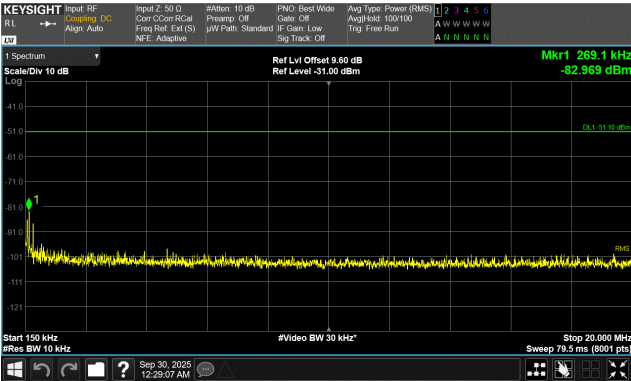


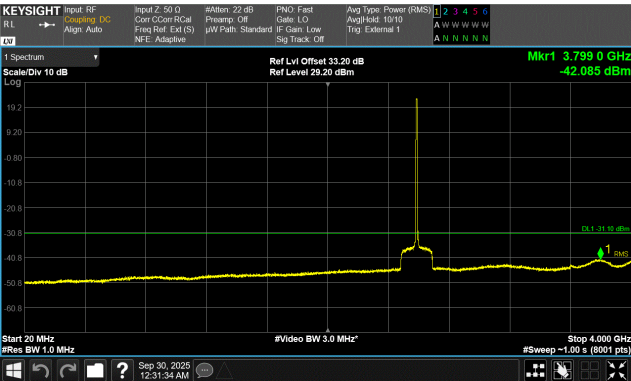
SPURIOUS CONDUCTED EMISSIONS



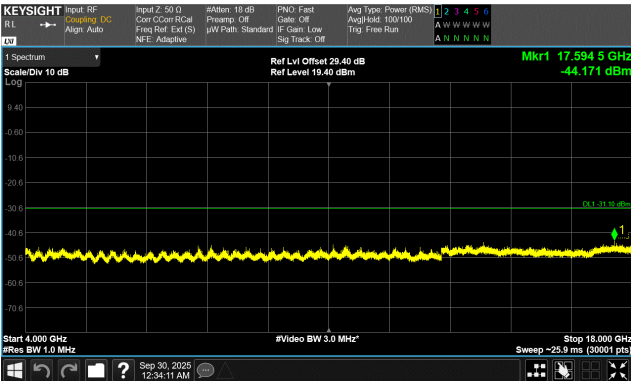
Port 1
10 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



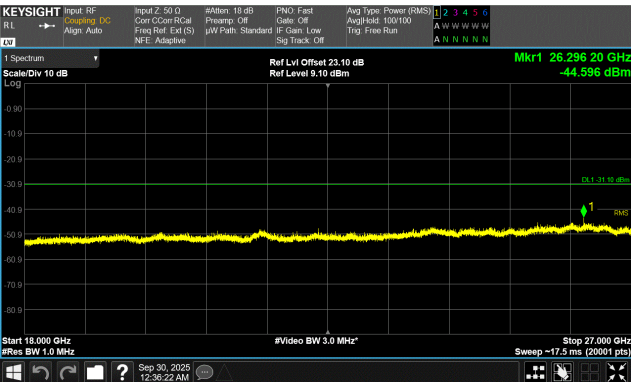
Port 1
10 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



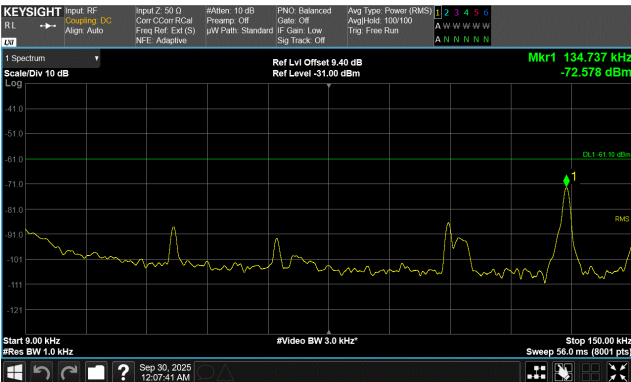
Port 1
10 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



Port 1
10 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

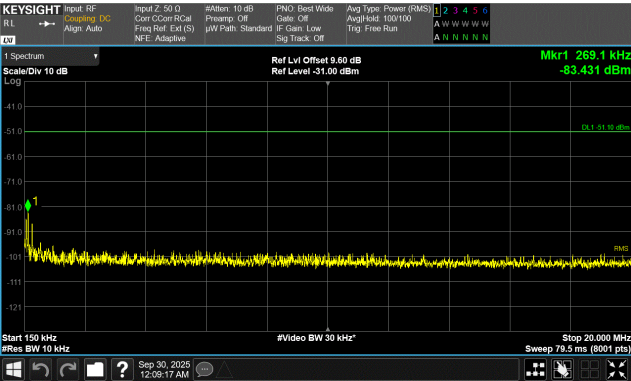


Port 1
10 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

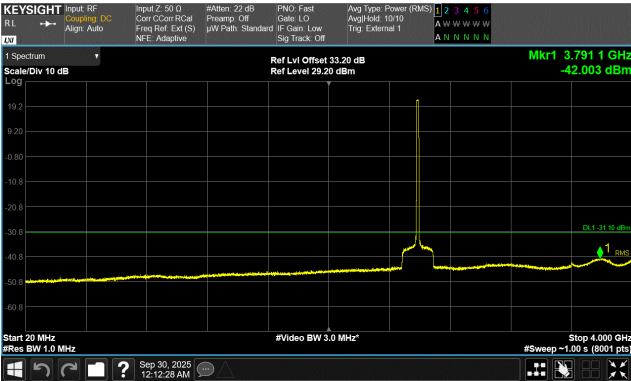


Port 1
15 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

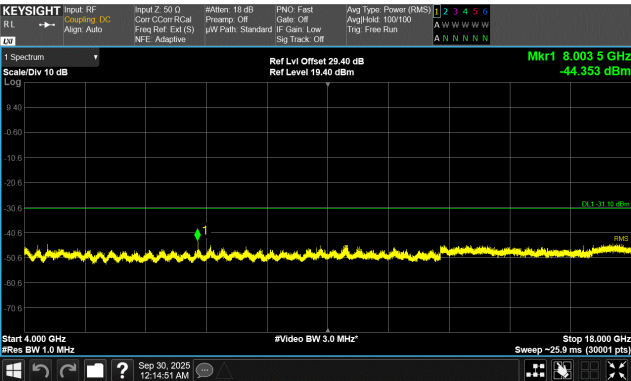
SPURIOUS CONDUCTED EMISSIONS



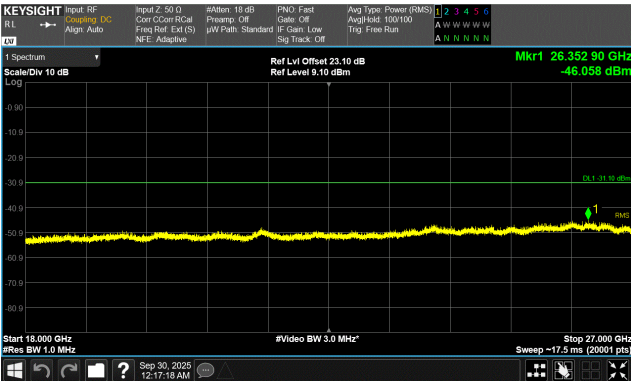
Port 1
15 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



Port 1
15 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



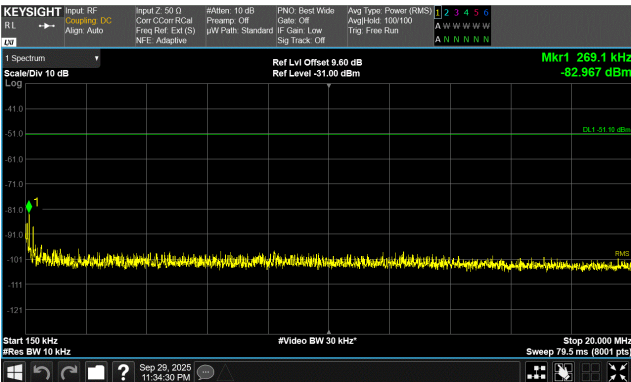
Port 1
15 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



Port 1
15 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

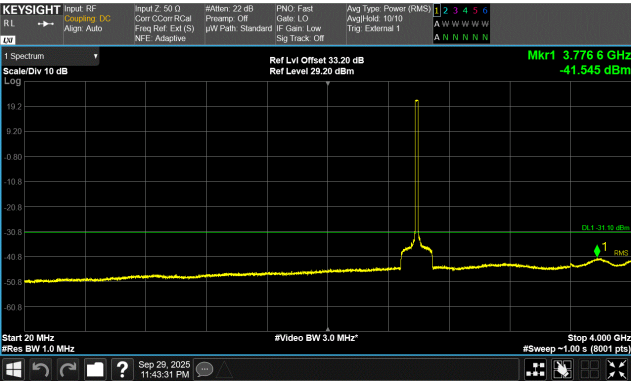


Port 1
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

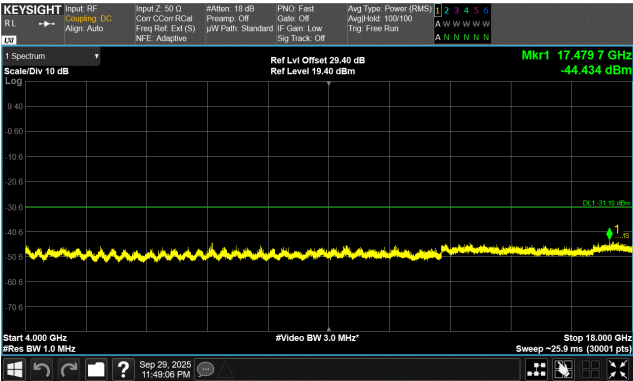


Port 1
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

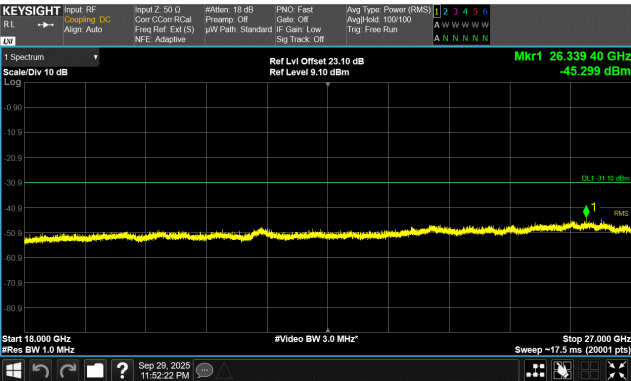
SPURIOUS CONDUCTED EMISSIONS



Port 1
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



Port 1
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz



Port 1
20 MHz Channel Bandwidth
QPSK Modulation
Middle Channel, 2593.00 MHz

SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

RF conducted emissions testing was performed on only one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section of this report). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

All Measurements were synchronized with the measurement receiver - gated with external trigger input frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

The transmitter unwanted spurious emissions at the antenna port were measured at the RF port of the EUT through four different attenuation configurations to the spectrum analyzer. Spectrum Analyzer plots utilizing a resolution bandwidth defined by ANSI C63.2 were made from 9 kHz up to the 10th harmonic of the highest fundamental frequency. As such, the upper level of measurement is approximately 27 GHz (2685*10).

Per section 27.53(m)(2), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -31.1 dBm [-13 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the EUT may operate as a 64 port MIMO transmitter).

The limit for the 9kHz to 150kHz frequency range was adjusted to -61.1dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -61.1dBm = -31.1dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -51.1dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -51.1dBm = -31.1dBm -10log(1MHz/10kHz)]. The required limit of -31.1dBm with a RBW of ≥ 1 MHz was used for all other frequency ranges.

4G LTE Multicarrier test cases have been developed as shown below:

- a) 4G LTE Multicarrier test case A: Two contiguous LTE10 carriers with minimum spacing between carrier frequencies at the lower band edge (2501MHz, 2511MHz) (EARFCN: 39700, 39800). The smallest channel bandwidth is selected to maximize carrier power spectral density. The carriers operate at maximum power (80W/carrier or TRX power is 31dbm/carrier) with a total radio power of 160 watts.
- b) 4G LTE Multicarrier test case B: Two contiguous LTE10 carriers with minimum spacing between carrier frequencies at the upper band edge (2675MHz, 2685MHz) (EARFCN: 41440, 41540). The smallest channel bandwidth is selected to maximize carrier power spectral density. The carriers operate at maximum power (80W/carrier or TRX power is 31dbm/carrier) with a total radio power of 160 watts.
- c) 4G LTE Multicarrier test case C: Two non-contiguous LTE10 Carriers (maximum spacing between carriers) with one carrier at the lower band edge (2501MHz/EARFCN: 39700) and one carrier at the upper band edge (2685MHz/EARFCN: 41540). The carriers operate at maximum power (80W/carrier or TRX power is 31dbm/carrier) with a total radio power of 160 watts.

SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER

- d) 4G LTE Multicarrier test case D: Two Non-contiguous carriers (maximum spacing between carriers) with one LTE20 Carrier at the lower band edge (2506MHz/EARFCN: 39750) and one LTE20 Carrier at the upper band edge (2680MHz/EARFCN: 41490). The carriers operate at maximum power (125W/carrier or TRX power is 32.9dbm/carrier) with a total radio power of 250 watts.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L1252603387	Date:	2025-09-29
Customer:	Nokia Solutions and Networks	Temperature:	27.9°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	32.2%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0088-1 NOKI0088-2 NOKI0088-3 NOKI0088-4

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

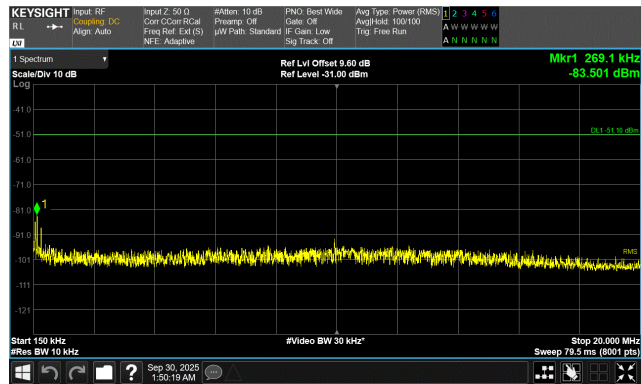
TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 1					
QPSK Modulation					
Test Case A					
	9 kHz - 150 kHz	0.13	-73.22	-61.1	Pass
	150 kHz - 20 MHz	0.27	-83.5	-51.1	Pass
	20 MHz - 4 GHz	3793.04	-41.58	-31.1	Pass
	4 GHz - 18 GHz	8315.73	-44.8	-31.1	Pass
	18 GHz - 27 GHz	26375.85	-44.85	-31.1	Pass
Test Case B					
	9 kHz - 150 kHz	0.13	-72.87	-61.1	Pass
	150 kHz - 20 MHz	0.27	-83.31	-51.1	Pass
	20 MHz - 4 GHz	3783.09	-41.48	-31.1	Pass
	4 GHz - 18 GHz	13705.27	-45.24	-31.1	Pass
	18 GHz - 27 GHz	26154	-46.78	-31.1	Pass
Test Case C					
	9 kHz - 150 kHz	0.13	-73.13	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.83	-51.1	Pass
	20 MHz - 4 GHz	3787.07	-41.95	-31.1	Pass
	4 GHz - 18 GHz	17728.4	-45.39	-31.1	Pass
	18 GHz - 27 GHz	26108.1	-46.23	-31.1	Pass
Test Case D					
	9 kHz - 150 kHz	0.13	-72.84	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.92	-51.1	Pass
	20 MHz - 4 GHz	3806.97	-42.04	-31.1	Pass
	4 GHz - 18 GHz	17686.4	-44.99	-31.1	Pass
	18 GHz - 27 GHz	26113.95	-45.67	-31.1	Pass

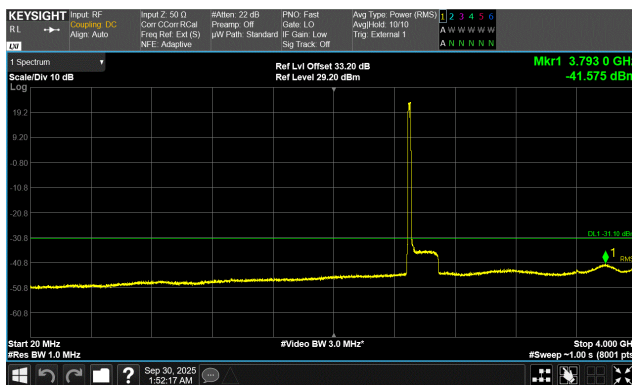
SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



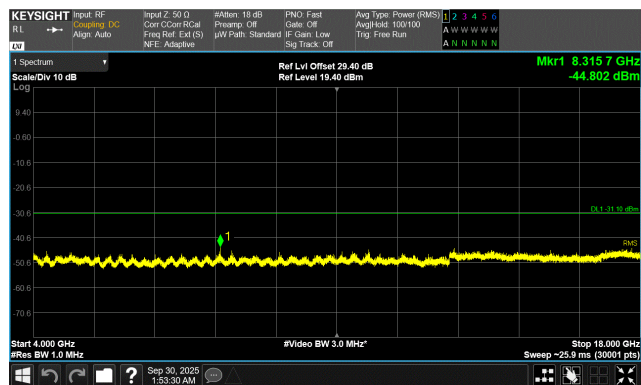
Port 1
QPSK Modulation
Test Case A



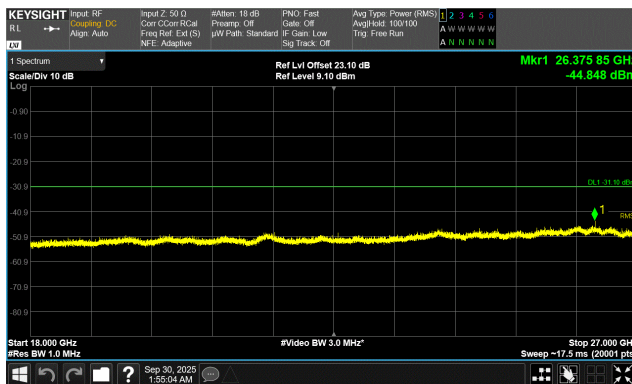
Port 1
QPSK Modulation
Test Case A



Port 1
QPSK Modulation
Test Case A



Port 1
QPSK Modulation
Test Case A

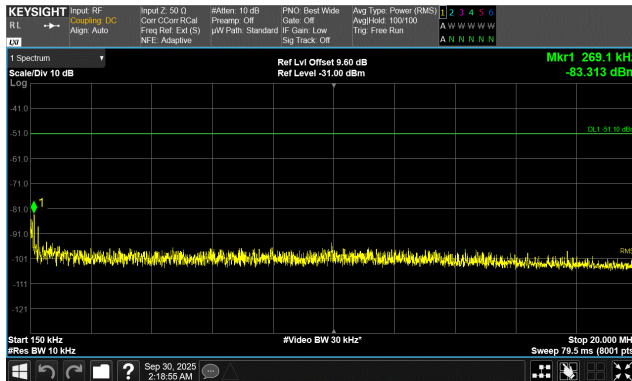


Port 1
QPSK Modulation
Test Case A

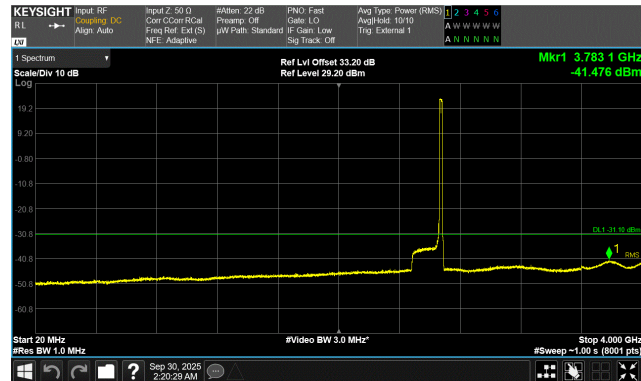


Port 1
QPSK Modulation
Test Case B

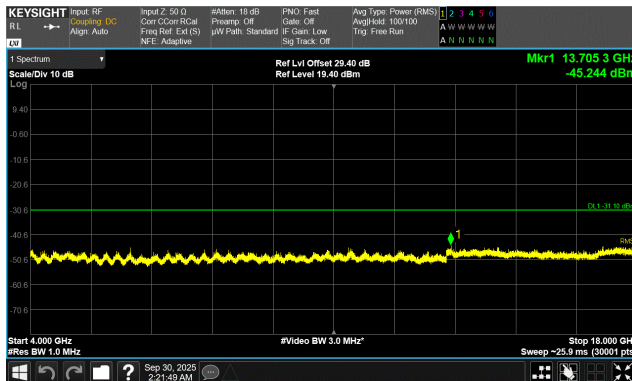
SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



