



Report Number: R16238088-E17c
Issue Date: 2026-06-03
Product Name: GSM/WCDMA/LTE/NR/SCS
Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, UWB, WPT and
NFC
Model Number: SC-56G, SCG39

Electromagnetic Compatibility Test Report

For

Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea



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REPORT NO: R16238088-E17c

DATE: 2026-06-03

EUT: GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE,
DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC

MODEL: SC-56G, SCG39

Test Report Details

Tests Performed By: UL LLC
12 Laboratory Dr..
Durham, NC 27713, USA

Tests Performed For: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Issue Date: 2026-06-03

Product Name: GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB,
WPT and NFC

Model Number Tested: SC-56G, SCG39

FCC ID: A3LSMF976JPN

Sample Serial Number: ZBK0213M

Applicable Standards: FCC 47 CFR PART 15 SUBPART B: 2026
ICES-003 ISSUE 7:2020
ICES-Gen, ISSUE 2: 2024
ANSI C63.4-2014

Date Test Item Received: 2026-02-24, 2026-03-03, 2026-03-09, 2026-03-10, 2026-03-17

Testing Start Date: 2026-03-04

Date Testing Complete: 2026-03-18

Overall Results: **COMPLIANT**

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

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REPORT NO: R16238088-E17c

DATE: 2026-06-03

EUT: GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE,
DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC

MODEL: SC-56G, SCG39

Report Revision History

Revision Date	Revision Version	Description	Revised By	Revision Reviewed By
2026-05-12	V1	Initial Issue	Chandler Stanley	Jeff Moser
2026-05-26	V2	Revised to show only JPN supported bands	B. Kiewra	Jeff Moser
2026-06-03	V3	Added SCS to EUT description	B. Kiewra	Jeff Moser

1.0 SUMMARY

All tests were performed in accordance with ANSI C63.4:2014, ICES-003 ISSUE 7:2020, and ICES-Gen ISSUE 2: 2024.

1.1 Deviations from standard test methods

None

1.2 Device Modifications Necessary for Compliance

None

1.3 Applicable Standards

Standard
FCC 47 CFR PART 15 SUBPART B: 2026
ICES-003 ISSUE 7: 2020
ICES-Gen ISSUE 2: 2024
ANSI C63.4-2014

1.4 Summary of Tests

This product is considered Class B

Requirement – Test	Result (Compliant / Non-Compliant)
CONDUCTED EMISSIONS	Compliant
RADIATED EMISSIONS	

Approved & Released For

UL LLC. By:



Jeff Moser
Operations Manager
Consumer, Medical, and IT Segment
UL LLC.

Prepared By:



Chandler Stanley
Engineer Project Associate
Consumer, Medical, and IT Segment
UL LLC.

2.0 DECISION RULES AND MEASUREMENT UNCERTAINTY

2.1 Metrological Traceability

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

2.2 Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{lab}
Worst Case Conducted Disturbance, 0.15 to 30 MHz	± 3 dB
Worst Case Radiated Disturbance, All ranges	± 6 dB

Uncertainty figures are valid to a confidence level of 95%.

2.4 Sample Calculation

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

3.0 GENERAL - Product Description

3.1 Equipment Description

The EUT is a GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC.

This report applies data referencing from FCC ID: A3LSMF976U. The test data to validate data referencing is included in Test Report R16238088-E28.

3.2 Equipment Marking Plate

N/A

3.3 Device Configuration During Test

3.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC	Samsung	SC-56G, SCG39	None
AE	Power Adapter	Sony	XQZ-UC11-010-236-21	Used to Power EUT

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

3.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	N/A	N/A	EUT Housing
1	Charging Cable	DC	N	Y	EUT to Power Adapter
*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

3.3.3 EUT Internal Operating Frequencies:

Frequency (MHz)	Description
7987.2	Highest internal frequency.

3.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	5 VDC	1	-	DC	-	None
1	5 VDC	1	-	DC	-	Phone

3.3.5 Subassemblies

Description	Manufacturer	Model
None		

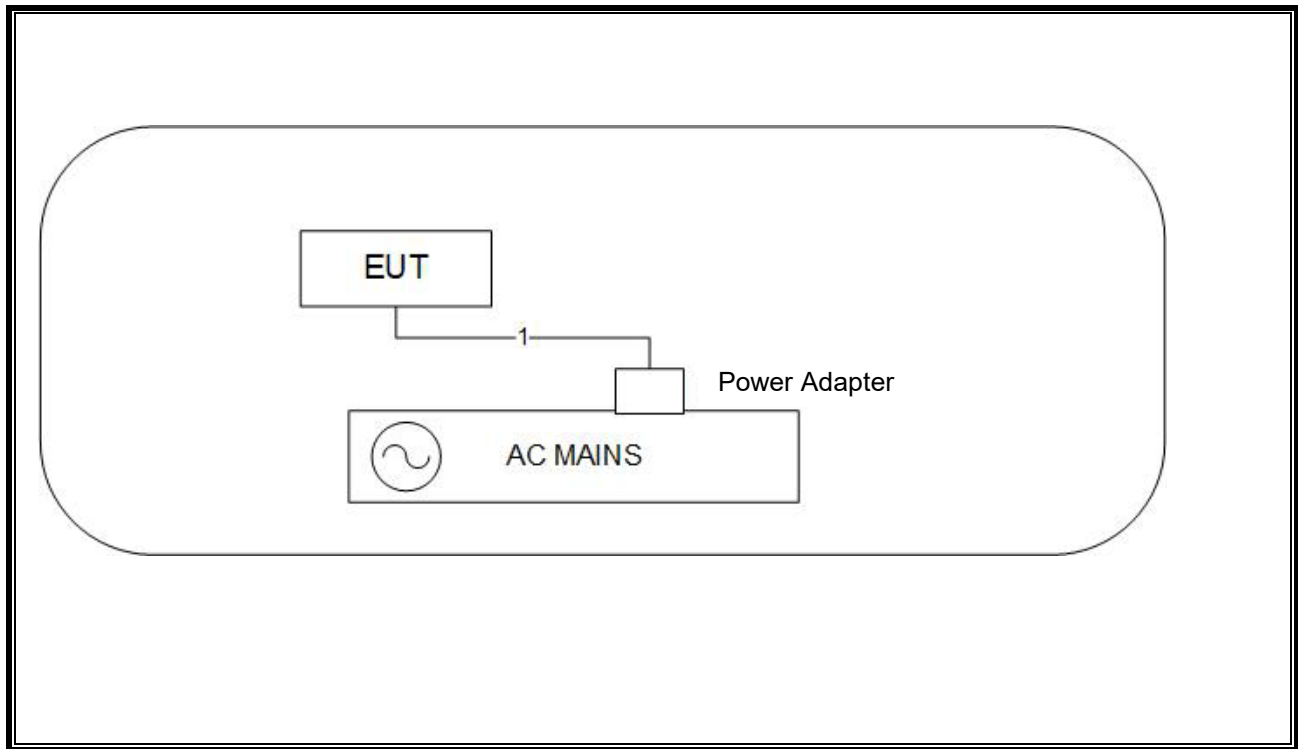
3.3.6 Manufacturer's Description of Model Differences

This report covers 2 models, the model differences and the representative model is shown below:

Representative Model	Difference	Derivative Model
		SCG39
SC-56G	Hardware	Same as SC-56G
	Software	Different UI

3.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



3.5 EUT Configurations

Configuration #	Description
1	The EUT is tested as tabletop equipment and connected to power for charging.

3.6 EUT Operation Modes

Mode of Operation#	Description
1	The EUT is connected to power for charging and the radios are left in an idle state.
2	The EUT is powered on and configured to run as intended. Its WWAN radios are set to Rx mode. The EUT supports below 1GHz bands LTE B5, LTE B12, LTE B13, GSM850, WCDMA850. Band 12, 13, and 5 were tested to represent all applicable supported bands (30-960 MHz).

3.7 Rationale for EUT Configurations

Configuration #	Description
1	The EUT can open 180 degrees. Fully closed, fully opened 180 degrees, and open 90 degrees were investigated and it was found that open 90 degrees was worst case; therefore all final radiated testing was performed with the device opened 90 degrees. The EUT was investigated in three orthogonal orientations: X, Y, and Z. Through pretesting, it was determined that the Y-orientation was worst-case; therefore, all testing was performed with the EUT in the Y-orientation. The selected EUT configurations was chosen to maximize emissions.

3.8 Rationale for EUT Mode of Operation

Mode of Operation #	Description
1	This report covers unintentional emissions. Therefore, testing was performed with the radio idle.
2	This report covers unintentional emissions. Therefore, testing was performed with the WWAN radios set to receive. The below 1GHz supported bands are: LTE B26, LTE B5, LTE B12, LTE B13, GSM850, WCDMA850. Band 12, 13, and 5 were tested to represent all applicable supported bands (30-960 MHz).

4.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

Test Standards	ANSI C63.4-2014 ICES-003 ISSUE 7: 2020 ICES-GEN ISSUE 2: 2024	
Test Engineer	11993	
Test Date	2026-03-18	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10-40°C	23.8 °C
Humidity	10% - 90%	24.0%
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits – Class B		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

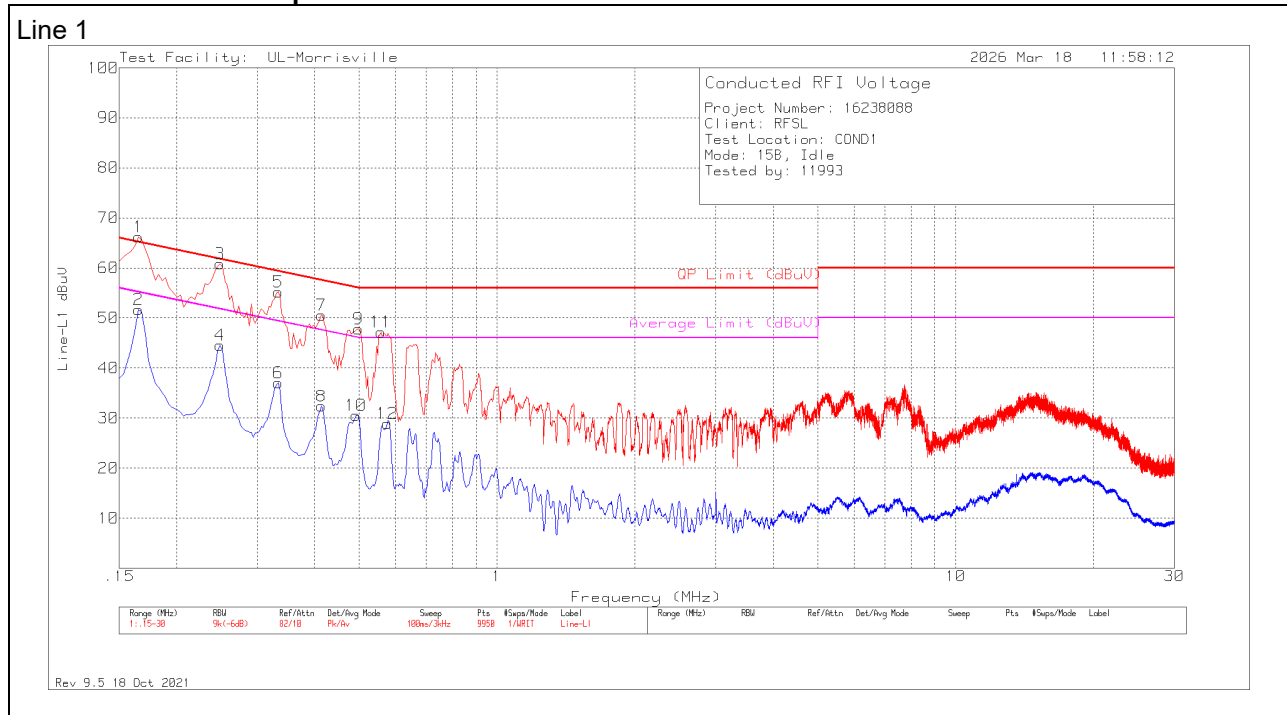
Conducted Emissions EUT Configuration Settings

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1
Supplementary information: None		

Conducted Emissions Test Equipment

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2025-04-17	2026-04-17
179892	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2026-08-05
80391	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2025-09-29	2026-09-29
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2025-07-30	2026-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2025-07-30	2026-07-30
PS214	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Miscellaneous (if needed)					
84681	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2025-04-17	2026-04-17

