

TEST REPORT

Report Number. : 14586572-E7V2

Applicant : Samsung Electronics Co., Ltd.
129 Samsung-Ro, Yeongtong-Gu
Suwon-Si, Gyeonggi-Do, 16677, Korea

Model : SM-A145M/DS, SM-A145M, SM-A145MB/DS and SM-A145MB

FCC ID : A3LSMA145M

EUT Description : GSM/WCDMA/LTE Phone with BT/BLE, DTS/UNII a/b/g/n/ac

Test Standard(s) : FCC 47 CFR PART 15 SUBPART B

Date Of Issue:
2023-01-26

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2023-01-18	Initial Issue	
V2	2023-01-26	Updated Section 4.4 and 5.3	Kiya Kedida

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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677, KOREA
Model	SM-A145M/DS, SM-A145M, SM-A145MB/DS AND SM-A145MB
FCC ID	A3LSMA145M
EUT Description	GSM/WCDMA/LTE Phone with BT/BLE, DTS/UNII a/b/g/n/ac
Serial Number	R93TA0007SM, R93TA0007TL
Date Tested	2023-01-05 to 2023-01-10
Applicable Standards	PART 15 SUBPART B
Test Results	COMPLIES

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.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released By: 	Prepared By: 
Dan Corona Operations Leader UL Verification Services Inc.	Kiya Kedida Senior Project Engineer UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15B
- ANSI C63.4:2014

3. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, 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
<input type="checkbox"/>	Building 1: 47173 Benicia Street Fremont, CA 94538, U.S.A	US0104	2324A	550739
<input type="checkbox"/>	Building 2: 47266 Benicia Street Fremont, CA 94538, U.S.A	US0104	22541	550739
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd Fremont, CA 94538, U.S.A	US0104	2324B	550739

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. 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.

4.2. 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.)

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Humidity	3.39%
DC Supply Voltages	0.57%

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

4.4. 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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone with BT/BLE, DTS/UNII a/b/g/n/ac.

5.2. TEST MODE

Mode	Description
GSM 850	Communication with Callbox Simulator (CMW500)
WCDMA BAND 5	Communication with Callbox Simulator (CMW500)
LTE BAND 5	Communication with Callbox Simulator (CMW500)
LTE BAND 12	Communication with Callbox Simulator (CMW500)
LTE BAND 13	Communication with Callbox Simulator (CMW500)
LTE BAND 26	Communication with Callbox Simulator (CMW500)

5.3. WORST-CASE CONFIGURATION AND MODE

For GSM 850, WCDMA Band 5, and LTE Band 5, 12, 13, 26 the spurious emissions were investigated in three orthogonal orientations X, Y, and Z. It was determined that X orientation was the worst-case orientation.

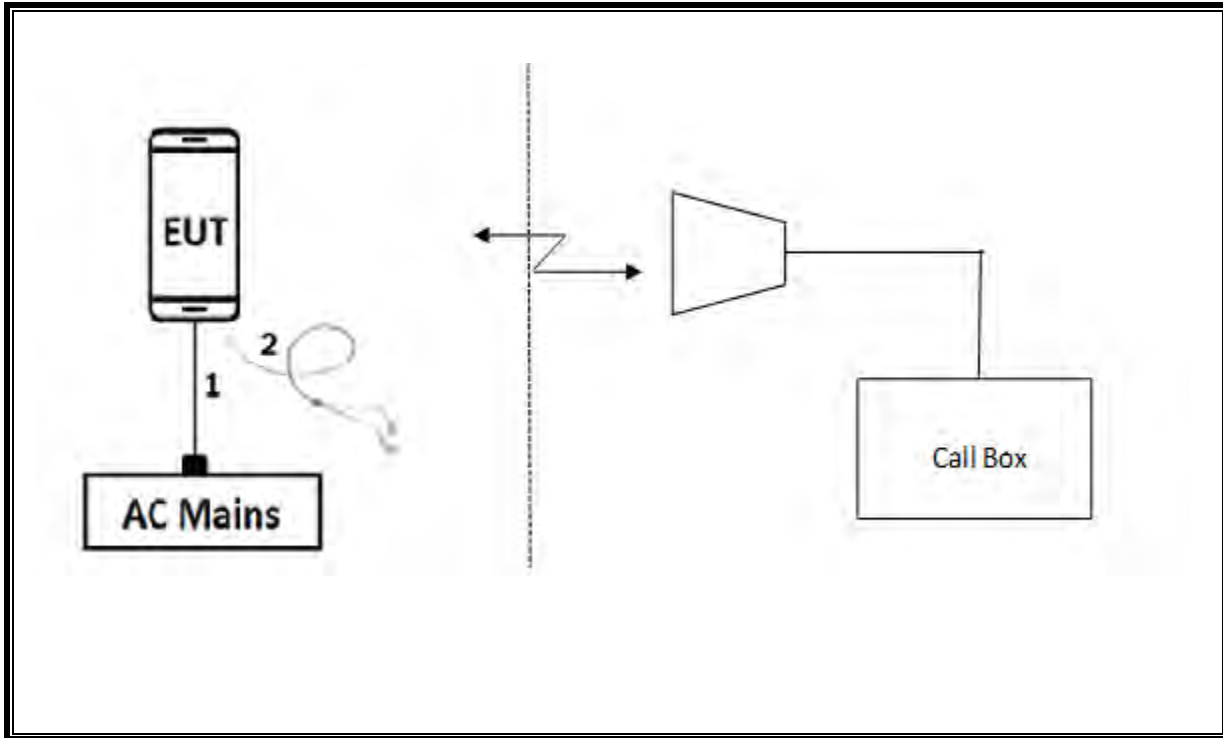
Note: The EUT is continuously communicated with the call box during the test. Also attached with travel adapter and headphones for the worst case condition.

LTE Band 17 (704 - 716 MHz, 5/10 MHz bandwidth) is covered by LTE Band 12 (699 - 716 MHz). Because it is a subset of LTE band 12 and they have same output power and channel bandwidth.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number	FCC ID/ DoC	
AC Adapter		Samsung	EP-TA800	R37MAMT21J2SE3	N/A	
Earphone		Samsung	N/A	N/A	N/A	
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Shielded	1	N/A
2	Earphone	1	3.5mm	Un-Shielded	1	N/A

RADIATED SETUP



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	223083	2023-07-05	2022-07-05
RF Filter Box, 1-18GHz	UL-FR1	N/A	171875	2023-08-12	2022-08-12
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169937	2023-02-20	2022-02-20
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206805	2023-07-05	2022-07-05
RF Filter Box, 1-18GHz	UL-FR1	n/a	171875	2023-08-12	2022-08-12
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB1	80293	2023-08-09	2022-08-09
Amplifier, 10KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	175953	2023-02-08	2022-02-08
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201501	2023-02-19	2022-02-19
Test Software List					
Description	Manufacturer	Model	Version		
Radiated Software	UL	UL EMC	Ver 2022-10-25, 2022-05-18, 2020-06-04, 2020-06-05, 2020-06-14, 2014-07-15,		

7. RADIATED TEST RESULTS

7.1. APPLICABLE LIMITS AND TEST RESULTS

TEST PROCEDURE

ANSI C63.4: 2014

LIMIT

§ 15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limit for radiated disturbance of Class B ITE at measuring distance of 3 meter	
Frequency Range (MHz)	Quasi-Peak limit (dBuV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

Note: The lower limit shall apply at the transition frequency.

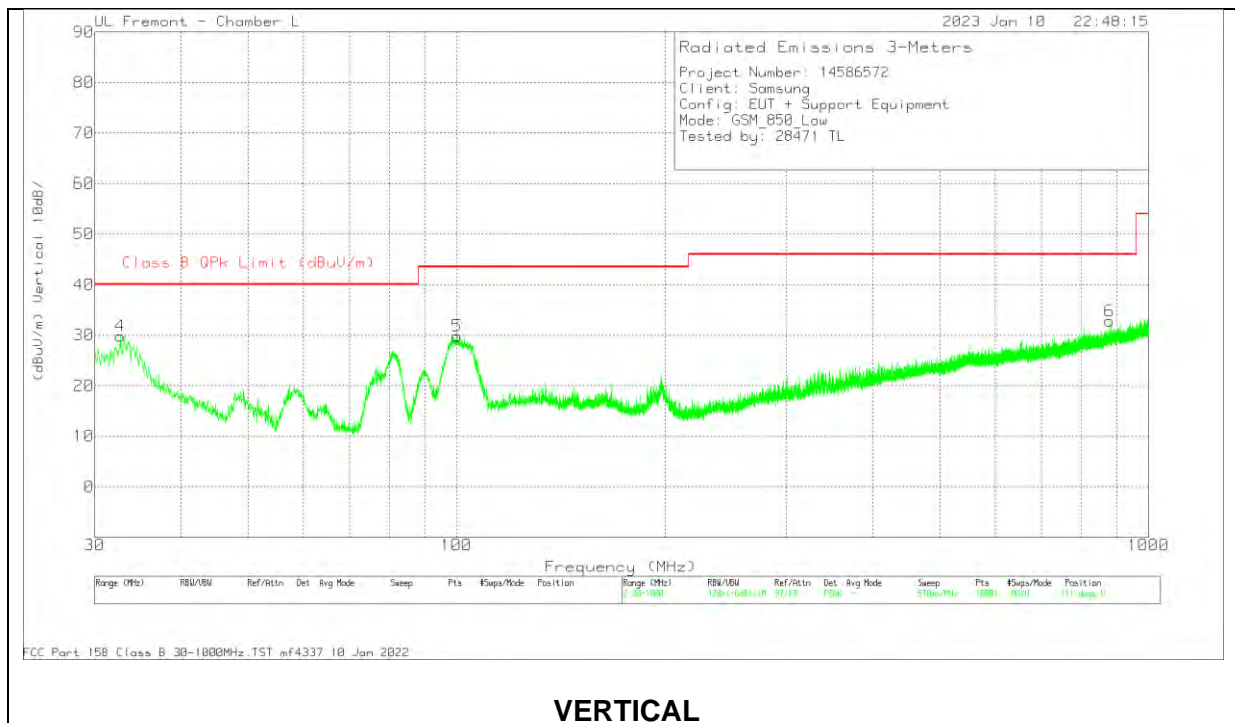
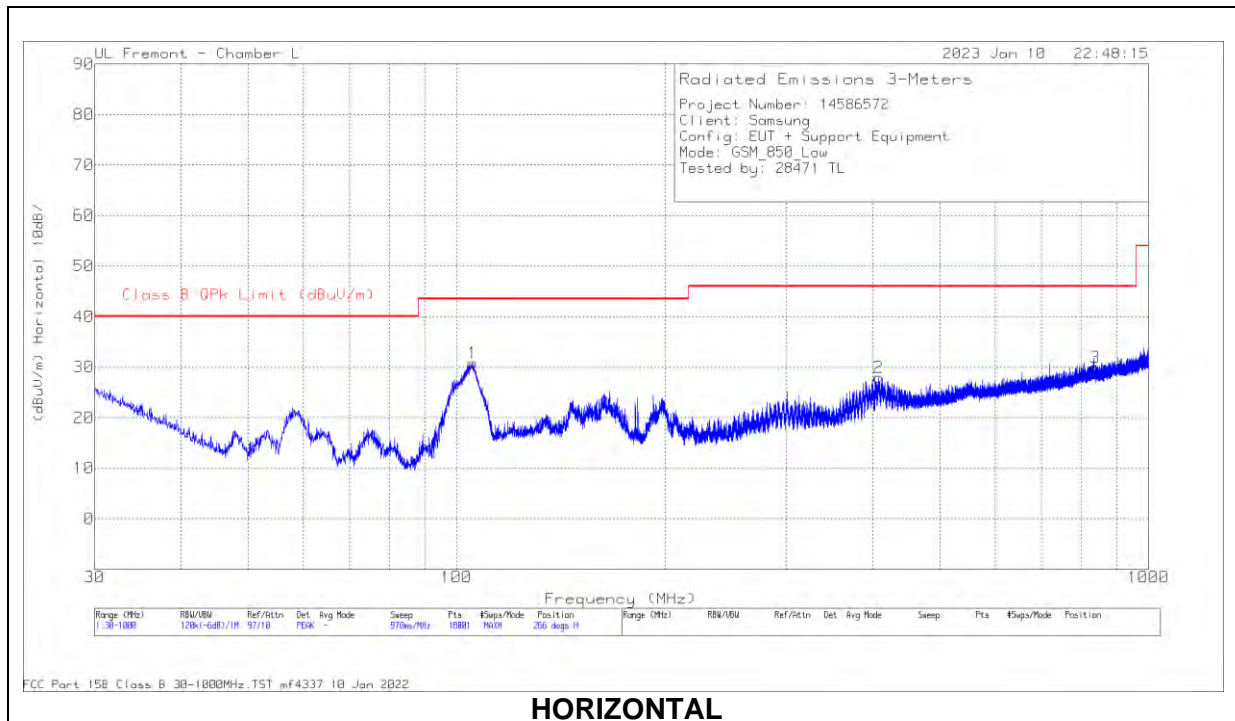
RESULTS

8. DATA FOR 15B RECEIVER MODE

8.1. GSM 850

8.1.1. BELOW 1GHz

LOW CHANNEL

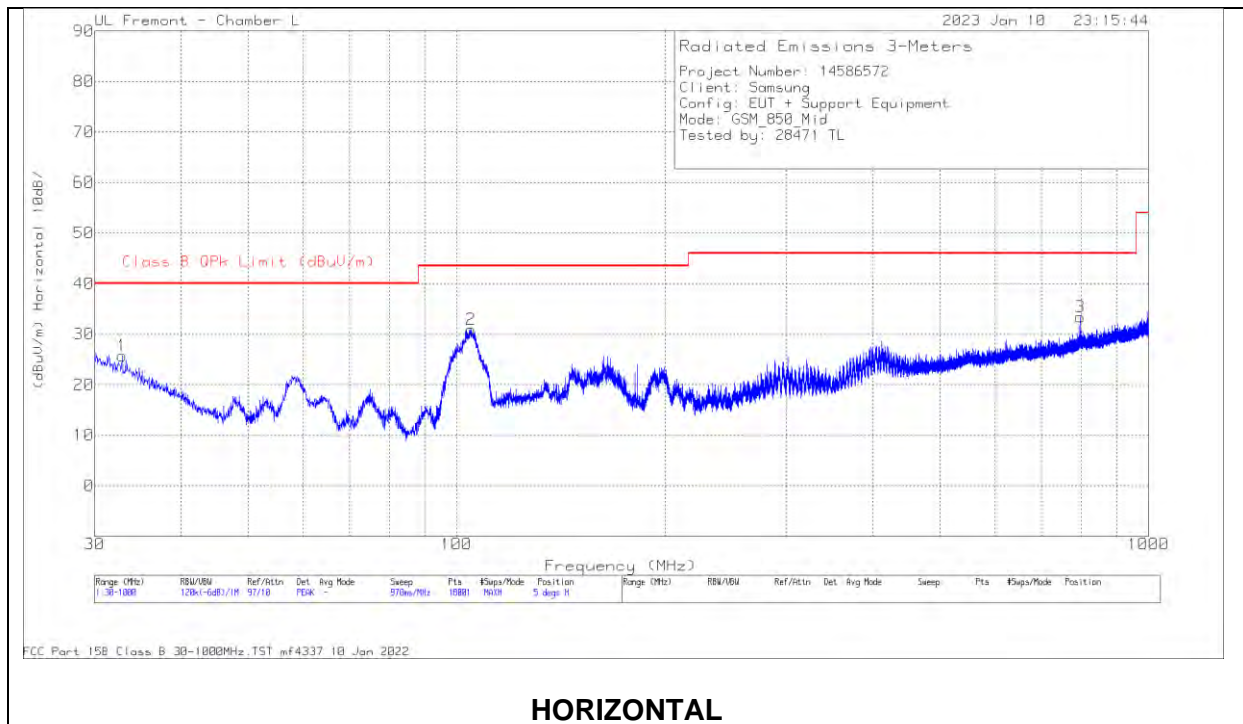


RADIATED EMISSIONS

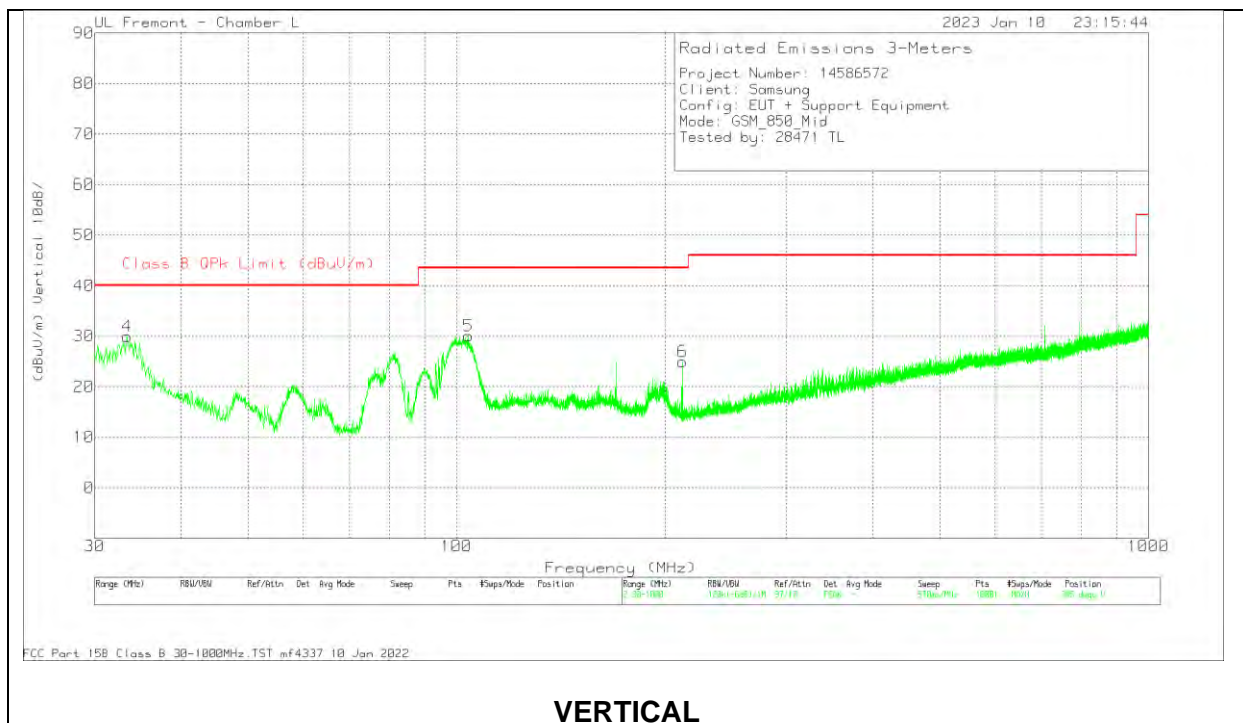
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	105.552	43.82	Pk	17.7	-30.7	30.82	43.52	-12.7	260	299	H
2	407.385	34.62	Pk	22.3	-29	27.92	46.02	-18.1	94	101	H
3	837.203	29.5	Pk	28.3	-27.9	29.9	46.02	-16.12	50	198	H
4	33.548	35.56	Pk	25.4	-31.3	29.66	40	-10.34	316	129	V
5	100.217	44.31	Pk	16.2	-30.7	29.81	43.52	-13.71	176	101	V
6	877.89	31.56	Pk	28.4	-27.2	32.76	46.02	-13.26	49	299	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL