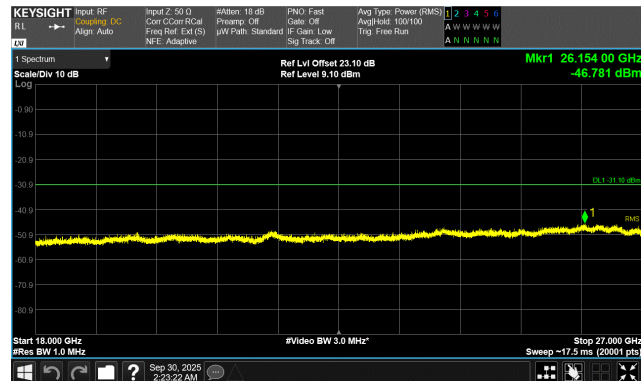
Port 1
QPSK Modulation
Test Case B



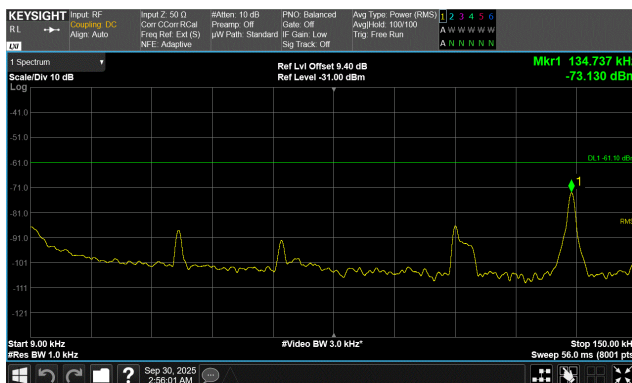
Port 1
QPSK Modulation
Test Case B



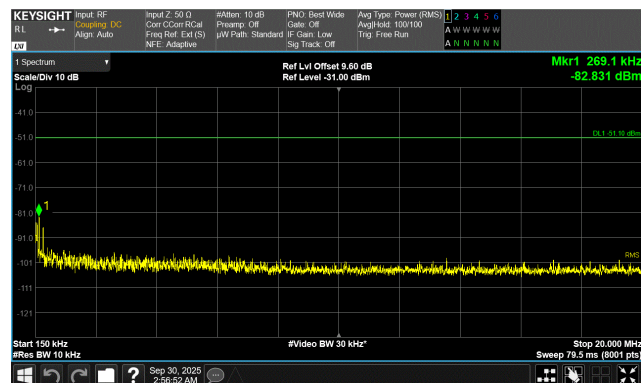
Port 1
QPSK Modulation
Test Case B



Port 1
QPSK Modulation
Test Case B

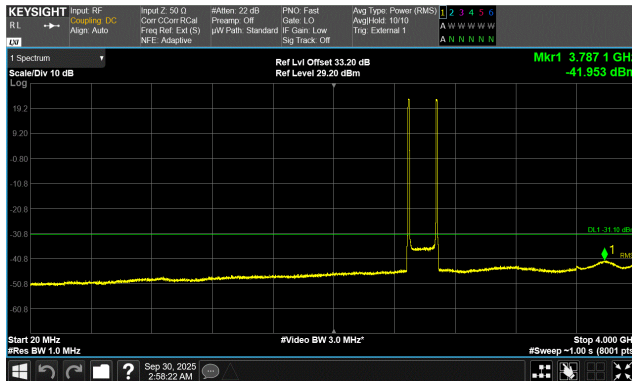


Port 1
QPSK Modulation
Test Case C

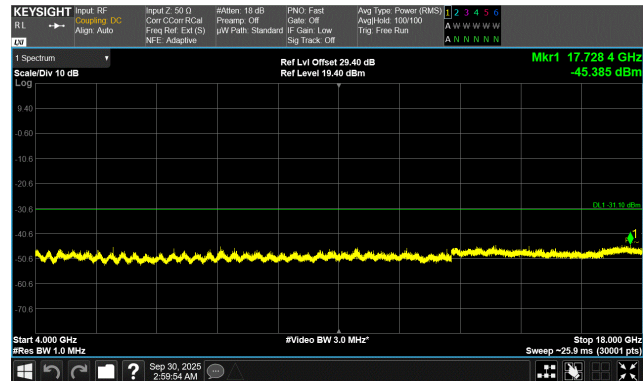


Port 1
QPSK Modulation
Test Case C

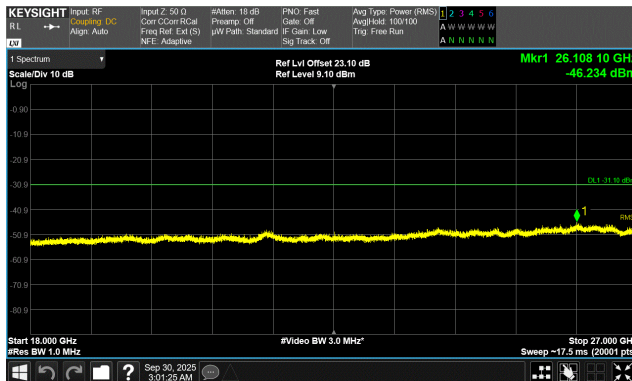
SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



Port 1
QPSK Modulation
Test Case C



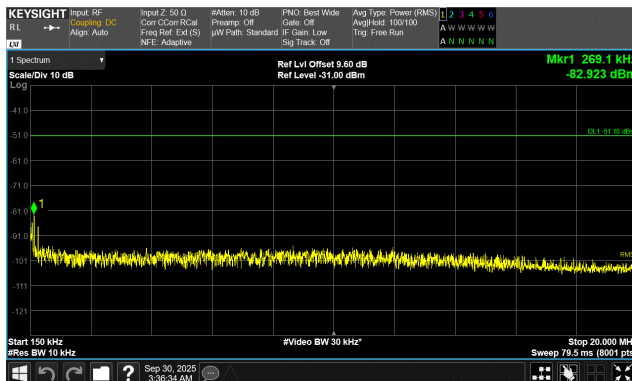
Port 1
QPSK Modulation
Test Case C



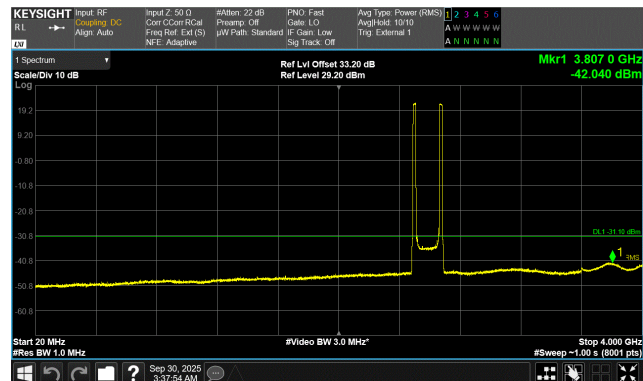
Port 1
QPSK Modulation
Test Case C



Port 1
QPSK Modulation
Test Case D

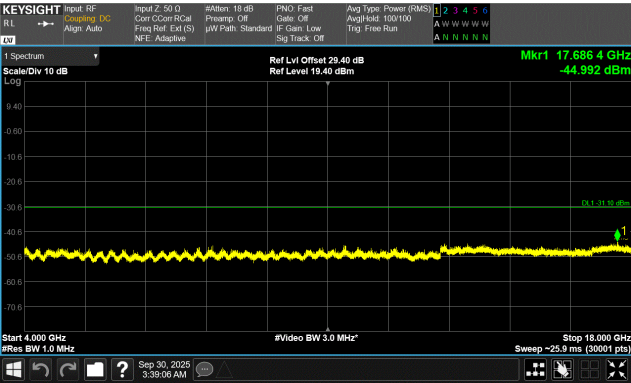


Port 1
QPSK Modulation
Test Case D

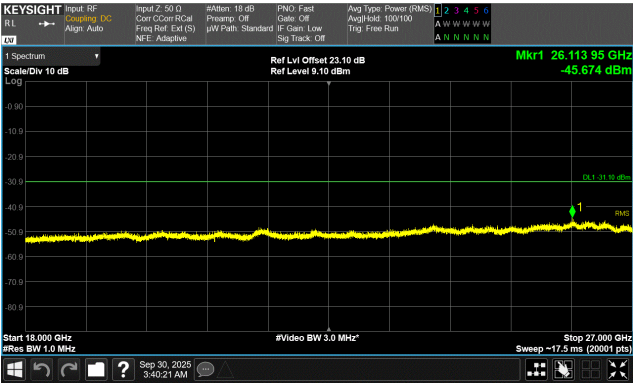


Port 1
QPSK Modulation
Test Case D

SPURIOUS CONDUCTED EMISSIONS - LTE MULTICARRIER



Port 1
QPSK Modulation
Test Case D



Port 1
QPSK Modulation
Test Case D

SPURIOUS CONDUCTED EMISSIONS - MULTI-RAT



TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

RF conducted emissions testing was performed on only one port. The AVHA antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the "Output Power - All Ports" report section of this report). Antenna port 1 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i, and 6.4.

All Measurements were synchronized with the measurement receiver - gated with external trigger input frame clock (100Hz) provided by the system module. Duty cycle correction is not needed for this testing since the transmit "on" time is synchronized with the measurement receiver.

The transmitter unwanted spurious emissions at the antenna port were measured at the RF port of the EUT through four different attenuation configurations to the spectrum analyzer. Spectrum Analyzer plots utilizing a resolution bandwidth defined by ANSI C63.2 were made from 9 kHz up to the 10th harmonic of the highest fundamental frequency. As such, the upper level of measurement is approximately 27 GHz (2685*10).

Per section 27.53(m)(2), the power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -31.1 dBm [-13 dBm -10 log (64)] per FCC KDB 662911D01 v02r01 and ANSI C63.26-2015 section 6.4 because the EUT may operate as a 64 port MIMO transmitter).

The limit for the 9kHz to 150kHz frequency range was adjusted to -61.1dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.: -61.1dBm = -31.1dBm -10log(1MHz/1kHz)]. The limit for the 150kHz to 20MHz frequency range was adjusted to -51.1dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.: -51.1dBm = -31.1dBm -10log(1MHz/10kHz)]. The required limit of -31.1dBm with a RBW of ≥ 1 MHz was used for all other frequency ranges.

Multi-RAT (4G LTE/5G NR) Concurrent Operation test cases have been developed as shown below:

- a) Multi-RAT Operation Test Case A: Two contiguous LTE20 carriers at the lower band edge (2506MHz, 2526MHz/EARFCN: 39750, 39950) with two contiguous NR50 carriers at minimum spacing from LTE carriers (2561.01MHz/NR-ARFCN: 512202 and 2611.02MHz/NR-ARFCN: 522204). The LTE20 carriers operate at 50W/carrier (PSD = 2.5W/MHz or 28.9dbm/carrier). The NR50 carriers operate at 150W/carrier (PSD = 3W/MHz or 33.7dbm/carrier). Total radio power is 400W.
- b) Multi-RAT Operation Test Case B: Two contiguous LTE20 carriers at the upper band edge (2660MHz, 2680MHz/EARFCN: 41290, 41490) with two contiguous NR50 carriers at minimum spacing from LTE carriers (2625MHz/NR-ARFCN: 525000 and 2574.99MHz/NR-ARFCN: 514998). The LTE20 carriers operate at 50W/carrier (PSD = 2.5W/MHz or 28.9dbm/carrier). The NR50 carriers operate at 150W/carrier (PSD = 3W/MHz or 33.7dbm/carrier). Total radio power is 400W.
- c) Multi-RAT Operation Test Case C: Two contiguous NR50 carriers at the lower band edge (2521.02MHz/NR-ARFCN: 504204 and 2571MHz/NR-ARFCN: 514200) and two contiguous LTE20 carriers at minimum spacing from NR carriers (2606MHz and 2626MHz/EARFCN: 40750 and 40950). The LTE20 carriers operate at 50W/carrier (PSD = 2.5W/MHz or 28.9dbm/carrier). The NR50 carriers operate at 150W/carrier (PSD = 3W/MHz or 33.7dbm/carrier). Total radio power is 400W.

SPURIOUS CONDUCTED EMISSIONS - MULTI-RAT

- d) Multi-RAT Operation Test Case D: Two contiguous NR50 carriers at the upper band edge (2664.99MHz/NR-ARFCN: 532998 and 2614.98MHz/NR-ARFCN: 522996) and two contiguous LTE20 carriers at minimum spacing from NR carriers (2580MHz and 2560MHz/EARFCN: 40490 and 40290). The LTE20 carriers operate at 50W/carrier (PSD = 2.5W/MHz or 28.9dbm/carrier). The NR50 carriers operate at 150W/carrier (PSD = 3W/MHz or 33.7dbm/carrier). Total radio power is 400W.
- e) Multi-RAT Operation Test Case E: Two contiguous LTE10 carriers at the lower band edge (2501MHz, 2511MHz/EARFCN: 39700, 39800) and two contiguous NR10 at the upper band edge (2685MHz, 2675.01MHz/NR-ARFCN: 537000, 535002). All carriers operate at the same power level 50W/carrier (PSD = 5W/MHz or 28.9dbm/carrier). Total radio power is 200W.
- f) Multi-RAT Operation Test Case F: Two contiguous LTE10 carriers at the upper band edge (2685MHz, 2675MHz/EARFCN: 41540, 41440) and two contiguous NR10 at the lower band edge (2501.01MHz, 2511MHz/NR-ARFCN: 500202, 502200). All carriers operate at the same power level 50W/carrier (PSD = 5W/MHz or 28.9dbm/carrier). Total radio power is 200W.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Block - DC	Centric RF	C0140	ANJ	NCR	NCR
Generator - Signal	Agilent	N5173B	TIW	2023-08-07	2026-08-07

Note: The RF Test Setup/ Network (RF cables/Attenuators/filter/etc.) is defined in the configurations section for each test. The RF Test Setup/Network is calibrated using the signal generator and spectrum analyzer prior to test. The RF insertion loss of the RF Test Setup/Network is accounted for by the spectrum analyzer's reference level offset during the RF conducted testing.

SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L1252603387	Date:	2025-09-30
Customer:	Nokia Solutions and Networks	Temperature:	27.5°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	32.7%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Jarrold Brenden	Job Site:	PT14
Power:	54VDC	Configuration:	NOKI0088-1 NOKI0088-2 NOKI0088-3 NOKI0088-4

COMMENTS

All losses in the measurement path were accounted for in the reference level offset; attenuators, filters, cables, and DC blocks. Carriers were enabled at maximum power levels.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

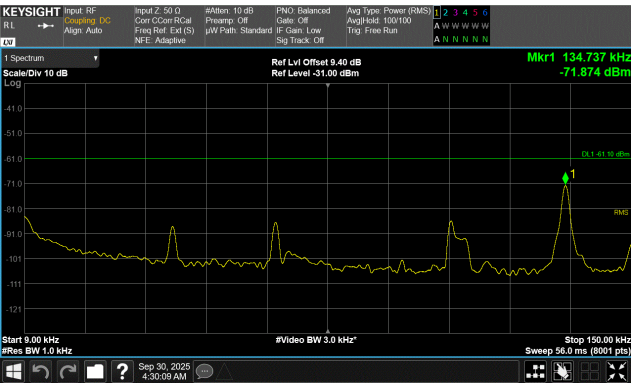
TEST RESULTS

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Port 1					
QPSK Modulation					
Test Case A					
	9 kHz - 150 kHz	0.13	-71.87	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.74	-51.1	Pass
	20 MHz - 4 GHz	3784.09	-42.03	-31.1	Pass
	4 GHz - 18 GHz	13700.13	-44.64	-31.1	Pass
	18 GHz - 27 GHz	26121.15	-45.52	-31.1	Pass
Test Case B					
	9 kHz - 150 kHz	0.13	-71.61	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.99	-51.1	Pass
	20 MHz - 4 GHz	3765.68	-41.84	-31.1	Pass
	4 GHz - 18 GHz	17634.6	-44.76	-31.1	Pass
	18 GHz - 27 GHz	26116.65	-46.55	-31.1	Pass
Test Case C					
	9 kHz - 150 kHz	0.13	-71.36	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.27	-51.1	Pass
	20 MHz - 4 GHz	3786.57	-41.38	-31.1	Pass
	4 GHz - 18 GHz	17621.53	-43.72	-31.1	Pass
	18 GHz - 27 GHz	26366.4	-45.5	-31.1	Pass
Test Case D					
	9 kHz - 150 kHz	0.13	-72.16	-61.1	Pass
	150 kHz - 20 MHz	0.27	-82.72	-51.1	Pass
	20 MHz - 4 GHz	3799.51	-41.35	-31.1	Pass
	4 GHz - 18 GHz	11371	-44.5	-31.1	Pass
	18 GHz - 27 GHz	26358.75	-44.83	-31.1	Pass

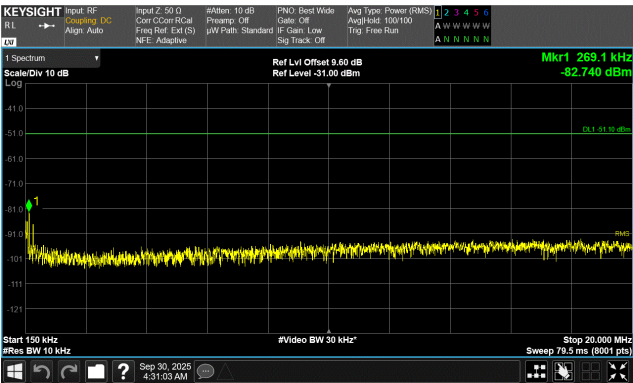
SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT

	Frequency Range	Measured Freq (MHz)	Max Value (dBm)	Limit < (dBm)	Result
Test Case E					
	9 kHz - 150 kHz	0.13	-72.72	-61.1	Pass
	150 kHz - 20 MHz	0.27	-83.26	-51.1	Pass
	20 MHz - 4 GHz	3797.52	-41.36	-31.1	Pass
	4 GHz - 18 GHz	14188.27	-42.78	-31.1	Pass
	18 GHz - 27 GHz	26084.25	-45.63	-31.1	Pass
Test Case F					
	9 kHz - 150 kHz	0.13	-72.87	-61.1	Pass
	150 kHz - 20 MHz	0.27	-83.13	-51.1	Pass
	20 MHz - 4 GHz	3791.05	-41.71	-31.1	Pass
	4 GHz - 18 GHz	17615.93	-44.75	-31.1	Pass
	18 GHz - 27 GHz	26099.1	-46.08	-31.1	Pass

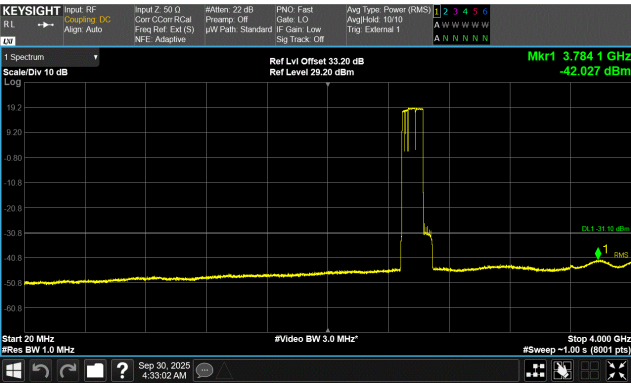
SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