Results**Conducted Emissions Graph****Conducted Emissions Data Points**

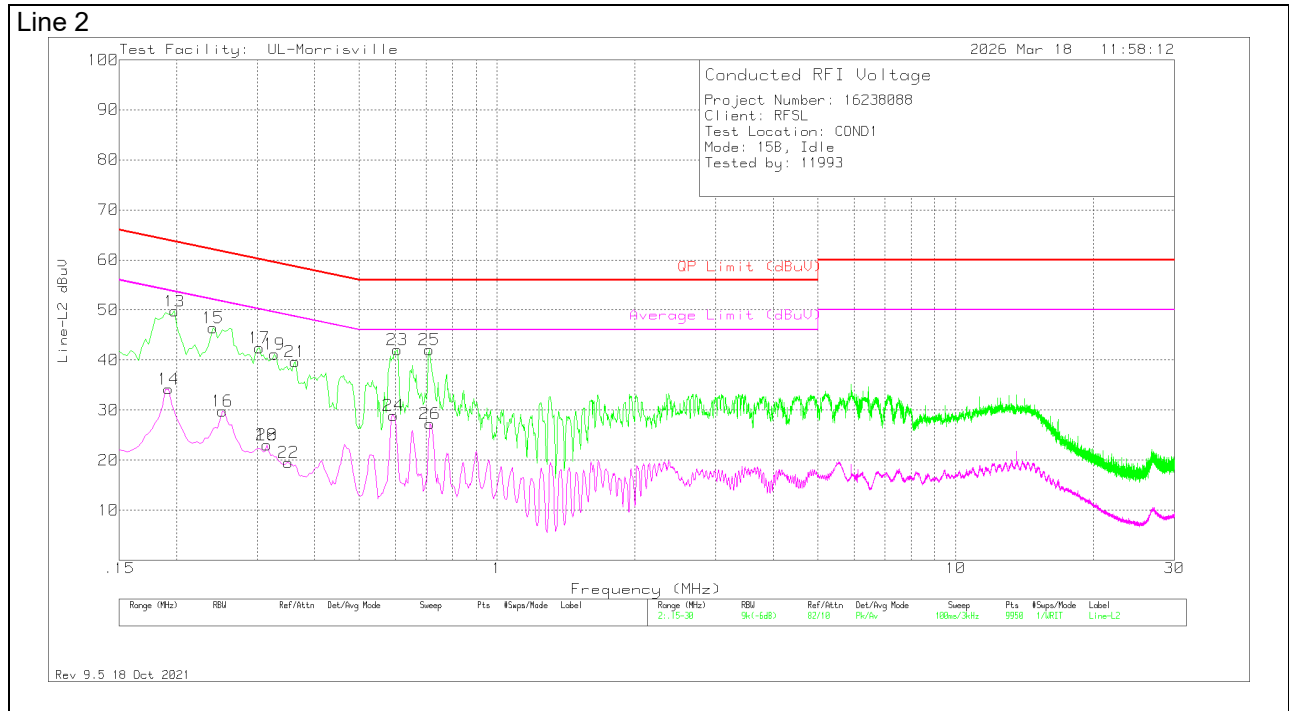
Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBUV	QP Limit (dBUV)	Margin (dB)	Average Limit (dBUV)	Margin (dB)
1	.16406	28.91	Qp	.2	9.7	38.81	65.26	-26.45	-	-
2	.1665	15.31	Ca	.2	9.7	25.21	-	-	55.13	-29.92
3	.24223	27.67	Qp	.1	9.7	37.47	62.02	-24.55	-	-
4	.249	34.78	Av	.1	9.7	44.58	-	-	51.79	-7.21
5	.33469	23.06	Qp	.1	9.7	32.86	59.33	-26.47	-	-
6	.333	27.26	Av	.1	9.7	37.06	-	-	49.38	-12.32
7	.414	40.86	Pk	0	9.7	50.56	57.57	-7.01	-	-
8	.414	22.66	Av	0	9.7	32.36	-	-	47.57	-15.21
10	.492	20.83	Av	0	9.7	30.53	-	-	46.13	-15.6
9	.498	38.12	Pk	0	9.7	47.82	56.03	-8.21	-	-
11	.558	37.45	Pk	0	9.7	47.15	56	-8.85	-	-
12	.576	19.18	Av	0	9.7	28.88	-	-	46	-17.12

Pk - Peak detector

Av - Average detection

Qp - Quasi-Peak detector

Ca - CISPR average detection

Conducted Emissions Graph**Conducted Emissions Data Points**

Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
14	.192	24.32	Av	.2	9.7	34.22	-	-	53.95	-19.73
13	.198	39.95	Pk	.1	9.7	49.75	63.69	-13.94	-	-
15	.24	36.64	Pk	.1	9.7	46.44	62.1	-15.66	-	-
16	.252	19.96	Av	.1	9.7	29.76	-	-	51.69	-21.93
17	.303	32.6	Pk	.1	9.7	42.4	60.16	-17.76	-	-
18	.315	13.25	Av	.1	9.7	23.05	-	-	49.84	-26.79
20	.315	13.25	Av	.1	9.7	23.05	-	-	49.84	-26.79
19	.327	31.36	Pk	.1	9.7	41.16	59.53	-18.37	-	-
22	.351	9.73	Av	.1	9.7	19.53	-	-	48.94	-29.41
21	.363	29.87	Pk	.1	9.7	39.67	58.66	-18.99	-	-
24	.594	19.23	Av	0	9.7	28.93	-	-	46	-17.07
23	.606	32.39	Pk	0	9.7	42.09	56	-13.91	-	-
25	.711	32.36	Pk	0	9.7	42.06	56	-13.94	-	-
26	.714	17.56	Av	0	9.7	27.26	-	-	46	-18.74

Pk - Peak detector

Av - Average detection

5.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

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5.1 Test Conditions and Results - RADIATED EMISSIONS

Test Description	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Test Standards	ANSI C63.4-2014 ICES-003 ISSUE 7: 2020 ICES-GEN ISSUE 2: 2024	
Test Engineer	85501, 115620/11993, 115749/11993	
Date Tested	2026-03-04 and 2026-03-18	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10-40°C	22.6-24.0 °C
Humidity	10% to 90%	18.9-43.6%
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30 MHz to 40 GHz	3 m
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
FCC Limits for radiated disturbance of Class B ITE at measuring distance of 3 m		
30-88	40	NA
88-216	43.5	NA
216-230	46	NA
230-960	46 (FCC) / 47 (ICES)	NA
Above 960	54	NA
	Peak	Average
Above 1 GHz	74	54
Supplementary information: FCC limits used as worst-case		

Radiated Emissions EUT Configuration Settings

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1, 2
Supplementary information: None		

Radiated Emissions Test Equipment

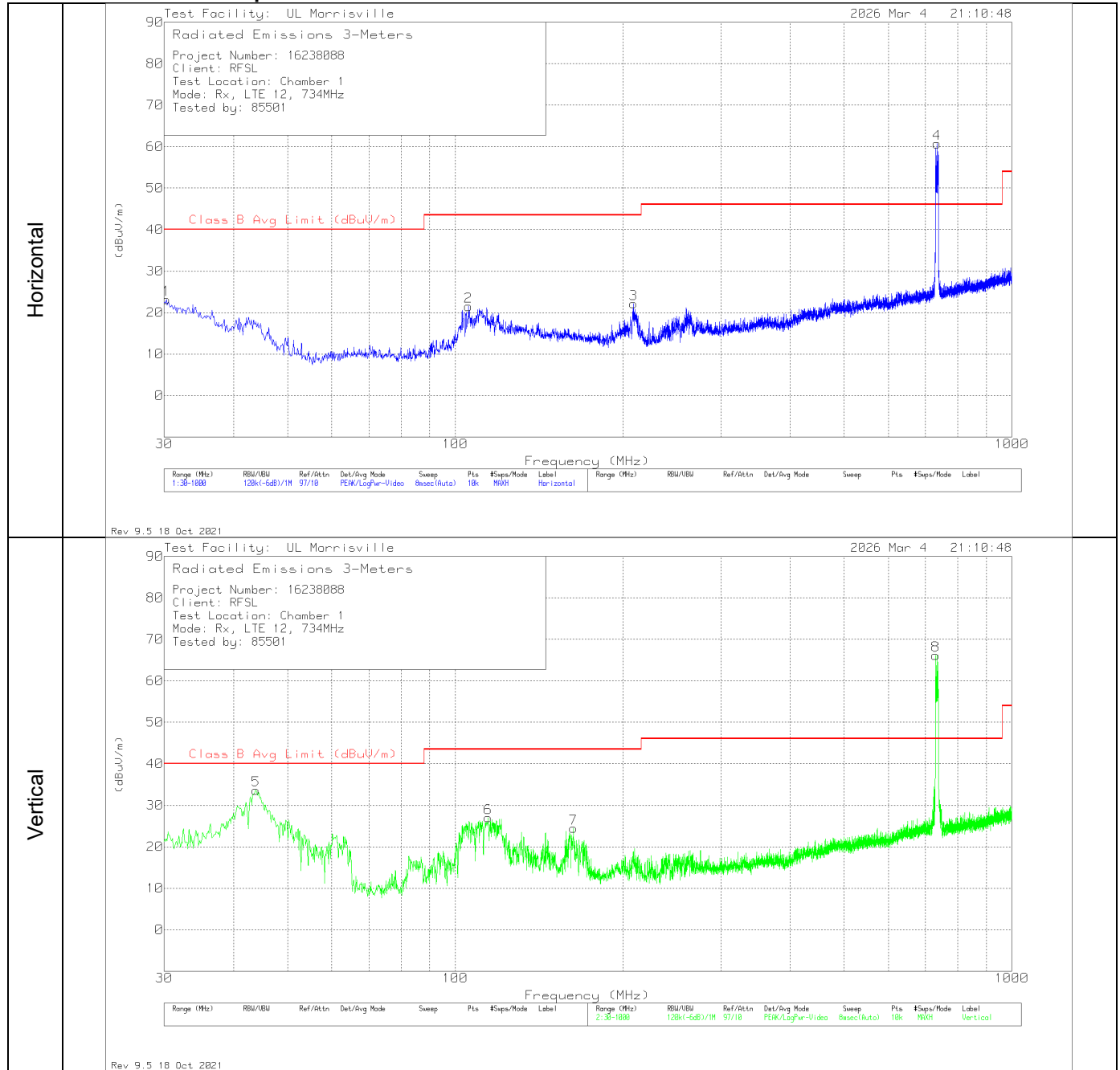
Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
159203	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-03-05	2026-03-05
18-40 GHz					
91186	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2024-05-16	2026-05-16
91187	Horn Antenna, 26-40GHz	ARA	MWH-2640/B	2024-05-17	2026-05-17
Gain-Loss Chains					
91976	Gain-loss string: 25-1000MHz	Various	Various	2025-05-31	2026-05-31
135999	Gain-loss string: 18-40GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
90411	Spectrum Analyzer	Keysight	N9030A	2025-07-30	2026-07-30
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

Note: All equipment was in calibration at the time of tests.

