47
		536000	2680	100	27.75	37.22	7.70			
	25	526500	2632.5	100	28.11	37.85	7.94			
		531000	2655	100	28.14	37.75	7.78	23.60	30.12	23.37
		535500	2677.5	100	27.98	37.21	7.68			
	30	527000	2635	100	28.12	37.72	7.80			
		531000	2655	100	28.11	37.69	7.56	23.12	35.01	27.95
		534900	2574.5	100	28.04	37.32	7.48			
		535000	2675	96	27.25	36.70	7.60			
	40	528000	2640	100	28.22	37.93	7.88			
		531000	2655	100	28.17	37.60	7.74	21.99	46.55	38.71
		534000	2670	100	28.40	37.66	7.70			
n12	10	146800	734	100	27.73	36.96	7.36		11.53	9.03
		147500	737.5	100	27.94	37.22	7.34	27.90	11.49	9.08

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak-Average Ratio, 0.1% (dB)	PSD Average Power (dBm/MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
		148200	741	100	27.64	36.54	7.32		11.57	9.13
	15	147300	736.5	100	27.47	36.96	7.44			
		147500	737.5	100	27.51	37.18	7.42	26.50	18.85	14.00
		147700	738.5	100	27.83	37.06	7.42			
n25	10	392500	1962.5	100	28.33	38.02	8.02	27.87	11.51	8.93
		398000	1990	100	27.98	37.39	7.94			
	15	392500	1962.5	100	28.20	38.28	8.14	27.59	18.85	14.03
		397480	1987.4	100	28.03	38.68	8.10			
		387500	1987.5	96	27.35	38.12	8.16			
	20	392500	1962.5	100	28.11	37.85	8.22	25.24	22.94	18.46
		397000	1985	100	28.05	38.38	8.08			
	25	392500	1962.5	100	28.05	38.14	8.14	23.37	28.12	23.36
		396500	1985	100	28.14	38.25	8.12			
	30	392500	1962.5	100	28.32	38.17	8.02	23.49	35.09	28.00
		396000	1980	100	28.17	38.27	7.98			
	40	392500	1962.5	100	28.35	38.13	8.04	21.77	46.55	38.65
		395000	1975	100	28.29	38.19	8.12			
n41	10	510000	2550	100	28.77	39.20	8.60			
		518598	2592.99	100	29.01	39.42	8.68	29.89	9.63	8.70
		525000	2625	100	28.28	38.89	8.88			
	15	510000	2550	100	28.64	39.79	8.72			
		518598	2592.99	100	58.92	40.56	8.76	27.91	18.76	13.95
		525000	2625	100	28.22	39.65	8.92			
	20	510000	2550	100	28.70	39.15	8.68			
		518598	2592.99	100	28.89	39.41	8.68	27.27	22.74	18.50
		525000	2625	100	28.05	38.53	9.04			
	25	510000	2550	100	28.66	39.33	8.74			
		518598	2592.99	100	28.80	39.34	8.78	25.37	28.82	23.34
		525000	2625	100	28.10	38.98	8.92			
	30	510000	2550	100	28.76	39.54	8.54			
		518598	2592.99	100	28.73	39.42	8.62	25.16	37.80	27.97
		525000	2625	100	27.97	38.57	8.82			
	40	510000	2550	100	28.91	39.46	8.78			
		518598	2592.99	100	28.77	39.49	8.90	23.53	46.35	38.60
		525000	2625	100	28.16	38.98	8.98			
n66	10	423020	2115.1	98	28.03	37.63	7.74			
		423040	2115.2	100	28.25	38.00	7.68			

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak-Average Ratio, 0.1% (dB)	PSD Average Power (dBm/MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
		431000	2155	100	28.48	37.92	7.56	28.00	11.53	8.91
		434940	2174.7	100	28.18	37.48	7.62			
		435000	2175	90	26.13	35.93	7.86		11.61	90.05
	15	423500	2117.5	86	25.54	36.24	7.98			
		423700	2118.5	100	28.41	38.57	7.78			
		431000	2155	100	28.45	38.44	7.72	27.71	18.79	13.97
		434380	2171.9	100	28.30	38.16	7.78			
		434500	2172.5	88	27.54	37.80	7.70		18.79	13.90
	20	424100	2120.5	100	28.41	38.03	7.80			
		431000	2155	100	28.41	37.63	7.70	25.34	22.70	18.42
		433900	2169.5	100	38.35	37.70	7.74			
		434000	2170	95	26.95	36.68	7.78		22.78	
	25	424500	2122.5	94	27.16	36.71	7.90			
		424520	2122.6	100	29.18	38.95	7.94			
		431000	2155	100	28.56	38.06	7.74	24.24	28.27	23.32
		433400	2167	100	28.37	37.79	7.74			
		433500	2167.5	95	26.86	36.35	7.84		28.32	
	30	425000	2125	98	27.99	37.59	7.74			
		425060	2125.3	100	28.15	38.03	7.62			
		431000	2155	100	28.28	37.87	7.60	23.37	34.92	27.98
		432880	2164.4	100	28.40	38.31	7.58			
		433000	2165	95	26.93	36.63	7.70		35.09	
	40	426000	2130	100	28.36	38.02	7.88			
		431000	2155	100	28.30	37.84	7.78	21.96	45.95	38.49
		432000	2160	100	27.91	37.95	7.76		46.35	
n71	10	124400	622	100	27.54	36.72	7.32			
		126800	634	100	27.46	36.62	7.32	27.77	11.53	8.95
		129400	647	100	27.43	36.51	7.40			
	15	124900	624.5	100	27.46	36.81	7.34			
		126800	634	100	28.03	37.43	7.44	26.68	19.00	14.02
		128900	644.5	100	27.43	37.37	7.50			
	20	125400	627	100	27.51	36.52	7.36			
		126800	634	100	27.86	36.72	7.36	24.58	22.74	18.49
		128400	642	100	27.41	36.44	7.36			
	25	125900	629.5	100	27.64	37.09	7.38			
		126800	634	100	27.83	36.90	7.50	23.10	29.17	23.34
		127900	639.5	100	27.42	36.63	7.44			