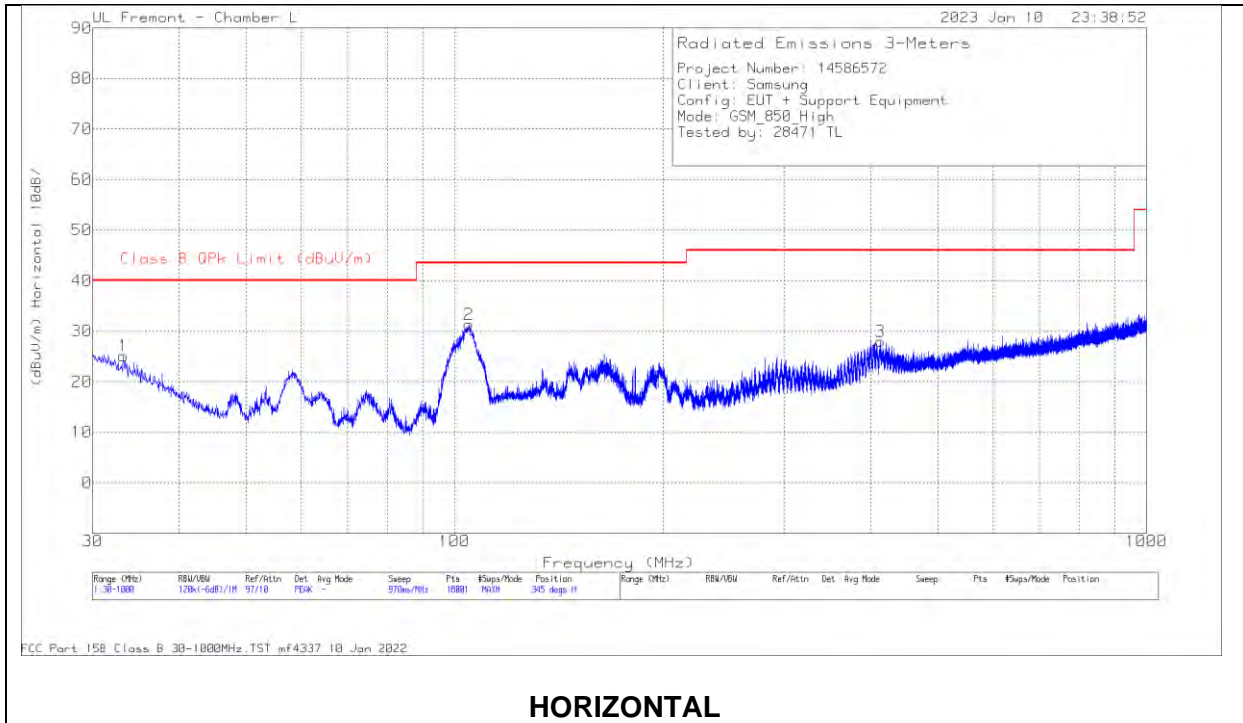
VERTICAL

RADIATED EMISSIONS

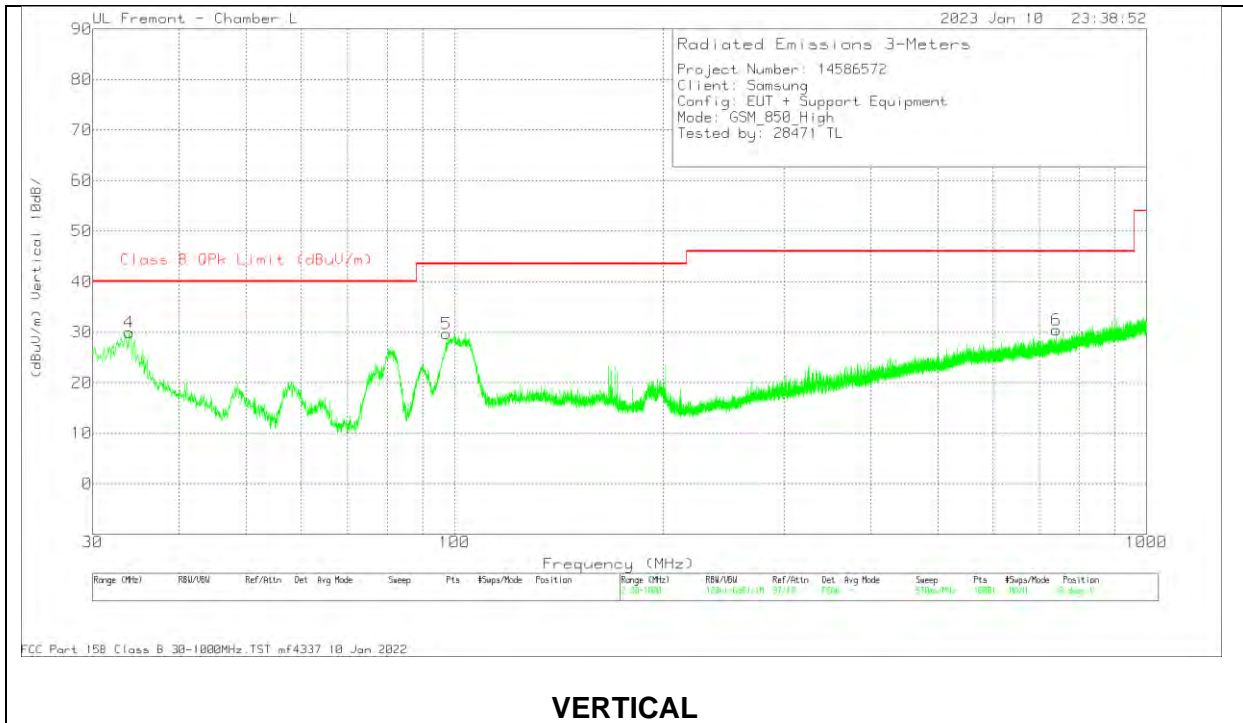
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.8561	31.12	Pk	25.9	-31.3	25.72	40	-14.28	286	299	H
2	105.013	44.19	Pk	17.5	-30.7	30.99	43.52	-12.53	245	299	H
3	797.379	33.26	Pk	27.9	-27.7	33.46	46.02	-12.56	345	299	H
4	33.4695	35.54	Pk	25.5	-31.3	29.74	40	-10.26	252	132	V
5	104.151	43.45	Pk	17.3	-30.7	30.05	43.52	-13.47	98	101	V
6	211.983	38.02	Pk	16.9	-30	24.92	43.52	-18.6	314	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

HIGH CHANNEL



HORIZONTAL



VERTICAL

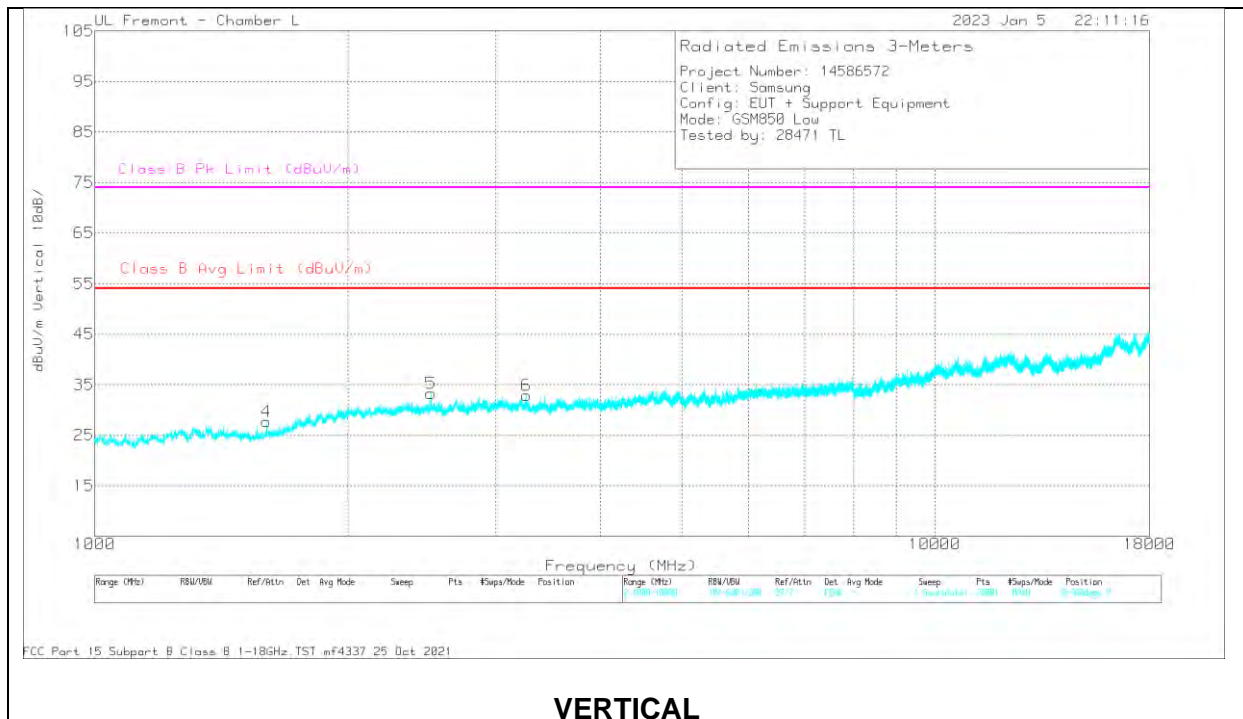
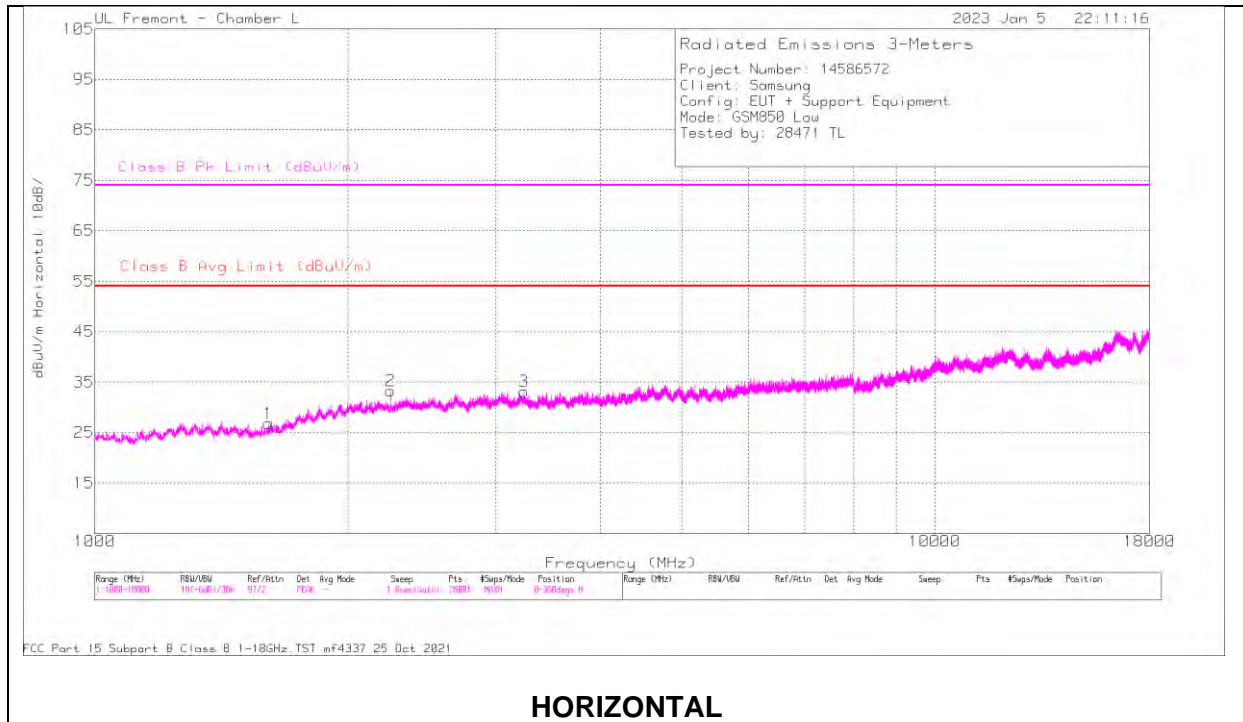
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.2333	30.65	Pk	25.7	-31.3	25.05	40	-14.95	204	299	H
2	104.852	44.5	Pk	17.5	-30.7	31.3	43.52	-12.22	245	299	H
3	412.558	34.36	Pk	22.5	-28.9	27.96	46.02	-18.06	112	101	H
4	33.4628	35.85	Pk	25.5	-31.3	30.05	40	-9.95	286	121	V
5	97.2535	45.16	Pk	15.3	-30.8	29.66	43.52	-13.86	174	99	V
6	740.041	31.72	Pk	26.9	-28.2	30.42	46.02	-15.6	115	299	V