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
1-18 GHz					
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-07-15	2027-07-15
Gain-Loss Chains					
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
239540	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

RADIATED EMISSIONS 30 TO 1000 MHz (Config 1, Mode 2)**Radiated Emissions Graph LTE B12 734 MHz**

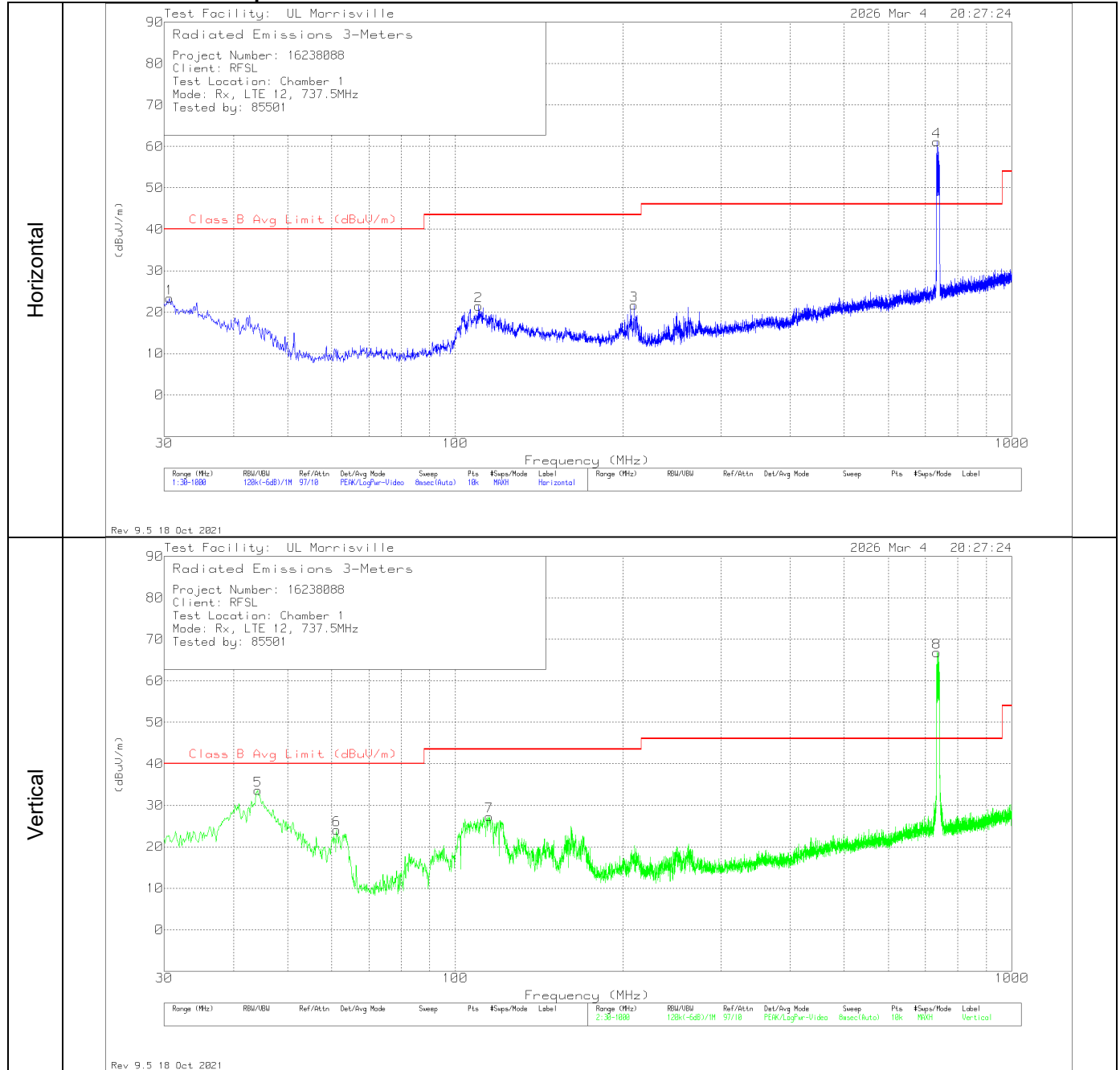
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Class B Avg Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	27.23	Pk	27.2	-31.3	23.13	40	-16.87	0-360	299	H
5	43.871	47.45	Pk	17.5	-31.3	33.65	40	-6.35	0-360	100	V
2	105.66	34.08	Pk	18.2	-30.8	21.48	43.52	-22.04	0-360	299	H
6	114.681	37.61	Pk	19.8	-30.4	27.01	43.52	-16.51	0-360	100	V
7	163.084	35.93	Pk	18.6	-30.1	24.43	43.52	-19.09	0-360	100	V
3	209.256	34.92	Pk	16.9	-29.7	22.12	43.52	-21.4	0-360	100	H
8 (DL)	729.952	67.36	Pk	27.1	-28.3	66.16	-	-	0-360	100	V
4 (DL)	733.638	61.11	Pk	27.1	-27.5	60.71	-	-	0-360	200	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B12 737.5 MHz



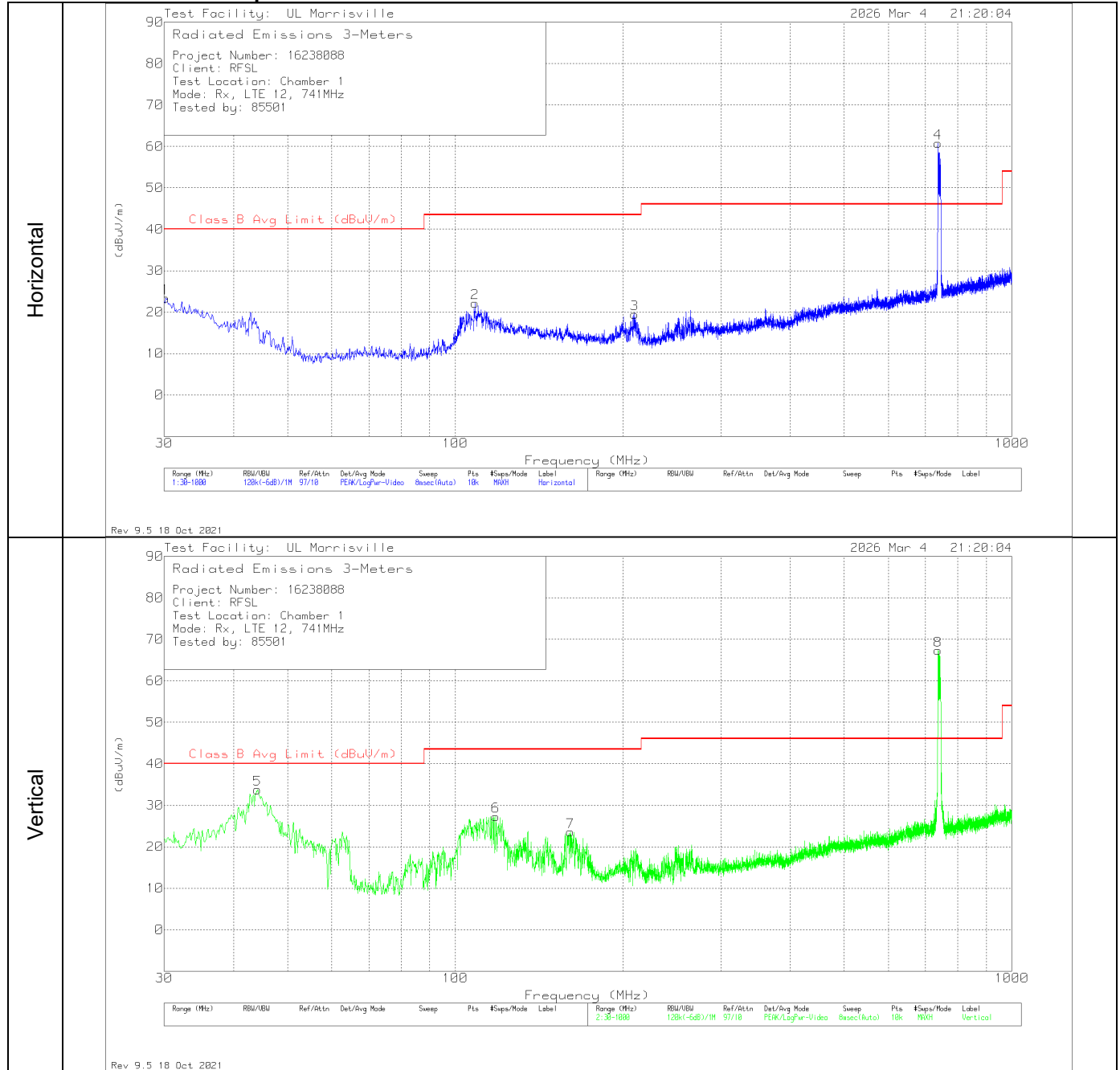
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Class B Avg Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.679	27.75	Pk	26.9	-31.3	23.35	40	-16.65	0-360	100	H
5	44.259	47.78	Pk	17.2	-31.4	33.58	40	-6.42	0-360	100	V
6	61.234	41.54	Pk	14.1	-31.6	24.04	40	-15.96	0-360	100	V
2	110.219	33.09	Pk	19	-30.6	21.49	43.52	-22.03	0-360	300	H
7	115.069	37.62	Pk	19.8	-30.1	27.32	43.52	-16.2	0-360	100	V
3	209.547	34.45	Pk	16.9	-29.7	21.65	43.52	-21.87	0-360	100	H
4 (DL)	733.347	61.75	Pk	27.1	-27.7	61.15	-	-	0-360	200	H
8 (DL)	733.347	67.41	Pk	27.1	-27.7	66.81	-	-	0-360	100	V

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B12 741 MHz



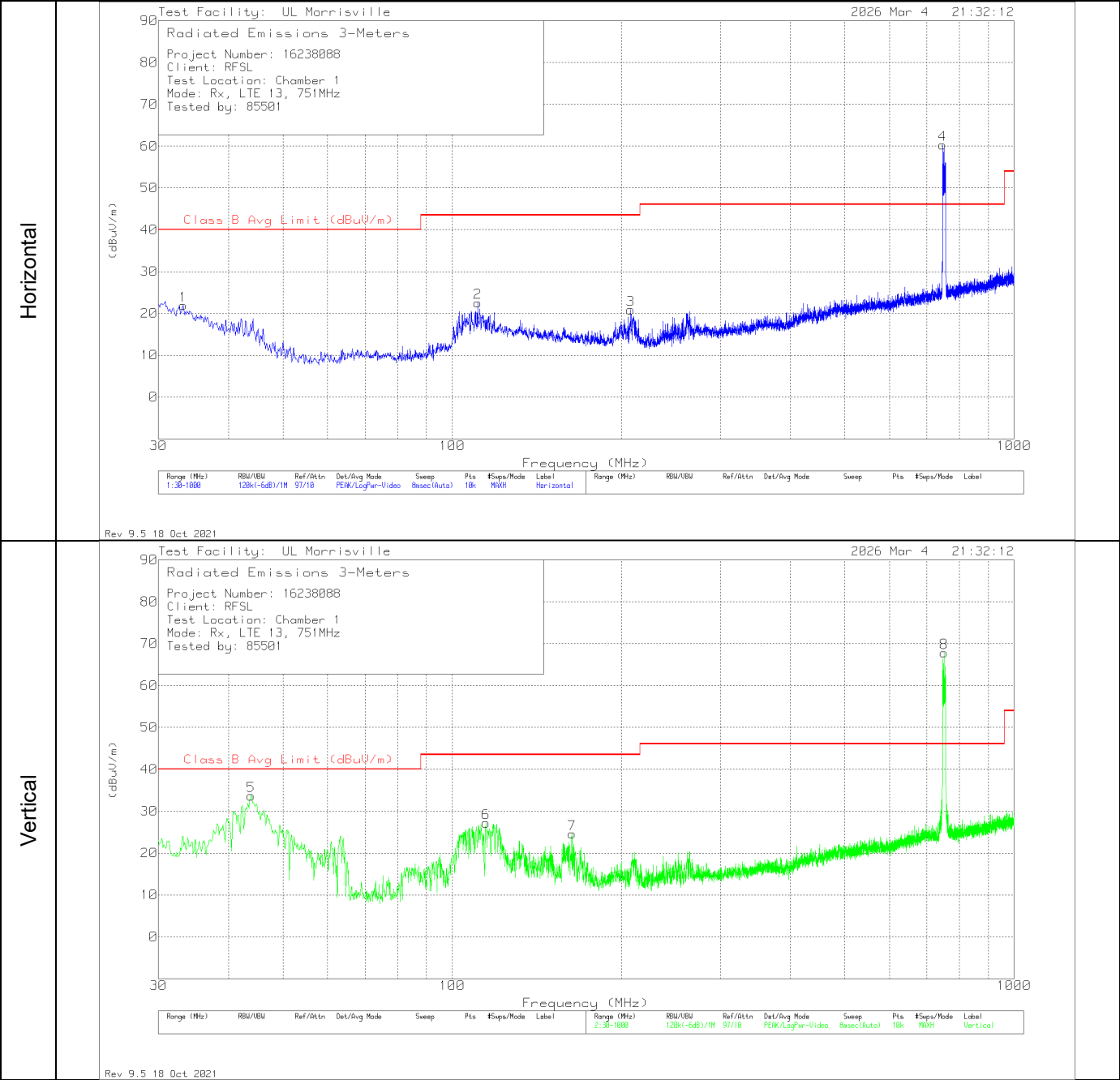
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.194	27.5	Pk	27.3	-31.4	23.4	40	-16.6	0-360	100	H
5	44.162	47.78	Pk	17.3	-31.3	33.78	40	-6.22	0-360	100	V
2	108.57	33.69	Pk	18.8	-30.3	22.19	43.52	-21.33	0-360	399	H
6	118.27	37.92	Pk	20	-30.6	27.32	43.52	-16.2	0-360	100	V
7	161.241	35.19	Pk	18.7	-30.3	23.59	43.52	-19.93	0-360	100	V
3	210.032	32.51	Pk	16.9	-29.9	19.51	43.52	-24.01	0-360	100	H
8 (DL)	736.742	67.31	Pk	27.2	-27.2	67.31	-	-	0-360	100	V
4 (DL)	736.839	60.89	Pk	27.2	-27.3	60.79	-	-	0-360	199	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B13 751 MHz