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak-Average Ratio, 0.1% (dB)	PSD Average Power (dBm/MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
	30	126400	632	100	27.42	36.81	7.22			
		126800	634	100	27.82	37.15	7.32	22.56	35.09	27.98
		127400	637	100	27.40	36.63	7.32			
n77	10	630320	3454.8	100	26.02	36.81	8.84			
		650000	3750	100	28.16	39.05	8.80	29.02	9.65	8.70
		664800	3972	100	28.72	39.50	8.84			
		664900	3973.5	90	26.93	39.97	8.88			
		665000	3975	80	25.05	36.13	8.86			
	15	630500	3457.5	88	24.63	35.99	8.84			
		630540	3458.1	100	26.05	37.32	8.80			
		650000	3750	100	27.73	39.05	8.74	26.94	18.04	13.95
		664600	3969	100	28.20	39.74	8.88			
		664820	3972.3	80	24.62	36.34	8.78			
	20	630680	3460.2	100	26.38	37.06	8.76			
		650000	3750	100	27.63	38.25	8.72	25.69	22.82	18.45
		664520	3967.8	100	28.19	39.26	8.82			
		664660	3969.9	80	24.57	35.83	8.76			
	25	630820	3462.3	100	26.53	37.31	8.68			
		650000	3750	100	27.51	38.36	8.74	25.08	27.42	23.30
		664360	3965.4	100	27.88	38.74	8.94			
		664500	3967.5	85	25.11	36.19	8.86			
	30	631000	3465	100	26.86	37.86	8.66			
		650000	3750	100	27.38	38.42	8.68	24.09	37.88	27.96
		664180	3962.7	100	27.65	38.96	8.94			
		664330	3964.95	86	25.13	26.98	8.80			
	40	631300	3469.5	100	27.90	38.35	8.76			
		650000	3750	100	27.30	38.04	8.92	22.61	44.56	38.32
		663900	3958.5	100	27.69	39.12	9.14			
		664000	3960	92	26.30	37.73	9.08			
n78	10	620332	3304.83	100	27.10	37.75	8.86			
		636666	3549.99	100	30.06	40.60	8.66	30.81	9.65	8.71
		653012	3795.18	100	26.99	38.72	8.98			
	15	620530	3307.95	100	27.43	38.52	8.78			
		636666	3549.99	100	30.10	40.85	8.62	29.06	20.17	14.04
		652820	3792.3	100	27.63	39.73	9.04			
	20	620670	3310.05	100	27.57	38.45	8.76			
		636666	3549.99	100	30.19	40.46	8.48	29.48	23.06	18.52

Band	BW (MHz)	Channel	Tx Freq (MHz)	Power Level	Average Power (dBm)	Peak Power (dBm)	Maximum Peak-Average Ratio, 0.1% (dB)	PSD Average Power (dBm/MHz)	EBW 26dB BW (MHz)	OBW 99% BW (MHz)
		652666	3789.99	100	27.82	38.91	8.86			
	25	620820	3312.3	100	27.92	38.31	8.88			
		636666	3549.99	100	31.08	41.52	8.60	29.20	28.02	23.45
		652530	3787.95	100	27.78	39.08	8.98			
	30	620966	3314.49	100	27.57	38.54	8.78			
		636666	3549.99	100	30.38	40.92	8.50	27.28	37.96	28.31
		652360	3785.4	100	27.91	39.15	8.82			
	40	621320	3319.8	100	27.34	38.22	9.00			
		636666	3549.99	100	30.86	41.49	8.74	27.41	45.85	39.55
		652040	3780.6	100	28.15	39.32	9.04			

Requirements:

FCC Part	Power Limits for Base Stations with Bandwidth greater than 1 MHz	Maximum Peak-Average Ratio, 0.1%
22.913	869-894 MHz: ERP must not exceed 500 Watts per emission; or 400 Watts/MHz (PSD) per sector	Must not exceed 13 dB
24.232	1930-1995 MHz: EIRP must not exceed 1640 Watts/MHz	Must not exceed 13 dB
27.50	600 MHz Band and 698-746 MHz: 1000 Watts/MHz ERP 2110-2180 MHz: 1640 Watts/MHz EIRP 2496-2690 MHz: 2000 Watts/5.5 MHz EIRP 3450-3550 MHz and 3700-3980MHz: 1640 Watts/MHz EIRP	Must not exceed 13 dB

ISED Part	Maximum Average Power	Maximum Peak-Average Ratio, 0.1%
RSS-130 RSS-132 RSS-133 RSS-139 RSS-192 RSS-198 RSS-199	Base and Fixed Stations: 617-652MHz and 729-746MHz: 1640 Watts/MHz EIRP 869-894MHz: 820 Watts/5 MHz EIRP 1930-1995MHz: 1640 Watts/MHz EIRP 2110-2180MHz: 65 dBm EIRP/MHz (non-active antennas) 2110-2180MHz: 46 dBm TRP/MHz (active antennas) 2500-2690MHz: 1640 Watts EIRP/MHz (non-active antennas) 2500-2690MHz: 43 dBm TRP/MHz (active antennas) 3450-3900MHz: 68 dBm EIRP/5 MHz (non-active antennas) 3450-3900MHz: 47 dBm TRP/5 MHz (active antennas) 3900-3980MHz: 37 dBm/MHz EIRP (Outdoor Base Station) 3900-3980MHz: 20 dBm/MHz EIRP (Indoor Base Station)	Must not exceed 13 dB

3.2 Band Edge Compliance

Test Results: Complies

Measurement Method:

ANSI C63.26-2015 Clause 5.7

Spurious Emissions at Antenna Terminals	Measured with Spectrum Analyzer RMS Detector, Trace Averaging over 500 sweeps Below 1GHz: RBW/VBW: 100kHz/300kHz Above 1GHz: RBW/VBW: 1MHz/3MHz EUT was transmitting continuously with modulation
Band Edge	Same as above, but with reduced RBW/VBW at less than 1MHz from Band Edge

Measurement Data:

Band	Bandwidth (MHz)	Channel	Tx Freq (MHz)	Band Edge (MHz)	Power Level	Band Edge Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
n02	10	387100	1935.5	1930	92	-13.30	-13	0.30	Pass
	10	387500	1937.5	1930	100	-13.30	-13	0.30	Pass
	15	387700	1938.5	1930	100	-13.09	-13	0.09	Pass
	20	388000	1940	1930	90	-13.34	-13	0.34	Pass
	20	388140	1940.7	1930	100	-13.51	-13	0.51	Pass
	25	388500	1942.5	1930	90	-13.36	-13	0.36	Pass
	25	388800	1944	1930	100	-13.35	-13	0.35	Pass
	30	389000	1945	1930	92	-13.87	-13	0.87	Pass
	30	389200	1946	1930	100	-13.64	-13	0.64	Pass
	40	390000	1950	1930	100	-13.28	-13	0.28	Pass
	10	397000	1985	1990	100	-14.30	-13	1.30	Pass
	15	396400	1982	1990	100	-14.25	-13	1.25	Pass
	20	396000	1980	1990	100	-13.50	-13	0.50	Pass
	25	395500	1977.5	1990	100	-13.52	-13	0.52	Pass
	30	395000	1975	1990	100	-13.35	-13	0.35	Pass
	40	394000	1970	1990	100	-15.42	-13	2.42	Pass
n05	10	174800	874	869	100	-17.34	-13	4.34	Pass
	15	175300	876.5	869	100	-19.54	-13	6.54	Pass
	20	175800	879	869	100	-20.22	-13	7.22	Pass
	25	176300	881.5	869	100	-22.97	-13	9.97	Pass
	10	177800	889	894	100	-17.08	-13	4.08	Pass
	15	177300	886.5	894	100	-18.92	-13	5.92	Pass
	20	176800	884	894	100	-21.28	-13	8.28	Pass
	25	176300	881.5	894	100	-22.85	-13	9.85	Pass
n07	10	525000	2625	2620	92	-14.66	-13	1.66	Pass
	10	525100	2625.5	2620	100	-17.58	-13	4.58	Pass
	15	525500	2627.5	2620	85	-13.64	-13	0.64	Pass
	15	525700	2628.5	2620	100	-13.79	-13	0.79	Pass
	20	526000	2630	2620	96	-13.44	-13	0.44	Pass