Pk - Peak detector
 Qp - Quasi-Peak detector

8.1.2. ABOVE 1GHz

LOW CHANNEL

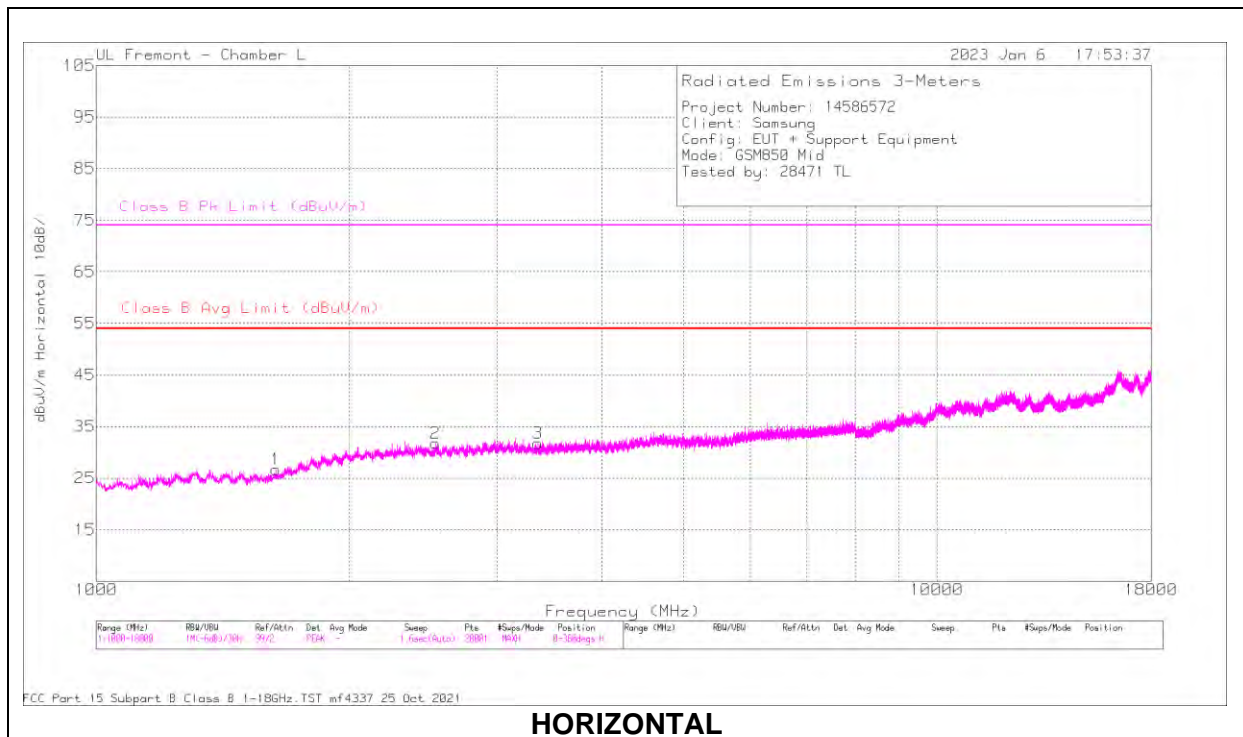


RADIATED EMISSIONS

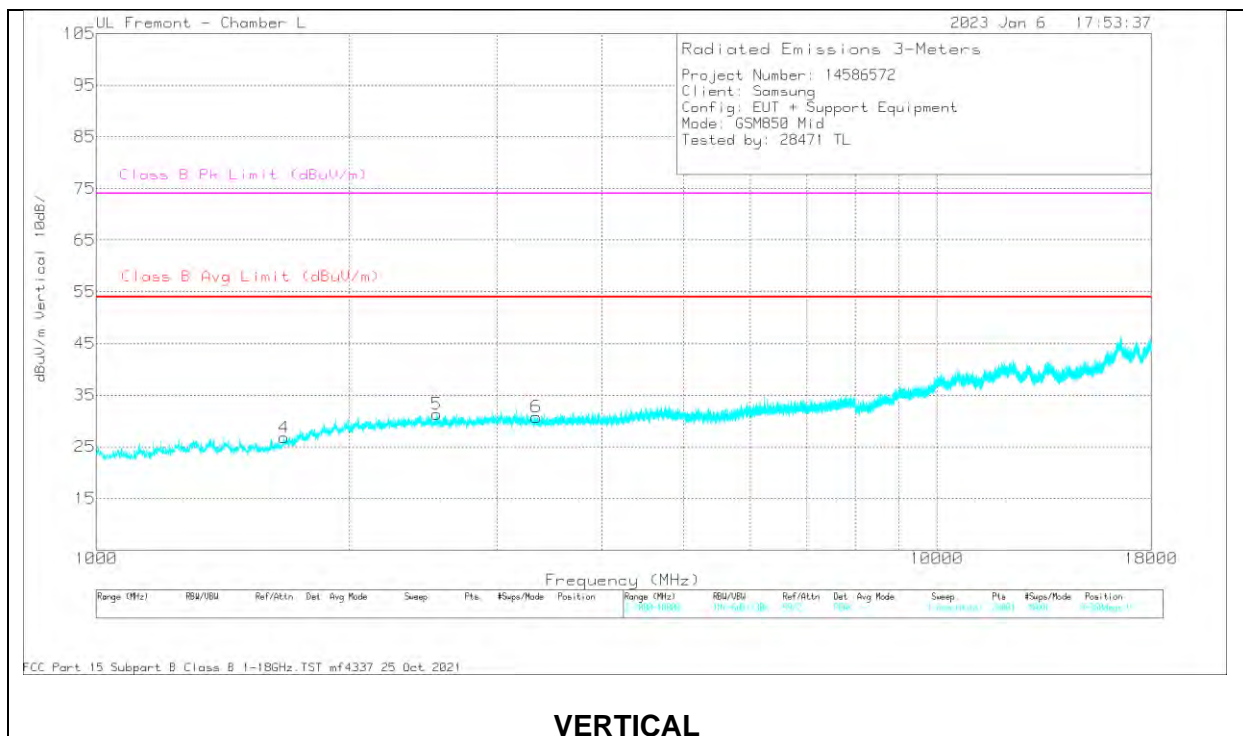
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1606.237	38.17	Pk	28.3	-32.2	34.27	54	-19.73	74	-39.73	302	129	H
	1606.237	25.67	Av	28.3	-32.2	21.77	54	-32.23	-	-	302	129	H
2	2250.034	37.82	Pk	32.2	-30.1	39.92	54	-14.08	74	-34.08	337	304	H
	2250.034	26.33	Av	32.2	-30.1	28.43	54	-25.57	-	-	337	304	H
3	3230.812	34.46	Pk	33.2	-28.7	38.96	54	-15.04	74	-35.04	37	360	H
	3230.812	22.04	Av	33.2	-28.7	26.54	54	-27.46	-	-	37	360	H
4	1601.959	37.51	Pk	28.3	-32.2	33.61	54	-20.39	74	-40.39	326	111	V
	1601.959	25.32	Av	28.3	-32.2	21.42	54	-32.58	-	-	326	111	V
5	2507.021	35.68	Pk	32.5	-29.7	38.48	54	-15.52	74	-35.52	214	383	V
	2507.021	23.33	Av	32.5	-29.7	26.13	54	-27.87	-	-	214	383	V
6	3256.049	34.96	Pk	33.2	-28.7	39.46	54	-14.54	74	-34.54	319	215	V
	3256.049	22.22	Av	33.2	-28.7	26.72	54	-27.28	-	-	319	215	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL



HORIZONTAL



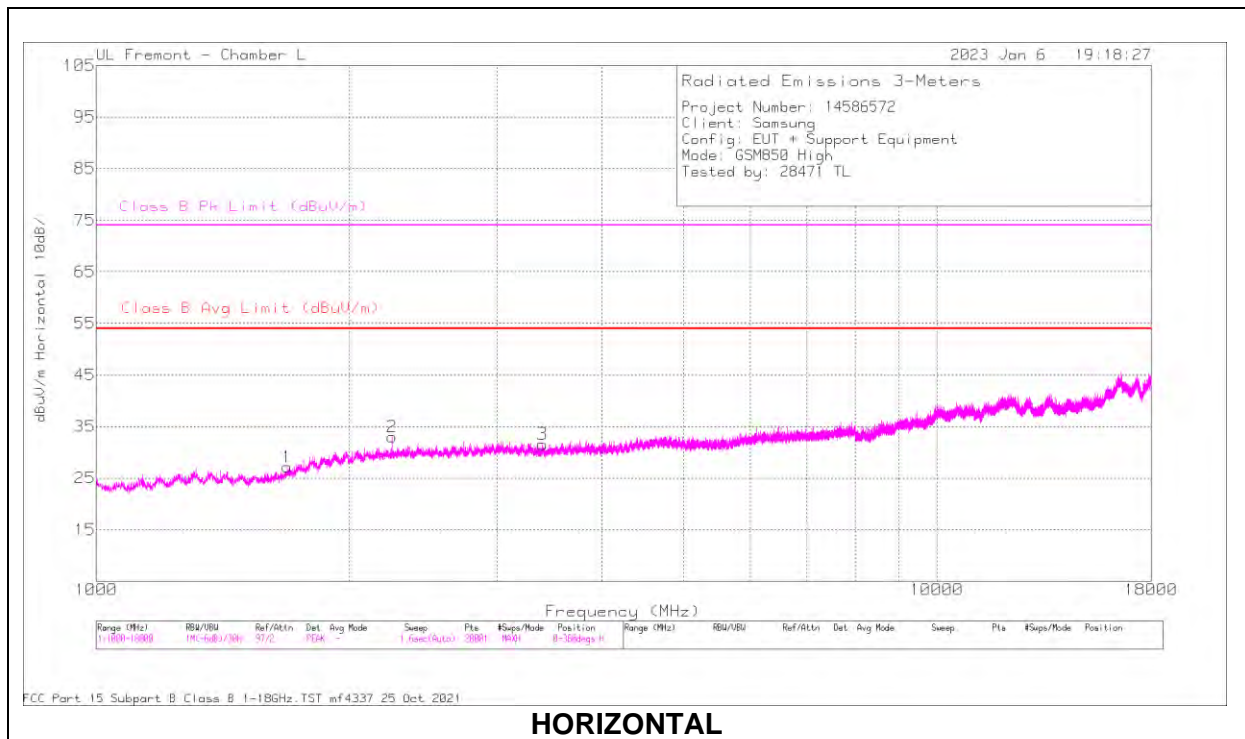
VERTICAL

RADIATED EMISSIONS

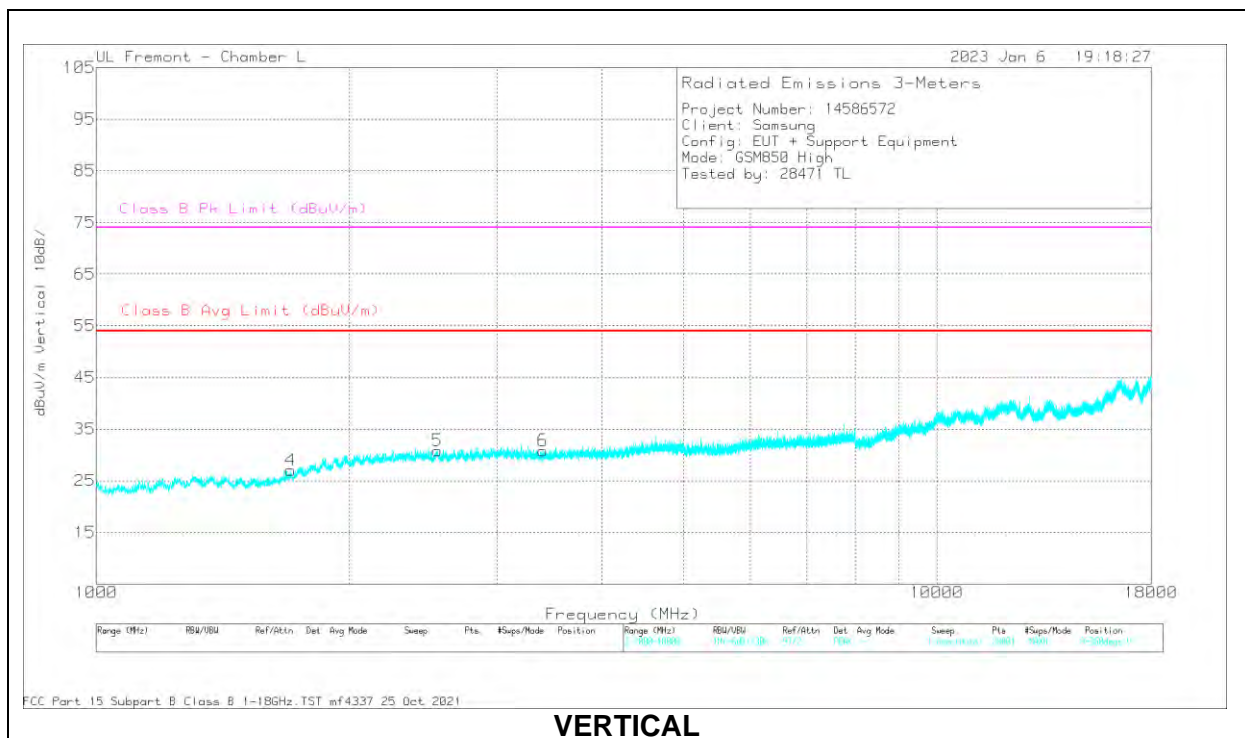
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1630.654	37.93	Pk	28.5	-32.2	34.23	54	-19.77	74	-39.77	6	250	H
	1630.654	24.98	Av	28.5	-32.2	21.28	54	-32.72	-	-	6	250	H
2	2528.234	35.87	Pk	32.5	-29.7	38.67	54	-15.33	74	-35.33	65	238	H
	2528.234	23.29	Av	32.5	-29.7	26.09	54	-27.91	-	-	65	238	H
3	3346.552	34.62	Pk	33.1	-29	38.72	54	-15.28	74	-35.28	64	335	H
	3346.552	21.84	Av	33.1	-29	25.94	54	-28.06	-	-	64	335	H
4	1677.373	37.33	Pk	29.1	-31.9	34.53	54	-19.47	74	-39.47	168	256	V
	1677.373	24.62	Av	29.1	-31.9	21.82	54	-32.18	-	-	168	256	V
5	2552.811	35.32	Pk	32.5	-29.7	38.12	54	-15.88	74	-35.88	34	350	V
	2552.811	22.77	Av	32.5	-29.7	25.57	54	-28.43	-	-	34	350	V
6	3354.616	34.38	Pk	33.1	-29	38.48	54	-15.52	74	-35.52	334	117	V
	3354.616	21.87	Av	33.1	-29	25.97	54	-28.03	-	-	334	117	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

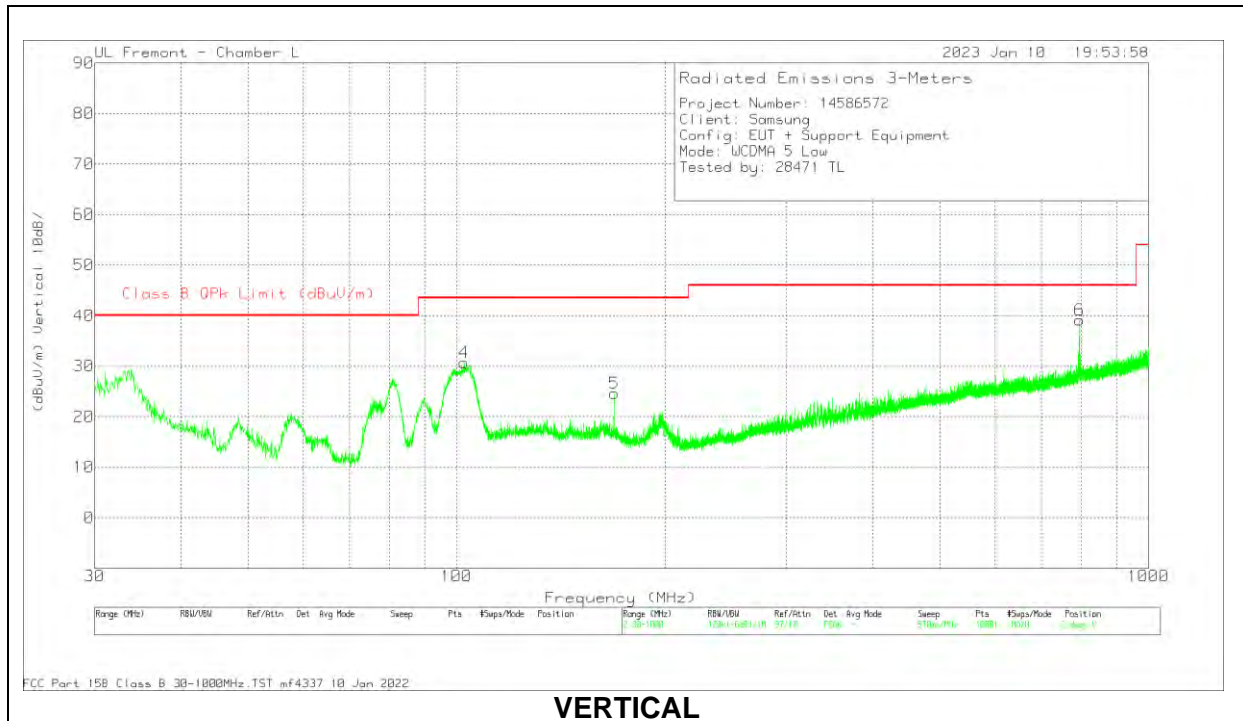
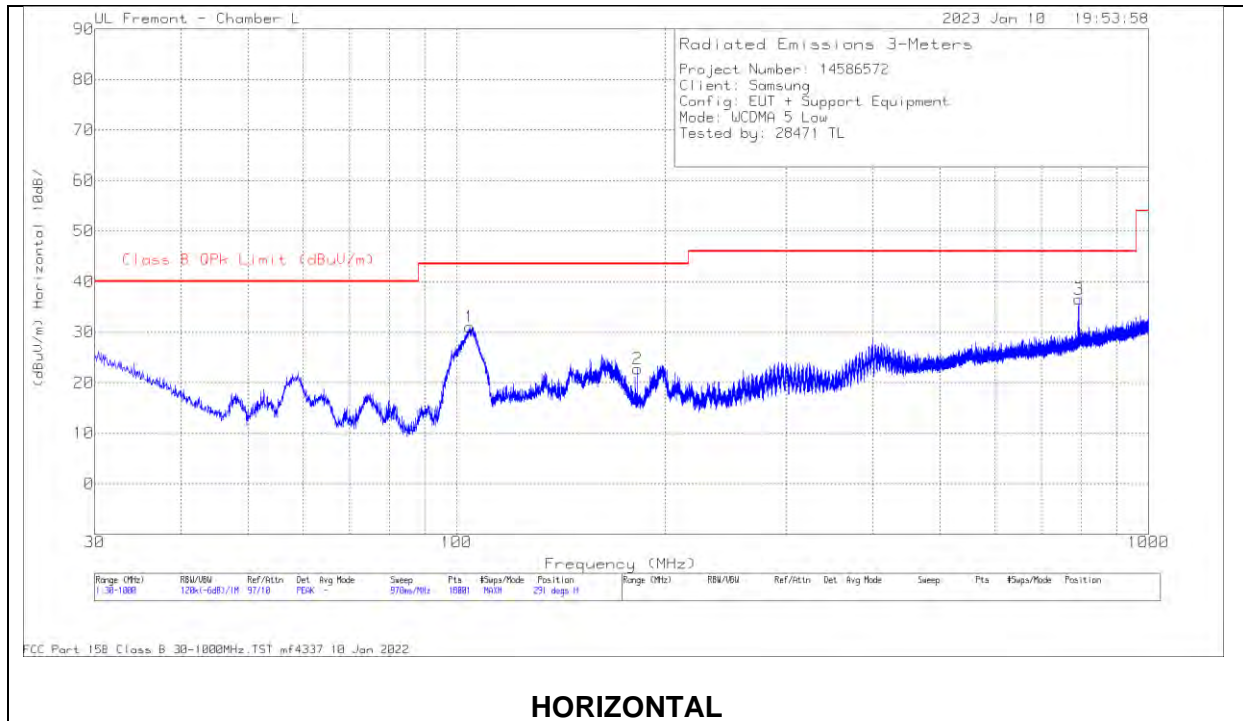
	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1685.126	38.76	Pk	29.2	-31.9	36.06	54	-17.94	74	-37.94	152	169	H
	1685.126	25.23	Av	29.2	-31.9	22.53	54	-31.47	-	-	152	169	H
2	2263.647	36.52	Pk	32.2	-30.1	38.62	54	-15.38	74	-35.38	259	167	H
	2263.647	23.89	Av	32.2	-30.1	25.99	54	-28.01	-	-	259	167	H
3	3402.342	34.85	Pk	33.2	-28.9	39.15	54	-14.85	74	-34.85	303	115	H
	3402.342	21.8	Av	33.2	-28.9	26.1	54	-27.9	-	-	303	115	H
4	1693.851	37.72	Pk	29.3	-31.8	35.22	54	-18.78	74	-38.78	300	270	V
	1693.851	24.67	Av	29.3	-31.8	22.17	54	-31.83	-	-	300	270	V
5	2542.681	35.79	Pk	32.5	-29.7	38.59	54	-15.41	74	-35.41	195	182	V
	2542.681	23.25	Av	32.5	-29.7	26.05	54	-27.95	-	-	195	182	V
6	3413.81	34.92	Pk	33.2	-28.8	39.32	54	-14.68	74	-34.68	59	325	V
	3413.81	21.91	Av	33.2	-28.8	26.31	54	-27.69	-	-	59	325	V