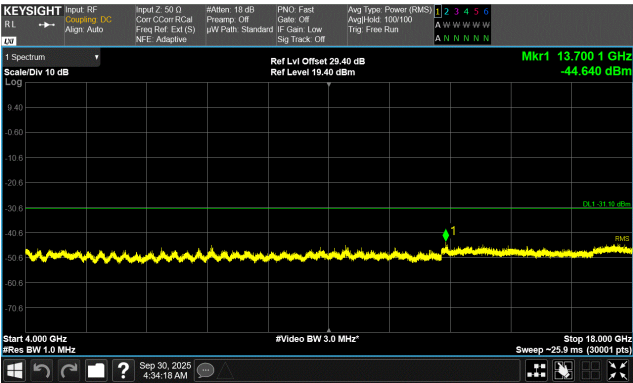
Port 1
QPSK Modulation
Test Case A



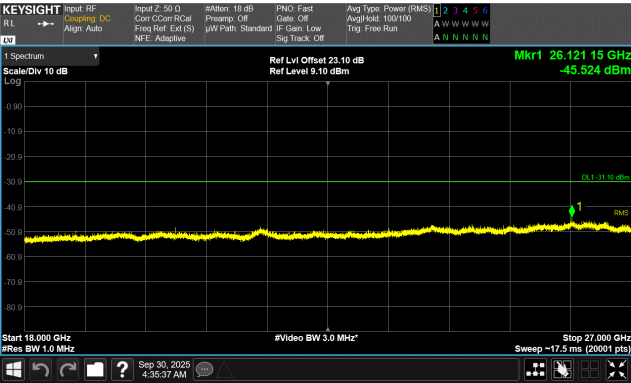
Port 1
QPSK Modulation
Test Case A



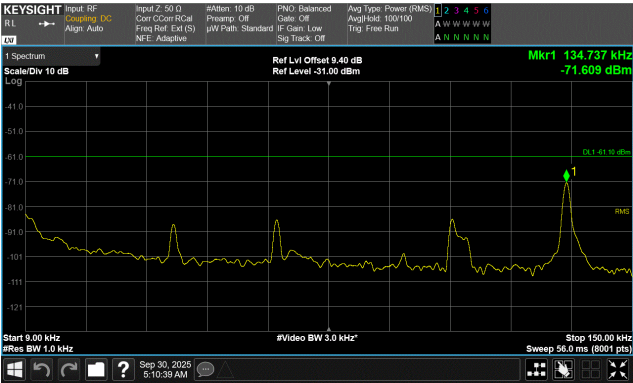
Port 1
QPSK Modulation
Test Case A



Port 1
QPSK Modulation
Test Case A

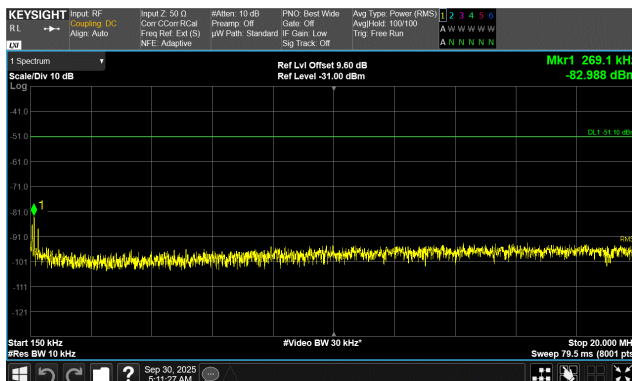


Port 1
QPSK Modulation
Test Case A

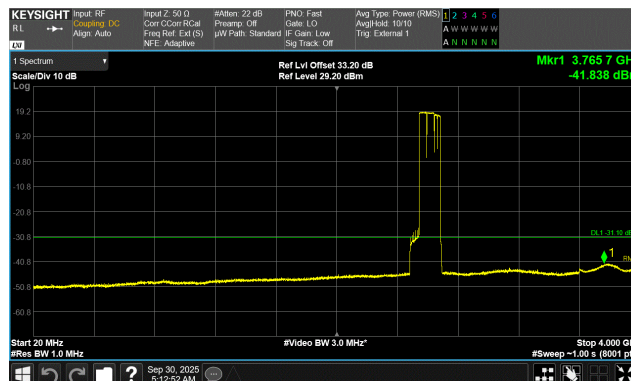


Port 1
QPSK Modulation
Test Case B

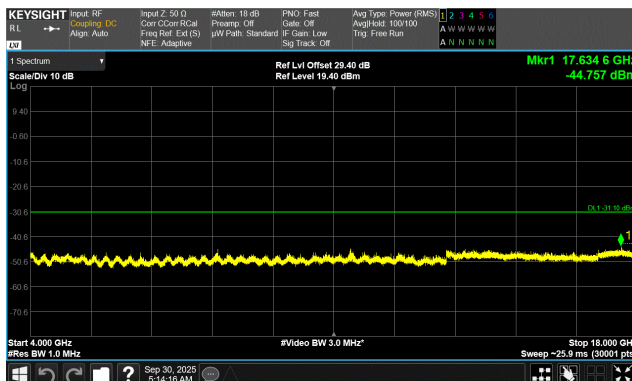
SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



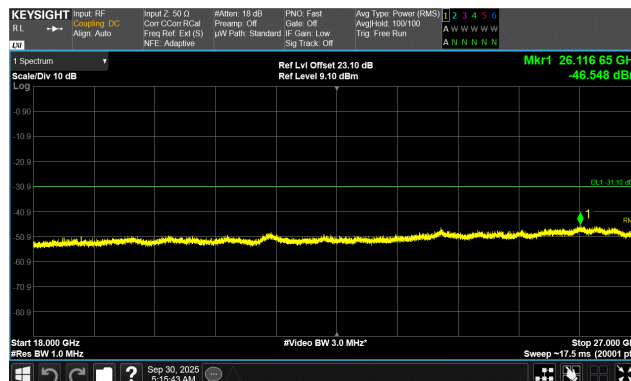
Port 1
QPSK Modulation
Test Case B



Port 1
QPSK Modulation
Test Case B



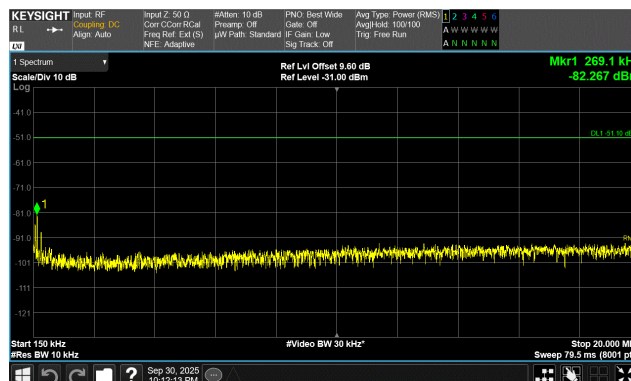
Port 1
QPSK Modulation
Test Case B



Port 1
QPSK Modulation
Test Case B

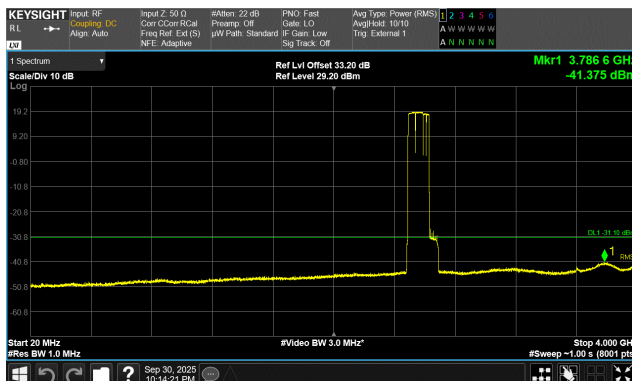


Port 1
QPSK Modulation
Test Case C

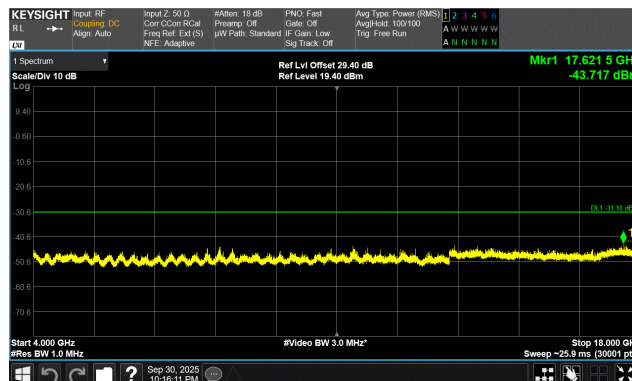


Port 1
QPSK Modulation
Test Case C

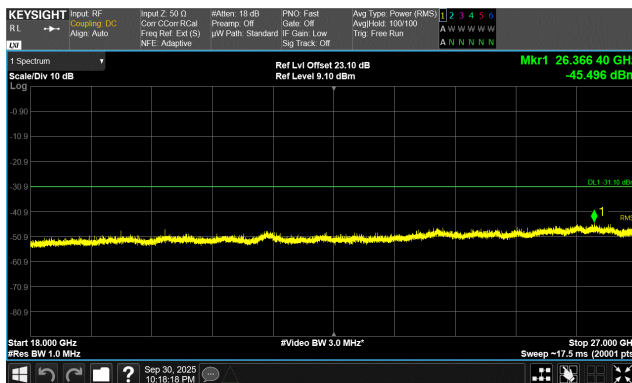
SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



Port 1
QPSK Modulation
Test Case C



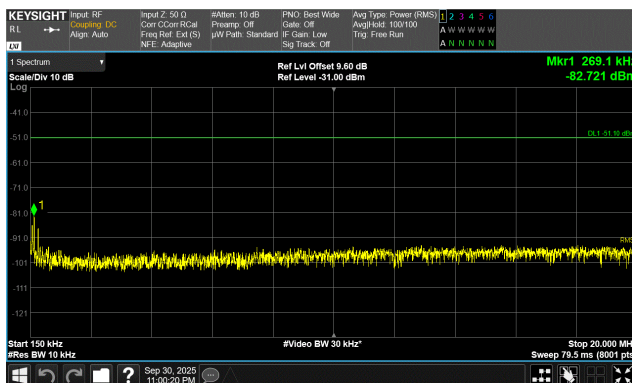
Port 1
QPSK Modulation
Test Case C



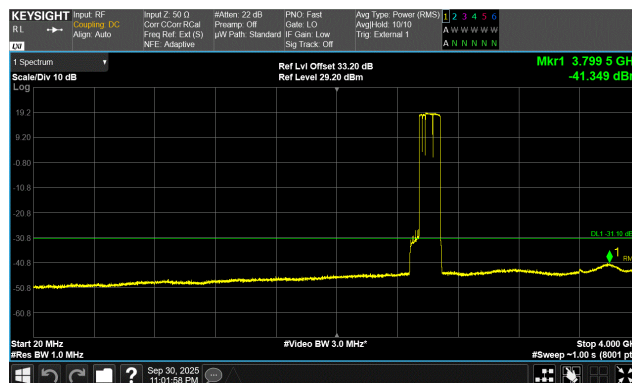
Port 1
QPSK Modulation
Test Case C



Port 1
QPSK Modulation
Test Case D

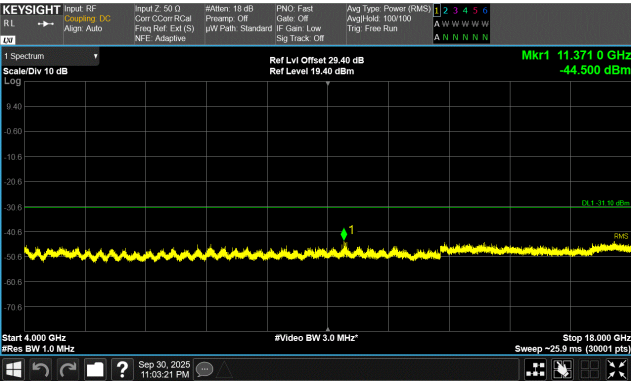


Port 1
QPSK Modulation
Test Case D

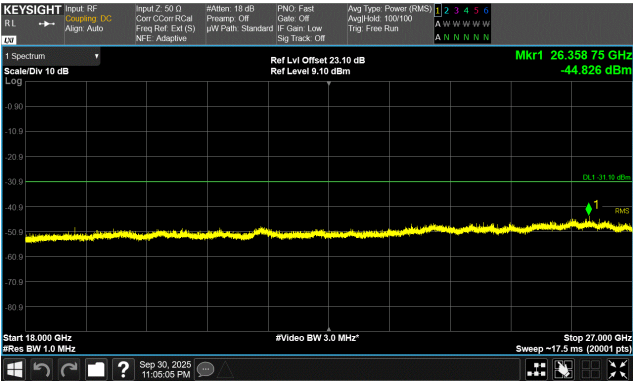


Port 1
QPSK Modulation
Test Case D

SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



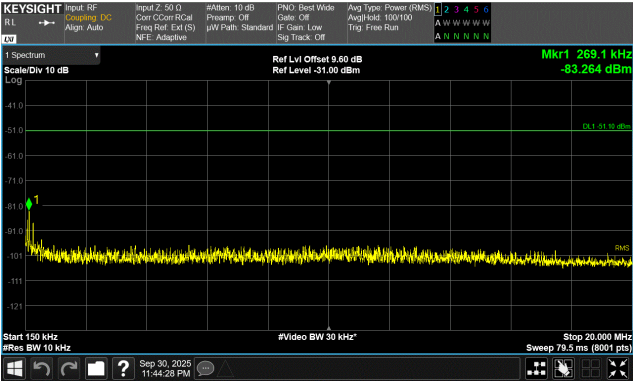
Port 1
QPSK Modulation
Test Case D



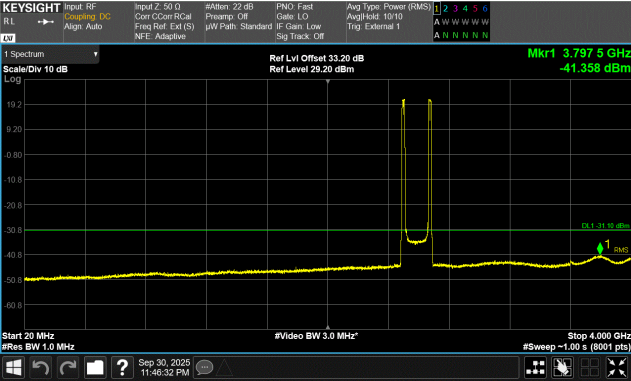
Port 1
QPSK Modulation
Test Case D



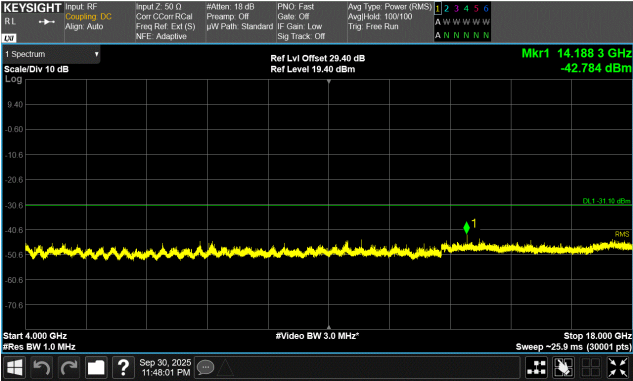
Port 1
QPSK Modulation
Test Case E



Port 1
QPSK Modulation
Test Case E

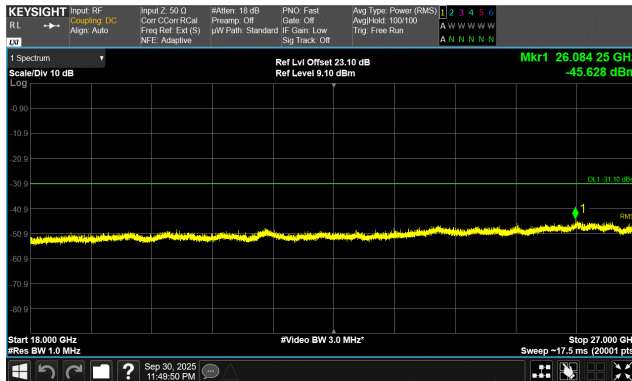


Port 1
QPSK Modulation
Test Case E

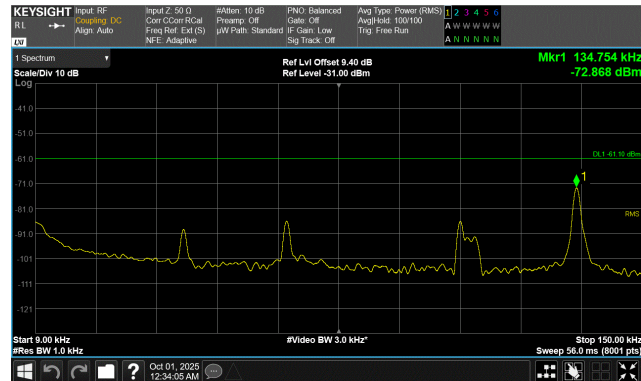


Port 1
QPSK Modulation
Test Case E

SPURIOUS CONDUCTED EMISSIONS - MULIT-RAT



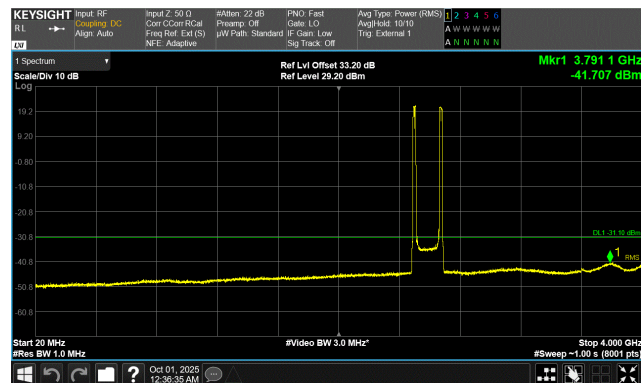
Port 1
QPSK Modulation
Test Case E



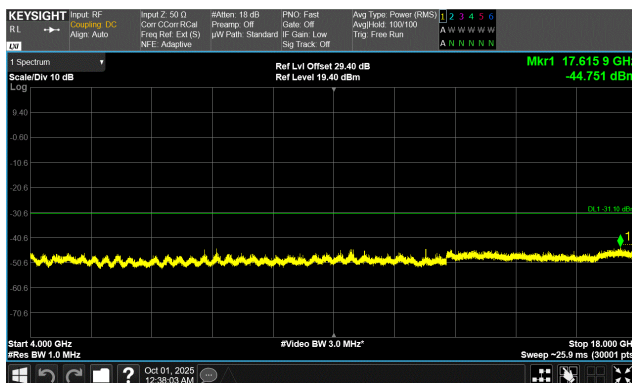
Port 1
QPSK Modulation
Test Case F



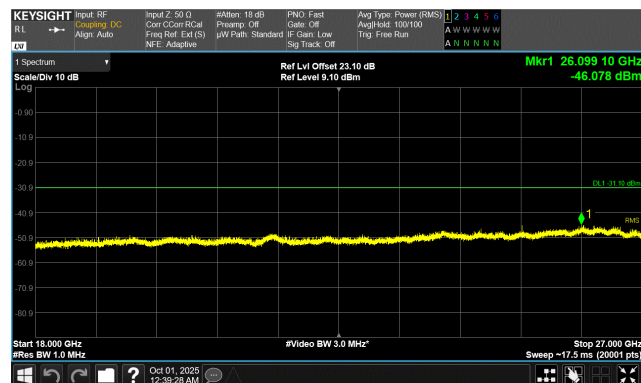
Port 1
QPSK Modulation
Test Case F



Port 1
QPSK Modulation
Test Case F



Port 1
QPSK Modulation
Test Case F



Port 1
QPSK Modulation
Test Case F

SPURIOUS RADIATED EMISSIONS

TEST DESCRIPTION

The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. A reference preview scan (pre-scan) is included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out-of-band emissions.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only. In the range of 1 GHz to 8.2 GHz, 10 dB of external attenuation was applied to the RF path to prevent saturation of the preamp and damage to the spectrum analyzer due to carrier power. Impact to noise floor measurements increased by 10 dB in that range.

The test setups and measurement methods are detailed in KDB971168 D01v03 sections 6 & 7 and ANSI C63.26-2015. Per FCC 2.1057(a)(1), the upper level of measurement is the 10th harmonic of the highest fundamental frequency. As such, the upper level of the measurement is approximately 27 GHz (2685 MHz * 10) for the AVHA n41 Band. The radiated emissions limits are defined in FCC 27.53(m)(2). The radiated emissions limits are shown in Table 2 with all antenna ports enabled. The limit is not required to be reduced by 10Log (# antennas) because all antenna ports are enabled for this test and terminated into 50 ohms loads.