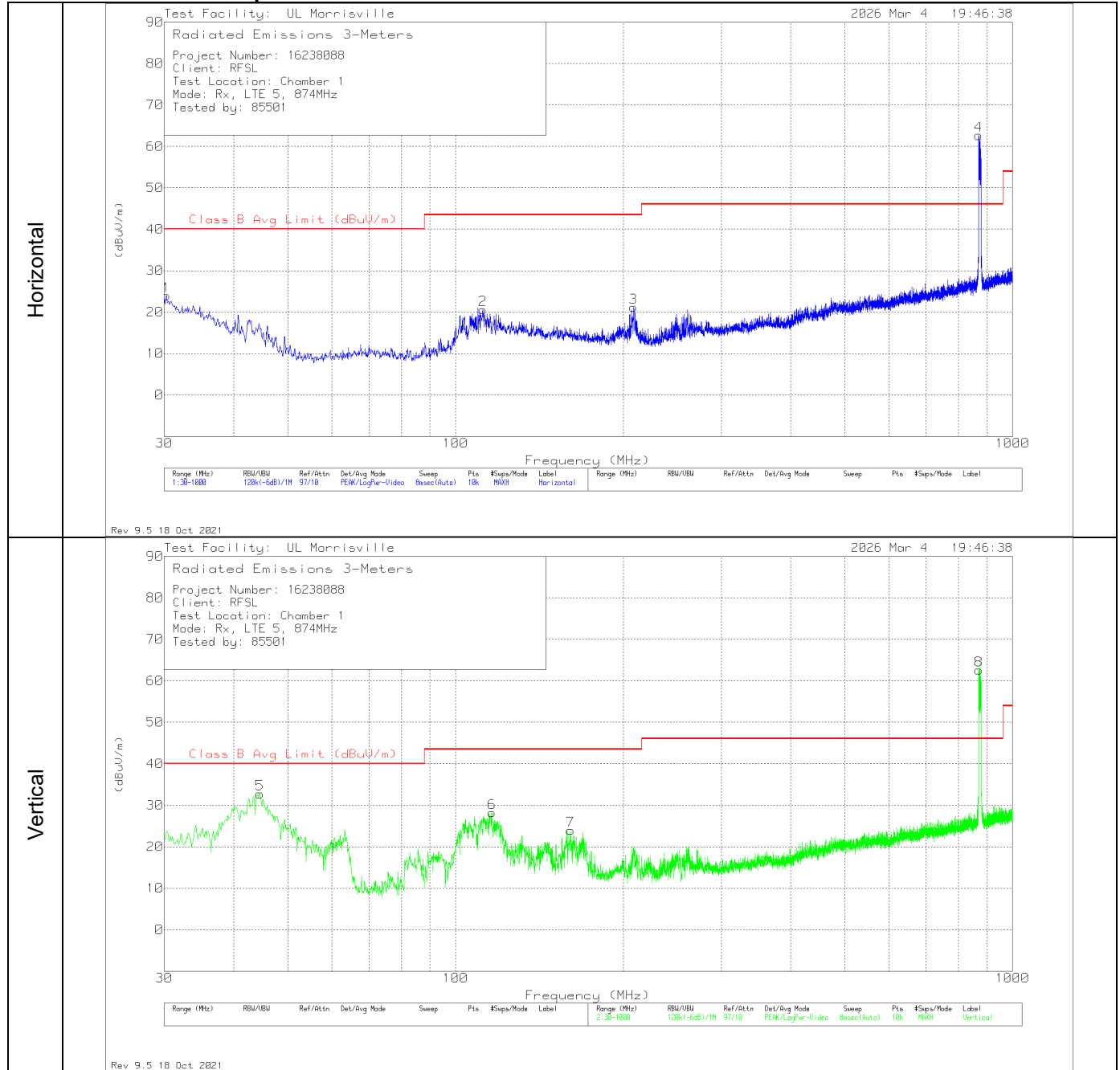
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.201	28.29	Pk	25.3	-31.7	21.89	40	-18.11	0-360	299	H
5	43.871	47.47	Pk	17.5	-31.3	33.67	40	-6.33	0-360	100	V
2	111.092	33.86	Pk	19.2	-30.5	22.56	43.52	-20.96	0-360	299	H
6	114.875	37.7	Pk	19.8	-30.3	27.2	43.52	-16.32	0-360	100	V
7	163.375	35.88	Pk	18.6	-29.9	24.58	43.52	-18.94	0-360	100	V
3	207.8495	34.08	Pk	17	-30.2	20.88	43.52	-22.64	0-360	99	H
4 (DL)	746.636	60.82	Pk	27.2	-27.7	60.32	-	-	0-360	200	H
8 (DL)	751.195	67.83	Pk	27.3	-27.3	67.83	-	-	0-360	100	V

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B5 874 MHz



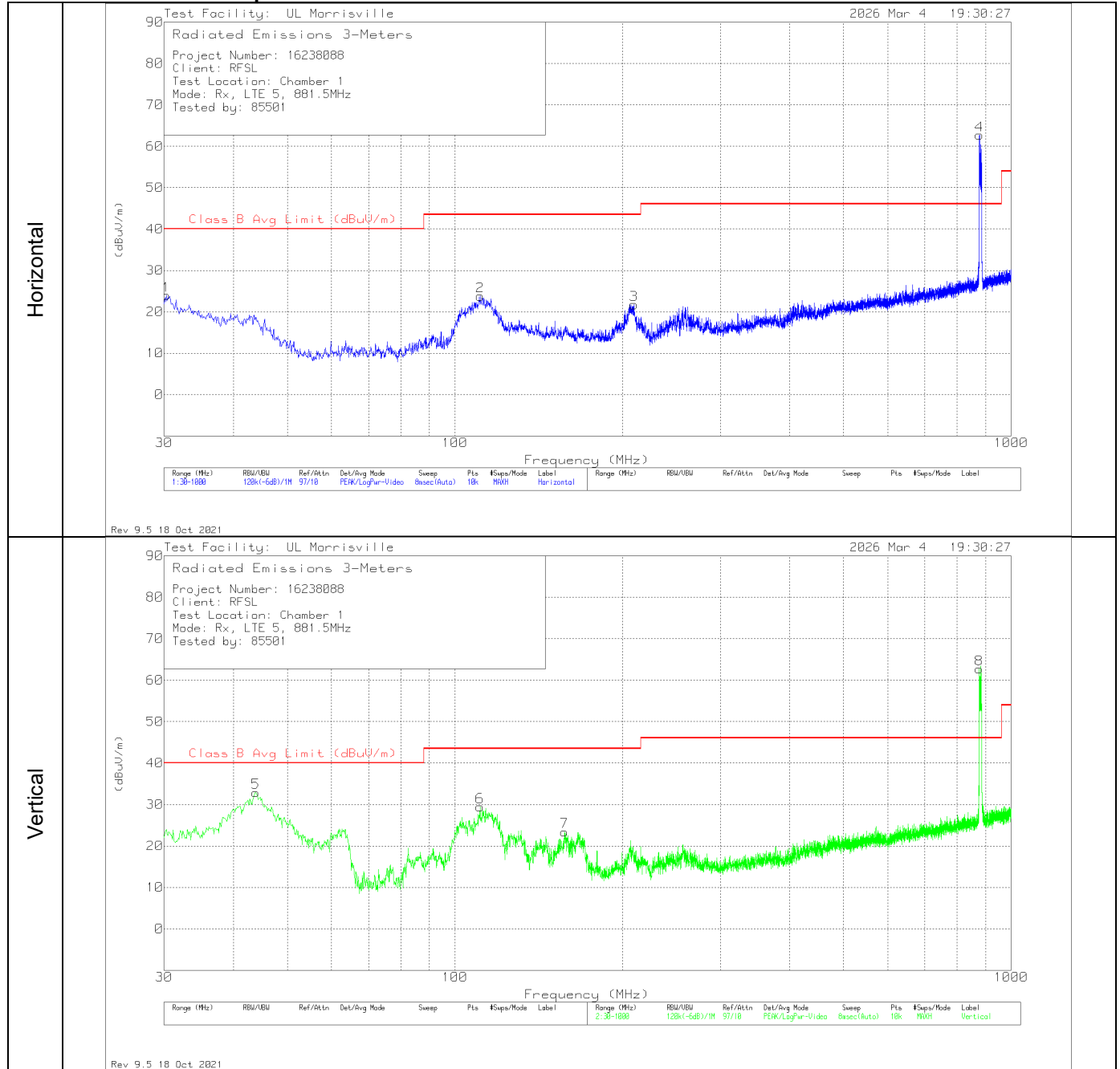
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	28.05	Pk	27.2	-31.3	23.95	40	-16.05	0-360	299	H
5	44.55	47.25	Pk	17	-31.5	32.75	40	-7.25	0-360	100	V
2	111.965	31.77	Pk	19.4	-30.6	20.57	43.52	-22.95	0-360	299	H
6	116.233	39.2	Pk	19.9	-30.9	28.2	43.52	-15.32	0-360	100	V
7	160.95	35.55	Pk	18.7	-30.3	23.95	43.52	-19.57	0-360	100	V
3	208.771	34.25	Pk	16.9	-30	21.15	43.52	-22.37	0-360	100	H
4 (DL)	869.729	61.16	Pk	28.5	-27	62.66	-	-	0-360	100	H
8 (DL)	870.02	61.06	Pk	28.5	-27	62.56	-	-	0-360	100	V

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B5 881.5 MHz



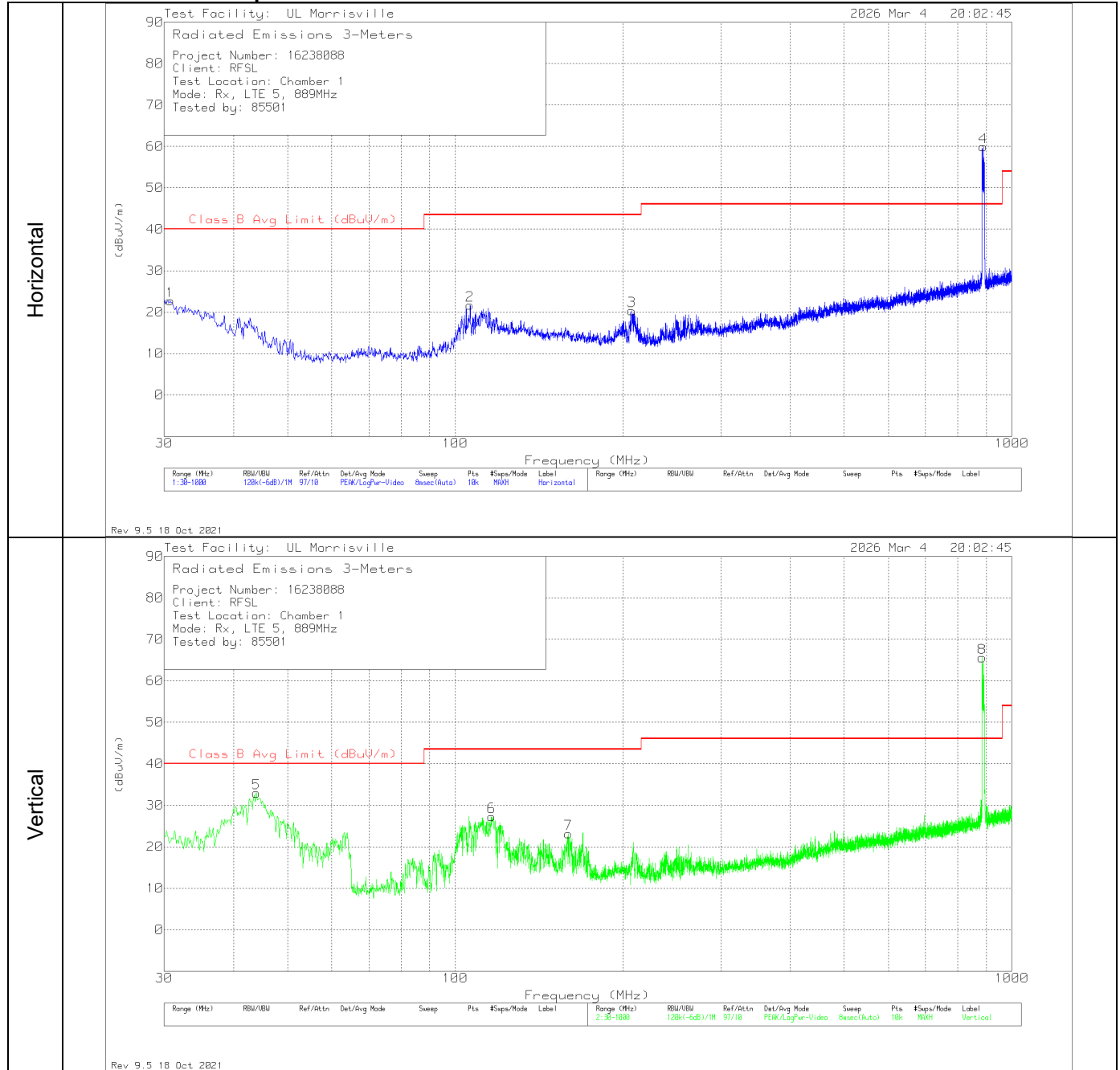
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	28.06	Pk	27.2	-31.3	23.96	40	-16.04	0-360	100	H
5	43.871	46.7	Pk	17.5	-31.3	32.9	40	-7.1	0-360	100	V
6	110.995	40.66	Pk	19.2	-30.4	29.46	43.52	-14.06	0-360	100	V
2	111.092	35.1	Pk	19.2	-30.5	23.8	43.52	-19.72	0-360	299	H
7	157.458	34.61	Pk	18.8	-30	23.41	43.52	-20.11	0-360	100	V
3	209.838	34.63	Pk	16.9	-29.8	21.73	43.52	-21.79	0-360	200	H
8 (DL)	877.198	61.29	Pk	28.5	-27.1	62.69	-	-	0-360	100	V
4 (DL)	877.392	61.38	Pk	28.5	-27.2	62.68	-	-	0-360	100	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B5 889 MHz