Pk - Peak detector
 Av - Average detection

8.2. WCDMA BAND 5

8.2.1. BELOW 1GHz

LOW CHANNEL

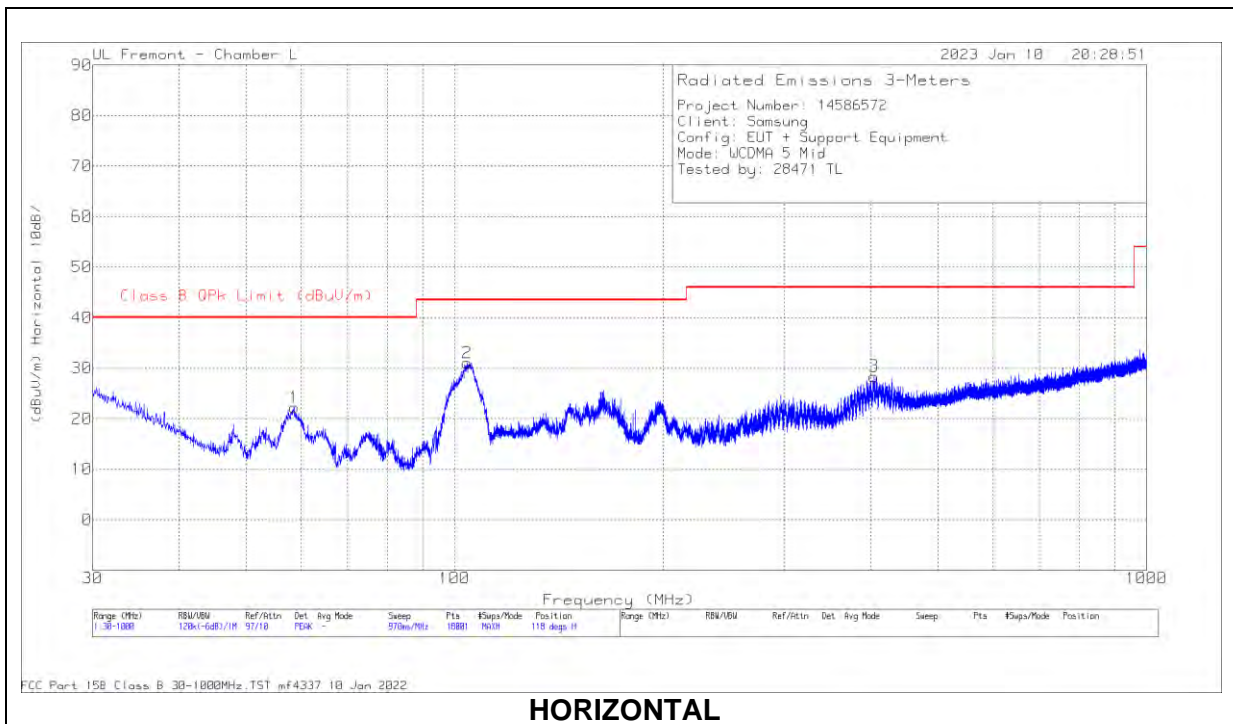


RADIATED EMISSIONS

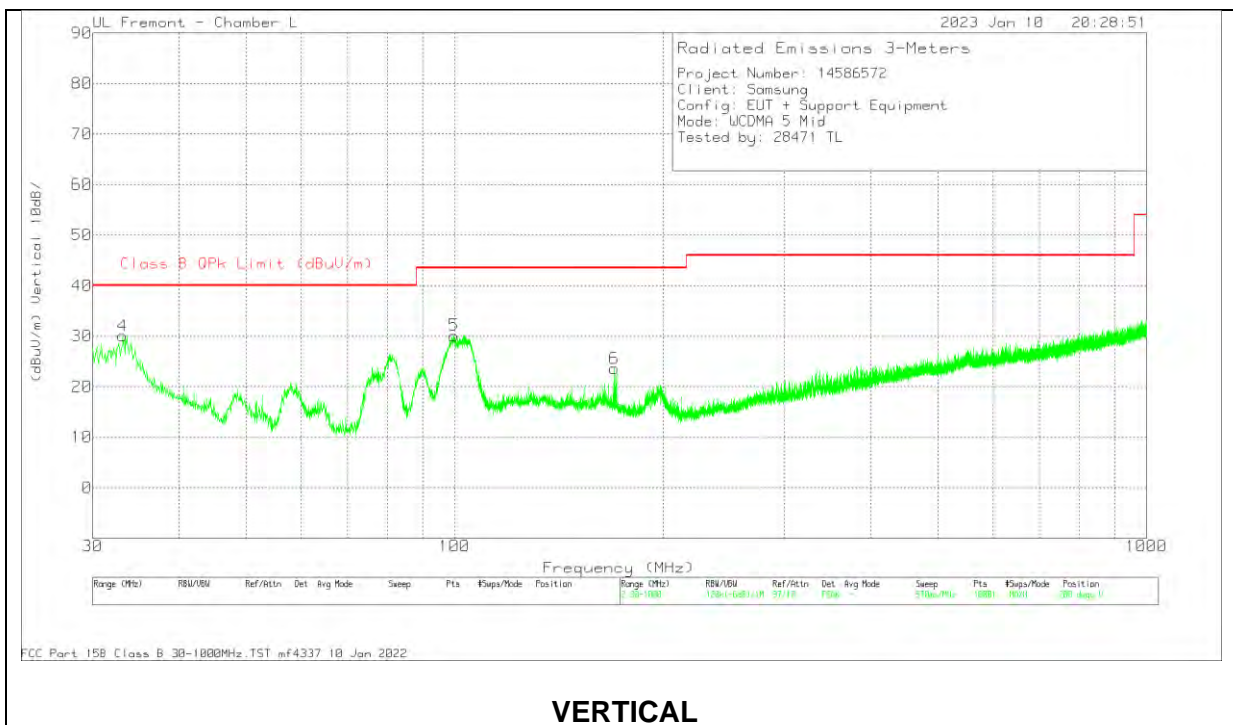
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	104.475	44.34	Pk	17.4	-30.7	31.04	43.52	-12.48	264	299	H
2	182.668	35.16	Pk	17.7	-30.1	22.76	43.52	-20.76	350	299	H
3	793.823	36.29	Pk	27.9	-27.7	36.49	46.02	-9.53	359	199	H
4	102.642	44.45	Pk	16.9	-30.7	30.65	43.52	-12.87	167	101	V
5	169.034	36.29	Pk	18.5	-30.2	24.59	43.52	-18.93	7	101	V
6	795.439	28.93	Pk	27.9	-27.6	29.23	46.02	-16.79	233	226	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL



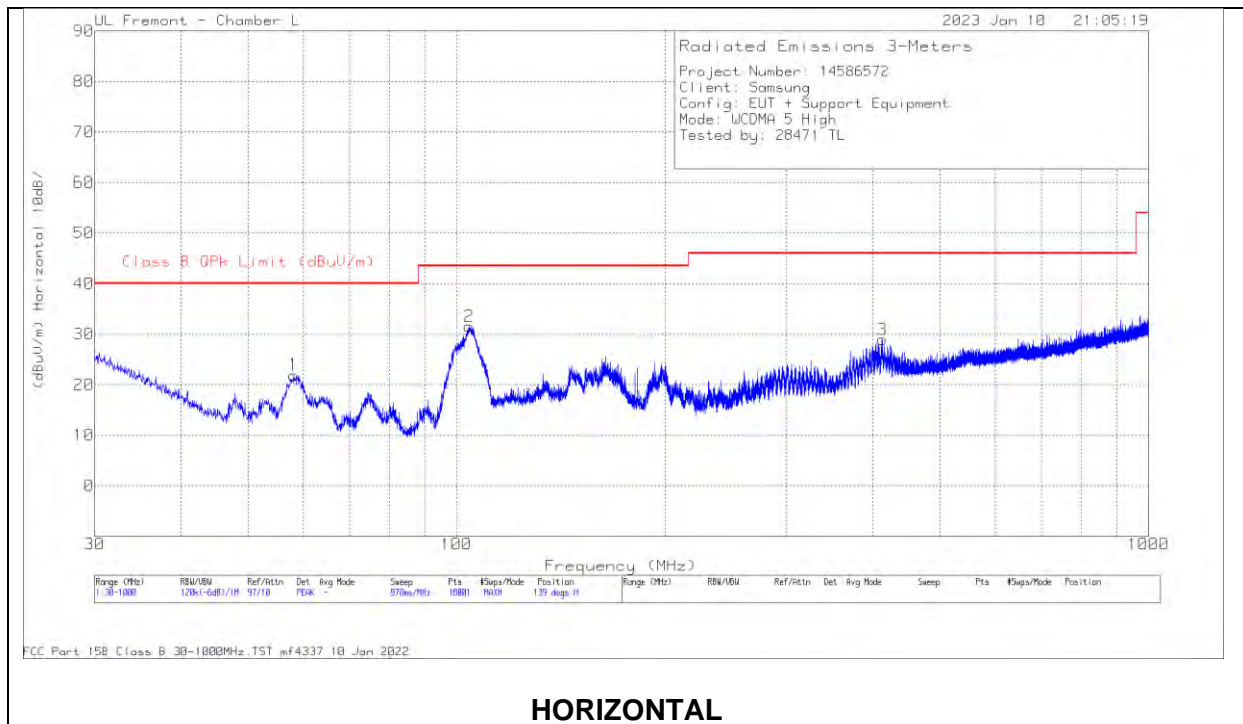
VERTICAL

RADIATED EMISSIONS

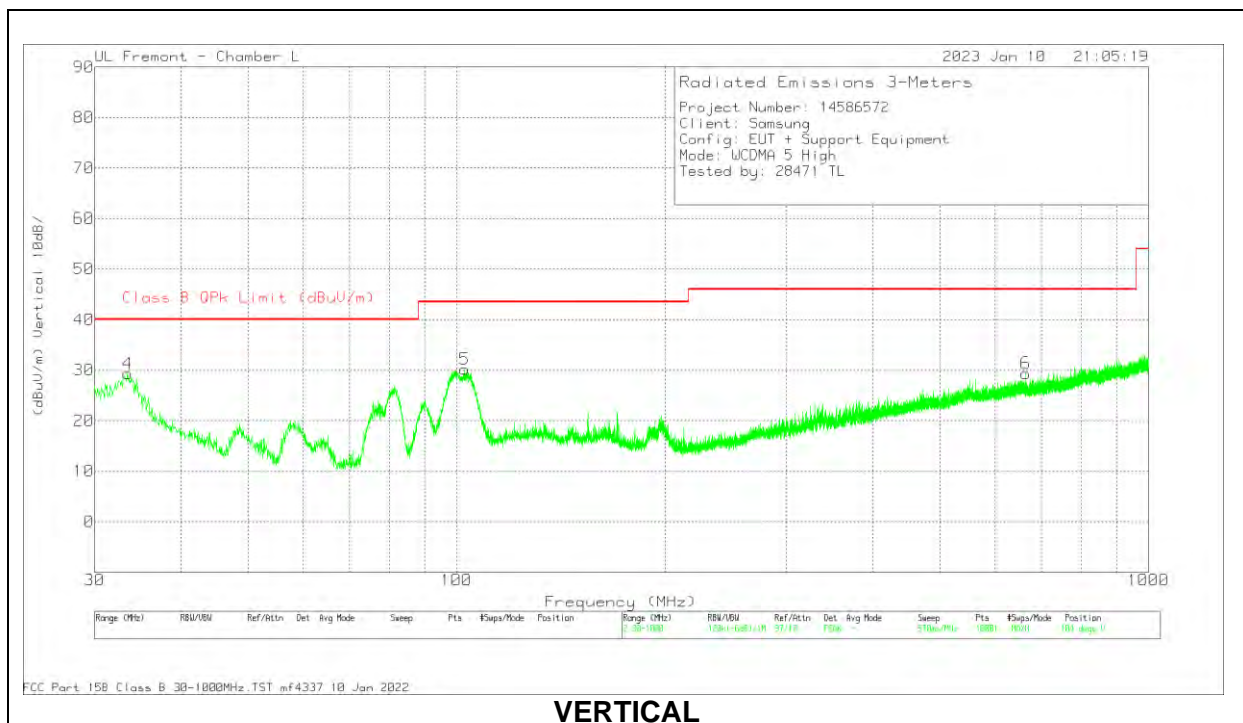
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.669	39.84	Pk	13.5	-31.1	22.24	40	-17.76	225	399	H
2	104.313	44.46	Pk	17.3	-30.7	31.06	43.52	-12.46	266	299	H
3	403.882	35.19	Pk	22.2	-29	28.39	46.02	-17.63	236	100	H
4	33.553	35.87	Pk	25.4	-31.3	29.97	40	-10.03	278	133	V
5	99.7863	44.73	Pk	16.1	-30.7	30.13	43.52	-13.39	166	100	V
6	170.273	35.41	Pk	18.4	-30.2	23.61	43.52	-19.91	187	100	V

Pk - Peak detector
 Qp - Quasi-Peak detector

HIGH CHANNEL



HORIZONTAL



VERTICAL

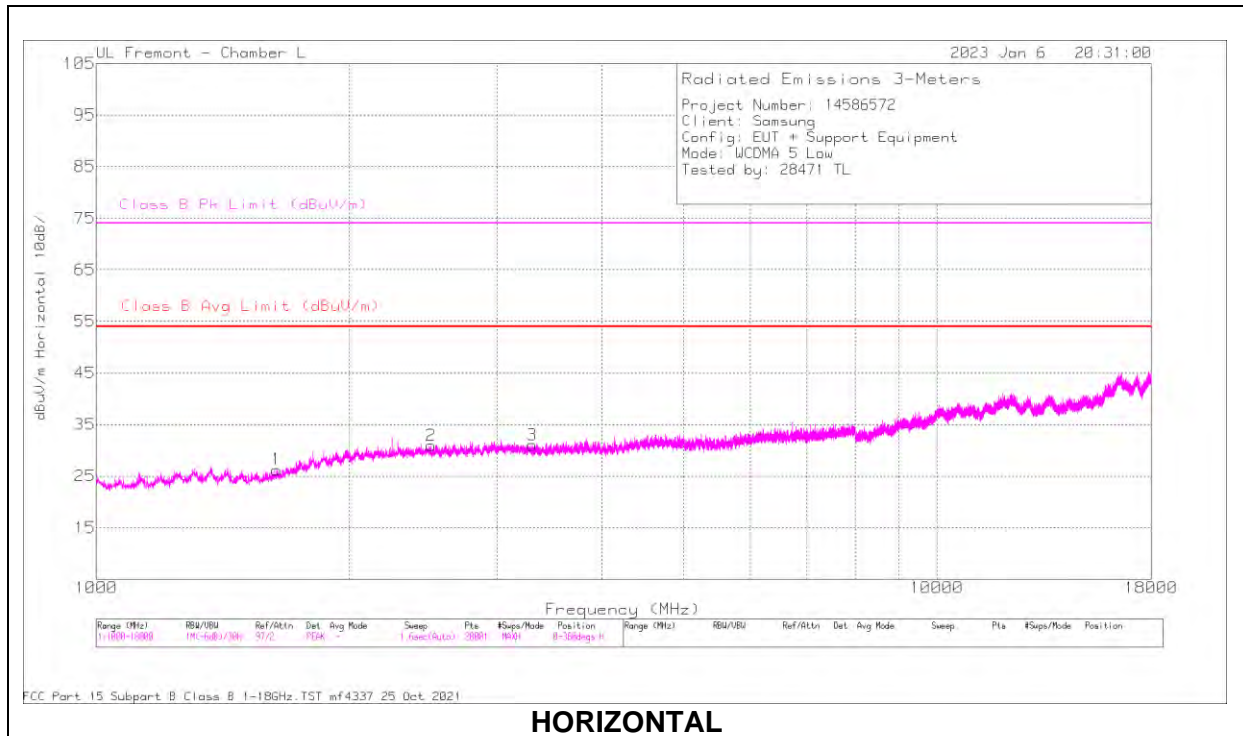
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	58.1301	39.53	Pk	13.5	-31.1	21.93	40	-18.07	15	399	H
2	104.205	44.91	Pk	17.3	-30.7	31.51	43.52	-12.01	239	298	H
3	412.396	35.4	Pk	22.5	-28.9	29	46.02	-17.02	94	99	H
4	33.5028	35.27	Pk	25.4	-31.3	29.37	40	-10.63	139	99	V
5	102.696	44.01	Pk	16.9	-30.7	30.21	43.52	-13.31	166	99	V
6	664.866	31.38	Pk	26.3	-28.3	29.38	46.02	-16.64	60	99	V

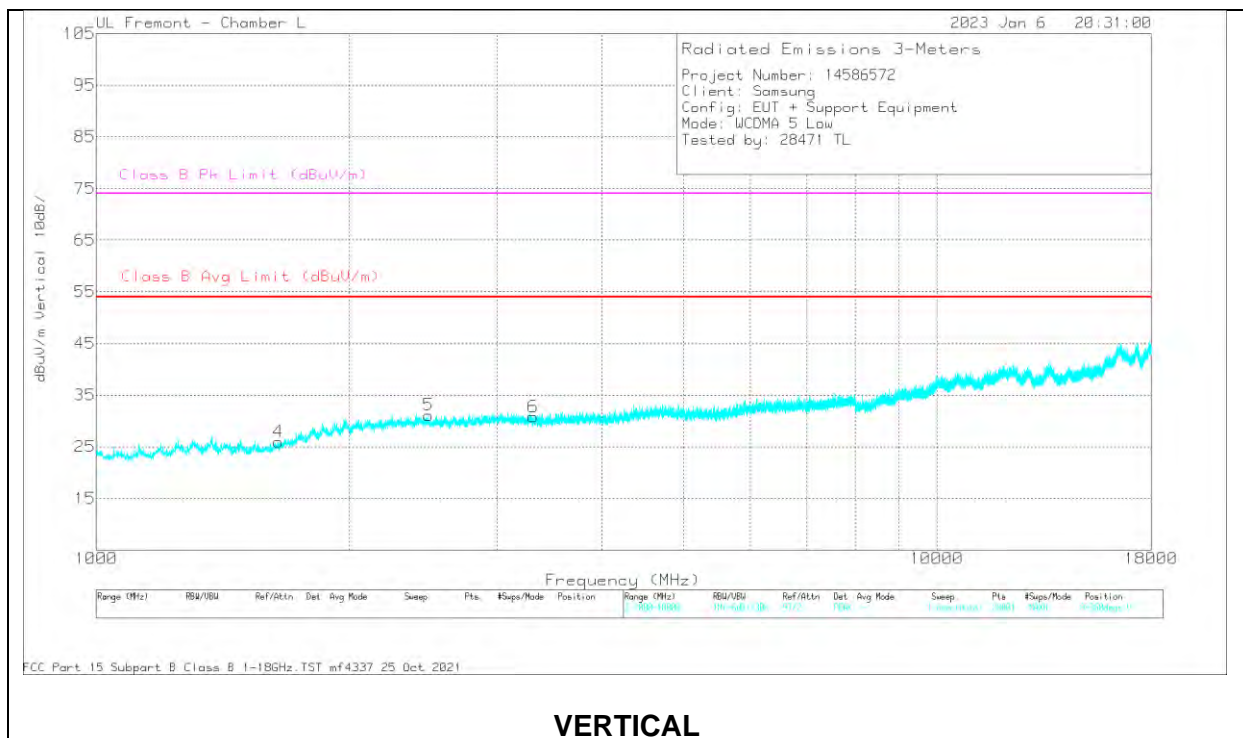
Pk - Peak detector
 Qp - Quasi-Peak detector