SPURIOUS RADIATED EMISSIONS

RADIATED EMISSIONS TEST CASES

Test Configuration	Channel Bandwidth	Transmit Freq	Carrier PSD	Carrier Power per	
				Port	Radio
1	LTE20	2506MHz	2.5 W/MHz	0.78W	400W
	LTE20	2526MHz	2.5 W/MHz	0.78W	
	NR50	2561.01MHz	3.0W/MHz	2.34W	
	NR50	2611.02MHz	3.0W/MHz	2.34W	
2	LTE20	2680MHz	2.5 W/MHz	0.78W	400W
	LTE20	2660MHz	2.5 W/MHz	0.78W	
	NR50	2625MHz	3.0W/MHz	2.34W	
	NR50	2574.99MHz	3.0W/MHz	2.34W	
3	NR50	2521.02MHz	3.0W/MHz	2.34W	400W
	NR50	2571MHz	3.0W/MHz	2.34W	
	LTE20	2606MHz	2.5 W/MHz	0.78W	
	LTE20	2626MHz	2.5 W/MHz	0.78W	
4	NR50	2664.99MHz	3.0W/MHz	2.34W	400W
	NR50	2614.98MHz	3.0W/MHz	2.34W	
	LTE20	2580MHz	2.5 W/MHz	0.78W	
	LTE20	2560MHz	2.5 W/MHz	0.78W	
5	LTE10	2501MHz	5 W/MHz	0.78W	200W
	LTE10	2511MHz	5 W/MHz	0.78W	
	NR10	2685MHz	5 W/MHz	0.78W	
	NR10	2675.01MHz	5 W/MHz	0.78W	
6	LTE10	2685MHz	5 W/MHz	0.78W	200W
	LTE10	2675MHz	5 W/MHz	0.78W	
	NR10	2501.01MHz	5 W/MHz	0.78W	
	NR10	2511MHz	5 W/MHz	0.78W	

SPURIOUS RADIATED EMISSIONS

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Antenna - Double Ridge	ETS Lindgren	3115	AJN	2024-09-27	2026-09-27
Cable	Element	None	TXM	2025-07-08	2026-07-08
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	2025-02-12	2026-02-12
Attenuator	Weinschel Corp	4H-10	AWA	2025-02-12	2026-02-12
Antenna - Standard Gain	ETS Lindgren	3160-07	AJF	2025-01-06	2026-01-06
Cable	Element	None	TXO	2025-07-08	2026-07-08
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	2025-08-29	2026-08-29
Antenna - Standard Gain	ETS Lindgren	3160-08	AJG	2025-01-06	2026-01-06
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	2025-08-29	2026-08-29
Antenna - Double Ridge	A.H. Systems, Inc.	SAS-574	AXW	2024-09-17	2026-09-17
Cable	Northwest EMC	18-40GHz	TXE	2025-08-29	2026-08-29
Amplifier - Pre-Amplifier	Miteq	JSDWK42-18004000-60-5P	PAM	2025-08-29	2026-08-29
Antenna - Biconilog	ETS Lindgren	3143B	AYF	2025-06-16	2027-06-16
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAS	2025-02-12	2026-02-12
Filter - Low Pass	Micro-Tronics	LPM50004	HHV	2025-07-23	2026-07-23
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2025-04-14	2026-04-14

FREQUENCY RANGE INVESTIGATED

30 MHz TO 40 GHz

POWER INVESTIGATED

54VDC

CONFIGURATIONS INVESTIGATED

NOKI0088-5

MODES INVESTIGATED

Test Case 1; 2506.00 MHz (LTE20, QPSK), 2526.00 MHz (LTE20, PQSK), 2561.01 MHz (NR50, QPSK), 2611.02 MHz (NR50, QPSK)
Test Case 2; 2680.00 MHz (LTE20, QPSK), 2660.00 MHz (LTE20, QPSK), 2625.00 MHz (NR50, QPSK), 2574.99 MHz (NR50, QPSK)
Test Case 3; 2606.00 MHz (LTE20, QPSK), 2626.00 MHz (LTE20, QPSK), 2521.02 MHz (NR50, QPSK), 2571.00 MHz (NR50, QPSK)
Test Case 4; 2580.00 MHz (LTE20, QPSK), 2560.00 MHz (LTE20, QPSK), 2664.99 MHz (NR50, QPSK), 2614.98 MHz (NR50, QPSK)
Test Case 5; 2501.00 MHz (LTE10, QPSK), 2511.00 MHz (LTE10, QPSK), 2685.00 MHz (NR10, QPSK), 2675.01 MHz (NR10, QPSK)
Test Case 6; 2685.00 MHz (LTE10, QPSK), 2675.00 MHz (LTE10, QPSK), 2501.01 MHz (NR10, QPSK), 2511.00 MHz (NR10, QPSK)

SPURIOUS RADIATED EMISSIONS



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-22
Customer:	Nokia Solutions and Networks	Temperature:	25.3°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	38.4%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	1	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

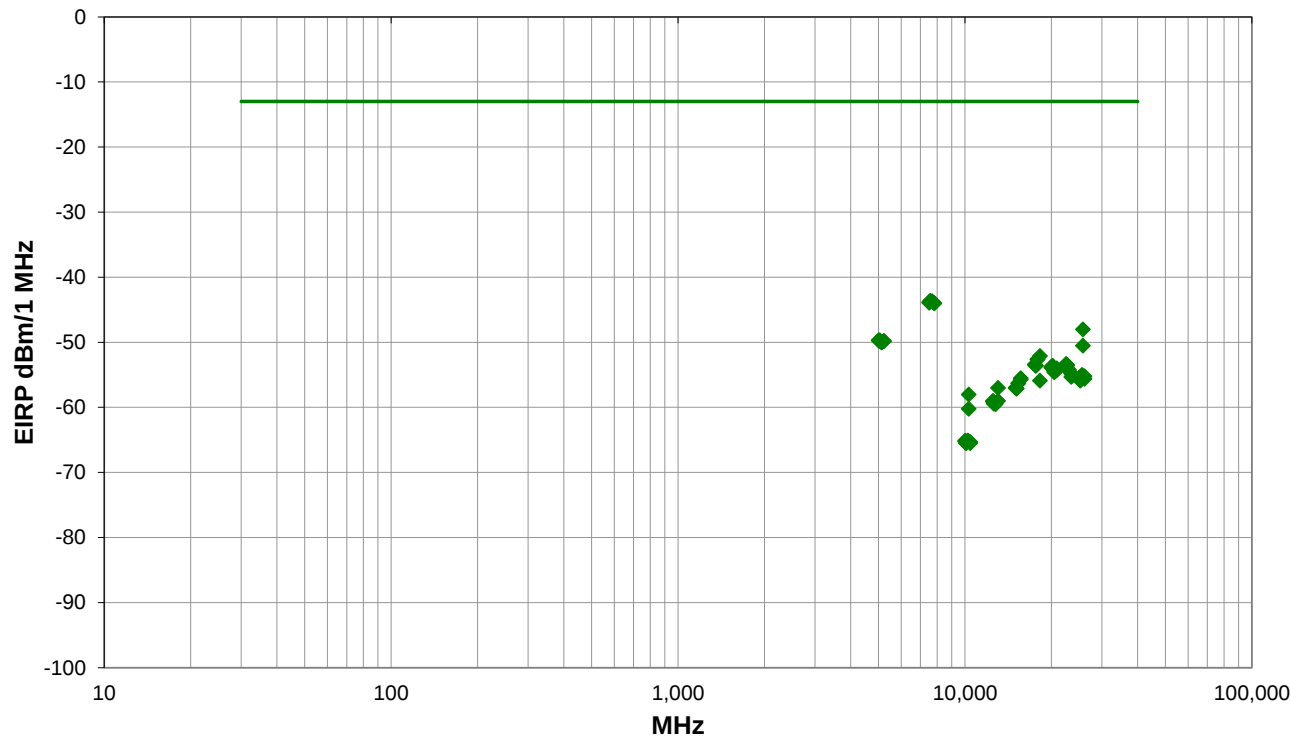
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 1; 2506.00 MHz (LTE20, QPSK), 2526.00 MHz (LTE20, PQSK), 2561.01 MHz (NR50, QPSK), 2611.02 MHz (NR50, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 1

PK AV QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #1

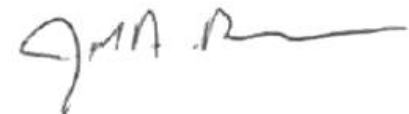
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7575.667	1.5	255.0	Horz	AV	43.4E-9	-43.6	-13.0	-30.6
7575.633	1.0	247.0	Vert	AV	42.4E-9	-43.7	-13.0	-30.7
7684.788	1.2	6.0	Horz	AV	42.4E-9	-43.7	-13.0	-30.7
7685.047	2.1	153.0	Vert	AV	42.4E-9	-43.7	-13.0	-30.7
7516.167	1.5	146.0	Horz	AV	41.4E-9	-43.8	-13.0	-30.8
7515.733	1.5	336.0	Vert	AV	40.5E-9	-43.9	-13.0	-30.9
7832.235	1.1	288.0	Horz	AV	39.5E-9	-44.0	-13.0	-31.0
7832.102	3.3	311.0	Vert	AV	39.5E-9	-44.0	-13.0	-31.0
25781.220	1.5	190.0	Horz	AV	15.7E-9	-48.0	-13.0	-35.0
5014.450	1.5	0.0	Horz	AV	10.6E-9	-49.7	-13.0	-36.7
5014.467	1.5	265.0	Vert	AV	10.6E-9	-49.7	-13.0	-36.7
5054.442	3.3	201.0	Horz	AV	10.6E-9	-49.7	-13.0	-36.7
5054.458	1.5	331.0	Vert	AV	10.4E-9	-49.8	-13.0	-36.8
5223.448	1.5	189.0	Horz	AV	10.4E-9	-49.8	-13.0	-36.8
5222.982	3.4	278.0	Vert	AV	10.4E-9	-49.8	-13.0	-36.8
5124.278	1.5	70.0	Horz	AV	9.9E-9	-50.0	-13.0	-37.0
5123.987	1.5	310.0	Vert	AV	9.9E-9	-50.0	-13.0	-37.0
25781.250	1.5	330.0	Vert	AV	8.9E-9	-50.5	-13.0	-37.5
18275.570	1.5	323.0	Horz	AV	6.1E-9	-52.1	-13.0	-39.1
17924.930	1.5	154.0	Horz	AV	5.5E-9	-52.6	-13.0	-39.6
17924.600	1.5	96.0	Vert	AV	5.5E-9	-52.6	-13.0	-39.6
22554.420	1.5	150.0	Horz	AV	4.6E-9	-53.3	-13.0	-40.3
17544.280	1.5	40.0	Horz	AV	4.5E-9	-53.4	-13.0	-40.4
17544.350	1.5	245.0	Vert	AV	4.5E-9	-53.4	-13.0	-40.4
22553.620	1.5	59.0	Vert	AV	4.5E-9	-53.4	-13.0	-40.4
22732.110	1.5	189.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
17684.220	1.5	301.0	Horz	AV	4.3E-9	-53.6	-13.0	-40.6
17682.640	1.5	5.0	Vert	AV	4.3E-9	-53.6	-13.0	-40.6
22733.740	1.5	14.0	Vert	AV	4.3E-9	-53.6	-13.0	-40.6
20207.630	1.5	316.0	Horz	AV	4.3E-9	-53.6	-13.0	-40.6
20209.160	1.5	347.0	Vert	AV	4.2E-9	-53.7	-13.0	-40.7
20046.380	1.5	249.0	Horz	AV	4.1E-9	-53.8	-13.0	-40.8
20046.530	1.5	198.0	Vert	AV	4.0E-9	-53.9	-13.0	-40.9
20887.840	1.5	95.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
23051.240	1.5	135.0	Horz	AV	3.8E-9	-54.2	-13.0	-41.2
23050.470	1.5	41.0	Vert	AV	3.7E-9	-54.3	-13.0	-41.3
20886.720	1.5	146.0	Vert	AV	3.7E-9	-54.3	-13.0	-41.3
20485.940	1.5	36.0	Horz	AV	3.6E-9	-54.4	-13.0	-41.4
20486.750	1.5	25.0	Vert	AV	3.4E-9	-54.6	-13.0	-41.6
23499.660	1.5	331.0	Horz	AV	3.3E-9	-54.8	-13.0	-41.8

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
25609.970	1.5	300.0	Horz	AV	3.1E-9	-55.0	-13.0	-42.0
25611.460	1.5	236.0	Vert	AV	3.1E-9	-55.1	-13.0	-42.1
26107.740	1.5	320.0	Horz	AV	3.0E-9	-55.2	-13.0	-42.2
23496.680	1.5	186.0	Vert	AV	2.9E-9	-55.3	-13.0	-42.3
15663.800	1.5	335.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
25057.950	1.5	161.0	Horz	AV	2.8E-9	-55.5	-13.0	-42.5
25057.760	1.5	138.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
26108.000	1.5	252.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
15663.670	1.5	2.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7
25257.580	1.5	258.0	Horz	AV	2.6E-9	-55.8	-13.0	-42.8
25257.660	1.5	42.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
18276.620	1.5	34.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
15363.940	1.3	275.0	Horz	AV	2.3E-9	-56.3	-13.0	-43.3
15363.600	1.5	32.0	Vert	AV	2.3E-9	-56.3	-13.0	-43.3
15033.690	1.5	246.0	Horz	AV	2.0E-9	-57.0	-13.0	-44.0
15035.030	1.0	178.0	Vert	AV	2.0E-9	-57.0	-13.0	-44.0
13053.390	1.5	360.0	Horz	AV	2.0E-9	-57.0	-13.0	-44.0
15153.580	1.5	166.0	Horz	AV	1.9E-9	-57.1	-13.0	-44.1
15153.540	1.5	142.0	Vert	AV	1.9E-9	-57.1	-13.0	-44.1
10312.410	1.5	188.0	Vert	AV	1.6E-9	-58.0	-13.0	-45.0
12530.330	1.5	137.0	Horz	AV	1.3E-9	-59.0	-13.0	-46.0
13057.530	3.0	26.0	Vert	AV	1.3E-9	-59.0	-13.0	-46.0
12529.970	1.5	215.0	Vert	AV	1.2E-9	-59.1	-13.0	-46.1
12806.230	1.5	302.0	Horz	AV	1.2E-9	-59.3	-13.0	-46.3
12627.580	3.8	177.0	Horz	AV	1.1E-9	-59.4	-13.0	-46.4
12627.550	1.5	26.0	Vert	AV	1.1E-9	-59.4	-13.0	-46.4
12807.290	1.5	289.0	Vert	AV	1.1E-9	-59.5	-13.0	-46.5
10312.380	1.0	36.0	Horz	AV	948.7E-12	-60.2	-13.0	-47.2
10021.510	2.0	318.0	Horz	AV	307.0E-12	-65.1	-13.0	-52.1
10241.690	3.0	44.0	Horz	AV	307.0E-12	-65.1	-13.0	-52.1
10241.560	1.2	246.0	Vert	AV	307.0E-12	-65.1	-13.0	-52.1
10021.780	1.5	129.0	Vert	AV	300.0E-12	-65.2	-13.0	-52.2
10441.660	1.5	12.0	Vert	AV	293.2E-12	-65.3	-13.0	-52.3
10106.380	1.5	286.0	Horz	AV	280.0E-12	-65.5	-13.0	-52.5
10106.400	1.5	22.0	Vert	AV	280.0E-12	-65.5	-13.0	-52.5
10441.610	1.5	47.0	Horz	AV	280.0E-12	-65.5	-13.0	-52.5

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-22
Customer:	Nokia Solutions and Networks	Temperature:	27.2°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	39.6%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	4	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

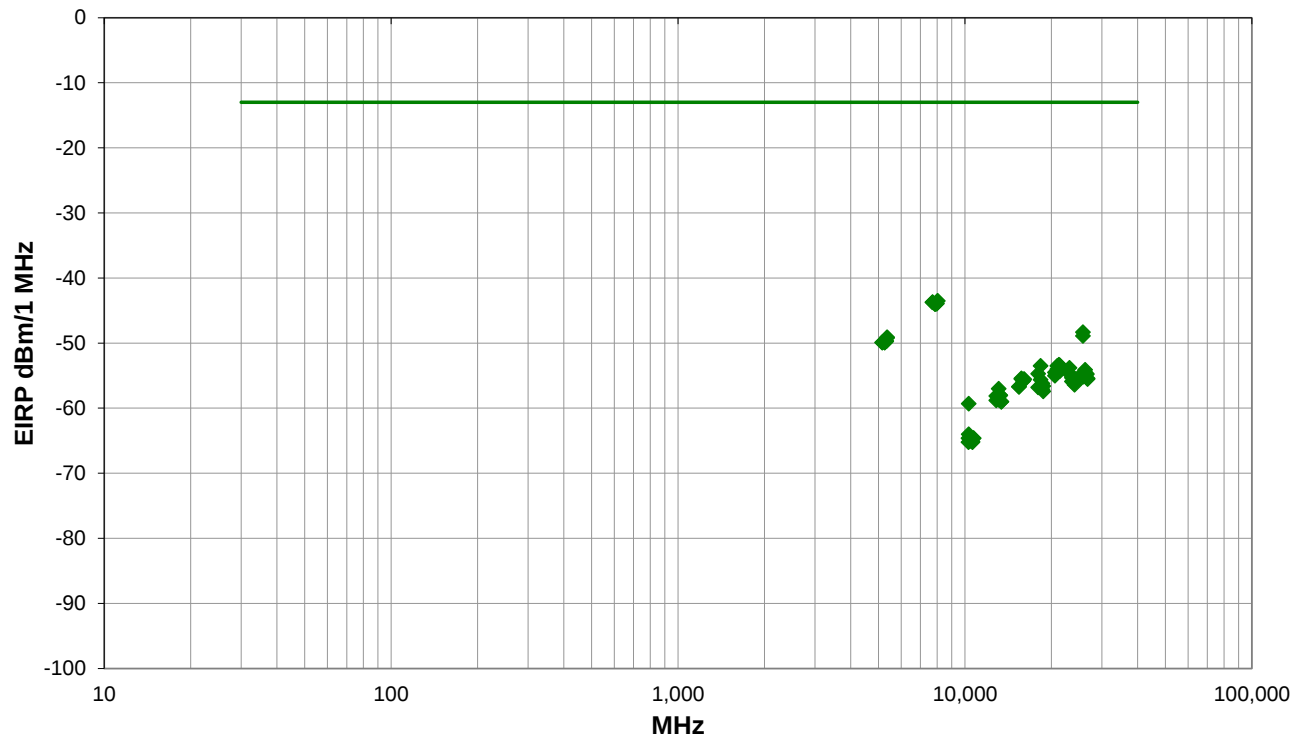
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 2; 2680.00 MHz (LTE20, QPSK), 2660.00 MHz (LTE20, QPSK), 2625.00 MHz (NR50, QPSK), 2574.99 MHz (NR50, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 4

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #4

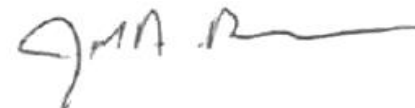
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
8039.692	3.6	222.0	Horz	AV	44.4E-9	-43.5	-13.0	-30.5
8039.867	1.5	55.0	Vert	AV	44.4E-9	-43.5	-13.0	-30.5
7722.862	1.5	20.0	Horz	AV	42.4E-9	-43.7	-13.0	-30.7
7722.478	2.4	63.0	Vert	AV	42.4E-9	-43.7	-13.0	-30.7
7981.633	1.5	360.0	Horz	AV	40.5E-9	-43.9	-13.0	-30.9
7980.883	1.5	189.0	Vert	AV	40.5E-9	-43.9	-13.0	-30.9
7875.850	1.6	148.0	Horz	AV	39.5E-9	-44.0	-13.0	-31.0
7875.342	1.5	59.0	Vert	AV	39.5E-9	-44.0	-13.0	-31.0
25781.210	1.5	190.0	Vert	AV	14.7E-9	-48.3	-13.0	-35.3
25781.190	1.5	193.0	Horz	AV	12.8E-9	-48.9	-13.0	-35.9
5357.667	1.3	182.0	Horz	AV	12.2E-9	-49.1	-13.0	-36.1
5358.175	1.5	127.0	Vert	AV	11.9E-9	-49.2	-13.0	-36.2
5319.908	1.7	135.0	Horz	AV	10.6E-9	-49.7	-13.0	-36.7
5320.325	2.5	264.0	Vert	AV	10.6E-9	-49.7	-13.0	-36.7
5251.558	1.5	184.0	Horz	AV	10.2E-9	-49.9	-13.0	-36.9
5251.683	1.5	124.0	Vert	AV	10.2E-9	-49.9	-13.0	-36.9
5151.938	1.5	30.0	Horz	AV	10.2E-9	-49.9	-13.0	-36.9
5151.597	3.1	342.0	Vert	AV	10.2E-9	-49.9	-13.0	-36.9
21279.140	1.5	201.0	Horz	AV	4.6E-9	-53.3	-13.0	-40.3
21438.030	1.5	234.0	Horz	AV	4.5E-9	-53.4	-13.0	-40.4
18374.040	1.5	319.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
20997.580	1.5	65.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
23175.890	1.5	57.0	Horz	AV	4.1E-9	-53.8	-13.0	-40.8
21002.200	1.5	241.0	Vert	AV	4.0E-9	-54.0	-13.0	-41.0
26252.480	1.5	184.0	Horz	AV	3.9E-9	-54.1	-13.0	-41.1
21279.310	1.5	93.0	Vert	AV	3.8E-9	-54.2	-13.0	-41.2
21437.620	1.5	27.0	Vert	AV	3.7E-9	-54.3	-13.0	-41.3
26252.430	1.5	299.0	Vert	AV	3.5E-9	-54.5	-13.0	-41.5
20597.530	1.5	284.0	Horz	AV	3.5E-9	-54.5	-13.0	-41.5
25751.670	1.5	305.0	Horz	AV	3.4E-9	-54.6	-13.0	-41.6
23176.050	1.5	291.0	Vert	AV	3.4E-9	-54.7	-13.0	-41.7
18023.400	1.5	331.0	Horz	AV	3.4E-9	-54.7	-13.0	-41.7
26597.790	1.5	113.0	Horz	AV	3.4E-9	-54.7	-13.0	-41.7
26598.200	1.5	290.0	Vert	AV	3.3E-9	-54.8	-13.0	-41.8
20597.620	1.5	337.0	Vert	AV	3.1E-9	-55.0	-13.0	-42.0
25751.640	1.5	333.0	Vert	AV	3.0E-9	-55.2	-13.0	-42.2
23622.990	1.5	33.0	Horz	AV	2.9E-9	-55.3	-13.0	-42.3
15752.190	1.5	348.0	Horz	AV	2.9E-9	-55.4	-13.0	-42.4
24119.550	1.5	294.0	Horz	AV	2.9E-9	-55.4	-13.0	-42.4
23938.730	1.5	140.0	Horz	AV	2.9E-9	-55.4	-13.0	-42.4