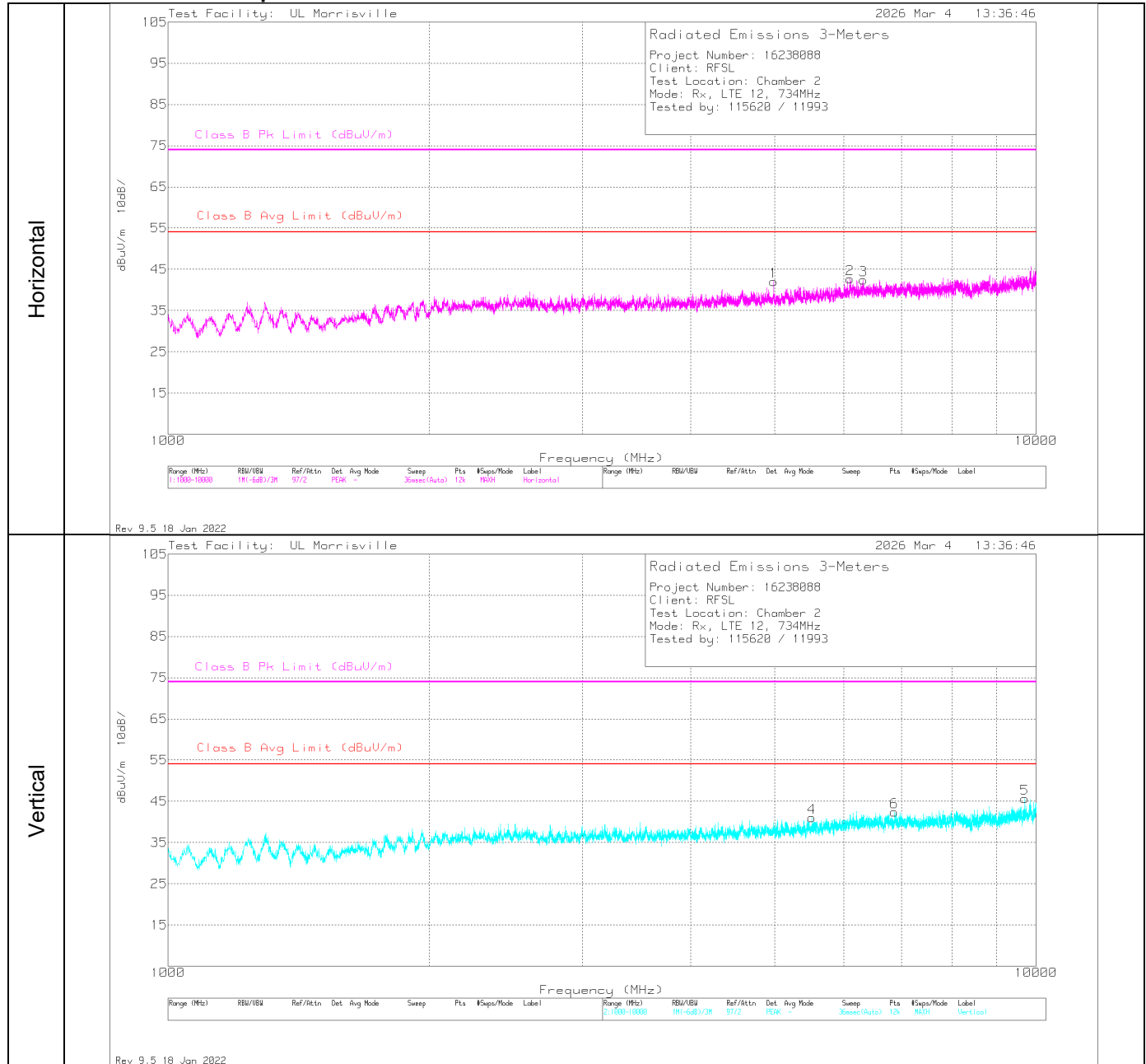


Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	159203 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.776	27.23	Pk	26.9	-31.4	22.73	40	-17.27	0-360	299	H
5	43.968	46.84	Pk	17.4	-31.3	32.94	40	-7.06	0-360	100	V
2	106.339	33.68	Pk	18.4	-30.4	21.68	43.52	-21.84	0-360	299	H
6	116.233	38.28	Pk	19.9	-30.9	27.28	43.52	-16.24	0-360	100	V
7	159.786	34.73	Pk	18.7	-30.3	23.13	43.52	-20.39	0-360	100	V
3	207.607	33.46	Pk	17	-30.1	20.36	43.52	-23.16	0-360	100	H
8 (DL)	884.667	63.59	Pk	28.7	-26.7	65.59	-	-	0-360	100	V
4 (DL)	888.644	58.1	Pk	28.8	-27	59.9	-	-	0-360	299	H

Pk - Peak detector

DL - Downlink

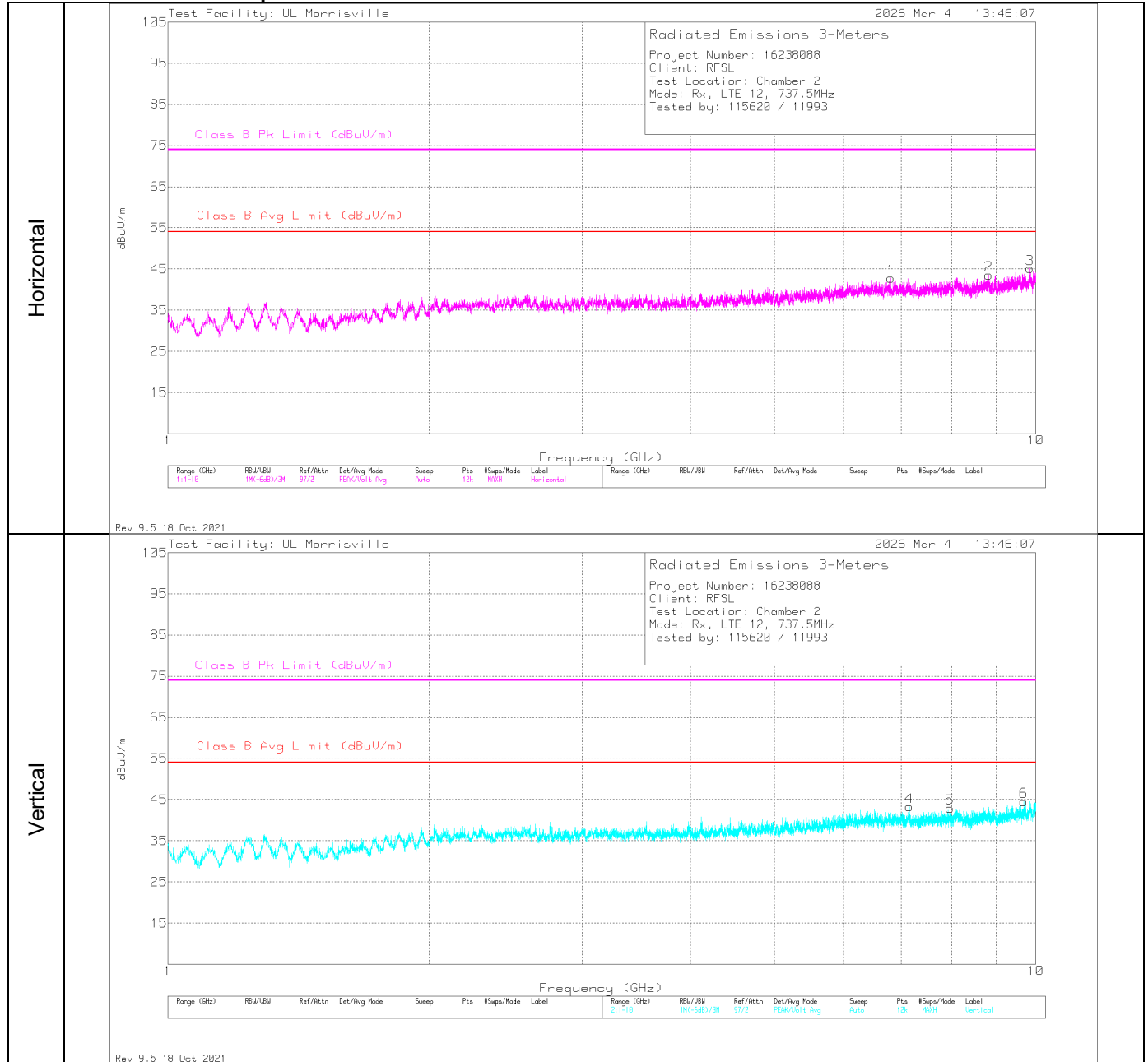
RADIATED EMISSIONS 1000 TO 10,000 MHz (Config 1, Mode 2)**Radiated Emissions Graph LTE B12 734 MHz**

Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBUV/m	Class B Avg Limit (dBUV/m)	Margin (dB)	Class B Pk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4983.25	52.42	Pk	34.1	-44.5	42.02	54	-11.98	74	-31.98	0-360	199	H
4	5513.5	51.58	Pk	34.6	-45.1	41.08	54	-12.92	74	-32.92	0-360	199	V
2	6106.75	50.71	Pk	35.6	-43.6	42.71	54	-11.29	74	-31.29	0-360	101	H
3	6325	49.87	Pk	35.7	-43.1	42.47	54	-11.53	74	-31.53	0-360	199	H
6	6862.75	49.56	Pk	35.6	-42.7	42.46	54	-11.54	74	-31.54	0-360	199	V
5	9703.75	50.23	Pk	36.9	-41.5	45.63	54	-8.37	74	-28.37	0-360	199	V