8.2.2. ABOVE 1GHz

LOW CHANNEL



HORIZONTAL



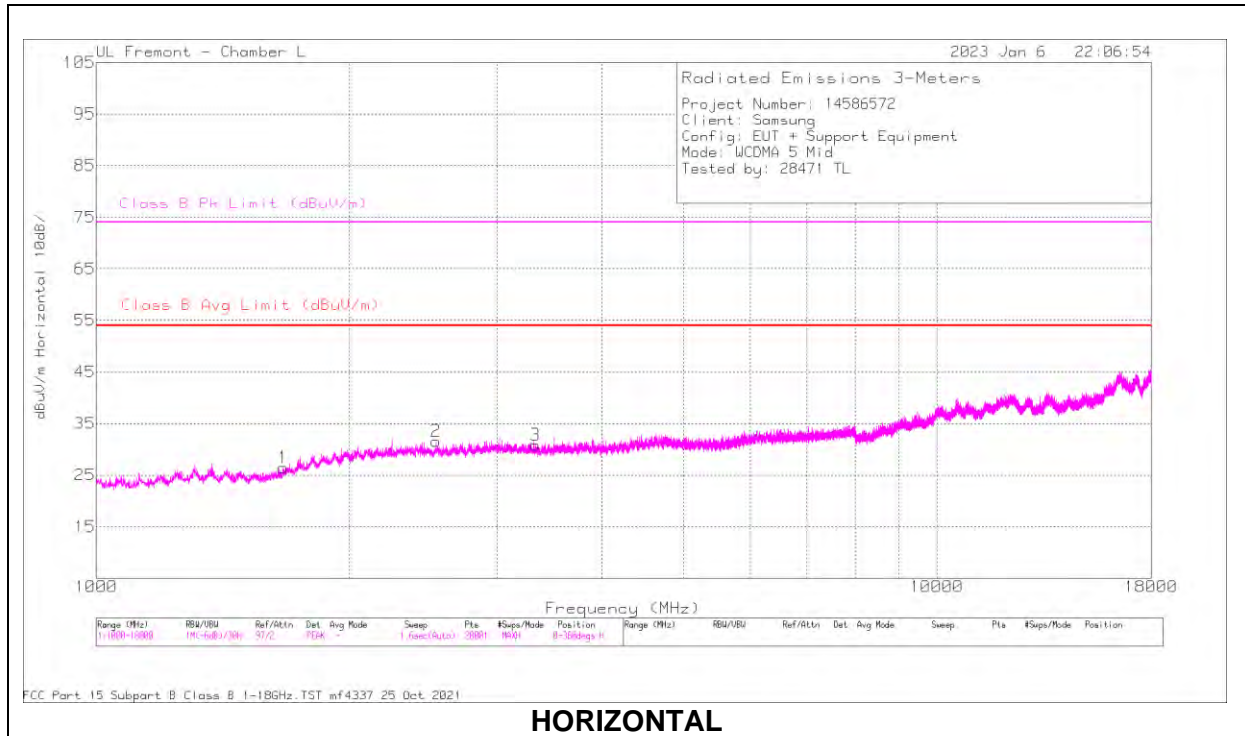
VERTICAL

RADIATED EMISSIONS

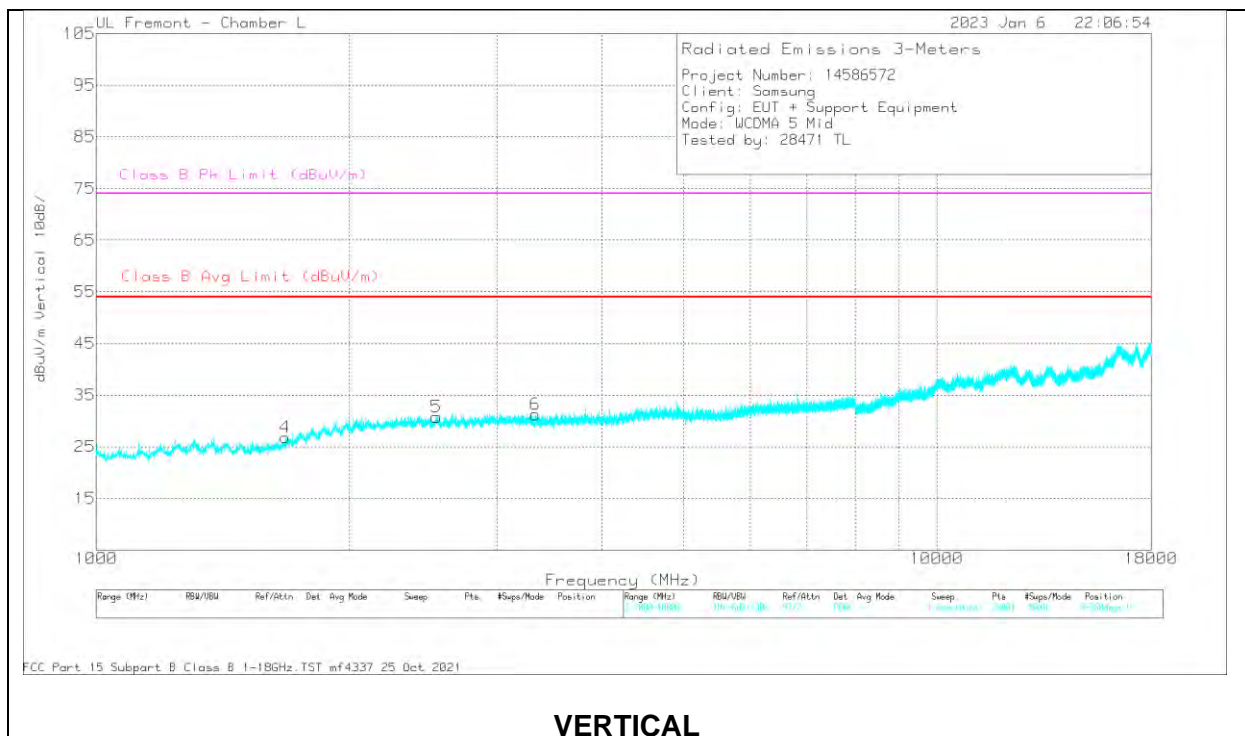
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1644.038	37.58	Pk	28.6	-32.1	34.08			74	-39.92	75	111	H
	1644.038	24.98	Av	28.6	-32.1	21.48	54	-32.52	-	-	75	111	H
2	2486.439	36.65	Pk	32.5	-29.7	39.45			74	-34.55	347	155	H
	2486.439	23.77	Av	32.5	-29.7	26.57	54	-27.43	-	-	347	155	H
3	3304.419	33.61	Pk	33.1	-28.8	37.91			74	-36.09	263	114	H
	3304.419	21.33	Av	33.1	-28.8	25.63	54	-28.37	-	-	263	114	H
4	1662.194	36.65	Pk	28.9	-32	33.55			74	-40.45	145	261	V
	1662.194	24.34	Av	28.9	-32	21.24	54	-32.76	-	-	145	261	V
5	2488.878	35.21	Pk	32.5	-29.7	38.01			74	-35.99	126	200	V
	2488.878	23.1	Av	32.5	-29.7	25.9	54	-28.1	-	-	126	200	V
6	3302.348	35.01	Pk	33.1	-28.8	39.31			74	-34.69	157	220	V
	3302.348	21.1	Av	33.1	-28.8	25.4	54	-28.6	-	-	157	220	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL



HORIZONTAL



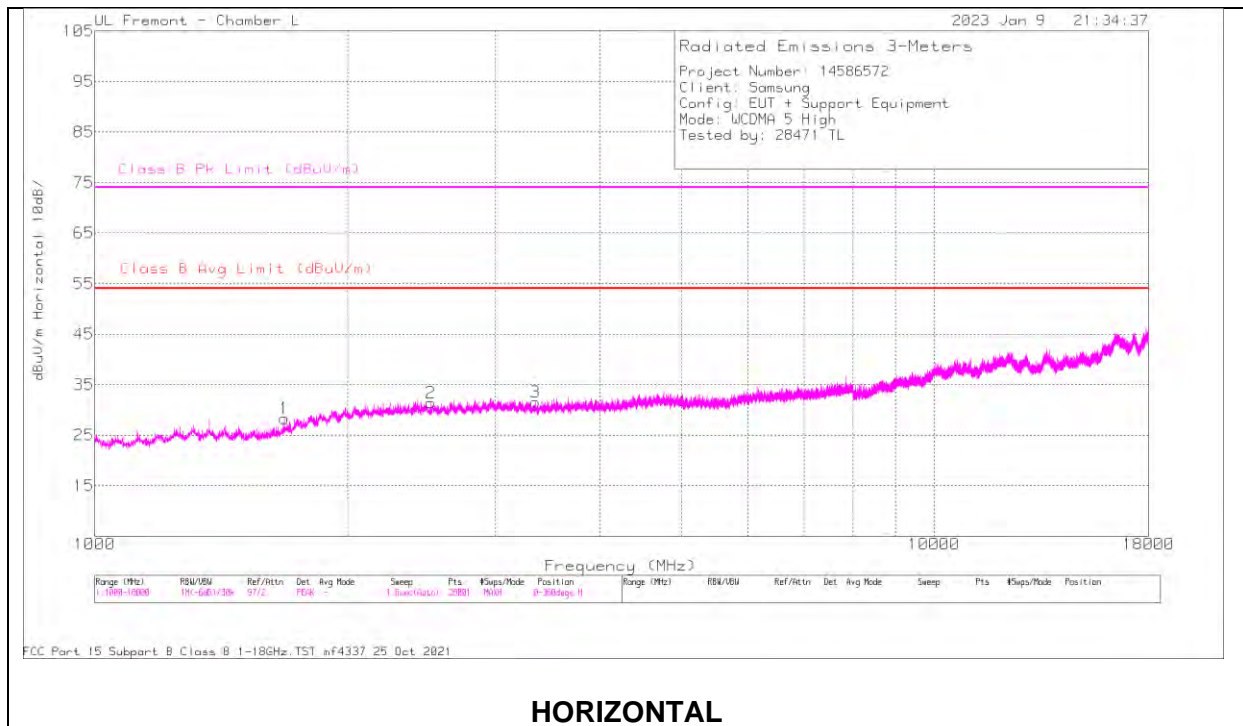
VERTICAL

RADIATED EMISSIONS

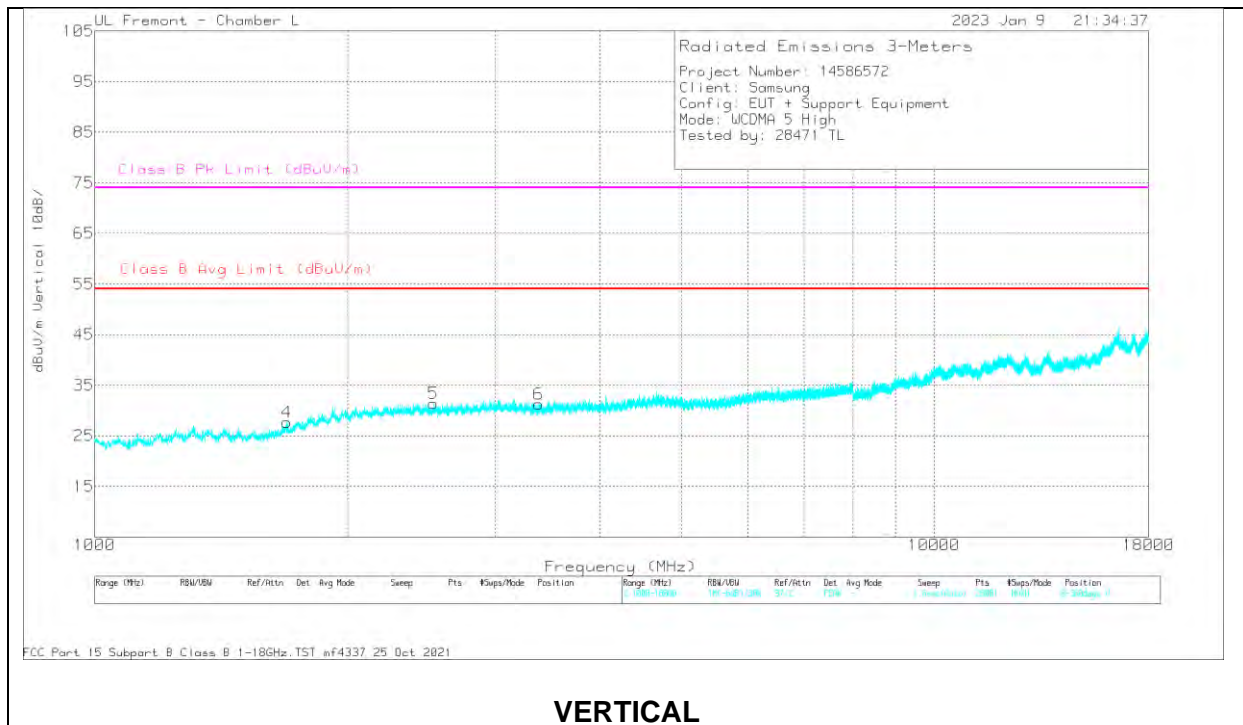
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1667.607	37.21	Pk	28.9	-31.9	34.21			74	-39.79	297	315	H
	1667.607	24.43	Av	28.9	-31.9	21.43	54	-32.57	-	-	297	315	H
2	2535.358	36.72	Pk	32.5	-29.7	39.52			74	-34.48	129	287	H
	2535.358	23.2	Av	32.5	-29.7	26	54	-28	-	-	129	287	H
3	3340.606	34.43	Pk	33.1	-29	38.53			74	-35.47	220	193	H
	3340.606	21.21	Av	33.1	-29	25.31	54	-28.69	-	-	220	193	H
4	1686.34	37.5	Pk	29.2	-31.9	34.8			74	-39.2	177	228	V
	1686.34	24.82	Av	29.2	-31.9	22.12	54	-31.88	-	-	177	228	V
5	2545.146	36.01	Pk	32.5	-29.7	38.81			74	-35.19	138	241	V
	2545.146	22.94	Av	32.5	-29.7	25.74	54	-28.26	-	-	138	241	V
6	3334.221	34.48	Pk	33.1	-28.9	38.68			74	-35.32	354	326	V
	3334.221	21.82	Av	33.1	-28.9	26.02	54	-27.98	-	-	354	326	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

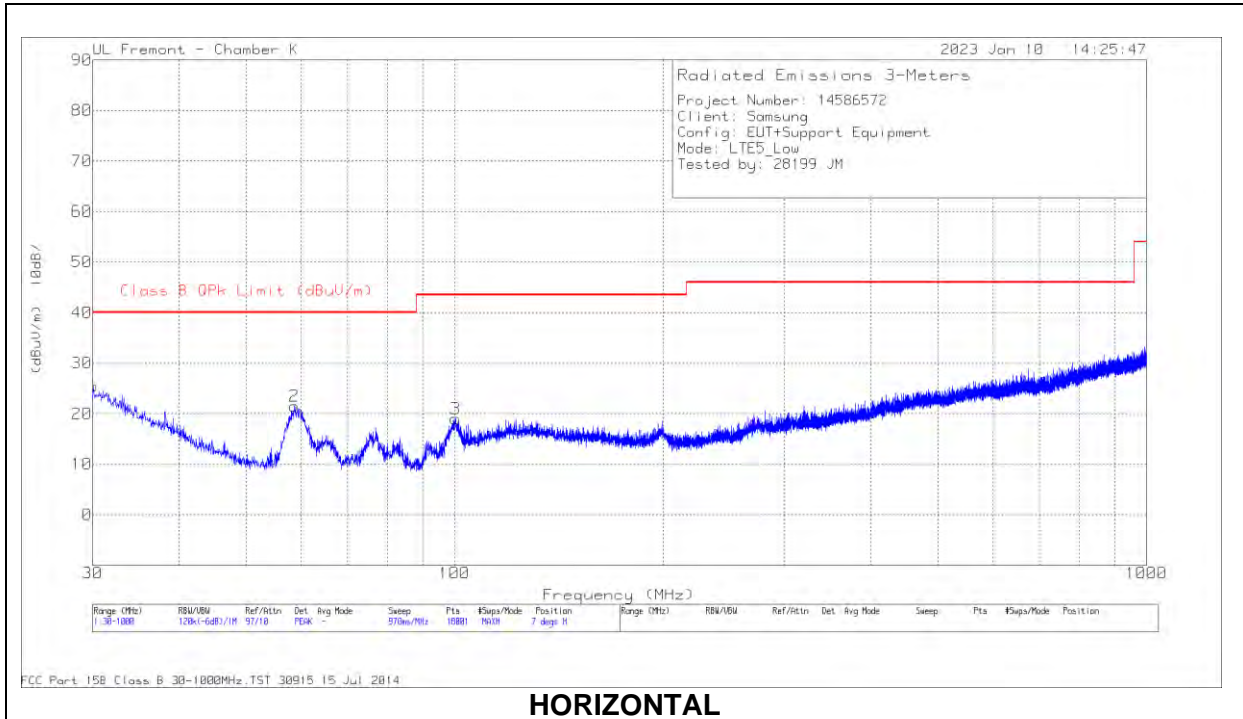
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Horn 1mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1681.814	38.84	Pk	29.1	-31.9	36.04	54	-17.96	74	-37.96	350	151	H
	1681.814	25.46	Av	29.1	-31.9	22.66	54	-31.34	-	-	350	151	H
2	2513.44	35.09	Pk	32.5	-29.7	37.89	54	-16.11	74	-36.11	52	118	H
	2513.44	22.89	Av	32.5	-29.7	25.69	54	-28.31	-	-	52	118	H
3	3346.616	35.45	Pk	33.1	-29	39.55	54	-14.45	74	-34.45	131	326	H
	3346.616	22.4	Av	33.1	-29	26.5	54	-27.5	-	-	131	326	H
4	1692.027	37.77	Pk	29.3	-31.9	35.17	54	-18.83	74	-38.83	320	337	V
	1692.027	25.03	Av	29.3	-31.9	22.43	54	-31.57	-	-	320	337	V
5	2533.465	37.17	Pk	32.5	-29.7	39.97	54	-14.03	74	-34.03	210	326	V
	2533.465	23.68	Av	32.5	-29.7	26.48	54	-27.52	-	-	210	326	V
6	3373.402	34.36	Pk	33.1	-29	38.46	54	-15.54	74	-35.54	237	166	V
	3373.402	22.05	Av	33.1	-29	26.15	54	-27.85	-	-	237	166	V