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
26797.610	1.5	35.0	Horz	AV	2.9E-9	-55.4	-13.0	-42.4
16082.200	1.5	79.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
15752.250	1.3	185.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
26798.120	1.5	167.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
18373.300	1.5	313.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
16082.480	1.5	17.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
15962.390	1.5	84.0	Vert	AV	2.7E-9	-55.7	-13.0	-42.7
15962.400	1.5	4.0	Horz	AV	2.6E-9	-55.8	-13.0	-42.8
23623.160	1.5	325.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
23940.990	1.5	67.0	Vert	AV	2.4E-9	-56.1	-13.0	-43.1
18619.280	1.5	188.0	Horz	AV	2.4E-9	-56.2	-13.0	-43.2
24119.450	1.5	189.0	Vert	AV	2.3E-9	-56.4	-13.0	-43.4
18758.210	1.5	240.0	Horz	AV	2.2E-9	-56.6	-13.0	-43.6
15452.270	1.5	323.0	Horz	AV	2.1E-9	-56.7	-13.0	-43.7
15452.420	1.0	254.0	Vert	AV	2.1E-9	-56.7	-13.0	-43.7
18022.520	1.5	299.0	Vert	AV	2.1E-9	-56.8	-13.0	-43.8
13122.530	2.1	0.0	Horz	AV	2.0E-9	-57.0	-13.0	-44.0
18619.730	1.5	332.0	Vert	AV	1.9E-9	-57.1	-13.0	-44.1
18758.100	1.5	194.0	Vert	AV	1.8E-9	-57.4	-13.0	-44.4
13297.700	1.5	164.0	Horz	AV	1.6E-9	-58.0	-13.0	-45.0
13297.680	3.0	343.0	Vert	AV	1.6E-9	-58.0	-13.0	-45.0
12877.240	1.5	360.0	Horz	AV	1.5E-9	-58.1	-13.0	-45.1
13122.620	1.5	81.0	Vert	AV	1.3E-9	-58.7	-13.0	-45.7
12872.500	2.1	323.0	Vert	AV	1.3E-9	-58.8	-13.0	-45.8
13402.490	1.5	177.0	Horz	AV	1.3E-9	-59.0	-13.0	-46.0
13402.380	1.5	114.0	Vert	AV	1.3E-9	-59.0	-13.0	-46.0
10312.410	1.5	353.0	Vert	AV	1.2E-9	-59.3	-13.0	-46.3
10312.550	1.5	194.0	Horz	AV	395.5E-12	-64.0	-13.0	-51.0
10717.580	1.5	169.0	Horz	AV	344.4E-12	-64.6	-13.0	-51.6
10717.670	1.5	361.0	Vert	AV	344.4E-12	-64.6	-13.0	-51.6
10302.010	1.5	340.0	Horz	AV	344.4E-12	-64.6	-13.0	-51.6
10499.300	1.5	282.0	Vert	AV	321.5E-12	-64.9	-13.0	-51.9
10499.790	1.5	240.0	Horz	AV	314.1E-12	-65.0	-13.0	-52.0
10637.810	1.5	58.0	Horz	AV	307.0E-12	-65.1	-13.0	-52.1
10637.830	1.5	200.0	Vert	AV	300.0E-12	-65.2	-13.0	-52.2
10302.340	1.5	108.0	Vert	AV	300.0E-12	-65.2	-13.0	-52.2

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-22
Customer:	Nokia Solutions and Networks	Temperature:	21.6°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	36.6%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	7	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

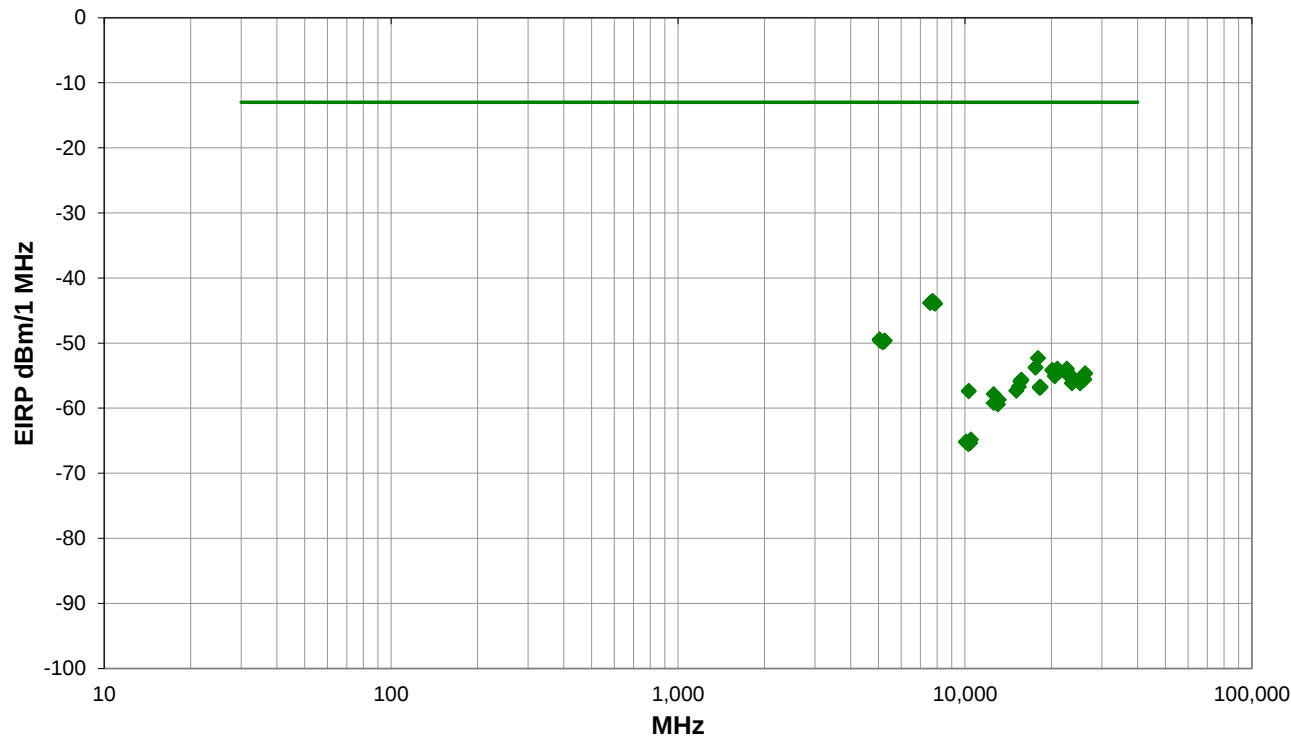
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 3; 2606.00 MHz (LTE20, QPSK), 2626.00 MHz (LTE20, QPSK), 2521.02 MHz (NR50, QPSK), 2571.00 MHz (NR50, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 7

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #7

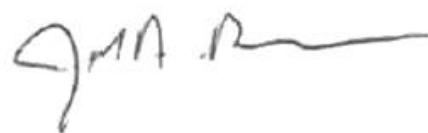
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7715.042	1.5	25.0	Horz	AV	44.4E-9	-43.5	-13.0	-30.5
7714.942	1.5	0.0	Vert	AV	44.4E-9	-43.5	-13.0	-30.5
7565.493	1.5	84.0	Horz	AV	41.4E-9	-43.8	-13.0	-30.8
7565.527	1.5	347.0	Vert	AV	41.4E-9	-43.8	-13.0	-30.8
7815.617	3.0	22.0	Horz	AV	41.4E-9	-43.8	-13.0	-30.8
7815.575	1.5	328.0	Vert	AV	41.4E-9	-43.8	-13.0	-30.8
7879.800	3.0	108.0	Horz	AV	40.5E-9	-43.9	-13.0	-30.9
7879.200	1.5	254.0	Vert	AV	40.5E-9	-43.9	-13.0	-30.9
5044.332	1.5	74.0	Horz	AV	11.4E-9	-49.4	-13.0	-36.4
5044.115	1.5	140.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
5254.383	1.1	215.0	Horz	AV	10.9E-9	-49.6	-13.0	-36.6
5254.417	1.5	278.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
5144.183	1.5	169.0	Horz	AV	10.4E-9	-49.8	-13.0	-36.8
5144.375	3.6	96.0	Vert	AV	10.4E-9	-49.8	-13.0	-36.8
5214.425	1.5	358.0	Horz	AV	10.4E-9	-49.8	-13.0	-36.8
5214.433	1.5	19.0	Vert	AV	10.4E-9	-49.8	-13.0	-36.8
17994.920	1.5	189.0	Horz	AV	5.8E-9	-52.3	-13.0	-39.3
17994.780	1.5	279.0	Vert	AV	5.8E-9	-52.3	-13.0	-39.3
17645.710	1.5	30.0	Vert	AV	4.2E-9	-53.7	-13.0	-40.7
17644.990	1.5	267.0	Horz	AV	4.1E-9	-53.8	-13.0	-40.8
22688.360	1.5	331.0	Horz	AV	4.0E-9	-53.9	-13.0	-40.9
21010.280	1.5	71.0	Horz	AV	4.0E-9	-53.9	-13.0	-40.9
22689.260	1.5	38.0	Vert	AV	3.9E-9	-54.1	-13.0	-41.1
21010.430	1.5	108.0	Vert	AV	3.9E-9	-54.1	-13.0	-41.1
20169.820	1.5	72.0	Horz	AV	3.9E-9	-54.1	-13.0	-41.1
20170.290	1.5	333.0	Vert	AV	3.8E-9	-54.2	-13.0	-41.2
26262.030	1.5	270.0	Vert	AV	3.4E-9	-54.6	-13.0	-41.6
20849.780	1.5	0.0	Vert	AV	3.4E-9	-54.6	-13.0	-41.6
20850.030	1.5	333.0	Horz	AV	3.4E-9	-54.6	-13.0	-41.6
26262.430	1.5	360.0	Horz	AV	3.4E-9	-54.7	-13.0	-41.7
23140.760	1.5	269.0	Horz	AV	3.2E-9	-54.9	-13.0	-41.9
20565.590	1.5	105.0	Horz	AV	3.1E-9	-55.0	-13.0	-42.0
23455.550	1.5	360.0	Horz	AV	3.1E-9	-55.0	-13.0	-42.0
20565.640	1.5	357.0	Vert	AV	3.1E-9	-55.1	-13.0	-42.1
23140.780	1.5	300.0	Vert	AV	3.1E-9	-55.1	-13.0	-42.1
23453.960	1.5	40.0	Vert	AV	3.1E-9	-55.1	-13.0	-42.1
26058.750	1.5	88.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
25712.120	1.5	144.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
26060.710	1.5	251.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
15753.750	1.5	111.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
15754.160	1.5	210.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
25712.350	1.5	334.0	Vert	AV	2.7E-9	-55.7	-13.0	-42.7
15637.760	1.5	174.0	Horz	AV	2.6E-9	-55.9	-13.0	-42.9
15637.810	1.5	353.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
25207.930	1.5	320.0	Horz	AV	2.4E-9	-56.1	-13.0	-43.1
23631.760	1.5	168.0	Horz	AV	2.4E-9	-56.1	-13.0	-43.1
25207.810	1.5	10.0	Vert	AV	2.4E-9	-56.2	-13.0	-43.2
23631.520	1.5	150.0	Vert	AV	2.4E-9	-56.2	-13.0	-43.2
15423.690	1.9	195.0	Horz	AV	2.1E-9	-56.7	-13.0	-43.7
15423.570	1.5	142.0	Vert	AV	2.1E-9	-56.7	-13.0	-43.7
18380.680	1.5	234.0	Horz	AV	2.1E-9	-56.7	-13.0	-43.7
18243.840	1.5	359.0	Horz	AV	2.1E-9	-56.7	-13.0	-43.7
18381.480	1.5	230.0	Vert	AV	2.1E-9	-56.8	-13.0	-43.8
18242.970	1.5	40.0	Vert	AV	2.0E-9	-56.9	-13.0	-43.9
10312.540	1.3	200.0	Horz	AV	1.8E-9	-57.3	-13.0	-44.3
15128.300	1.5	275.0	Horz	AV	1.8E-9	-57.3	-13.0	-44.3
15128.620	1.5	292.0	Vert	AV	1.8E-9	-57.3	-13.0	-44.3
10312.530	1.5	353.0	Vert	AV	1.8E-9	-57.4	-13.0	-44.4
12604.760	1.5	76.0	Horz	AV	1.6E-9	-57.8	-13.0	-44.8
13132.370	1.5	68.0	Horz	AV	1.3E-9	-58.7	-13.0	-45.7
13132.050	1.5	168.0	Vert	AV	1.3E-9	-58.7	-13.0	-45.7
12855.090	1.5	179.0	Horz	AV	1.2E-9	-59.1	-13.0	-46.1
12854.030	1.1	154.0	Vert	AV	1.2E-9	-59.1	-13.0	-46.1
12602.650	1.5	360.0	Vert	AV	1.2E-9	-59.2	-13.0	-46.2
13028.110	2.8	178.0	Horz	AV	1.1E-9	-59.4	-13.0	-46.4
13027.880	1.5	246.0	Vert	AV	1.1E-9	-59.4	-13.0	-46.4
10503.930	1.5	26.0	Horz	AV	328.9E-12	-64.8	-13.0	-51.8
10503.840	1.5	247.0	Vert	AV	328.9E-12	-64.8	-13.0	-51.8
10081.700	1.5	224.0	Horz	AV	307.0E-12	-65.1	-13.0	-52.1
10081.660	1.7	203.0	Vert	AV	300.0E-12	-65.2	-13.0	-52.2
10421.630	1.5	200.0	Horz	AV	293.2E-12	-65.3	-13.0	-52.3
10421.590	1.5	159.0	Vert	AV	286.5E-12	-65.4	-13.0	-52.4
10281.630	1.0	118.0	Horz	AV	280.0E-12	-65.5	-13.0	-52.5
10281.520	1.5	338.0	Vert	AV	280.0E-12	-65.5	-13.0	-52.5

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-23
Customer:	Nokia Solutions and Networks	Temperature:	25.8°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	40.8%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	11	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

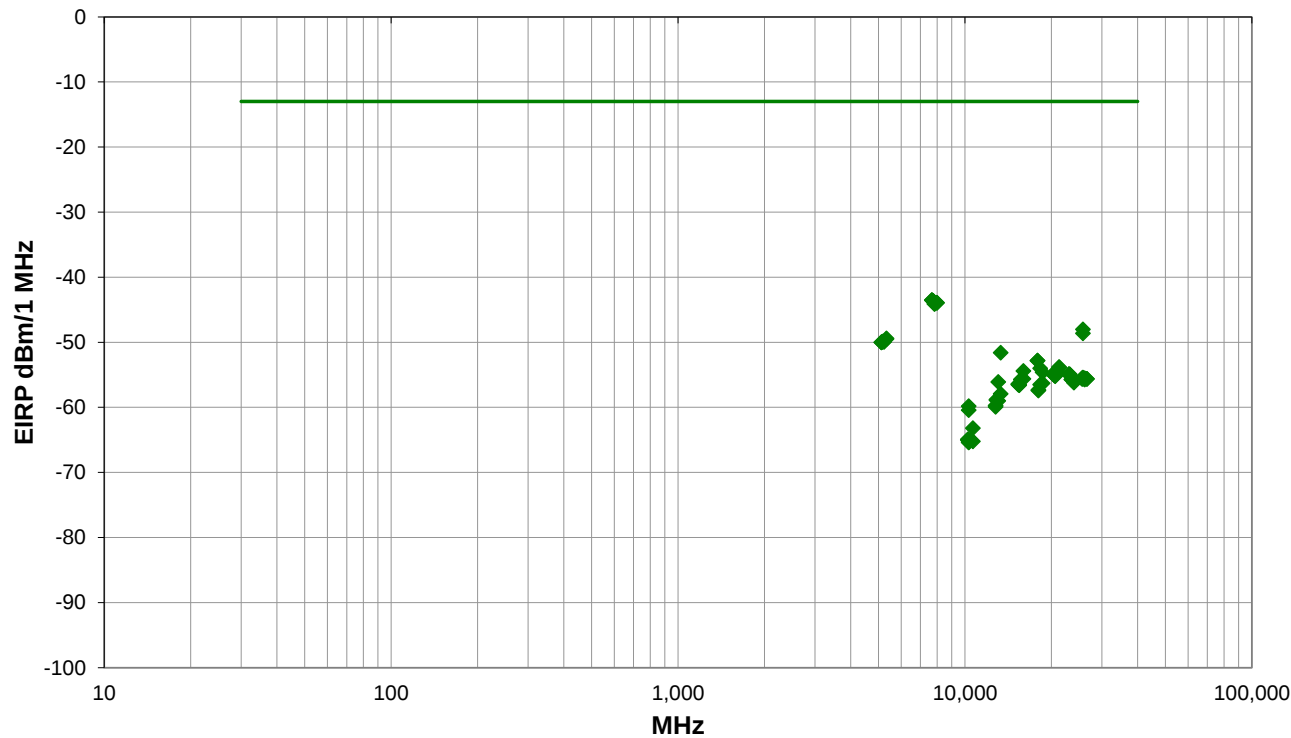
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 4; 2580.00 MHz (LTE20, QPSK), 2560.00 MHz (LTE20, QPSK), 2664.99 MHz (NR50, QPSK), 2614.98 MHz (NR50, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 11