Band	Bandwidth (MHz)	Channel	Tx Freq (MHz)	Band Edge (MHz)	Power Level	Band Edge Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
	20	526100	2630.5	2620	100	-14.41	-13	1.41	Pass
	25	526500	2632.5	2620	100	-13.47	-13	0.47	Pass
	30	527000	2635	2620	100	-13.66	-13	0.66	Pass
	40	528000	2640	2620	100	-15.38	-13	2.38	Pass
	10	537000	2685	2690	100	-13.76	-13	0.76	Pass
	15	536400	2682.4	2690	100	-13.90	-13	0.90	Pass
	15	536500	2682.5	2690	92	-14.28	-13	1.28	Pass
	20	536000	2680	2690	100	-13.21	-13	0.21	Pass
	25	535500	2677.5	2690	100	-13.29	-13	0.29	Pass
	30	534900	2574.5	2690	100	-13.80	-13	0.80	Pass
	30	535000	2575	2690	96	-13.83	-13	0.83	Pass
	40	534000	2670	2690	100	-14.08	-13	1.08	Pass
n12	10	146800	734	729	100	-16.99	-13	3.99	Pass
	15	147300	736.5	729	100	-19.14	-13	6.14	Pass
	10	148200	741	746	100	-16.70	-13	3.70	Pass
	15	147700	738.5	746	100	-18.83	-13	5.83	Pass
n25 ¹	10	398000	1990	1995	100	-15.19	-13	2.19	Pass
	15	397480	1987.4	1995	100	-13.85	-13	0.85	Pass
	15	397500	1987.5	1995	96	-13.87	-13	0.87	Pass
	20	397000	1985	1995	100	-13.25	-13	0.25	Pass
	25	396500	1982.5	1995	100	-13.72	-13	0.72	Pass
	30	396000	1980	1995	100	-13.66	-13	0.66	Pass
	40	395000	1975	1995	100	-14.96	-13	1.96	Pass
n41 ²	10	510000	2550	2496	100	-32.38	-13	19.38	Pass
	15	510000	2550	2496	100	-33.36	-13	20.36	Pass
	20	510000	2550	2496	100	-28.32	-13	15.32	Pass
	25	510000	2550	2496	100	-20.00	-13	7.00	Pass
	30	510000	2550	2496	100	-17.59	-13	4.59	Pass
	40	510000	2550	2496	100	-16.14	-13	3.14	Pass
	10	525000	2625	2690	100	-35.66	-13	22.66	Pass
	15	525000	2625	2690	100	-27.45	-13	14.45	Pass
	20	525000	2625	2690	100	-18.53	-13	5.53	Pass
	25	525000	2625	2690	100	-16.35	-13	3.35	Pass
	30	525000	2625	2690	100	-15.61	-13	2.61	Pass
	40	525000	2625	2690	100	-14.31	-13	1.31	Pass
n66	10	423020	2115.1	2110	98	-13.38	-13	0.38	Pass
	10	423040	2115.2	2110	100	-14.93	-13	1.93	Pass
	15	423500	2117.5	2110	86	-13.69	-13	0.69	Pass
	15	423700	2118.5	2110	100	-14.32	-13	1.32	Pass

Band	Bandwidth (MHz)	Channel	Tx Freq (MHz)	Band Edge (MHz)	Power Level	Band Edge Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
	20	424000	2120	2110	90	-13.31	-13	0.31	Pass
	20	424100	2120.5	2110	100	-13.86	-13	0.86	Pass
	25	424500	2122.5	2110	94	-13.26	-13	0.26	Pass
	25	424520	2122.6	2110	100	-13.81	-13	0.81	Pass
	30	425000	2125	2110	98	-13.40	-13	0.40	Pass
	30	425060	2125.3	2110	100	-13.08	-13	0.08	Pass
	40	426000	2130	2110	100	-14.39	-13	1.39	Pass
	10	434940	2174.7	2180	100	-13.59	-13	0.59	Pass
	10	435000	2175	2180	96	-14.24	-13	1.24	Pass
	15	434380	2171.9	2180	100	-13.16	-13	0.16	Pass
	15	434500	2172.5	2180	88	-13.55	-13	0.55	Pass
	20	433900	2169.5	2180	100	-13.08	-13	0.08	Pass
	20	434000	2170	2180	95	-13.59	-13	0.59	Pass
	25	433400	2167	2180	100	-13.32	-13	0.32	Pass
	25	433500	2167.5	2180	95	-13.38	-13	0.38	Pass
	30	432880	2164.4	2180	100	-13.48	-13	0.48	Pass
	30	433000	2165	2180	95	-13.88	-13	0.88	Pass
	40	432000	2160	2180	100	-13.34	-13	0.34	Pass
n71	10	124400	622	617	100	-17.45	-13	4.45	Pass
	15	124900	624.5	617	100	-19.39	-13	6.39	Pass
	20	125400	627	617	100	-20.12	-13	7.12	Pass
	25	125900	629.5	617	100	-20.82	-13	7.82	Pass
	30	126400	632	617	100	-22.73	-13	9.73	Pass
	10	129400	647	652	100	-17.64	-13	4.64	Pass
	15	128900	644.5	652	100	-18.14	-13	5.14	Pass
	20	128400	642	652	100	-18.83	-13	5.83	Pass
	25	127900	639.5	652	100	-19.91	-13	6.91	Pass
	30	127400	637	652	100	-19.11	-13	6.11	Pass
n77	10	630320	3454.8	3450	100	-13.71	-13	0.71	Pass
	15	630500	3457.5	3450	88	-14.22	-13	1.22	Pass
	15	630540	3458.1	3450	100	-14.25	-13	1.25	Pass
	20	630680	3460.2	3450	100	-14.38	-13	1.38	Pass
	25	630820	3462.3	3450	100	-13.74	-13	0.74	Pass
	30	631000	3465	3450	100	-15.62	-13	2.62	Pass
	40	631300	3469.5	3450	100	-14.33	-13	1.33	Pass
	10	664800	3972	3980	100	-13.38	-13	0.38	Pass
	10	664900	3973.5	3980	90	-13.32	-13	0.32	Pass
	10	665000	3975	3980	80	-13.53	-13	0.53	Pass
	15	664600	3969	3980	100	-13.70	-13	0.70	Pass
	15	664820	3972.3	3980	80	-13.10	-13	0.10	Pass