Pk - Peak detector
 Av - Average detection

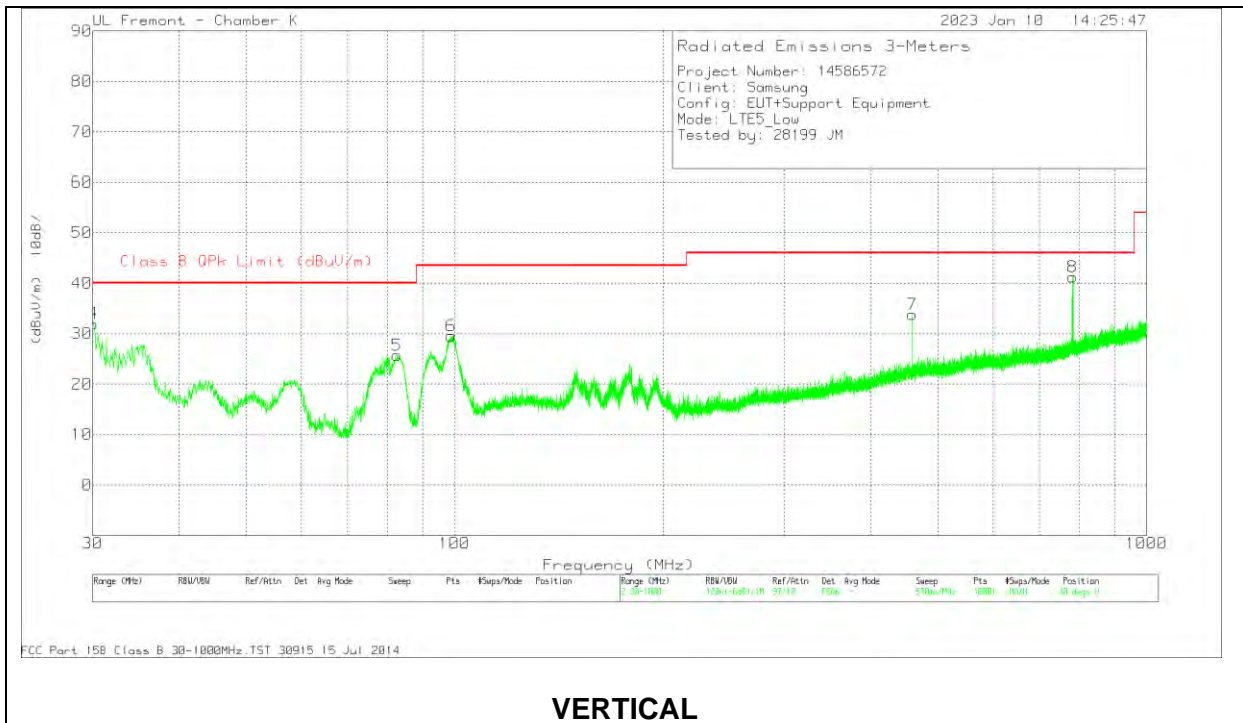
8.3. LTE BAND 5

8.3.1. BELOW 1GHz

LOW CHANNEL



HORIZONTAL



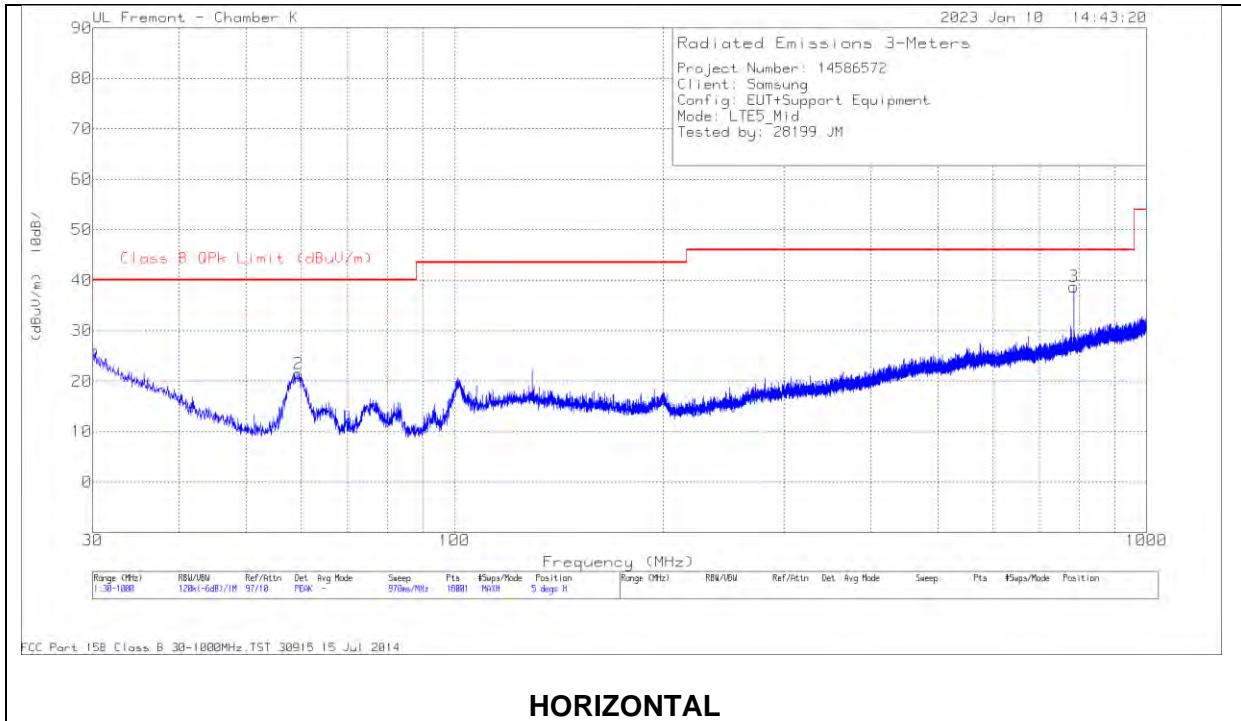
VERTICAL

RADIATED EMISSIONS

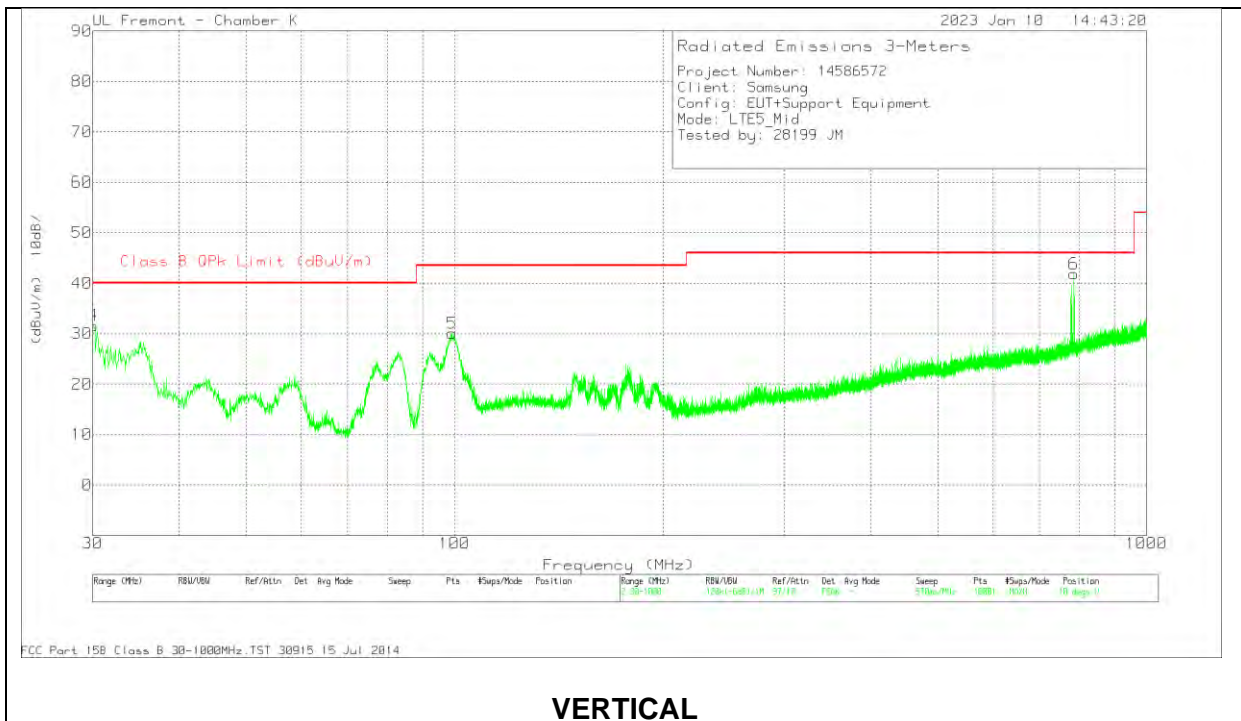
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0539	28.82	Pk	28.1	-31.5	25.42	40	-14.58	69	299	H
2	58.669	39.13	Pk	13.6	-31.2	21.53	40	-18.47	305	399	H
3	100.325	33.57	Pk	16.4	-30.9	19.07	43.52	-24.45	266	299	H
4	30.0539	35.39	Pk	28.1	-31.5	31.99	40	-8.01	322	100	V
5	82.5418	42.94	Pk	13.8	-31	25.74	40	-14.26	68	100	V
6	98.8701	44.49	Pk	16	-30.9	29.59	43.52	-13.93	40	100	V
7	458.633	39.6	Pk	23.3	-29.1	33.8	46.02	-12.22	153	100	V
8	782.29	38.34	Pk	27.8	-27.9	38.24	46.02	-7.78	85	100	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL



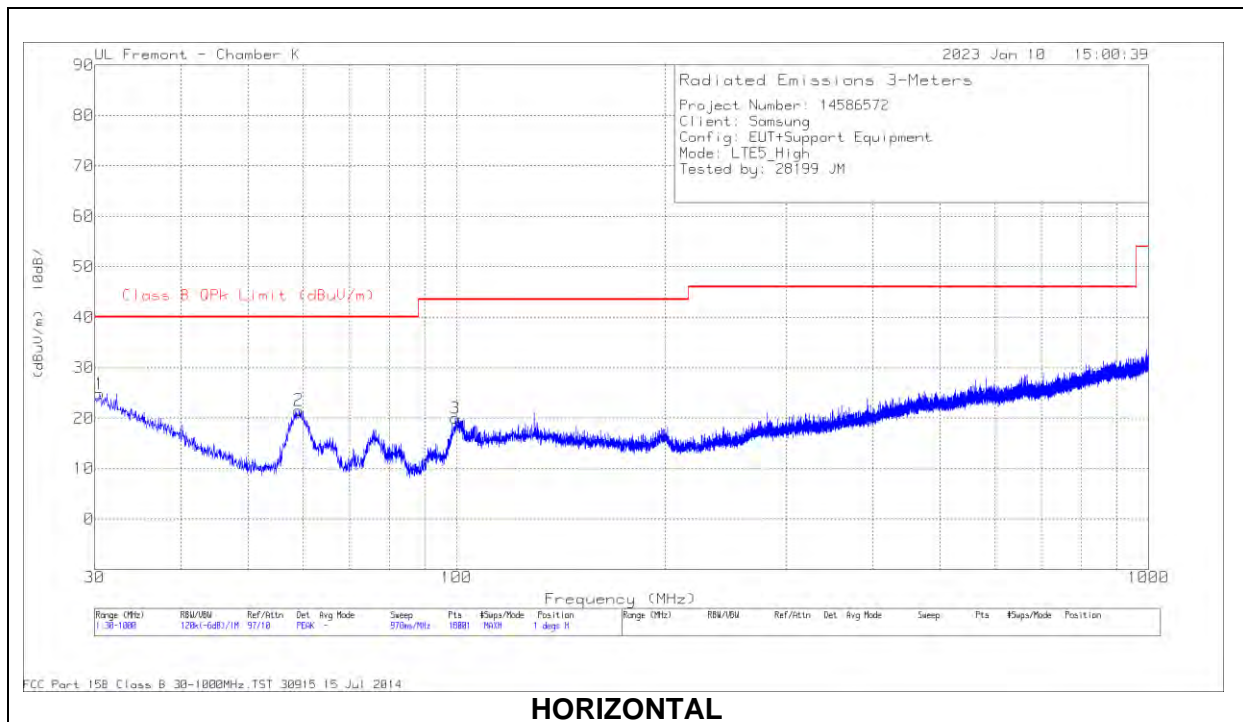
VERTICAL

RADIATED EMISSIONS

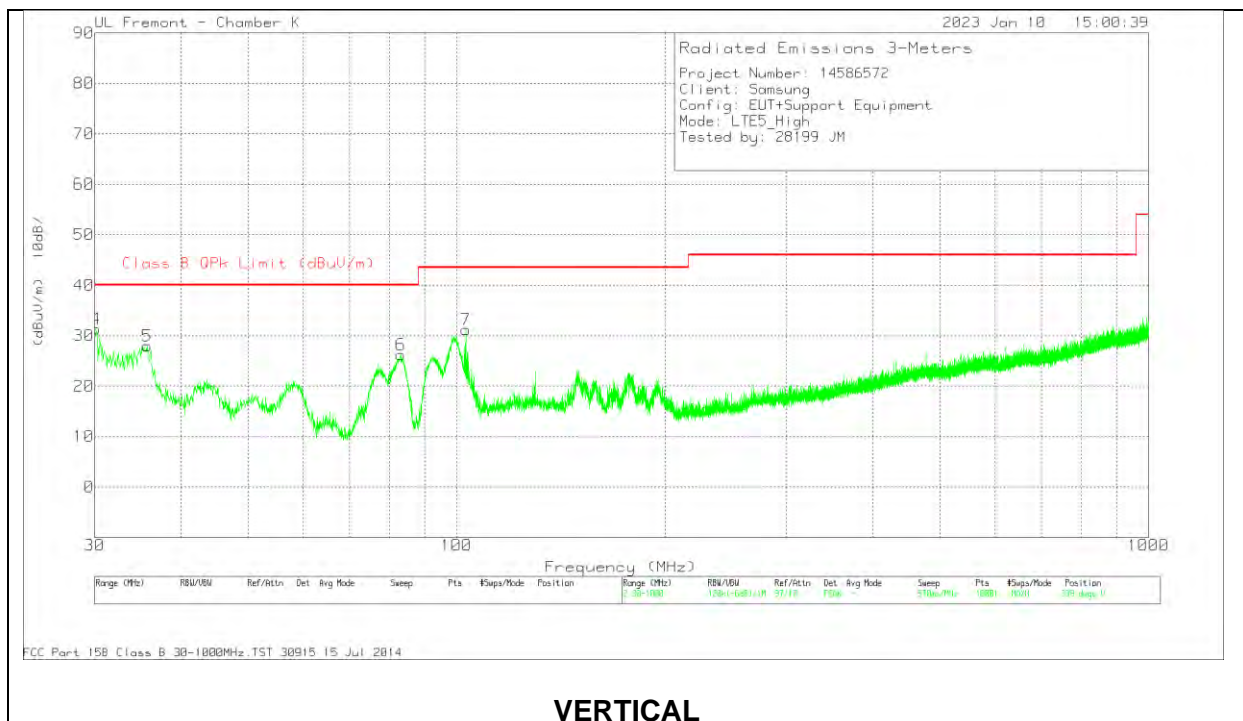
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1078	29.6	Pk	28	-31.5	26.1	40	-13.9	5	299	H
2	59.5312	38.98	Pk	13.7	-31.2	21.48	40	-18.52	103	399	H
3	785.362	38.7	Pk	27.7	-27.7	38.7	46.02	-7.32	122	399	H
4	30.0539	35.02	Pk	28.1	-31.5	31.62	40	-8.38	300	101	V
5	99.1396	44.85	Pk	16.1	-30.9	30.05	43.52	-13.47	357	101	V
6	783.087	29.23	Pk	27.8	-27.9	29.13	46.02	-16.89	33	264	V
	784.511	20.5	Qp	27.7	-27.8	20.4	46.02	-25.62	33	264	V