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #11

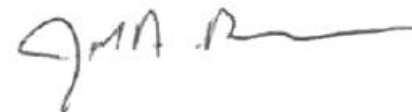
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7677.517	1.5	107.0	Horz	AV	44.4E-9	-43.5	-13.0	-30.5
7678.325	3.5	78.0	Vert	AV	44.4E-9	-43.5	-13.0	-30.5
7741.892	1.5	121.0	Horz	AV	43.4E-9	-43.6	-13.0	-30.6
7742.375	3.2	185.0	Vert	AV	43.4E-9	-43.6	-13.0	-30.6
7996.745	1.5	268.0	Horz	AV	40.5E-9	-43.9	-13.0	-30.9
7997.245	2.2	24.0	Vert	AV	40.5E-9	-43.9	-13.0	-30.9
7847.182	1.4	200.0	Horz	AV	38.6E-9	-44.1	-13.0	-31.1
7846.682	1.5	102.0	Vert	AV	38.6E-9	-44.1	-13.0	-31.1
25781.160	1.5	190.0	Horz	AV	15.7E-9	-48.0	-13.0	-35.0
25781.080	1.5	28.0	Vert	AV	13.7E-9	-48.6	-13.0	-35.6
5328.022	1.5	295.0	Horz	AV	11.4E-9	-49.4	-13.0	-36.4
5327.580	1.5	304.0	Vert	AV	11.1E-9	-49.5	-13.0	-36.5
5232.185	3.1	312.0	Horz	AV	10.2E-9	-49.9	-13.0	-36.9
5231.993	3.5	26.0	Vert	AV	10.2E-9	-49.9	-13.0	-36.9
5162.458	1.5	29.0	Horz	AV	10.2E-9	-49.9	-13.0	-36.9
5162.433	1.7	219.0	Vert	AV	10.2E-9	-49.9	-13.0	-36.9
5122.475	1.5	317.0	Horz	AV	9.9E-9	-50.0	-13.0	-37.0
5122.450	1.5	222.0	Vert	AV	9.9E-9	-50.0	-13.0	-37.0
13323.180	2.0	359.0	Horz	AV	6.9E-9	-51.6	-13.0	-38.6
17917.720	1.5	138.0	Horz	AV	5.2E-9	-52.8	-13.0	-39.8
17918.320	4.0	89.0	Vert	AV	5.2E-9	-52.8	-13.0	-39.8
21320.470	1.5	269.0	Vert	AV	4.1E-9	-53.8	-13.0	-40.8
21320.830	1.5	4.0	Horz	AV	4.0E-9	-53.9	-13.0	-40.9
18304.450	1.5	340.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
20920.420	1.5	-1.0	Vert	AV	3.7E-9	-54.3	-13.0	-41.3
15990.170	1.5	334.0	Horz	AV	3.6E-9	-54.4	-13.0	-41.4
20919.270	1.5	97.0	Horz	AV	3.6E-9	-54.4	-13.0	-41.4
18652.510	1.5	338.0	Horz	AV	3.4E-9	-54.6	-13.0	-41.6
23220.820	1.5	153.0	Vert	AV	3.2E-9	-54.9	-13.0	-41.9
23042.030	1.5	35.0	Vert	AV	3.2E-9	-54.9	-13.0	-41.9
23041.990	1.5	225.0	Horz	AV	3.2E-9	-54.9	-13.0	-41.9
20477.660	1.5	296.0	Vert	AV	3.1E-9	-55.0	-13.0	-42.0
23217.580	1.5	264.0	Horz	AV	3.1E-9	-55.0	-13.0	-42.0
20477.630	1.5	89.0	Horz	AV	3.1E-9	-55.0	-13.0	-42.0
20639.040	1.5	162.0	Vert	AV	3.1E-9	-55.1	-13.0	-42.1
20638.300	1.5	324.0	Horz	AV	3.0E-9	-55.2	-13.0	-42.2
25802.360	1.5	319.0	Vert	AV	2.9E-9	-55.4	-13.0	-42.4
26148.050	1.5	190.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
25601.960	1.5	46.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
25801.010	1.5	202.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
25602.170	1.5	166.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
26647.480	1.5	30.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
26647.610	1.5	65.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
15988.920	1.5	306.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
15687.590	1.5	2.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7
15687.400	1.5	229.0	Vert	AV	2.7E-9	-55.7	-13.0	-42.7
23535.410	1.5	102.0	Vert	AV	2.7E-9	-55.7	-13.0	-42.7
23535.150	1.5	155.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7
26148.320	1.5	164.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7
23985.570	1.5	8.0	Vert	AV	2.5E-9	-56.0	-13.0	-43.0
13077.320	1.5	0.0	Horz	AV	2.4E-9	-56.1	-13.0	-43.1
23985.890	1.5	162.0	Horz	AV	2.4E-9	-56.2	-13.0	-43.2
18656.250	1.5	34.0	Vert	AV	2.3E-9	-56.3	-13.0	-43.3
15357.760	2.3	27.0	Horz	AV	2.3E-9	-56.4	-13.0	-43.4
15478.480	1.5	119.0	Horz	AV	2.2E-9	-56.5	-13.0	-43.5
15362.000	1.0	151.0	Vert	AV	2.2E-9	-56.5	-13.0	-43.5
18304.450	1.5	291.0	Vert	AV	2.2E-9	-56.5	-13.0	-43.5
15477.900	4.0	166.0	Vert	AV	2.2E-9	-56.6	-13.0	-43.6
18061.200	1.5	0.0	Vert	AV	1.8E-9	-57.3	-13.0	-44.3
18062.450	1.5	308.0	Horz	AV	1.8E-9	-57.4	-13.0	-44.4
13322.540	1.5	347.0	Vert	AV	1.6E-9	-57.9	-13.0	-44.9
12899.350	1.5	0.0	Vert	AV	1.3E-9	-58.8	-13.0	-45.8
12899.160	3.3	67.0	Horz	AV	1.3E-9	-58.9	-13.0	-45.9
13077.340	3.0	194.0	Vert	AV	1.3E-9	-59.0	-13.0	-46.0
12802.350	1.5	27.0	Vert	AV	1.1E-9	-59.7	-13.0	-46.7
10312.490	1.5	200.0	Horz	AV	1.0E-9	-59.8	-13.0	-46.8
12797.540	1.5	292.0	Horz	AV	1.0E-9	-59.9	-13.0	-46.9
10312.440	1.5	353.0	Vert	AV	906.0E-12	-60.4	-13.0	-47.4
10662.370	1.9	41.0	Horz	AV	475.5E-12	-63.2	-13.0	-50.2
10237.970	1.5	242.0	Horz	AV	321.5E-12	-64.9	-13.0	-51.9
10460.700	1.5	69.0	Horz	AV	314.1E-12	-65.0	-13.0	-52.0
10458.610	1.5	9.0	Vert	AV	314.1E-12	-65.0	-13.0	-52.0
10237.670	1.5	360.0	Vert	AV	314.1E-12	-65.0	-13.0	-52.0
10662.040	1.5	350.0	Vert	AV	300.0E-12	-65.2	-13.0	-52.2
10317.630	1.5	328.0	Horz	AV	293.2E-12	-65.3	-13.0	-52.3
10318.620	1.5	96.0	Vert	AV	286.5E-12	-65.4	-13.0	-52.4

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS

EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-23
Customer:	Nokia Solutions and Networks	Temperature:	26.9°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	39.7%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	14	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

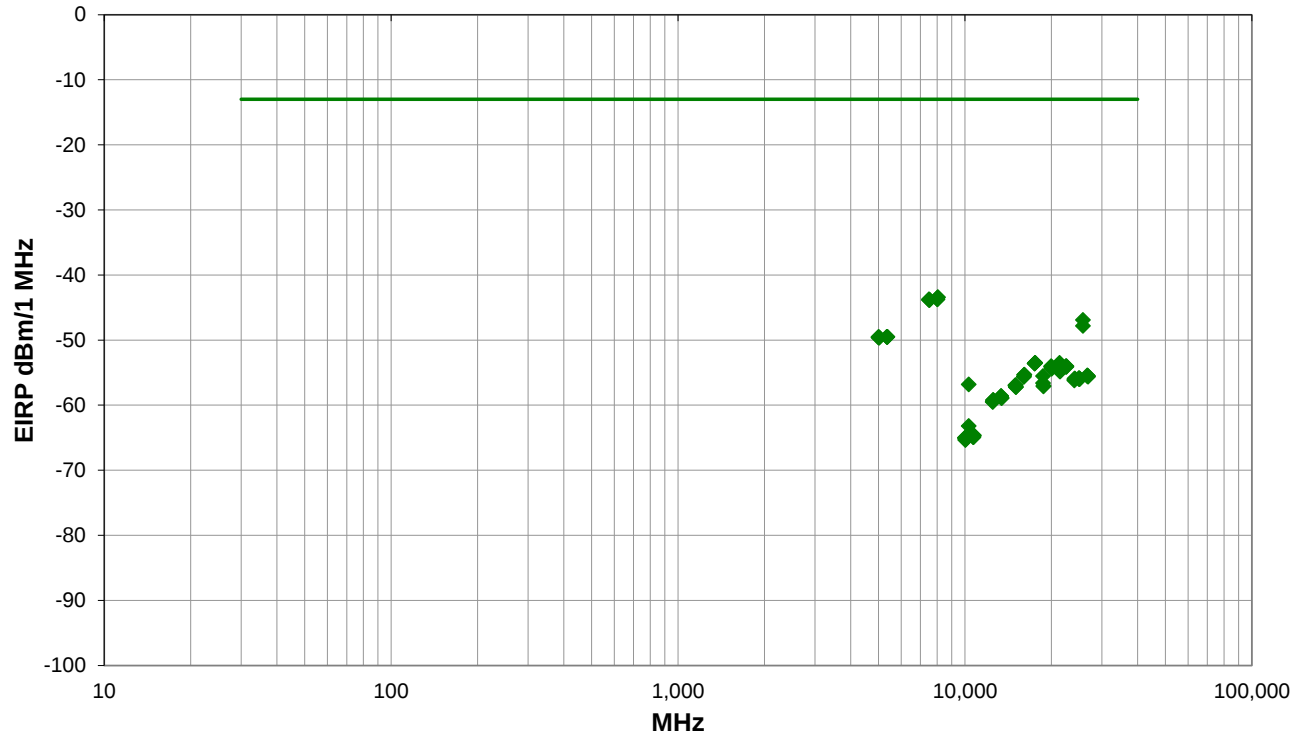
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 5; 2501.00 MHz (LTE10, QPSK), 2511.00 MHz (LTE10, QPSK), 2685.00 MHz (NR10, QPSK), 2675.01 MHz (NR10, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 14

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #14

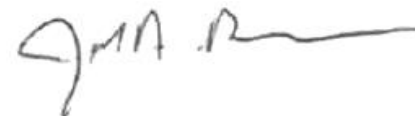
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
8052.592	1.5	339.0	Horz	AV	45.4E-9	-43.4	-13.0	-30.4
8052.558	1.5	188.0	Vert	AV	45.4E-9	-43.4	-13.0	-30.4
7500.650	2.0	293.0	Horz	AV	42.4E-9	-43.7	-13.0	-30.7
8025.913	1.5	296.0	Horz	AV	42.4E-9	-43.7	-13.0	-30.7
8025.213	1.5	204.0	Vert	AV	42.4E-9	-43.7	-13.0	-30.7
7501.092	1.5	341.0	Vert	AV	41.4E-9	-43.8	-13.0	-30.8
7530.558	1.5	256.0	Horz	AV	41.4E-9	-43.8	-13.0	-30.8
7530.592	1.5	338.0	Vert	AV	41.4E-9	-43.8	-13.0	-30.8
25781.300	1.5	305.0	Vert	AV	20.3E-9	-46.9	-13.0	-33.9
25781.260	1.5	188.0	Horz	AV	16.5E-9	-47.8	-13.0	-34.8
5004.408	1.3	310.0	Horz	AV	11.1E-9	-49.5	-13.0	-36.5
5368.158	1.9	305.0	Horz	AV	11.1E-9	-49.5	-13.0	-36.5
5367.767	1.5	16.0	Vert	AV	11.1E-9	-49.5	-13.0	-36.5
5347.553	1.5	256.0	Horz	AV	11.1E-9	-49.5	-13.0	-36.5
5347.853	3.9	309.0	Vert	AV	11.1E-9	-49.5	-13.0	-36.5
5004.500	1.5	65.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
5024.433	3.9	166.0	Horz	AV	10.9E-9	-49.6	-13.0	-36.6
5024.400	1.5	154.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
17575.260	3.5	360.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
17577.730	2.6	1.0	Vert	AV	4.4E-9	-53.5	-13.0	-40.5
21397.910	1.5	97.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
17505.270	1.5	120.0	Horz	AV	4.3E-9	-53.6	-13.0	-40.6
17504.750	3.0	333.0	Vert	AV	4.3E-9	-53.6	-13.0	-40.6
21398.450	1.5	280.0	Vert	AV	4.2E-9	-53.7	-13.0	-40.7
20006.730	1.5	157.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
22509.550	1.5	357.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
22597.280	1.5	348.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
20006.080	1.5	326.0	Vert	AV	3.9E-9	-54.1	-13.0	-41.1
22507.580	1.5	360.0	Vert	AV	3.9E-9	-54.1	-13.0	-41.1
22596.620	1.5	33.0	Vert	AV	3.9E-9	-54.1	-13.0	-41.1
20085.660	1.5	0.0	Horz	AV	3.8E-9	-54.2	-13.0	-41.2
20085.550	1.5	209.0	Vert	AV	3.6E-9	-54.4	-13.0	-41.4
21478.080	1.5	319.0	Vert	AV	3.3E-9	-54.8	-13.0	-41.8
21477.780	1.5	224.0	Horz	AV	3.3E-9	-54.8	-13.0	-41.8
16107.720	1.5	331.0	Horz	AV	2.9E-9	-55.3	-13.0	-42.3
16107.590	1.6	57.0	Vert	AV	2.9E-9	-55.3	-13.0	-42.3
26747.610	1.5	335.0	Horz	AV	2.9E-9	-55.4	-13.0	-42.4
18727.250	1.5	330.0	Horz	AV	2.8E-9	-55.5	-13.0	-42.5
26851.480	1.5	215.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
26747.790	1.5	48.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
26851.760	1.5	64.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
16048.580	2.2	0.0	Horz	AV	2.7E-9	-55.6	-13.0	-42.6
16048.880	1.5	152.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
25008.230	1.5	187.0	Horz	AV	2.6E-9	-55.8	-13.0	-42.8
25108.070	1.5	266.0	Horz	AV	2.6E-9	-55.9	-13.0	-42.9
24162.890	1.5	214.0	Horz	AV	2.6E-9	-55.9	-13.0	-42.9
25007.680	1.5	21.0	Vert	AV	2.5E-9	-56.0	-13.0	-43.0
25107.680	1.5	251.0	Vert	AV	2.5E-9	-56.0	-13.0	-43.0
24163.210	1.5	224.0	Vert	AV	2.5E-9	-56.0	-13.0	-43.0
24073.770	1.5	206.0	Horz	AV	2.5E-9	-56.0	-13.0	-43.0
24073.020	1.5	244.0	Vert	AV	2.4E-9	-56.2	-13.0	-43.2
18727.520	1.5	360.0	Vert	AV	2.2E-9	-56.6	-13.0	-43.6
10312.410	1.0	156.0	Vert	AV	2.1E-9	-56.8	-13.0	-43.8
15004.870	1.5	12.0	Horz	AV	2.0E-9	-56.9	-13.0	-43.9
15004.190	1.5	281.0	Vert	AV	2.0E-9	-57.0	-13.0	-44.0
18792.910	1.5	151.0	Horz	AV	2.0E-9	-57.0	-13.0	-44.0
18792.730	1.5	230.0	Vert	AV	1.9E-9	-57.1	-13.0	-44.1
15065.630	1.5	172.0	Horz	AV	1.9E-9	-57.2	-13.0	-44.2
15067.020	1.5	225.0	Vert	AV	1.9E-9	-57.2	-13.0	-44.2
13372.550	1.5	122.0	Horz	AV	1.4E-9	-58.6	-13.0	-45.6
13372.710	1.5	13.0	Vert	AV	1.4E-9	-58.6	-13.0	-45.6
13427.400	1.5	167.0	Horz	AV	1.3E-9	-58.9	-13.0	-45.9
13427.410	1.5	298.0	Vert	AV	1.3E-9	-58.9	-13.0	-45.9
12552.640	1.5	316.0	Horz	AV	1.2E-9	-59.2	-13.0	-46.2
12552.520	1.5	212.0	Vert	AV	1.2E-9	-59.2	-13.0	-46.2
12506.680	3.2	199.0	Horz	AV	1.1E-9	-59.4	-13.0	-46.4
12505.800	3.2	30.0	Vert	AV	1.1E-9	-59.5	-13.0	-46.5
10312.560	1.5	224.0	Horz	AV	475.5E-12	-63.2	-13.0	-50.2
10738.770	1.5	105.0	Horz	AV	344.4E-12	-64.6	-13.0	-51.6
10738.430	1.5	228.0	Vert	AV	336.6E-12	-64.7	-13.0	-51.7
10697.680	3.5	302.0	Horz	AV	321.5E-12	-64.9	-13.0	-51.9
10697.620	1.8	192.0	Vert	AV	321.5E-12	-64.9	-13.0	-51.9
10001.670	1.5	132.0	Horz	AV	314.1E-12	-65.0	-13.0	-52.0
10001.550	1.8	73.0	Vert	AV	314.1E-12	-65.0	-13.0	-52.0
10044.780	1.5	85.0	Horz	AV	293.2E-12	-65.3	-13.0	-52.3
10044.420	3.2	35.0	Vert	AV	293.2E-12	-65.3	-13.0	-52.3

CONCLUSION

Pass



Tested By

SPURIOUS RADIATED EMISSIONS



EUT:	Airscale Base Transceiver Station Radio Unit AVHA	Work Order:	NOKI0088
Serial Number:	L125500220	Date:	2025-09-23
Customer:	Nokia Solutions and Networks	Temperature:	27.8°C
Attendees:	David Le, Mitch Hill	Relative Humidity:	38.5%
Customer Project:	None	Bar. Pressure (PMSL):	1012 mb
Tested By:	Jarrold Brenden	Job Site:	PT01
Power:	54VDC	Configuration:	NOKI0088-5

TEST PARAMETERS

Run #:	17	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
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COMMENTS

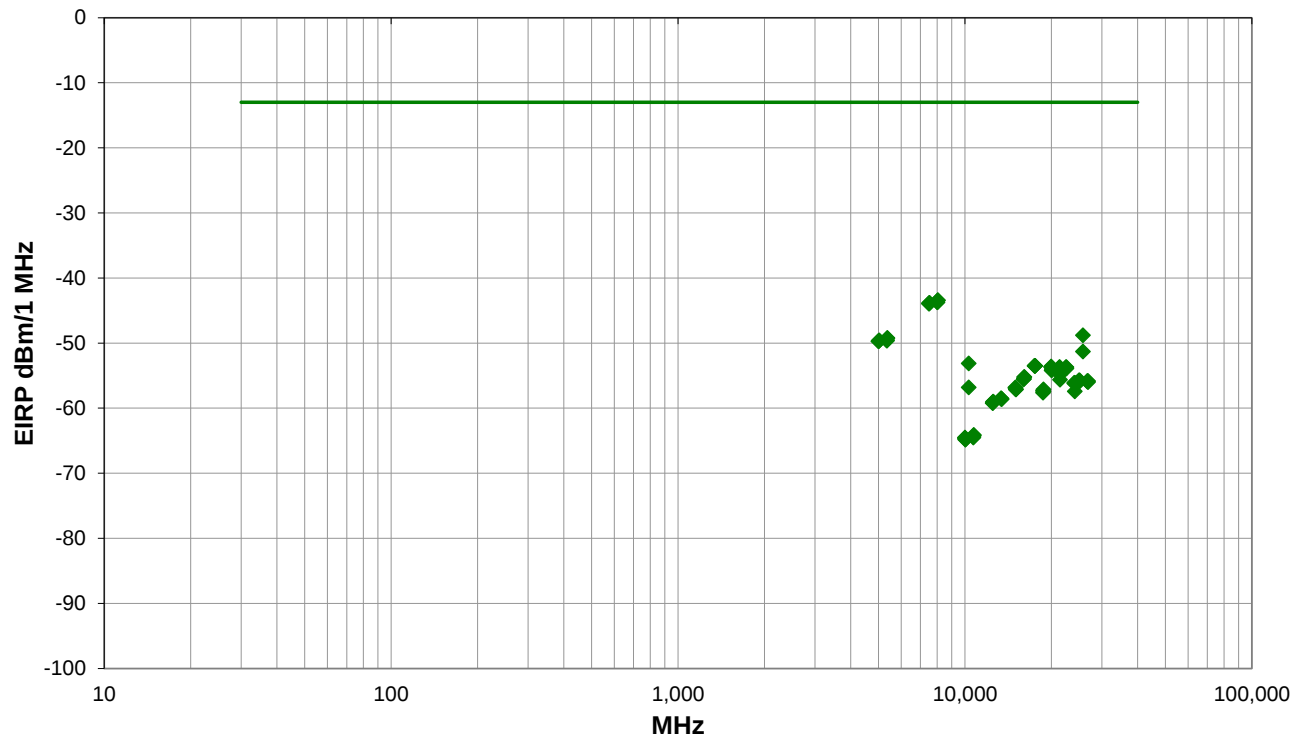
Pole Mounted Radio. TAB ports were terminated to 50ohm loads. The average emissions were duty cycle corrected up to 100% per the guidance provided in ANSI C63.26:2015 section 5.7.3 (d)(3): $10 \cdot \log(1/\text{Duty Cycle (in dec)})$. The measured duty cycle was seen to be 74% and applied as $10 \cdot \log(1/0.74) = 1.3 \text{ dB}$ upward correction.