Band	Bandwidth (MHz)	Channel	Tx Freq (MHz)	Band Edge (MHz)	Power Level	Band Edge Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
	20	664520	3967.8	3980	100	-13.07	-13	0.07	Pass
	20	664660	3969.9	3980	80	-13.48	-13	0.48	Pass
	25	664400	3966	3980	100	-13.14	-13	0.14	Pass
	25	664500	3967.5	3980	85	-13.44	-13	0.44	Pass
	30	664180	3962.7	3980	100	-13.68	-13	0.68	Pass
	30	664330	3964.95	3980	86	-13.24	-13	0.24	Pass
	40	663900	3958.5	3980	100	-14.66	-13	1.66	Pass
	40	664000	3960	3980	92	-14.35	-13	1.35	Pass
n78	10	620322	3304.83	3300	100	-14.69	-13	1.69	Pass
	15	620530	3307.95	3300	100	-13.08	-13	0.08	Pass
	20	620670	3310.05	3300	100	-13.53	-13	0.53	Pass
	25	620820	3312.3	3300	100	-14.26	-13	1.26	Pass
	30	620966	3314.49	3300	100	-14.04	-13	1.04	Pass
	40	621320	3319.8	3300	100	-14.63	-13	1.63	Pass
	10	653012	3795.18	3800	100	-14.05	-13	1.05	Pass
	15	652820	3792.3	3800	100	-14.11	-13	1.11	Pass
	20	652666	3789.99	3800	100	-13.87	-13	0.87	Pass
	25	652530	3787.95	3800	100	-14.02	-13	1.02	Pass
	30	652360	3785.4	3800	100	-13.83	-13	0.83	Pass
	40	652040	3780.6	3800	100	-14.70	-13	1.70	Pass

¹Lower Band Edge of n25 is the same as n02.

²Lower Band Edge of n41 is 2500 MHz per ISED Canada RSS-199.

3.3 Emissions at Antenna Terminals

Test Results: Complies

Measurement Method:

ANSI C63.26-2015 Clause 5.7

Spurious Emissions at Antenna Terminals	Measured with Spectrum Analyzer RMS Detector, Trace Averaging over 500 sweeps Below 1GHz: RBW/VBW: 100kHz/300kHz Above 1GHz: RBW/VBW: 1MHz/3MHz EUT was transmitting continuously with modulation Power level was set to maximum supported in the EUT
Comment	All harmonics were more than 10 dB below the limit

Measurement Data:

Band	Channel	Tx Freq (MHz)	Measured Freq. (MHz)	Power Level	Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
n02	392000	1960	1804.8	100	-27.5	-13	14.5	Pass
			1881.6	100	-29.1	-13	16.1	Pass
			2188.8	100	-24.2	-13	11.2	Pass
			2265.6	100	-26.1	-13	13.1	Pass
			2342.4	100	-27.4	-13	14.4	Pass
			2419.2	100	-33.3	-13	20.3	Pass
			2496	100	-31.7	-13	18.7	Pass
n05	176300	881.5	345.6	100	-31.0	-13	18.0	Pass
			422.4	100	-31.6	-13	18.6	Pass
			499.2	100	-23.5	-13	10.5	Pass
			576	100	-25.1	-13	12.1	Pass
			614.4	100	-34.9	-13	21.9	Pass
			652.8	100	-19.7	-13	6.7	Pass
			729.6	100	-30.5	-13	17.5	Pass
			806.4	100	-32.3	-13	19.3	Pass
			960	100	-26.8	-13	13.8	Pass
			1763.2	100	-40.7	-13	27.7	Pass
n07	531000	2655	1804.8	100	-23.9	-13	10.9	Pass
			2227.2	100	-29.8	-13	16.8	Pass
			2265.6	100	-25.4	-13	12.4	Pass
			2342.4	100	-25.8	-13	12.8	Pass
			2457.5	100	-34.0	-13	21.0	Pass
n12	147500	737.5	192	100	-32.7	-13	19.7	Pass
			345.6	100	-31.1	-13	18.1	Pass
			422.4	100	-31.3	-13	18.3	Pass
			499.2	100	-23.9	-13	10.9	Pass
			576	100	-25.3	-13	12.3	Pass
			652.8	100	-20.0	-13	7.0	Pass