Pk - Peak detector

Radiated Emissions Graph LTE B12 737.5 MHz

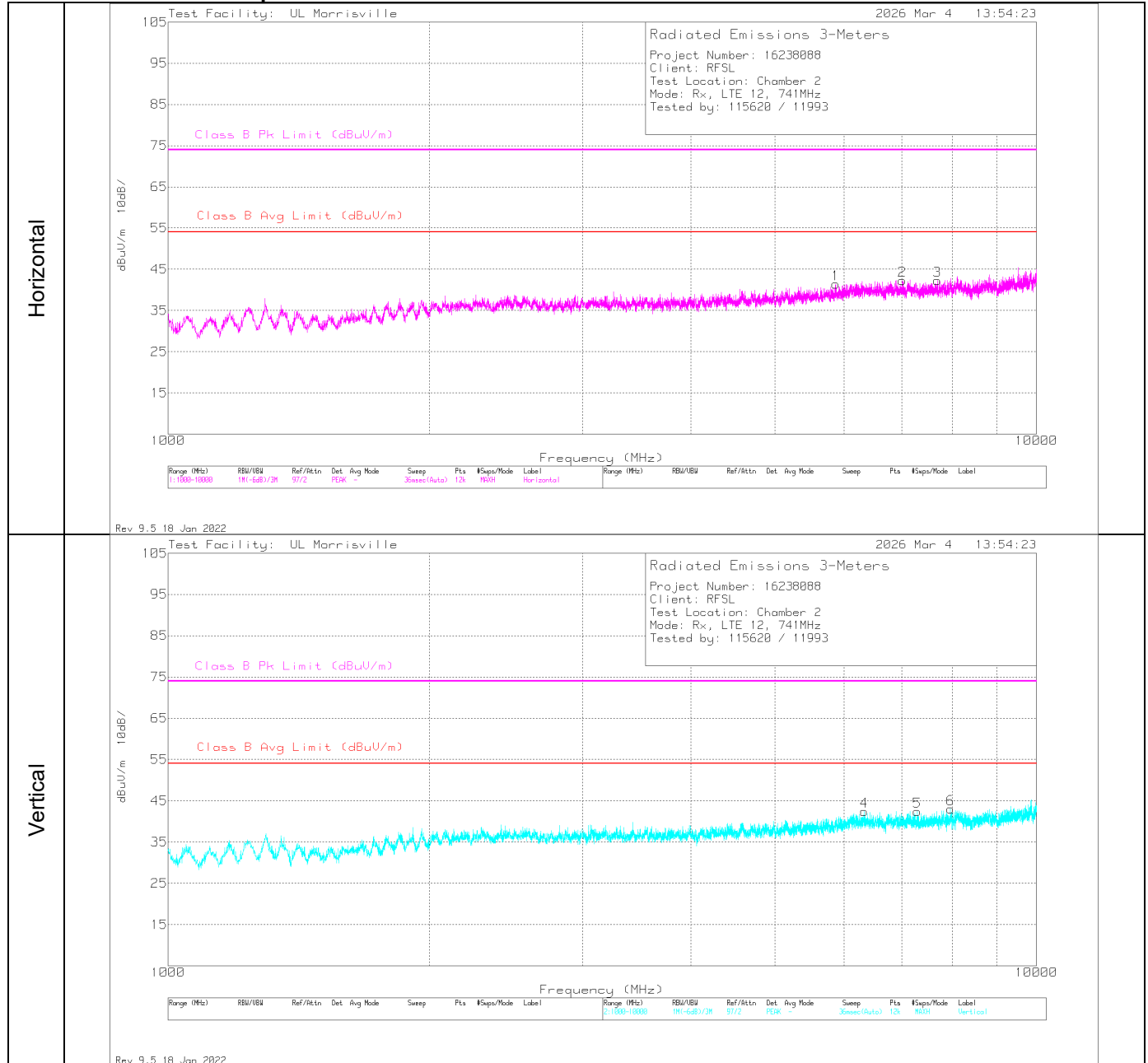


Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.81025	50.24	Pk	35.6	-43	42.84	54	-11.16	74	-31.16	0-360	101	H
4	7.1485	50.44	Pk	35.5	-42.7	43.24	54	-10.76	74	-30.76	0-360	200	V
5	7.96375	49.09	Pk	35.9	-42.1	42.89	54	-11.11	74	-31.11	0-360	101	V
2	8.8285	47.31	Pk	35.9	-39.7	43.51	54	-10.49	74	-30.49	0-360	101	H
6	9.685	49.14	Pk	36.9	-41.5	44.54	54	-9.46	74	-29.46	0-360	200	V
3	9.8485	48.51	Pk	37.1	-40.5	45.11	54	-8.89	74	-28.89	0-360	200	H

Pk - Peak detector

Radiated Emissions Graph LTE B12 741 MHz

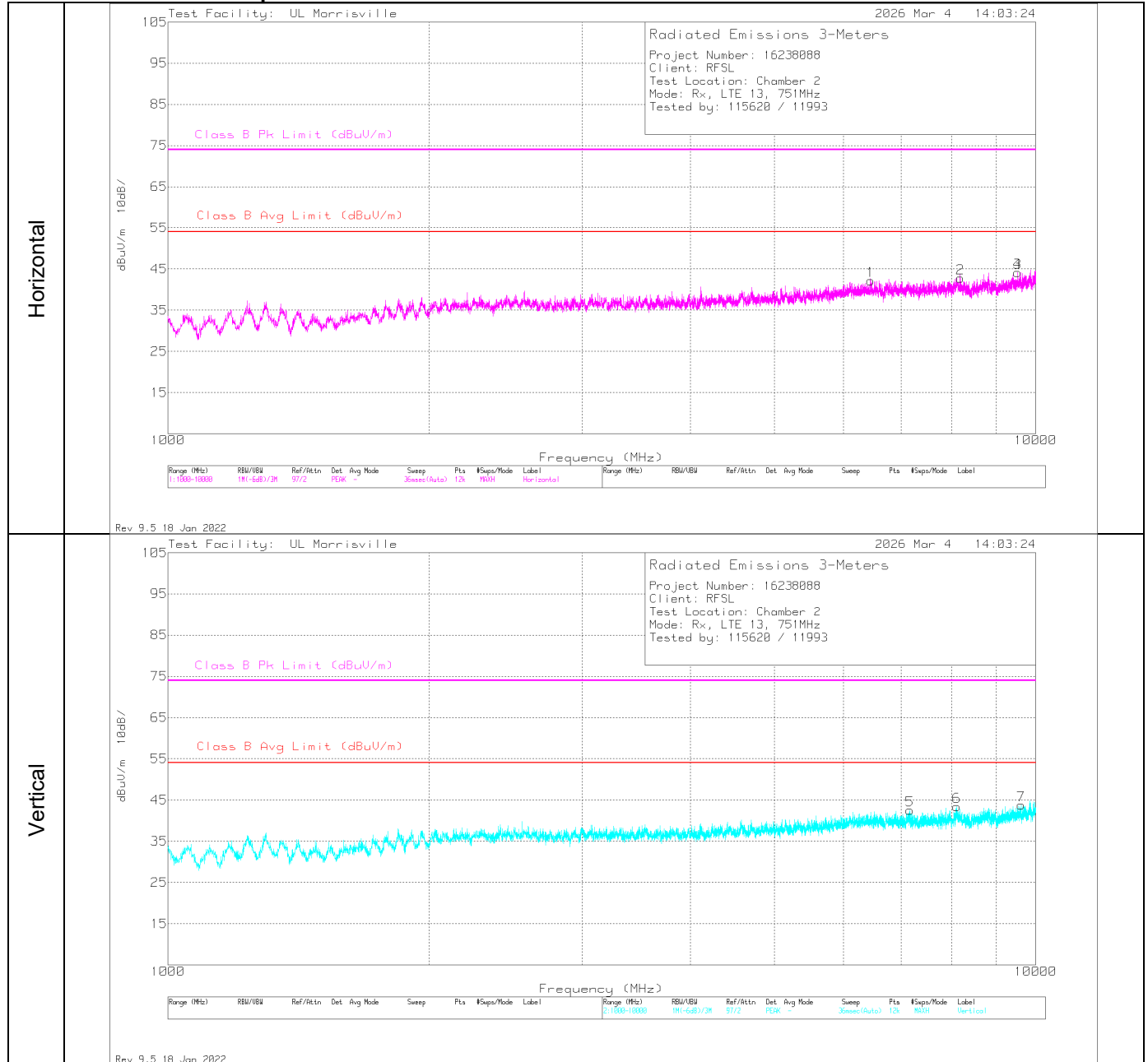


Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBUV/m	Class B Avg Limit (dBUV/m)	Margin (dB)	Class B Pk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5875	50.22	Pk	35.1	-43.9	41.42	54	-12.58	74	-32.58	0-360	101	H
4	6337	50.42	Pk	35.7	-43.7	42.42	54	-11.58	74	-31.58	0-360	200	V
2	7009.75	49.67	Pk	35.6	-43	42.27	54	-11.73	74	-31.73	0-360	101	H
5	7290.25	49.97	Pk	35.4	-42.9	42.47	54	-11.53	74	-31.53	0-360	101	V
3	7687.75	49.6	Pk	35.7	-43	42.3	54	-11.7	74	-31.7	0-360	200	H
6	7963	49.18	Pk	35.9	-42	43.08	54	-10.92	74	-30.92	0-360	101	V

Pk - Peak detector

Radiated Emissions Graph LTE B13 751 MHz

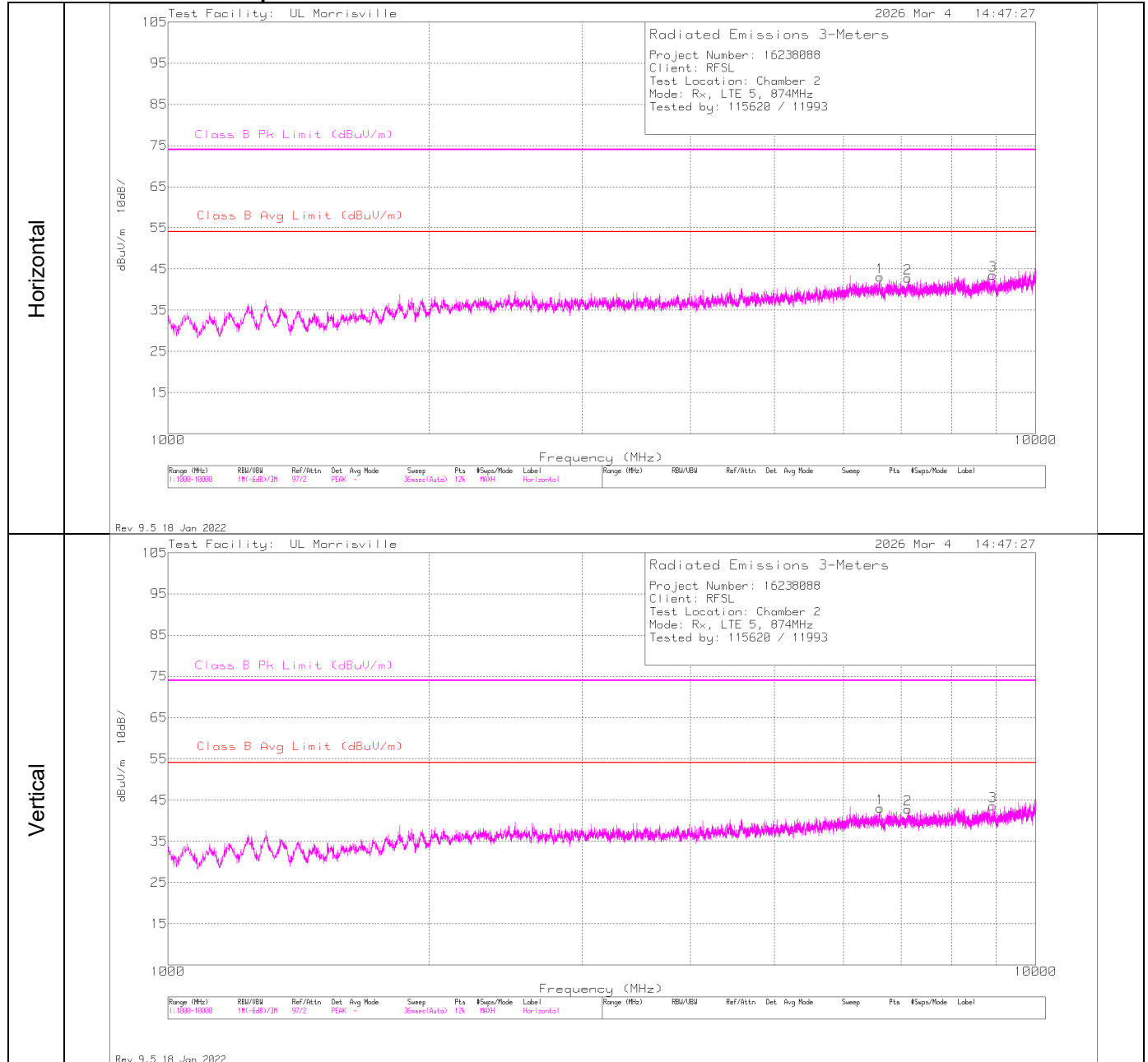


Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6457	49.66	Pk	35.8	-43.3	42.16	54	-11.84	74	-31.84	0-360	101	H
5	7160.5	49.65	Pk	35.5	-42.6	42.55	54	-11.45	74	-31.45	0-360	200	V
6	8116	48.92	Pk	36	-41.5	43.42	54	-10.58	74	-30.58	0-360	200	V
2	8194	49.03	Pk	35.9	-42.1	42.83	54	-11.17	74	-31.17	0-360	101	H
3	9532	48.89	Pk	36.6	-41.3	44.19	54	-9.81	74	-29.81	0-360	200	H
4	9532	48.89	Pk	36.6	-41.3	44.19	54	-9.81	74	-29.81	0-360	200	H
7	9622	49.18	Pk	36.8	-42.2	43.78	54	-10.22	74	-30.22	0-360	200	V