EUT OPERATING MODES

Test Case 6; 2685.00 MHz (LTE10, QPSK), 2675.00 MHz (LTE10, QPSK), 2501.01 MHz (NR10, QPSK), 2511.00 MHz (NR10, QPSK)

DEVIATIONS FROM TEST STANDARD

None



Run #: 17

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS

RESULTS - Run #17

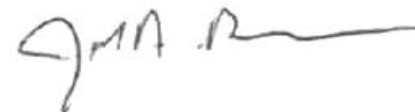
Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
8052.792	1.5	132.0	Horz	AV	45.4E-9	-43.4	-13.0	-30.4
8052.942	1.5	146.0	Vert	AV	45.4E-9	-43.4	-13.0	-30.4
8025.900	1.5	216.0	Horz	AV	42.4E-9	-43.7	-13.0	-30.7
8025.950	1.5	64.0	Vert	AV	42.4E-9	-43.7	-13.0	-30.7
7530.708	1.6	142.0	Horz	AV	41.4E-9	-43.8	-13.0	-30.8
7530.775	1.5	69.0	Vert	AV	41.4E-9	-43.8	-13.0	-30.8
7500.605	1.5	122.0	Horz	AV	40.5E-9	-43.9	-13.0	-30.9
7500.563	1.5	8.0	Vert	AV	40.5E-9	-43.9	-13.0	-30.9
25781.180	1.5	192.0	Horz	AV	13.1E-9	-48.8	-13.0	-35.8
5368.275	1.5	342.0	Horz	AV	11.9E-9	-49.2	-13.0	-36.2
5367.592	1.5	252.0	Vert	AV	11.7E-9	-49.3	-13.0	-36.3
5348.442	1.5	286.0	Horz	AV	10.9E-9	-49.6	-13.0	-36.6
5348.042	1.5	124.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
5024.375	3.0	115.0	Horz	AV	10.9E-9	-49.6	-13.0	-36.6
5024.483	1.5	84.0	Vert	AV	10.9E-9	-49.6	-13.0	-36.6
5004.462	1.5	120.0	Horz	AV	10.6E-9	-49.7	-13.0	-36.7
5004.478	1.8	303.0	Vert	AV	10.6E-9	-49.7	-13.0	-36.7
25781.290	1.5	29.0	Vert	AV	7.4E-9	-51.3	-13.0	-38.3
10312.550	1.0	147.0	Vert	AV	4.9E-9	-53.1	-13.0	-40.1
17505.000	1.5	73.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
17505.930	1.5	210.0	Vert	AV	4.4E-9	-53.5	-13.0	-40.5
17574.840	1.5	125.0	Horz	AV	4.4E-9	-53.5	-13.0	-40.5
17574.850	1.5	57.0	Vert	AV	4.4E-9	-53.5	-13.0	-40.5
20007.220	1.5	82.0	Vert	AV	4.3E-9	-53.6	-13.0	-40.6
21397.620	1.5	0.0	Vert	AV	4.2E-9	-53.7	-13.0	-40.7
22509.420	1.5	168.0	Vert	AV	4.2E-9	-53.7	-13.0	-40.7
21397.730	1.5	272.0	Horz	AV	4.2E-9	-53.7	-13.0	-40.7
20005.790	1.5	174.0	Horz	AV	4.2E-9	-53.7	-13.0	-40.7
22597.650	1.5	151.0	Horz	AV	4.2E-9	-53.7	-13.0	-40.7
22510.190	1.5	84.0	Horz	AV	4.1E-9	-53.8	-13.0	-40.8
22597.260	1.5	197.0	Vert	AV	4.0E-9	-53.9	-13.0	-40.9
20087.100	1.5	4.0	Horz	AV	4.0E-9	-54.0	-13.0	-41.0
20086.060	1.5	60.0	Vert	AV	3.8E-9	-54.2	-13.0	-41.2
21479.040	1.5	360.0	Horz	AV	3.3E-9	-54.8	-13.0	-41.8
16112.480	2.8	111.0	Horz	AV	3.0E-9	-55.2	-13.0	-42.2
16112.360	1.5	185.0	Vert	AV	3.0E-9	-55.2	-13.0	-42.2
16048.060	1.5	105.0	Horz	AV	2.8E-9	-55.5	-13.0	-42.5
16050.090	1.5	236.0	Vert	AV	2.8E-9	-55.5	-13.0	-42.5
21482.380	1.5	74.0	Vert	AV	2.7E-9	-55.6	-13.0	-42.6
25007.850	1.5	195.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7

SPURIOUS RADIATED EMISSIONS

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
25108.180	1.5	1.0	Horz	AV	2.7E-9	-55.7	-13.0	-42.7
25008.010	1.5	360.0	Vert	AV	2.6E-9	-55.8	-13.0	-42.8
26852.420	1.5	253.0	Horz	AV	2.6E-9	-55.8	-13.0	-42.8
26747.520	1.5	73.0	Horz	AV	2.6E-9	-55.8	-13.0	-42.8
25110.690	1.5	250.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
26747.740	1.5	309.0	Vert	AV	2.6E-9	-55.9	-13.0	-42.9
26852.470	1.5	109.0	Vert	AV	2.5E-9	-56.0	-13.0	-43.0
24073.280	1.5	208.0	Vert	AV	2.4E-9	-56.1	-13.0	-43.1
24163.440	1.5	178.0	Horz	AV	2.4E-9	-56.1	-13.0	-43.1
24073.240	1.5	137.0	Horz	AV	2.4E-9	-56.2	-13.0	-43.2
10312.470	1.5	50.0	Horz	AV	2.1E-9	-56.8	-13.0	-43.8
15008.010	3.9	243.0	Horz	AV	2.1E-9	-56.8	-13.0	-43.8
15007.020	1.5	0.0	Vert	AV	2.0E-9	-56.9	-13.0	-43.9
15064.170	3.4	308.0	Horz	AV	1.9E-9	-57.1	-13.0	-44.1
15065.430	1.5	301.0	Vert	AV	1.9E-9	-57.1	-13.0	-44.1
18793.430	1.5	114.0	Horz	AV	1.9E-9	-57.1	-13.0	-44.1
18725.430	1.5	177.0	Horz	AV	1.8E-9	-57.3	-13.0	-44.3
18797.110	1.5	146.0	Vert	AV	1.8E-9	-57.4	-13.0	-44.4
24167.480	1.5	276.0	Vert	AV	1.8E-9	-57.4	-13.0	-44.4
18727.460	1.5	359.0	Vert	AV	1.7E-9	-57.6	-13.0	-44.6
13377.180	1.9	100.0	Horz	AV	1.4E-9	-58.5	-13.0	-45.5
13377.260	1.5	223.0	Vert	AV	1.4E-9	-58.5	-13.0	-45.5
13427.030	1.9	250.0	Horz	AV	1.4E-9	-58.6	-13.0	-45.6
13426.340	1.5	250.0	Vert	AV	1.4E-9	-58.6	-13.0	-45.6
12552.530	1.5	354.0	Horz	AV	1.3E-9	-59.0	-13.0	-46.0
12552.840	1.5	319.0	Vert	AV	1.3E-9	-59.0	-13.0	-46.0
12506.210	1.5	201.0	Horz	AV	1.2E-9	-59.2	-13.0	-46.2
12505.380	1.5	173.0	Vert	AV	1.2E-9	-59.2	-13.0	-46.2
10737.510	1.5	153.0	Horz	AV	386.5E-12	-64.1	-13.0	-51.1
10737.580	1.4	27.0	Vert	AV	377.7E-12	-64.2	-13.0	-51.2
10697.510	1.5	318.0	Horz	AV	360.7E-12	-64.4	-13.0	-51.4
10697.740	1.5	255.0	Vert	AV	352.5E-12	-64.5	-13.0	-51.5
10001.620	3.3	106.0	Horz	AV	352.5E-12	-64.5	-13.0	-51.5
10001.790	1.5	296.0	Vert	AV	344.4E-12	-64.6	-13.0	-51.6
10044.120	1.5	288.0	Horz	AV	328.9E-12	-64.8	-13.0	-51.8
10044.130	3.2	308.0	Vert	AV	328.9E-12	-64.8	-13.0	-51.8

CONCLUSION

Pass



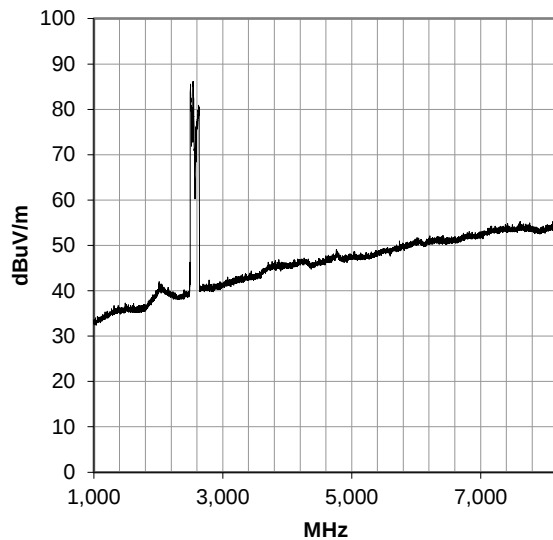
Tested By

SPURIOUS RADIATED EMISSIONS

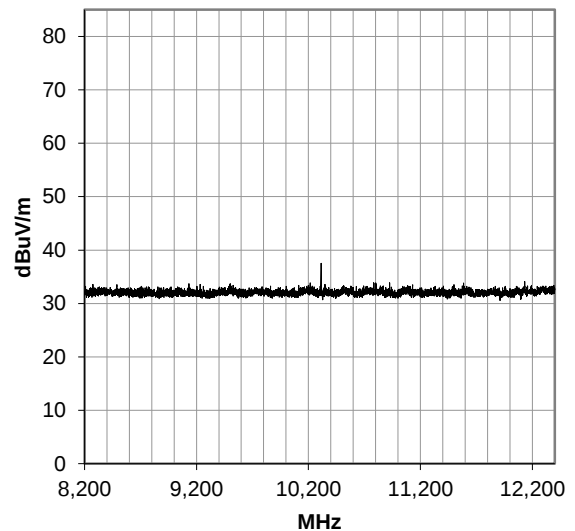
PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