Band	Channel	Tx Freq (MHz)	Measured Freq. (MHz)	Power Level	Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
			806.4	100	-32.2	-13	19.2	Pass
			883.2	100	-25.7	-13	12.7	Pass
			960	100	-27.2	-13	14.2	Pass
			1475	100	-27.2	-13	14.2	Pass
n25	392500	1962.5	1804.86	100	-28.7	-13	15.7	Pass
			1881.6	100	-29.7	-13	16.7	Pass
			2188.76	100	-25.2	-13	12.2	Pass
			2227.2	100	-31.1	-13	18.1	Pass
			2265.6	100	-26.7	-13	13.7	Pass
			2342.4	100	-27.1	-13	14.1	Pass
			2457.5	100	-35.1	-13	22.1	Pass
			2496	100	-31.7	-13	18.7	Pass
n41	518598	2592.99	1804.9	100	-28.7	-13	15.7	Pass
			1881.6	100	-29.8	-13	16.8	Pass
			2188.7	100	-25.2	-13	12.2	Pass
			2227.2	100	-31.1	-13	18.1	Pass
			2265.6	100	-26.7	-13	13.7	Pass
			2342.4	100	-27.1	-13	14.1	Pass
			2457.5	100	-35.1	-13	22.1	Pass
			2496	100	-31.7	-13	18.7	Pass
n66	431000	2155	1804.8	100	-27.2	-13	14.2	Pass
			1881.6	100	-28.3	-13	15.3	Pass
			2265.6	100	-25.5	-13	12.5	Pass
			2342.4	100	-26.0	-13	13.0	Pass
			2496	100	-30.5	-13	17.5	Pass
n71	126800	634	345.6	100	-31.4	-13	18.4	Pass
			499.2	100	-24.0	-13	11.0	Pass
			576	100	-25.3	-13	12.3	Pass
			652.8	100	-20.4	-13	7.4	Pass
			729.6	100	-31.0	-13	18.0	Pass
			806.4	100	-32.4	-13	19.4	Pass
			883.2	100	-25.8	-13	12.8	Pass
			960	100	-27.5	-13	14.5	Pass
			1036.8	100	-28.2	-13	15.2	Pass
			1113.6	100	-31.8	-13	18.8	Pass
			1268	100	-39.8	-13	26.8	Pass
n77	650000	3750	3379.2	100	-28.6	-13	15.6	Pass
			3571.1	100	-25.8	-13	12.8	Pass
			3648.1	100	-24.6	-13	11.6	Pass

Band	Channel	Tx Freq (MHz)	Measured Freq. (MHz)	Power Level	Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
			3850.6	100	-31.6	-13	18.6	Pass
n78	636666	3549.99	any	100	< -30	-13	> 17	Pass

3.4 Cabinet Radiations

Test Results: Complies

Measurement Method:

ANSI C63.26-2015 Clause 5.5

Cabinet Radiations	Field Strength was measured using the Spectrum Analyzer Power Levels were calculated using the methods in KDB 412172 D01 v01r01 RMS Detector, Trace Averaging over 500 sweeps Below 1GHz: RBW/VBW: 100kHz/300kHz Above 1GHz: RBW/VBW: 1MHz/3MHz EUT was transmitting continuously with modulation and with 10 MHz Bandwidth Power level was set to maximum supported level of the EUT Antenna connector was terminated into a 50 Ohm load
Comment	The margin was more than 20 dB for all spurious frequencies; therefore, no more frequencies or bandwidths were investigated

Measurement Data:

Band	Channel	Tx Freq (MHz)	Measured Freq. (MHz)	Emissions (dBμV/m @3m)	Emissions (dBm)	Limit (dBm)	Margin (dB)	Verdict
n02	392000	1960	30-20000	< 60	< -35	-13	> 22	Pass
n05	176300	881.5	30-10000	< 60	< -35	-13	> 22	Pass
n07	531000	2655	30-30000	< 60	< -35	-13	> 22	Pass
n12	147500	737.5	30-8000	< 60	< -35	-13	> 22	Pass
n25	392500	1962.5	30-20000	< 60	< -35	-13	> 22	Pass
n41	518598	2592.99	30-18000	< 60	< -35	-13	> 22	Pass
n66	520000	2600	18000-26500	< 60	< -35	-13	> 22	Pass
	431000	2155	30-22000	< 60	< -35	-13	> 22	Pass
n71	126800	634	30-8000	< 60	< -35	-13	> 22	Pass
n77	650000	3750	30-40000	< 60	< -35	-13	> 22	Pass
n78	636666	3549.99	30-18000	< 60	< -35	-13	> 22	Pass
	637000	3555	18000-40000	< 60	< -35	-13	> 22	Pass