Pk - Peak detector

Radiated Emissions Graph LTE B5 874 MHz

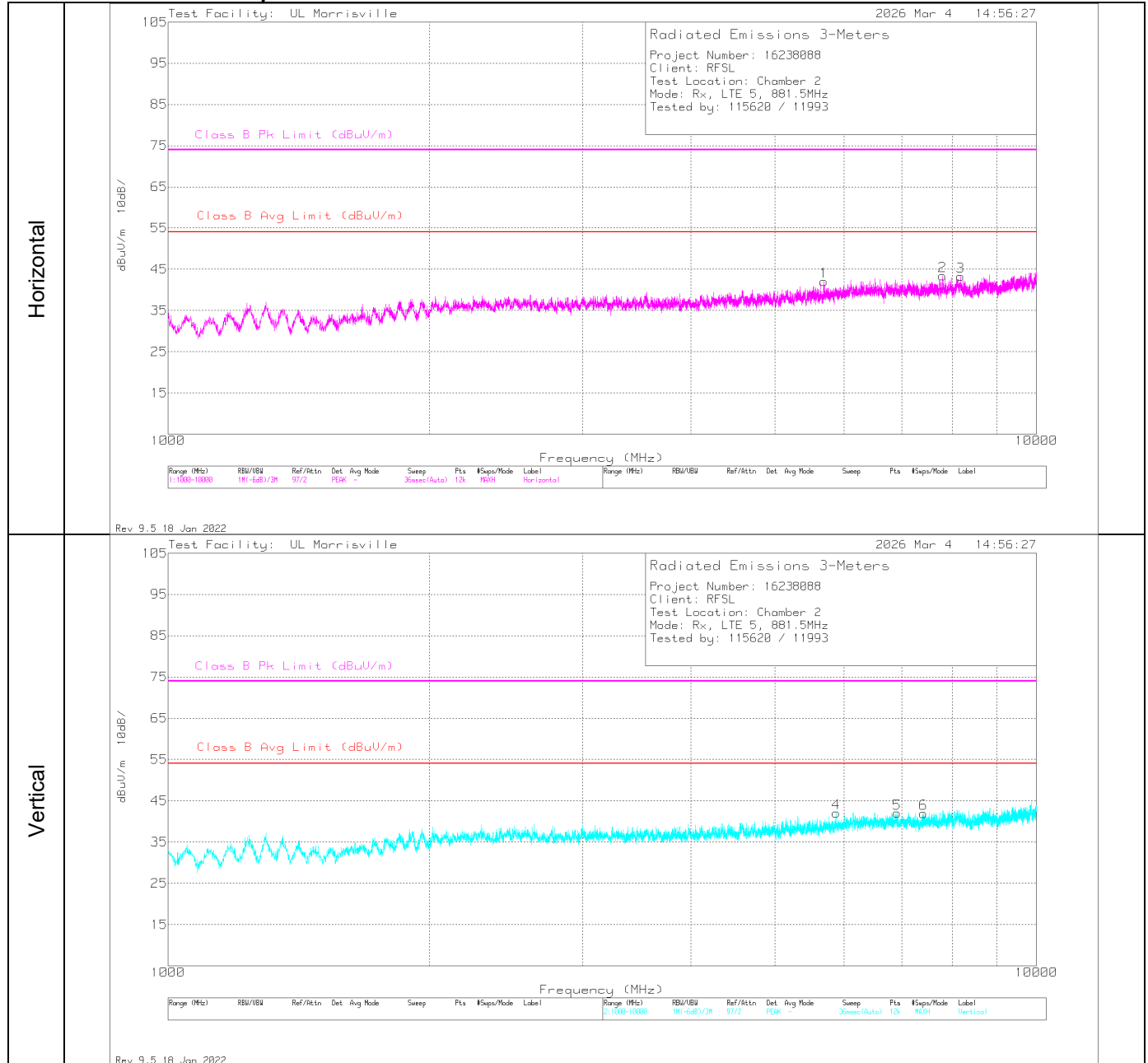


Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBUV/m	Class B Avg Limit (dBUV/m)	Margin (dB)	Class B Pk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6211	50.49	Pk	35.7	-43.4	42.79	54	-11.21	74	-31.21	0-360	199	V
1	6618.25	50.62	Pk	35.7	-43.3	43.02	54	-10.98	74	-30.98	0-360	101	H
2	7125.25	49.45	Pk	35.5	-42.2	42.75	54	-11.25	74	-31.25	0-360	199	H
5	7408	49.39	Pk	35.5	-42.3	42.59	54	-11.41	74	-31.41	0-360	199	V
3	8921.5	48.71	Pk	35.9	-41.1	43.51	54	-10.49	74	-30.49	0-360	199	H
6	9349	49.07	Pk	36.3	-41.6	43.77	54	-10.23	74	-30.23	0-360	199	V

Pk - Peak detector

Radiated Emissions Graph LTE B5 881.5 MHz

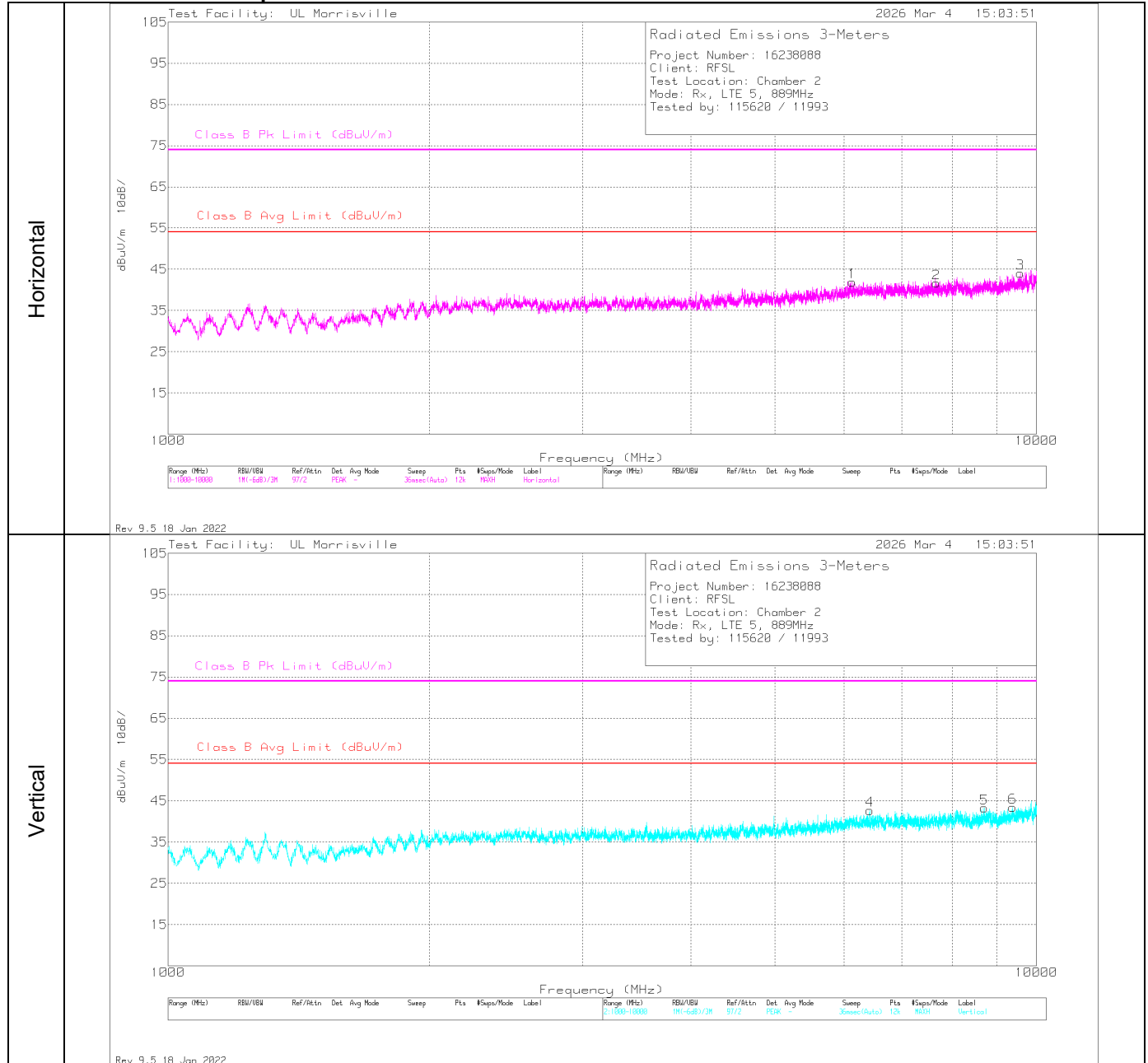


Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBUV/m	Class B Avg Limit (dBUV/m)	Margin (dB)	Class B Pk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5689	51.53	Pk	34.8	-44.3	42.03	54	-11.97	74	-31.97	0-360	200	H
4	5880.25	50.49	Pk	35.1	-43.5	42.09	54	-11.91	74	-31.91	0-360	101	V
5	6913.75	49.88	Pk	35.6	-43.5	41.98	54	-12.02	74	-32.02	0-360	101	V
6	7410.25	48.87	Pk	35.5	-42.4	41.97	54	-12.03	74	-32.03	0-360	101	V
2	7801	49.83	Pk	35.8	-42.2	43.43	54	-10.57	74	-30.57	0-360	101	H
3	8175.25	49.34	Pk	36	-42	43.34	54	-10.66	74	-30.66	0-360	200	H

Pk - Peak detector

Radiated Emissions Graph LTE B5 889 MHz



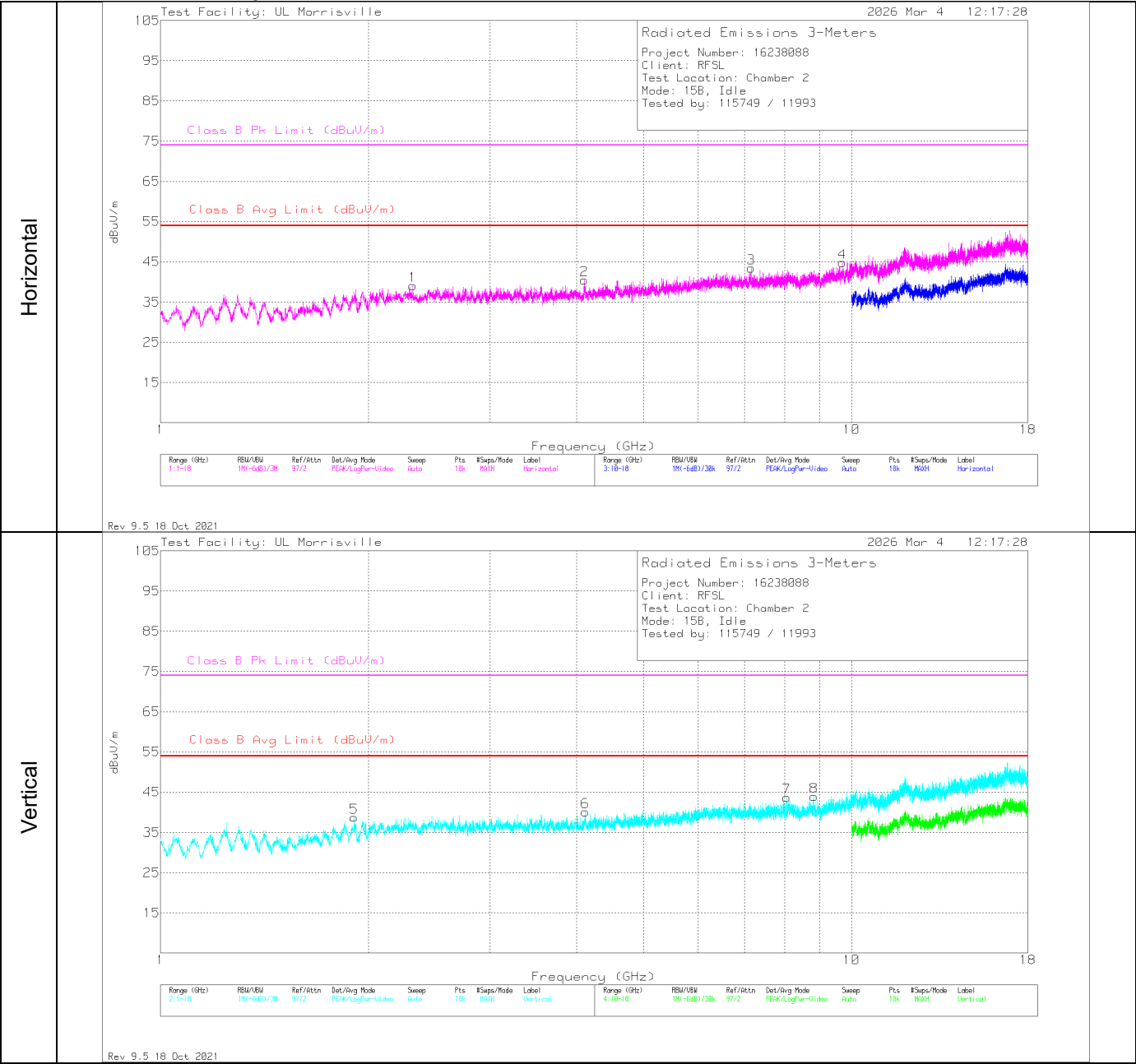
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6140.5	50.57	Pk	35.6	-44.3	41.87	54	-12.13	74	-32.13	0-360	199	H
4	6425.5	50.41	Pk	35.8	-43.5	42.71	54	-11.29	74	-31.29	0-360	199	V
2	7669.75	48.71	Pk	35.6	-42.7	41.61	54	-12.39	74	-32.39	0-360	101	H
5	8707	48.63	Pk	35.9	-41.3	43.23	54	-10.77	74	-30.77	0-360	101	V
6	9394	48.56	Pk	36.4	-41.5	43.46	54	-10.54	74	-30.54	0-360	199	V
3	9589.75	48.3	Pk	36.7	-41	44	54	-10	74	-30	0-360	199	H