Pk - Peak detector
 Qp - Quasi-Peak detector

HIGH CHANNEL



HORIZONTAL



VERTICAL

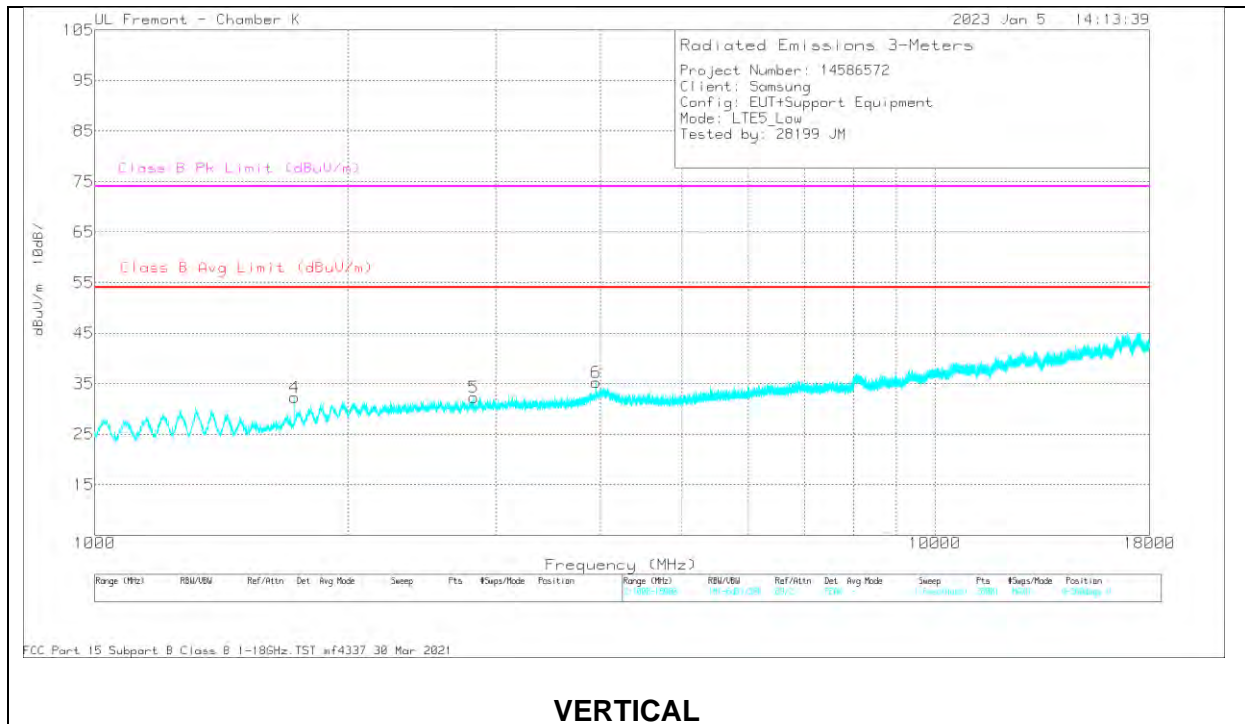
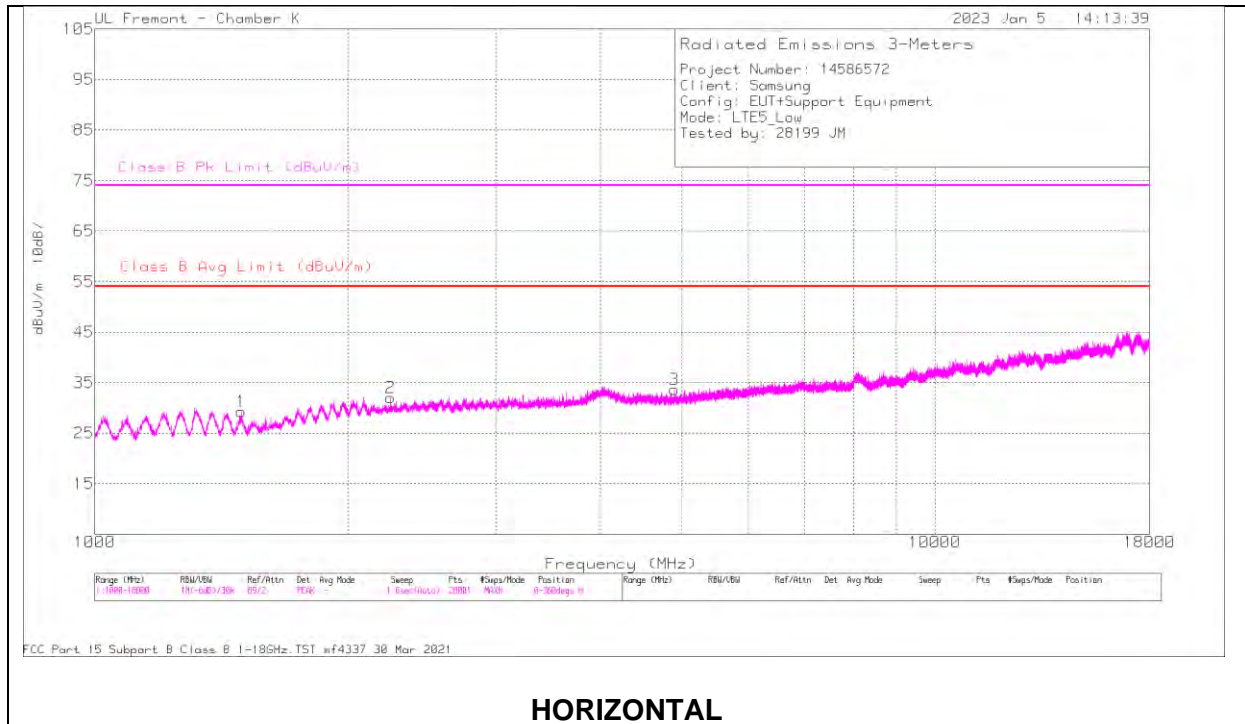
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.485	28.59	Pk	27.8	-31.5	24.89	40	-15.11	356	101	H
2	59.154	39.16	Pk	13.6	-31.2	21.56	40	-18.44	122	299	H
3	99.6246	34.71	Pk	16.2	-30.9	20.01	43.52	-23.51	283	299	H
4	30.1078	34.76	Pk	28	-31.5	31.26	40	-8.74	1	101	V
5	35.7122	35.75	Pk	23.7	-31.5	27.95	40	-12.05	187	101	V
6	83.0268	43.4	Pk	13.8	-31	26.2	40	-13.8	226	101	V
7	103.181	44.81	Pk	17.3	-30.9	31.21	43.52	-12.31	356	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

8.3.2. ABOVE 1GHz

LOW CHANNEL

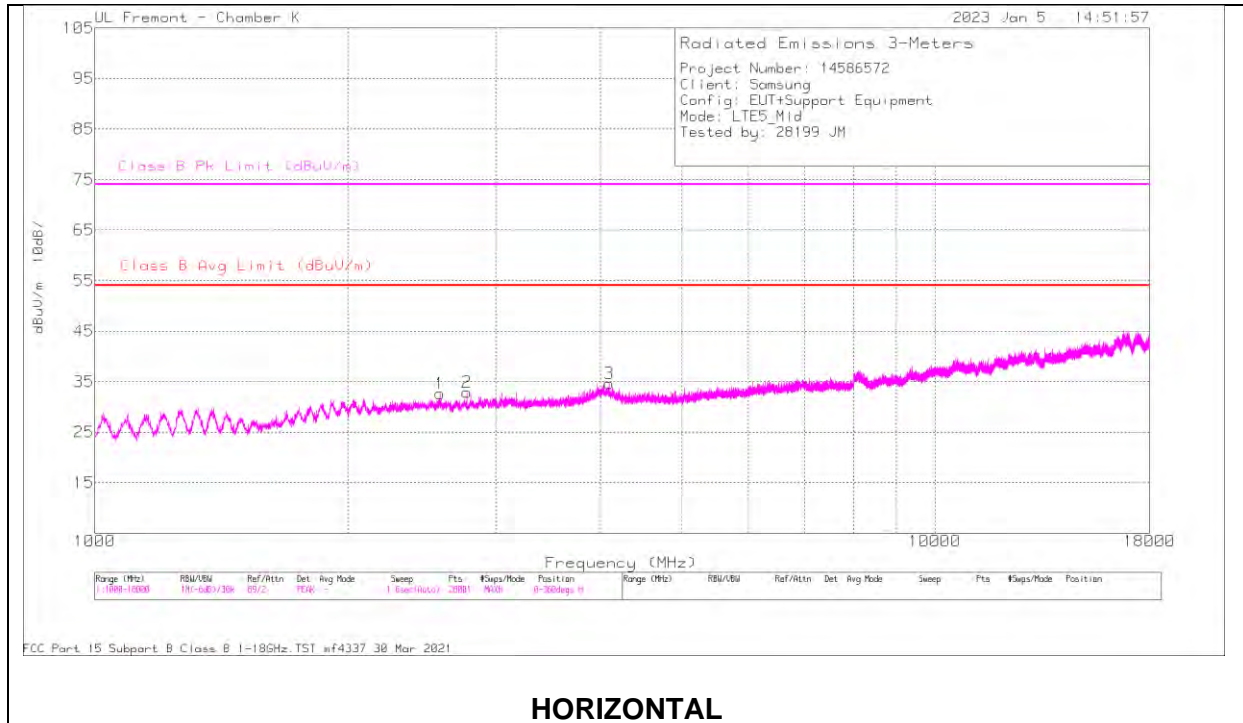


RADIATED EMISSIONS

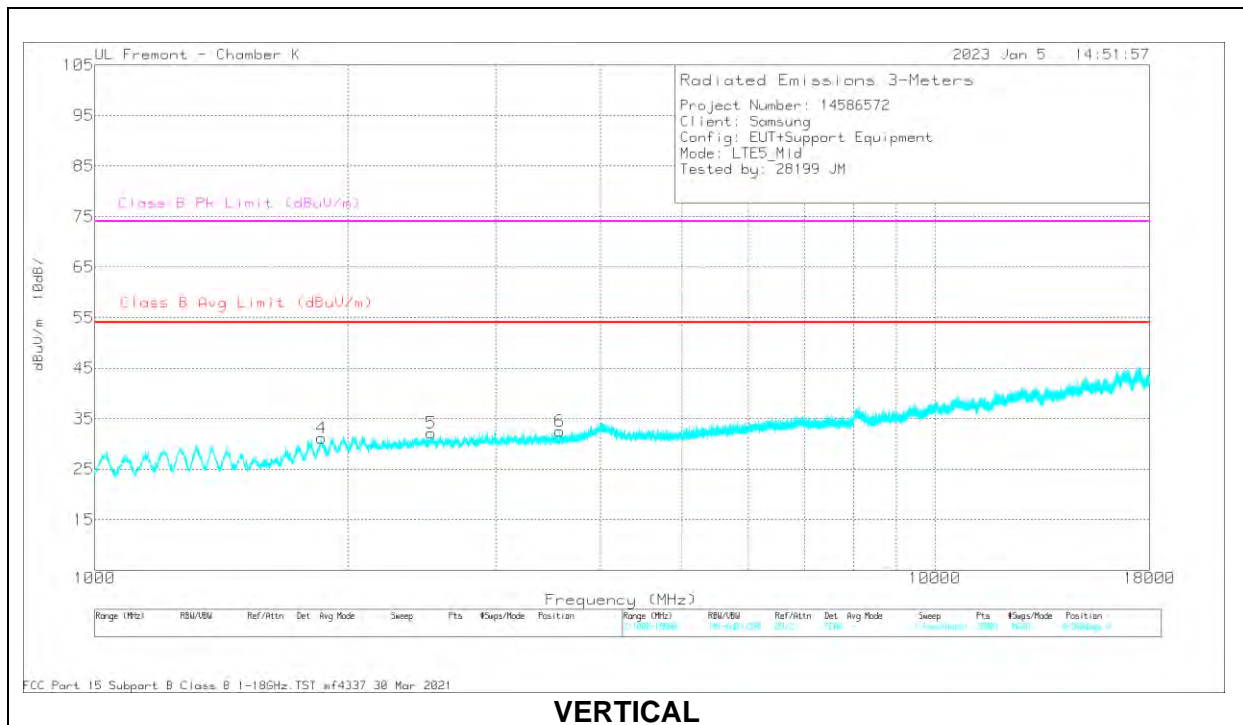
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1494.125	55.91	Pk	28	-46.2	37.71	-	-	74	-36.29	207	186	H
	1494.294	42.73	Av	28	-46.2	24.53	54	-29.47	-	-	207	186	H
2	2249.61	56.26	Pk	31.4	-45.4	42.26	-	-	74	-31.74	57	250	H
	2249.86	44	Av	31.4	-45.4	30	54	-24	-	-	57	250	H
3	4896.243	49.13	Pk	33.7	-41.3	41.53	-	-	74	-32.47	188	285	H
	4898.961	36.06	Av	33.7	-41.2	28.56	54	-25.44	-	-	188	285	H
4	1727.689	54.73	Pk	29.4	-46.3	37.83	-	-	74	-36.17	332	175	V
	1729.501	41.48	Av	29.4	-46.5	24.38	54	-29.62	-	-	332	175	V
5	2826.523	51.91	Pk	32.2	-43.6	40.51	-	-	74	-33.49	61	281	V
	2826.152	38.98	Av	32.2	-43.6	27.58	54	-26.42	-	-	61	281	V
6	3948.077	51.03	Pk	34.7	-42.3	43.43	-	-	74	-30.57	267	112	V
	3948.093	37.16	Av	34.7	-42.3	29.56	54	-24.44	-	-	267	112	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL



HORIZONTAL



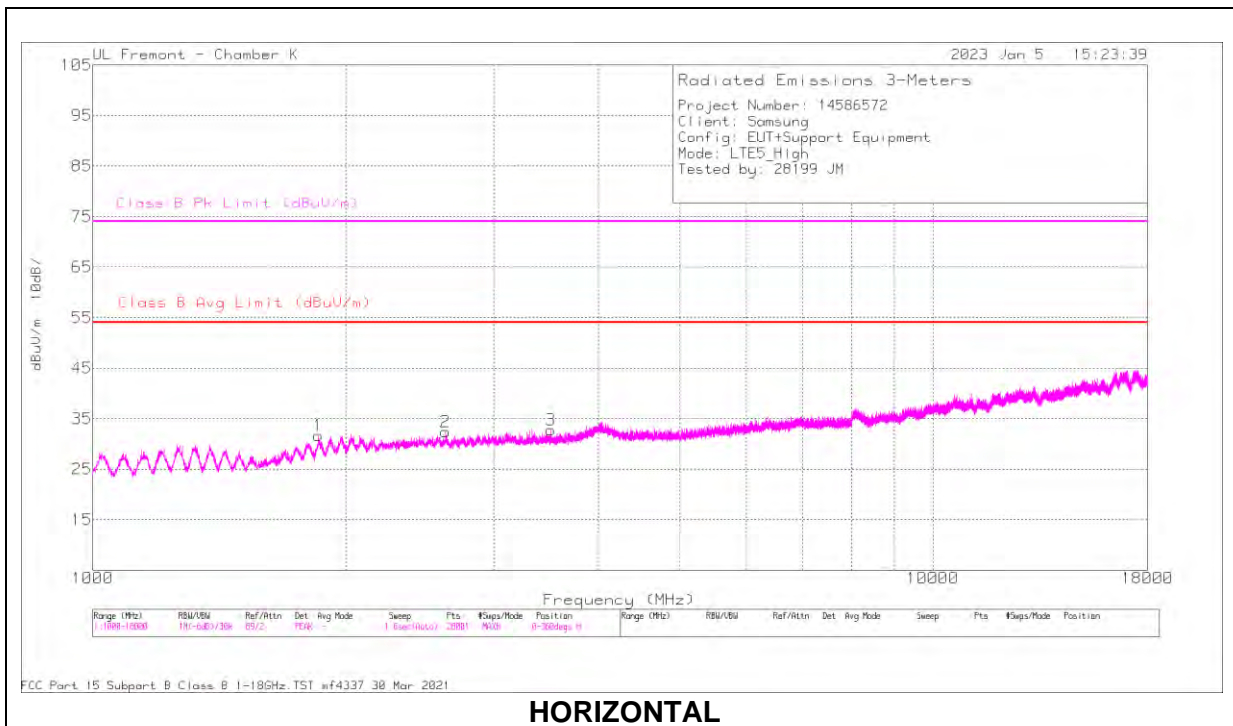
VERTICAL

RADIATED EMISSIONS

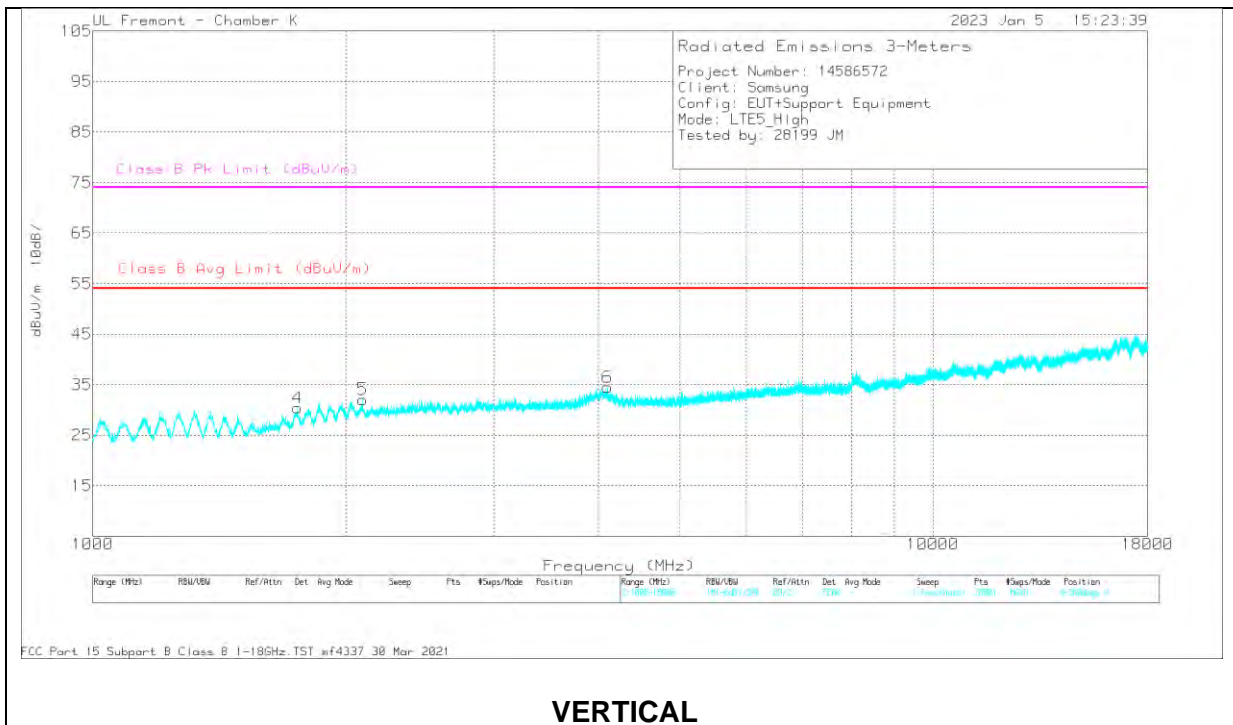
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2575.374	53.4	Pk	32.2	-44.1	41.5	-	-	74	-32.5	106	146	H
	2571.878	39.74	Av	32.2	-44.2	27.74	54	-26.26	-	-	106	146	H
2	2770.713	52.43	Pk	32.3	-44	40.73	-	-	74	-33.27	289	138	H
	2770.482	39.04	Av	32.3	-44	27.34	54	-26.66	-	-	289	138	H
3	4095.866	50.78	Pk	35	-42.2	43.58	-	-	74	-30.42	251	153	H
	4093.286	36.97	Av	35	-42.1	29.87	54	-24.13	-	-	251	153	H
4	1860.26	56.32	Pk	30.7	-46.2	40.82	-	-	74	-33.18	115	253	V
	1861.325	42.4	Av	30.8	-46.1	27.1	54	-26.9	-	-	115	253	V
5	2515.782	53.28	Pk	32.2	-44.4	41.08	-	-	74	-32.92	141	392	V
	2514.694	39.89	Av	32.2	-44.4	27.69	54	-26.31	-	-	141	392	V
6	3574.041	50.8	Pk	33.1	-42.4	41.5	-	-	74	-32.5	334	222	V
	3575.577	37.33	Av	33.1	-42.4	28.03	54	-25.97	-	-	334	222	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