3.5 Frequency Stability

Test Results: Complies

Measurement Method:

ANSI C63.26-2015 Clause 5.6

EUT State	EUT was transmitting continuously a modulated signal on a channel in the middle of the band. It was not possible to get the EUT to transmit without modulation.
Measurement Method	The measurement was performed using the OBW Function (99%) of the analyzer RBW/VBW = 10kHz/30kHz, Span = 20MHz
Comment	All measurements were performed with 10 MHz Bandwidth at a frequency in the middle of the band

Measurement Data:

Band No	Nom. Freq. (MHz)	Parameter	+50 °C	+40 °C	+30 °C	+20 °C	+10 °C	0 °C	-10 °C	-20 °C
n02	1960.0	Deviation (Hz)	-647	341	111	0	697	1427	1965	2369
		Deviation (ppm)	0.33	-0.17	-0.06	0	-0.36	-0.73	-1.00	-1.21
n05	881.5	Deviation (Hz)	428	-172	290	0	529	485	448	-156
		Deviation (ppm)	0.49	-0.20	0.33	0	0.78	0.55	0.51	-0.18
n07	2655.0	Deviation (Hz)	276	-468	128	0	280	-288	-80	-472
		Deviation (ppm)	0.10	-0.18	0.05	0	0.11	-0.11	-0.03	-0.18
n12	737.5	Deviation (Hz)	-91	-271	-26	0	325	654	662	708
		Deviation (ppm)	-0.12	-0.37	-0.04	0	0.44	0.89	0.90	0.96
n25	1962.5	Deviation (Hz)	206	-250	-589	0	-1446	-1648	-2344	-2684
		Deviation (ppm)	0.10	-0.13	-0.30	0	-0.74	-0.84	-1.19	-1.37
n41	2592.99	Deviation (Hz)	335	1275	821	0	-281	-860	573	135
		Deviation (ppm)	0.13	0.49	0.32	0	-0.11	-0.33	0.22	0.05
n66	2155.0	Deviation (Hz)	-263	-841	-510	0	-503	367	-34	466
		Deviation (ppm)	-0.12	-0.39	-0.24	0	-0.23	0.17	-0.02	0.22
n71	634.0	Deviation (Hz)	-193	-127	79	0	-495	-316	-409	-343
		Deviation (ppm)	-0.30	-0.20	0.12	0	-0.78	-0.50	-0.65	-0.54
n77	3750.0	Deviation (Hz)	394	805	534	0	2018	3250	5643	3165
		Deviation (ppm)	0.11	0.21	0.14	0	0.54	0.87	1.50	0.84
n78	3549.99	Deviation (Hz)	-43	-2747	-4238	0	-5503	-7536	-8722	-9840
		Deviation (ppm)	-0.01	-0.77	-1.19	0	-1.55	-2.12	-2.46	-2.77

Band	Nom. Freq.	Parameter	120V 60Hz	98V 60Hz	138V 60Hz
n02	1960.0 MHz	Deviation (Hz)	0	-189	-449
		Deviation (ppm)	0	0.10	0.23
n05	881.5 MHz	Deviation (Hz)	0	687	-33
		Deviation (ppm)	0	0.78	-0.04
n07	2655.0 MHz	Deviation (Hz)	0	30	282
		Deviation (ppm)	0	0.01	0.11
n12	737.5 MHz	Deviation (Hz)	0	523	296
		Deviation (ppm)	0	0.71	0.40
n25	1962.5 MHz	Deviation (Hz)	0	-1101	-560
		Deviation (ppm)	0	-0.56	-0.29
n41	2592.99 MHz	Deviation (Hz)	0	758	263
		Deviation (ppm)	0	0.29	0.10
n66	2155.0 MHz	Deviation (Hz)	0	-87	12
		Deviation (ppm)	0	-0.04	0.01
n71	634.0 MHz	Deviation (Hz)	0	2	-84
		Deviation (ppm)	0	0.00	-0.13
n77	3750.0 MHz	Deviation (Hz)	0	1105	-1031
		Deviation (ppm)	0	0.29	-0.27
n78	3549.99 MHz	Deviation (Hz)	0	-3662	-4059
		Deviation (ppm)	0	-1.03	-1.14

Requirements:

	FCC	ISED
n02	stays within AFB	1.0 ppm, or stays within AFB
n05	1.5 ppm	
n07	stays within AFB	
n12	stays within AFB	
n25	stays within AFB	1.0 ppm, or stays within AFB
n41	stays within AFB	
n66	stays within AFB	stays within AFB
n71	stays within AFB	stays within AFB
n77	stays within AFB	
n78	stays within AFB	

AFB = Authorized Frequency Block

4 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted (RBW < 100 kHz)	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