Pk - Peak detector

RADIATED EMISSIONS 1,000 TO 18,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



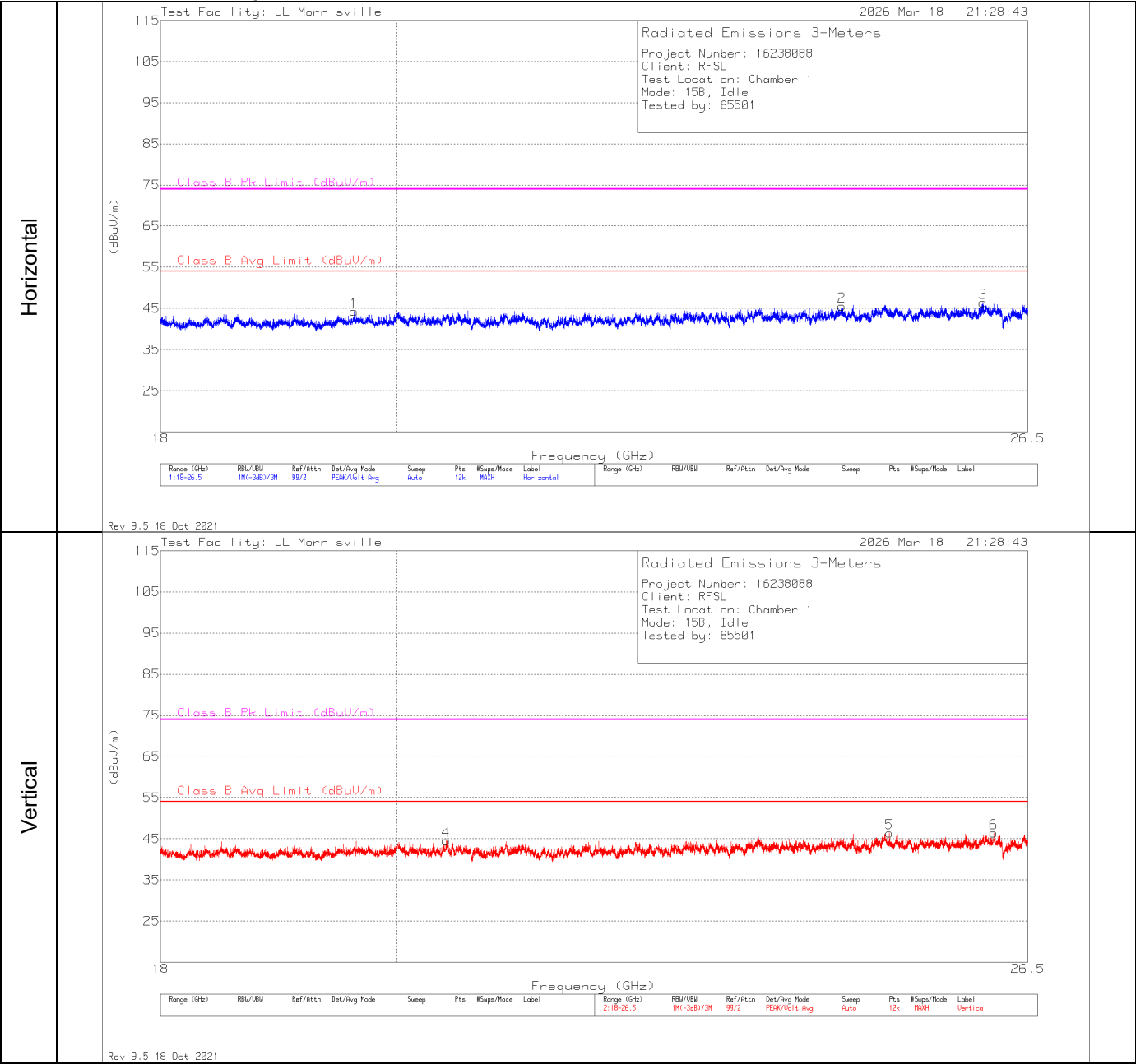
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	1906.666	57.77	Pk	30.9	-49.9	38.77	54	-15.23	74	-35.23	0-360	200	V
1	2319.388	56.05	Pk	32.2	-49.1	39.15	54	-14.85	74	-34.85	0-360	100	H
2	4104.387	53.76	Pk	33.4	-46.7	40.46	54	-13.54	74	-33.54	0-360	200	H
6	4116.665	53.02	Pk	33.5	-46.4	40.12	54	-13.88	74	-33.88	0-360	101	V
3	7159.664	50.59	Pk	35.5	-42.6	43.49	54	-10.51	74	-30.51	0-360	200	H
7	8056.886	49.81	Pk	35.9	-42	43.71	54	-10.29	74	-30.29	0-360	200	V
8	8831.33	47.71	Pk	35.9	-39.7	43.91	54	-10.09	74	-30.09	0-360	101	V
4	9705.885	49.2	Pk	36.9	-41.3	44.8	54	-9.2	74	-29.2	0-360	200	H

Pk - Peak detector

RADIATED EMISSIONS 18,000 TO 26,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



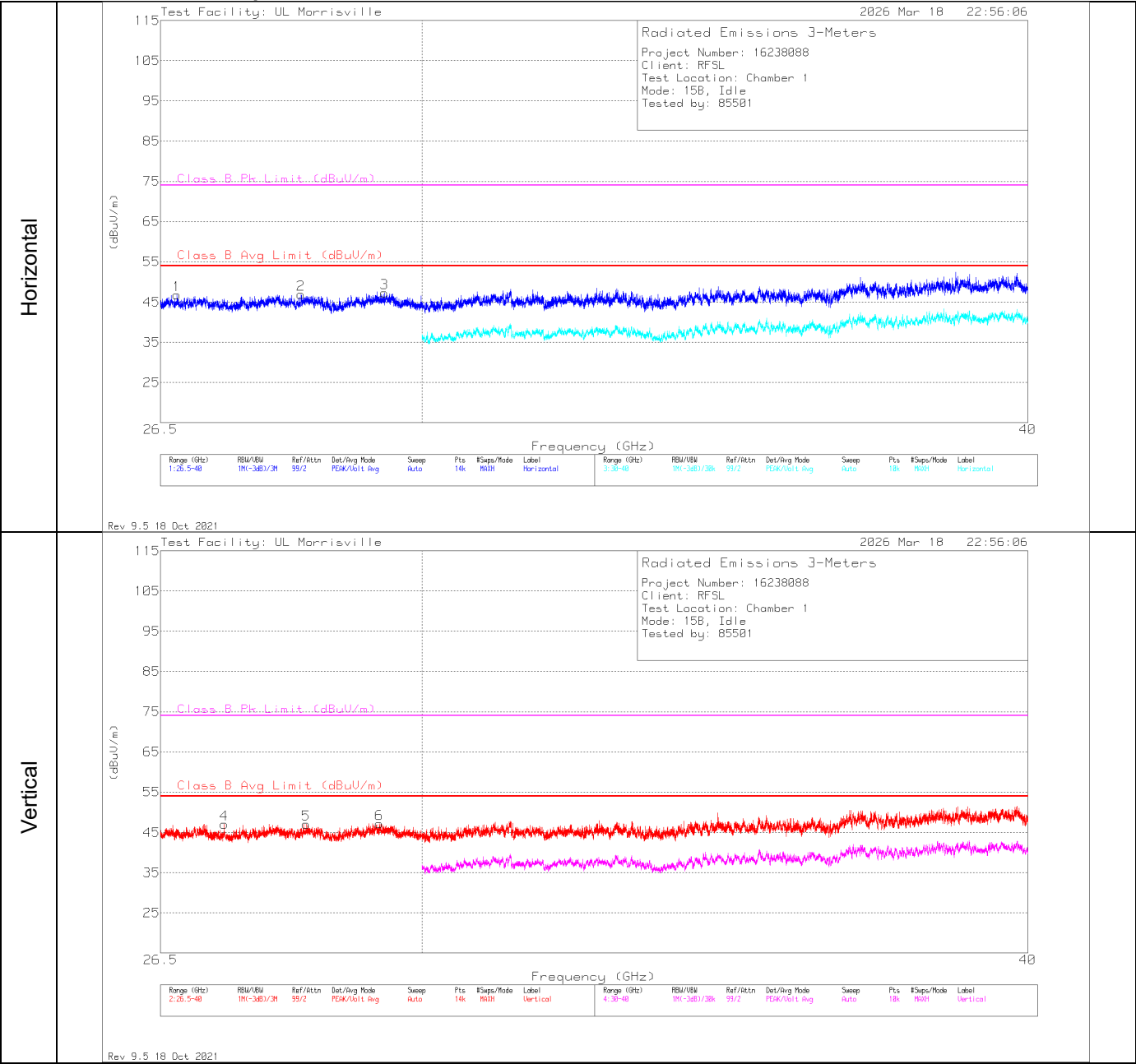
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	91186 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.62293	51.26	Pk	32.5	-39.5	44.26	54	-9.74	74	-29.74	0-360	250	H
4	20.44749	50.68	Pk	32.8	-39	44.48	54	-9.52	74	-29.52	0-360	300	V
2	24.39324	50.73	Pk	34	-39.2	45.53	54	-8.47	74	-28.47	0-360	250	H
5	24.91461	51.63	Pk	34.1	-39.3	46.43	54	-7.57	74	-27.57	0-360	300	V
3	25.97791	49.36	Pk	34.6	-37.5	46.46	54	-7.54	74	-27.54	0-360	149	H
6	26.10046	49.21	Pk	34.5	-37.3	46.41	54	-7.59	74	-27.59	0-360	300	V

Pk - Peak detector

RADIATED EMISSIONS 26,000 TO 40,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	91187 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	26.70734	48.02	Pk	35.7	-36.9	46.82	54	-7.18	74	-27.18	0-360	150	H
4	27.31295	48.44	Pk	35.7	-37.1	47.04	54	-6.96	74	-26.96	0-360	300	V
2	28.32745	47.61	Pk	36.3	-37	46.91	54	-7.09	74	-27.09	0-360	101	H
5	28.39399	47.21	Pk	36.4	-36.6	47.01	54	-6.99	74	-26.99	0-360	201	V
6	29.39885	47.7	Pk	36.4	-36.9	47.2	54	-6.8	74	-26.8	0-360	101	V
3	29.47214	47.85	Pk	36.5	-37	47.35	54	-6.65	74	-26.65	0-360	199	H

Pk - Peak detector

Appendix A**Facilities, Accreditations and Authorizations**

UL LLC is accredited by A2LA, Certificate Number 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Drive, Suite B, Morrisville, NC, 27560		27265	

REPORT NO: R16238088-E17c

EUT: GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE,
DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC

DATE: 2026-06-03

MODEL: SC-56G, SCG39

6.0 SETUP PHOTOS

Refer to R16238088-EP1c for Setup Photos and Setup Diagrams.

END OF TEST REPORT