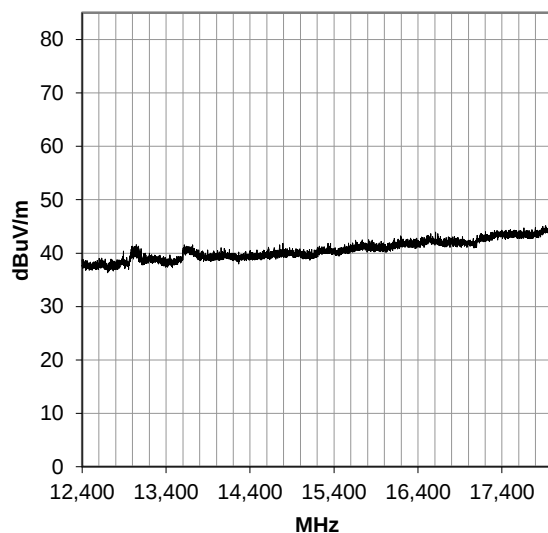
1000-8200 MHz, Run 1
Test Case 1



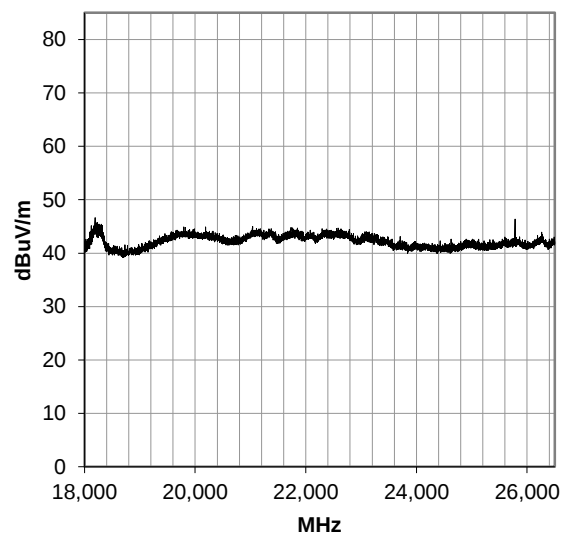
8200-12400 MHz, Run 2
Test Case 1



12400-18000 MHz, Run 3
Test Case 1

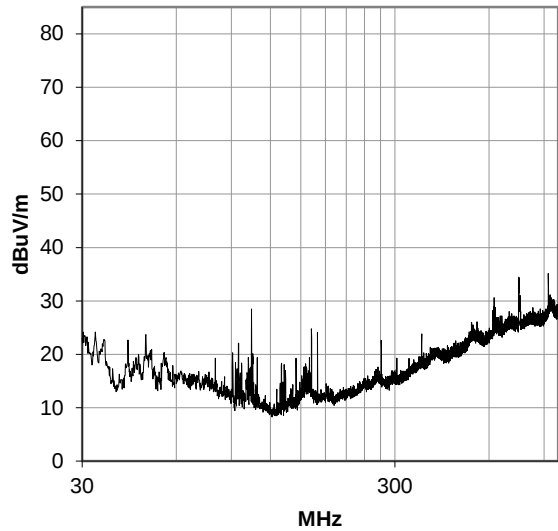


18000-26500 MHz, Run 33
Test Case 1

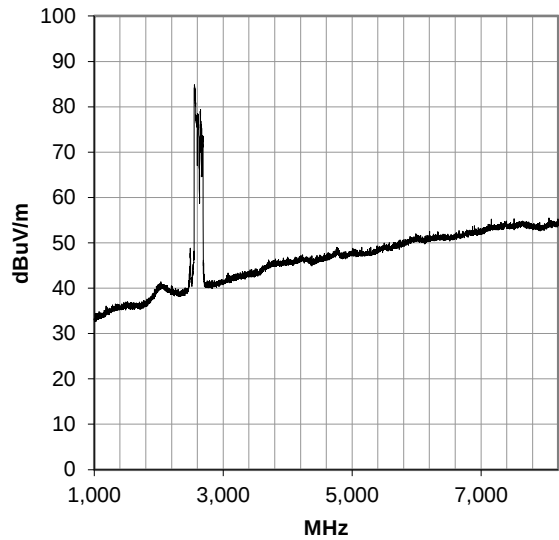


SPURIOUS RADIATED EMISSIONS

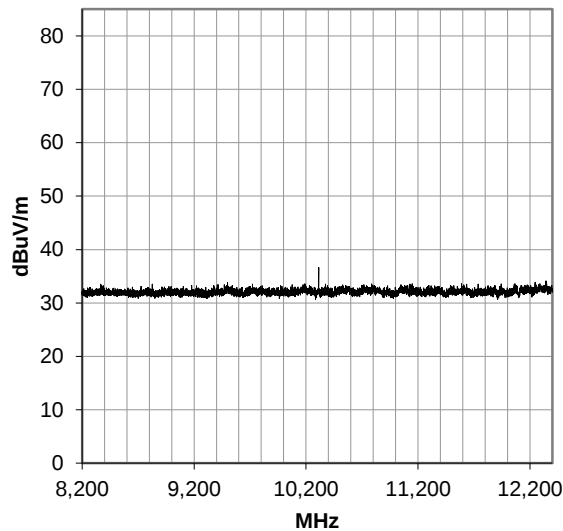
30-1000 MHz, Run 34
Test Case 1



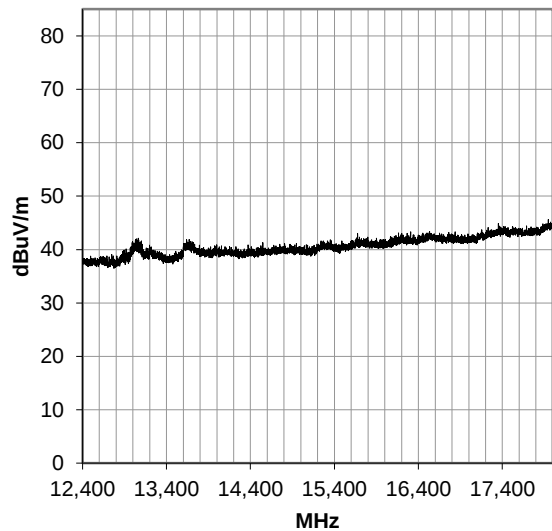
1000-8200 MHz, Run 4
Test Case 2



8200-12400 MHz, Run 5
Test Case 2

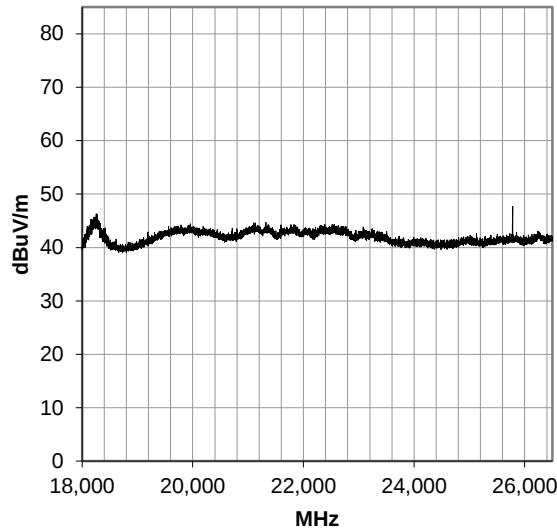


12400-18000 MHz, Run 6
Test Case 2

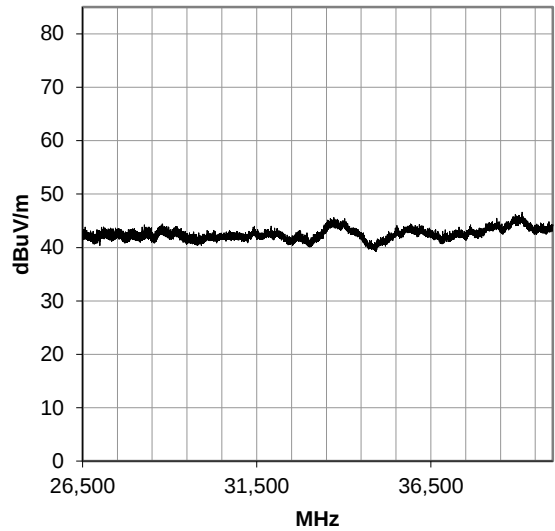


SPURIOUS RADIATED EMISSIONS

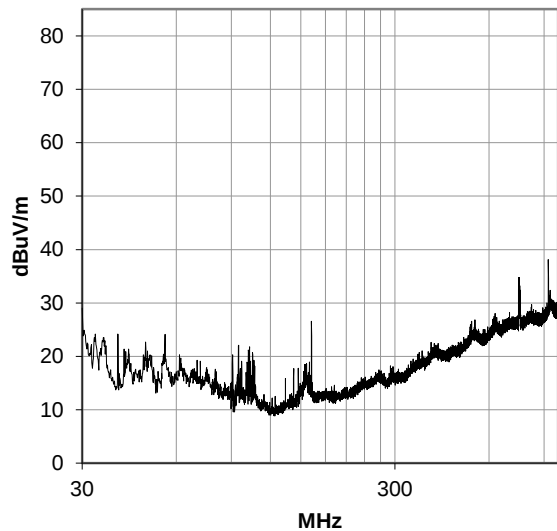
18000-26500 MHz, Run 30
Test Case 2



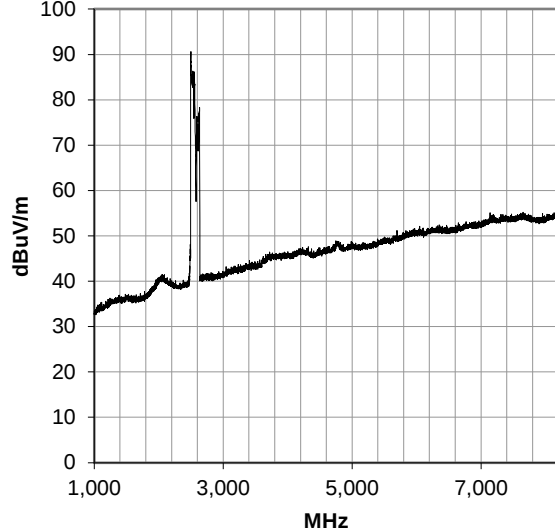
26500-40000 MHz, Run 32
Test Case 2



30-1000 MHz, Run 35
Test Case 2

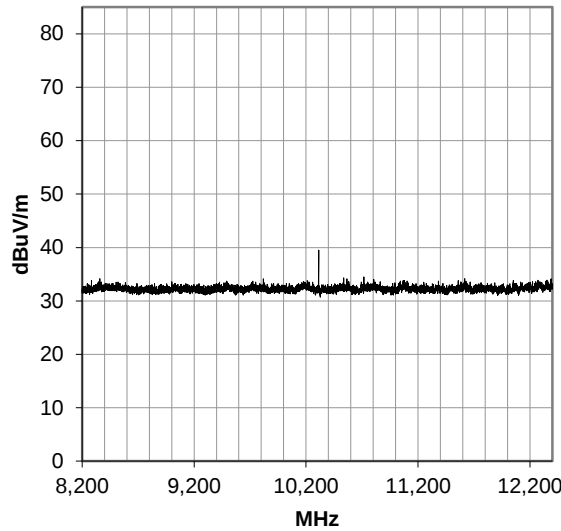


1000-8200 MHz, Run 7
Test Case 3

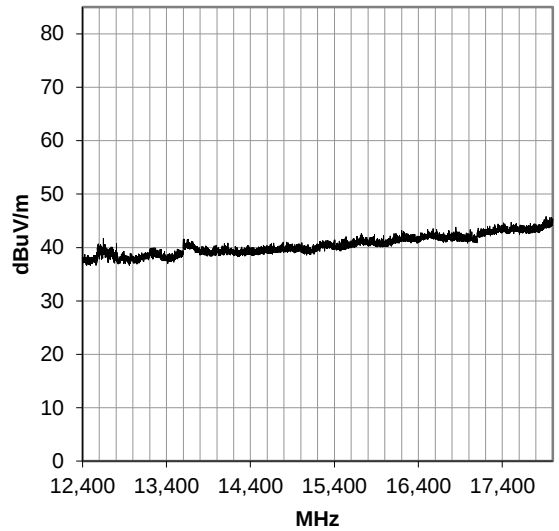


SPURIOUS RADIATED EMISSIONS

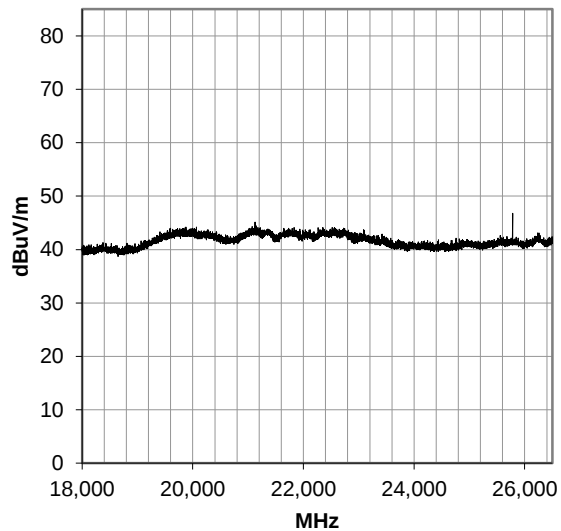
8200-12400 MHz, Run 9
Test Case 3



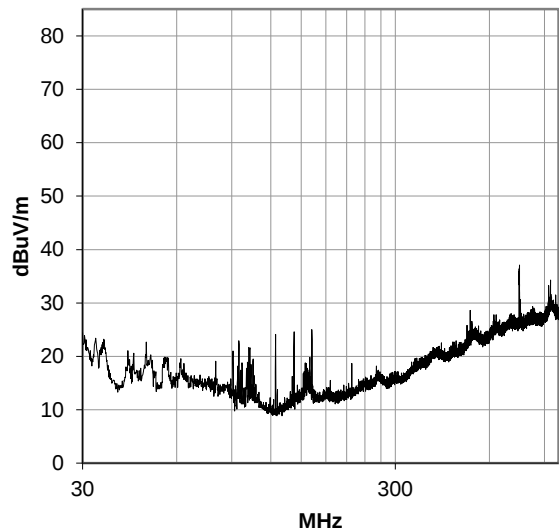
12400-18000 MHz, Run 10
Test Case 3



18000-26500 MHz, Run 29
Test Case 3

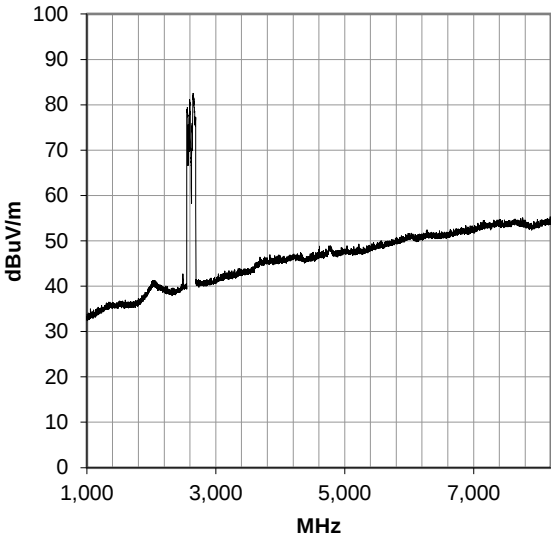


30-1000 MHz, Run 37
Test Case 3

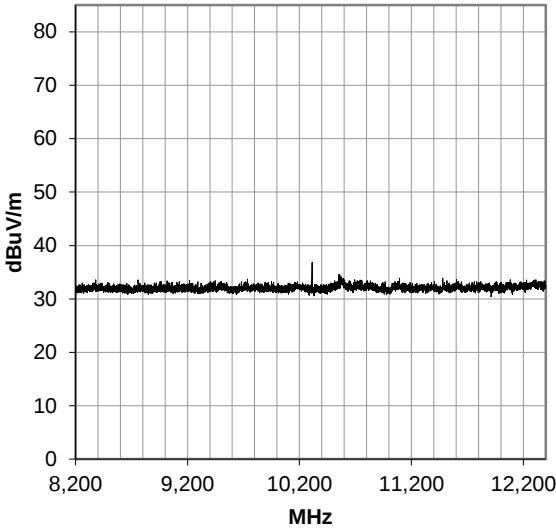


SPURIOUS RADIATED EMISSIONS

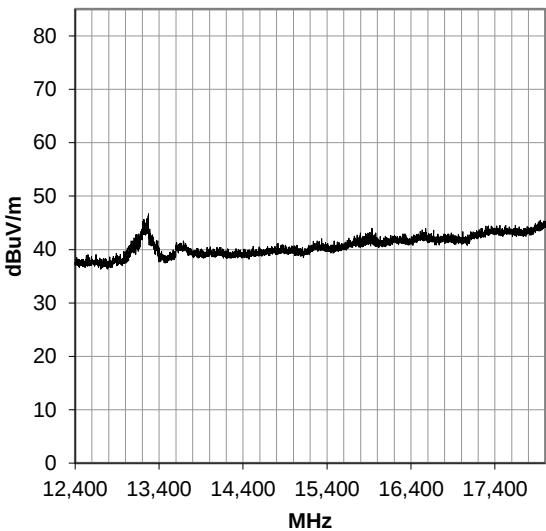
1000-8200 MHz, Run 11
Test Case 4



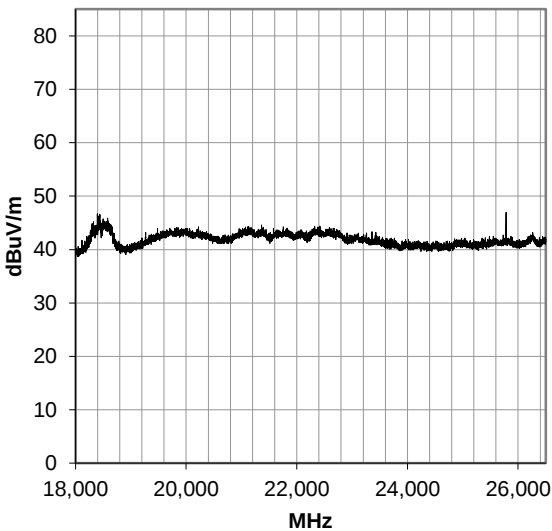
8200-12400 MHz, Run 12
Test Case 4



12400-18000 MHz, Run 13
Test Case 4

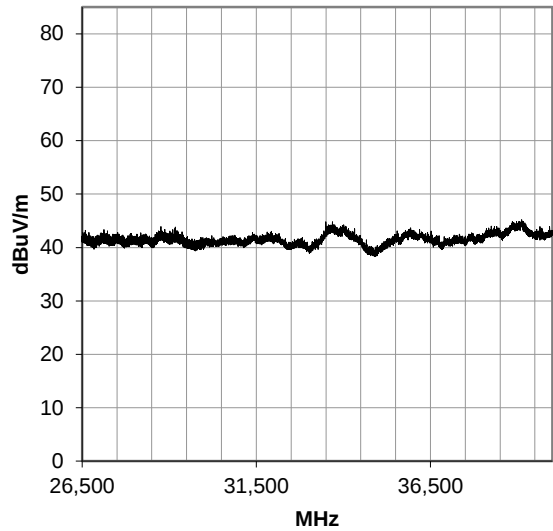


18000-26500 MHz, Run 27
Test Case 4

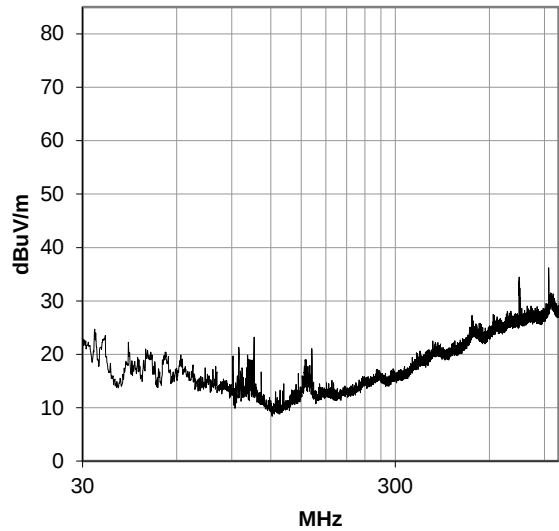


SPURIOUS RADIATED EMISSIONS

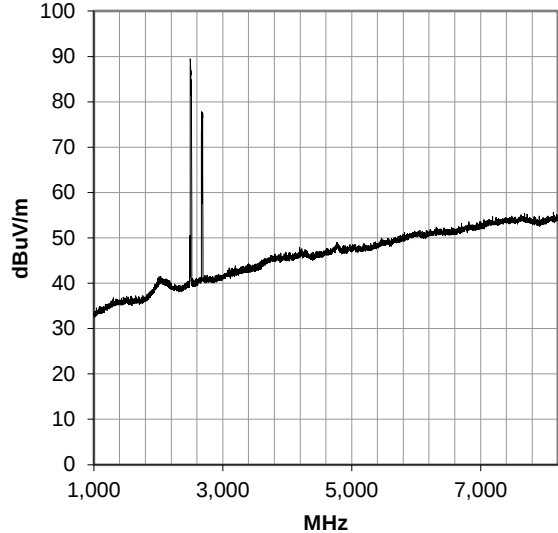
26500-40000 MHz, Run 28
Test Case 4



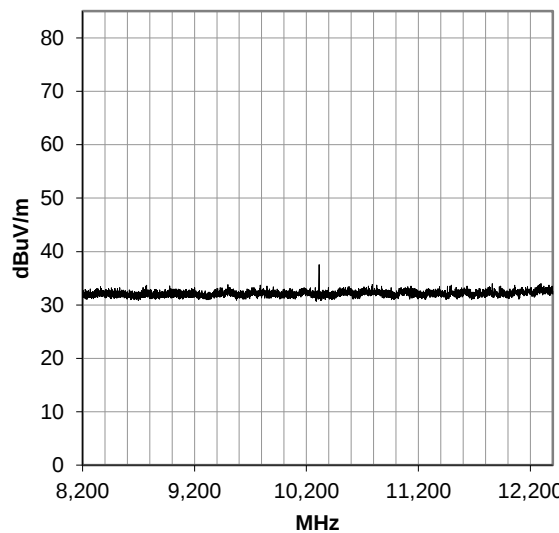
30-1000 MHz, Run 38
Test Case 4



1000-8200 MHz, Run 14
Test Case 5

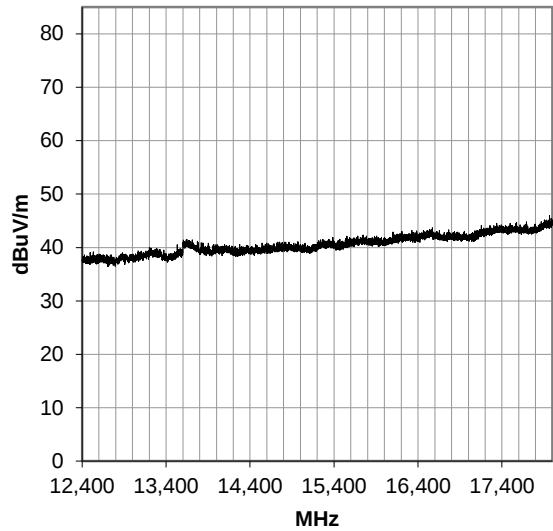


8200-12400 MHz, Run 15
Test Case 5

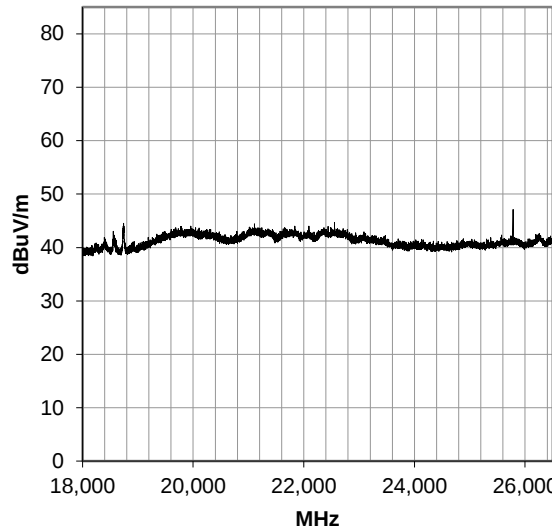


SPURIOUS RADIATED EMISSIONS

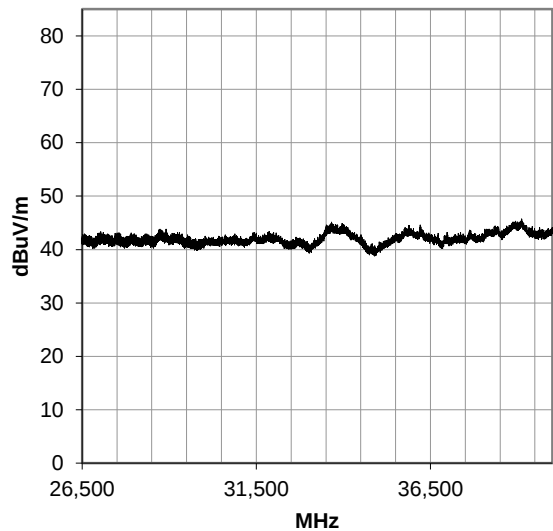
12400-18000 MHz, Run 16
Test Case 5



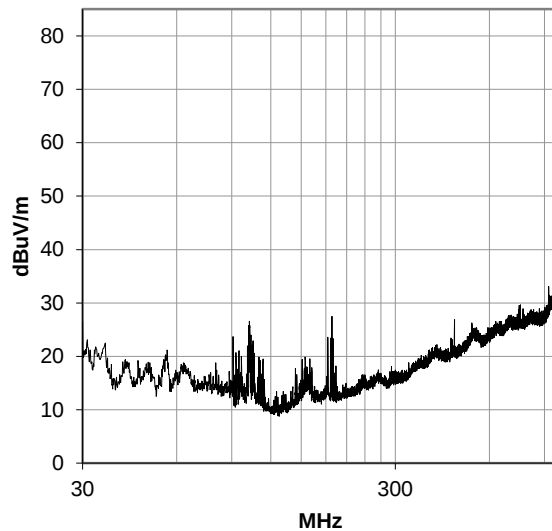
18000-26500 MHz, Run 25
Test Case 5



26500-40000 MHz, Run 26
Test Case 5

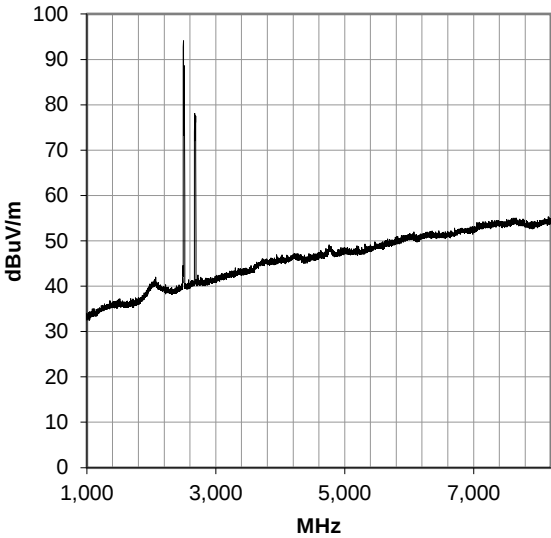


30-1000 MHz, Run 44
Test Case 5

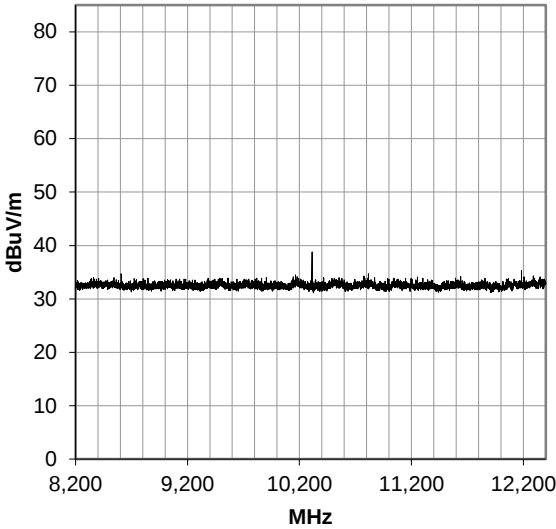


SPURIOUS RADIATED EMISSIONS

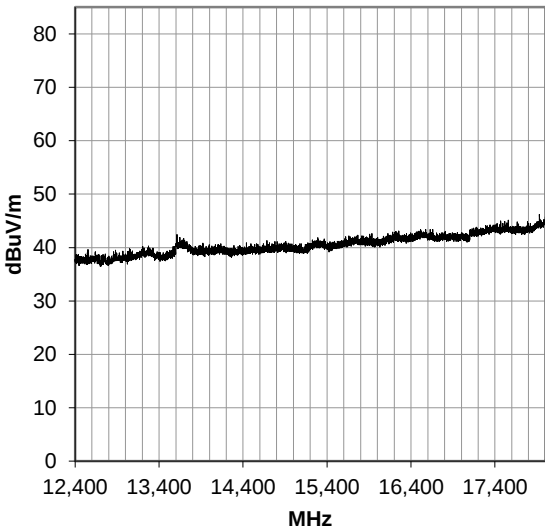
1000-8200 MHz, Run 17
Test Case 6



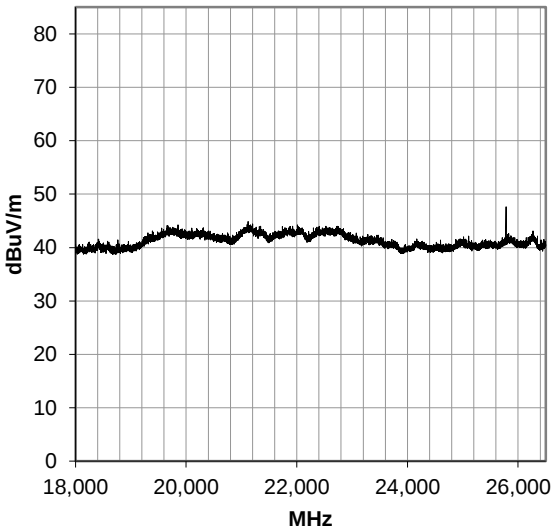
8200-12400 MHz, Run 18
Test Case 6



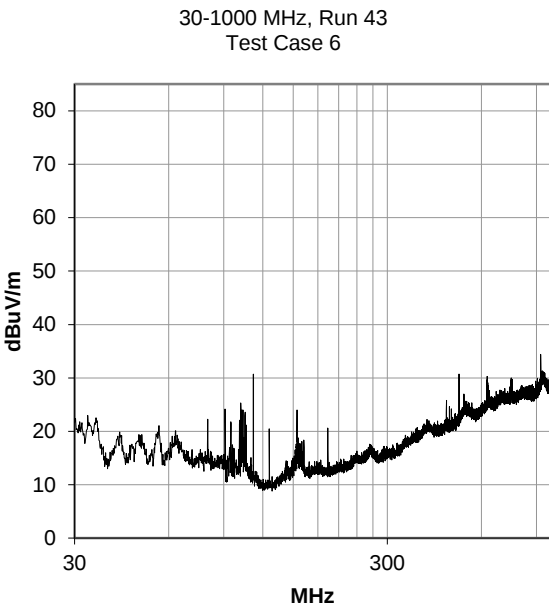
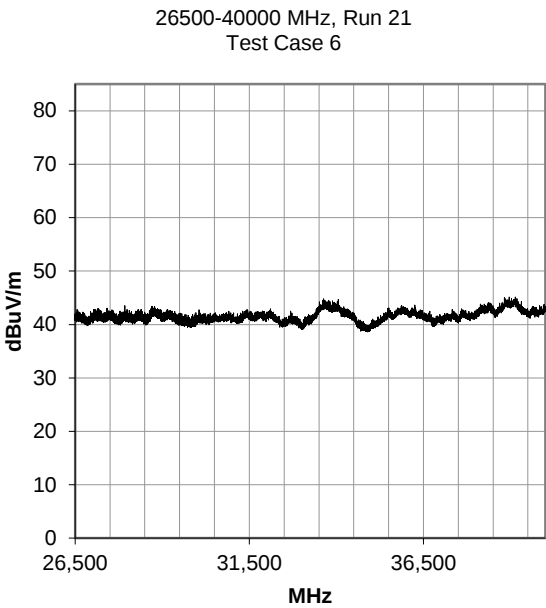
12400-18000 MHz, Run 19
Test Case 6



18000-26500 MHz, Run 20
Test Case 6



SPURIOUS RADIATED EMISSIONS



End of Test Report