5 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	FSW40	Spectrum Analyzer	Rohde & Schwarz	LR 1690	2023-01	2024-01
2	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2023-01	2024-01
3	5920 N-50-050	Attenuator	Suhner	LR 1836	2023-02	2024-02
4	JB3	BiLog Antenna	Sunol Sciences	N-4525	2022-09	2025-09
5	3115	Horn Antenna	EMCO	LR 1330	N/A	
6	3117-PA	Horn Antenna with PreAmp	EMCO	LR 1717	2022-08	2023-08
7	Model 310	Pre-amplifier	Sonoma	LR 1686	2022-08	2023-08
8	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2022-08	2023-08
9	6812A	Power Source	Agilent	LR 1515	2022-11	2024-11
10	638	Horn Antenna	Narda	LR 1480	N/A	
11	V637	Horn Antenna	Narda	LR 099	N/A	
12	JS4-26004000-27	Pre-Amplifier	Miteq	LR 1591	2022-08	2023-08

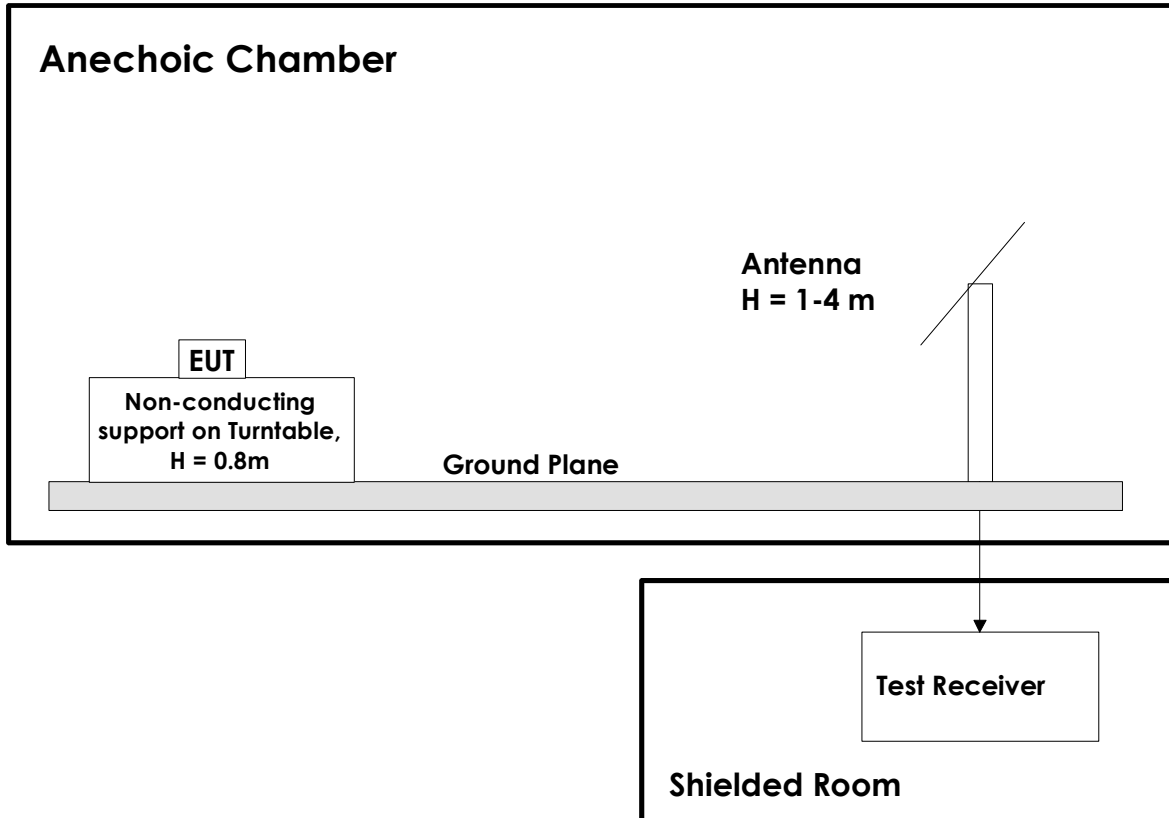
COU = Calibrate on Use

The software listed below has been used for one or more tests in this report.

No.	Manufacturer	Name	Version	Comment
1	Rohde & Schwarz	EMC32	10.50.40	EMC test software
2	Nemko AS	RSPlot	1.0.8.0	Captures screenshots from R&S Analyzers

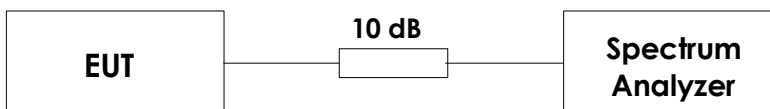
6 BLOCK DIAGRAM

6.1 Test Site Radiated Emission



For measurements above 1 GHz the ground plane is covered by absorbers.
 Below 30 MHz, measuring distance of 10m is used for spurious emissions measurements.

6.2 Conducted Test



This setup is used for all conducted tests where a spectrum analyser is used.
 The actual value of the attenuator will depend on the output power of the EUT.