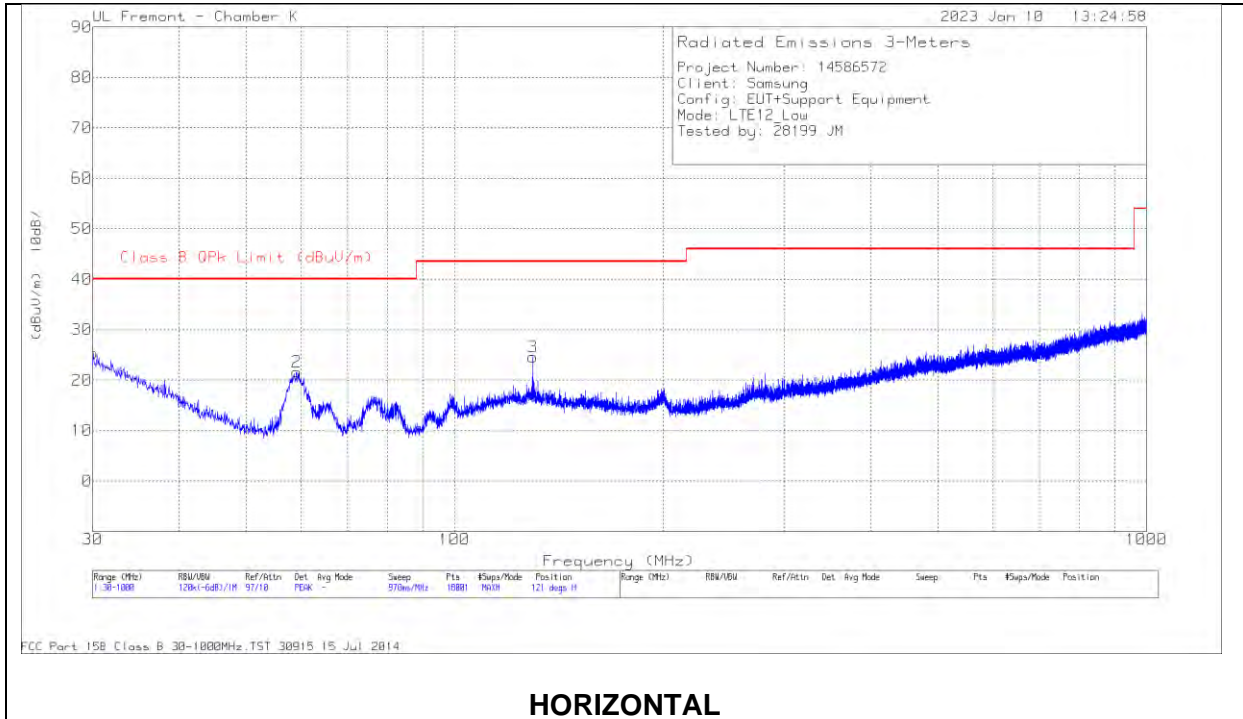
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1855.346	55.65	Pk	30.7	-46	40.35	-	-	74	-33.65	352	377	H
	1858.577	42.39	Av	30.7	-46.2	26.89	54	-27.11	-	-	352	377	H
2	2628.645	52.72	Pk	32.3	-43.9	41.12	-	-	74	-32.88	270	228	H
	2630.109	39.31	Av	32.3	-43.9	27.71	54	-26.29	-	-	270	228	H
3	3506.801	50.87	Pk	32.8	-42.4	41.27	-	-	74	-32.73	296	250	H
	3507.288	37.52	Av	32.8	-42.4	27.92	54	-26.08	-	-	296	250	H
4	1752.454	56.24	Pk	29.7	-46.4	39.54	-	-	74	-34.46	265	211	V
	1753.451	42.49	Av	29.7	-46.5	25.69	54	-28.31	-	-	265	211	V
5	2094.462	54.69	Pk	31.7	-45.5	40.89	-	-	74	-33.11	215	123	V
	2096.256	41.09	Av	31.7	-45.4	27.39	54	-26.61	-	-	215	123	V
6	4097.129	50.75	Pk	35	-42	43.75	-	-	74	-30.25	206	345	V
	4097.167	36.98	Av	35	-42	29.98	54	-24.02	-	-	206	345	V

Pk - Peak detector
 Av - Average detection

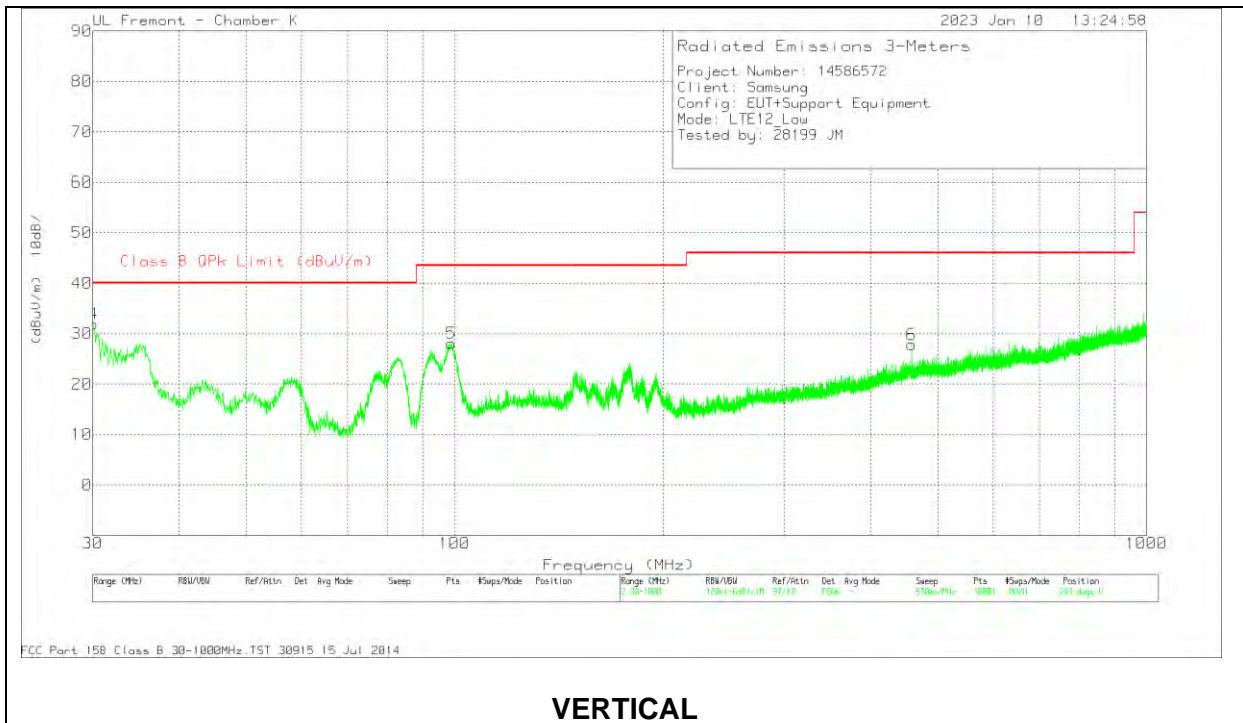
8.4. LTE BAND 12

8.4.1. BELOW 1GHz

LOW CHANNEL



HORIZONTAL



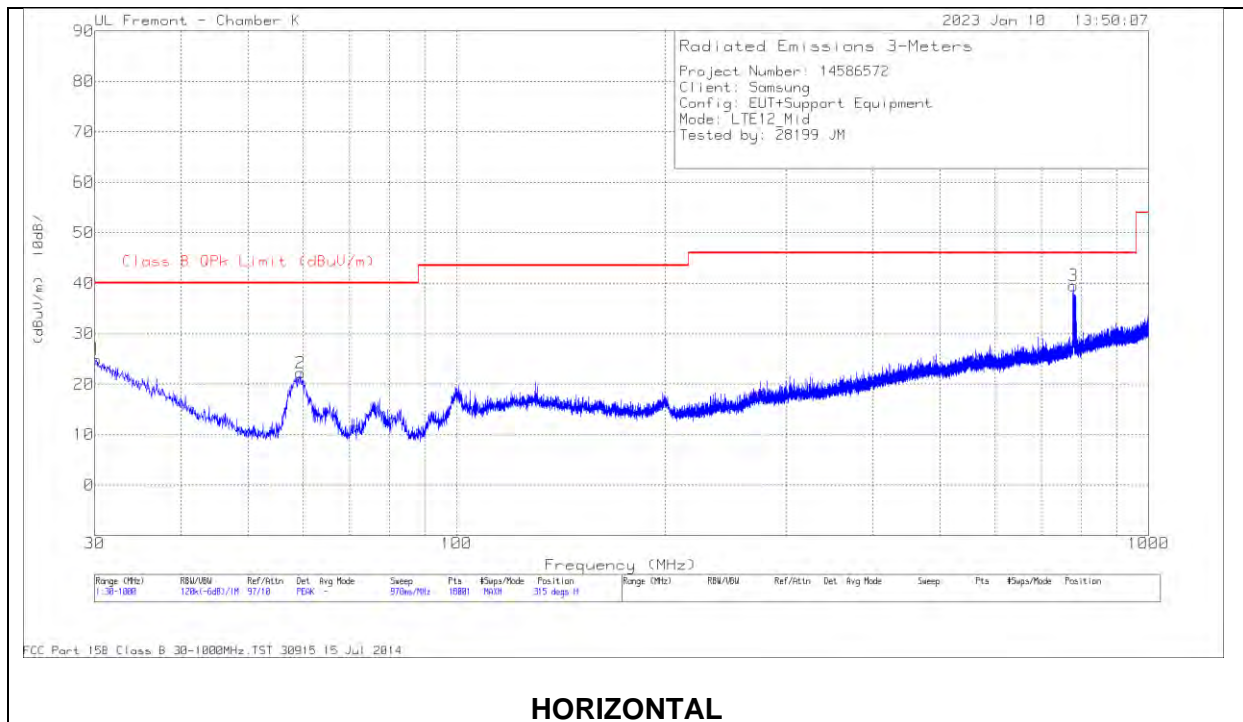
VERTICAL

RADIATED EMISSIONS

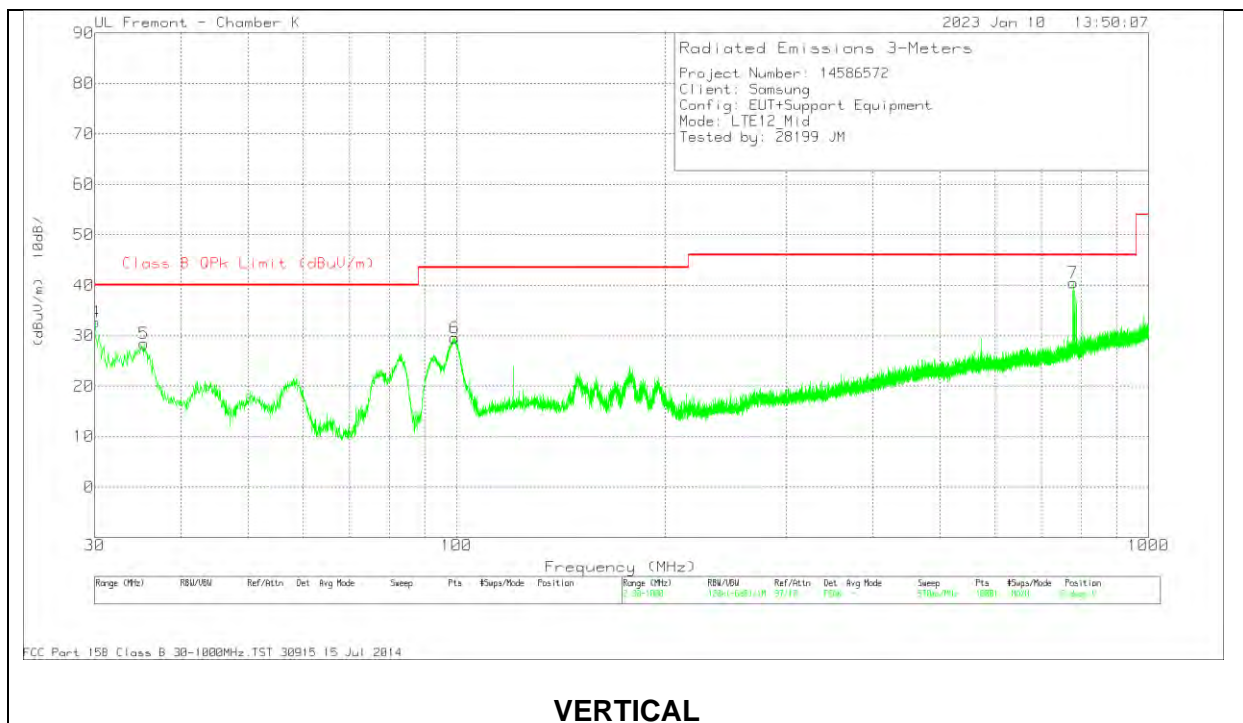
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0539	28.74	Pk	28.1	-31.5	25.34	40	-14.66	138	199	H
2	59.154	39.27	Pk	13.6	-31.2	21.67	40	-18.33	121	399	H
3	129.802	34.96	Pk	20.3	-30.7	24.56	43.52	-18.96	355	299	H
4	30.0539	35.32	Pk	28.1	-31.5	31.92	40	-8.08	358	101	V
5	98.924	43	Pk	16	-30.9	28.1	43.52	-15.42	358	101	V
6	457.609	33.68	Pk	23.3	-29.1	27.88	46.02	-18.14	9	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL



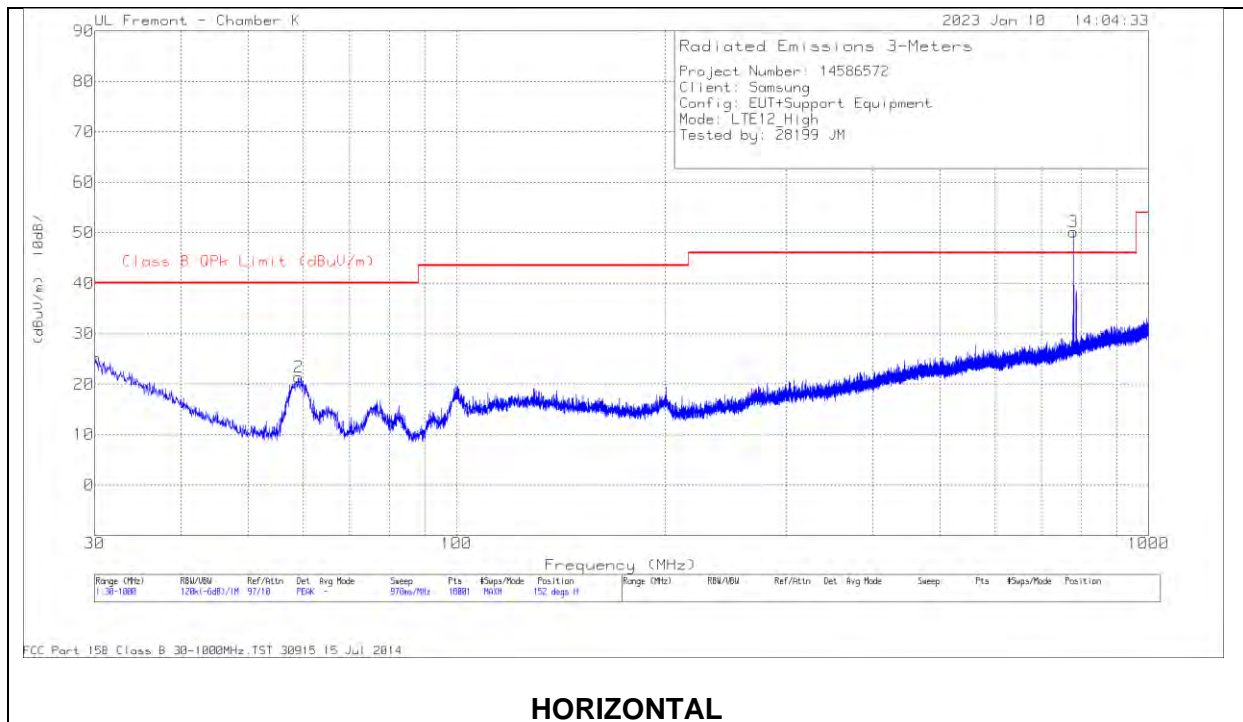
VERTICAL

RADIATED EMISSIONS

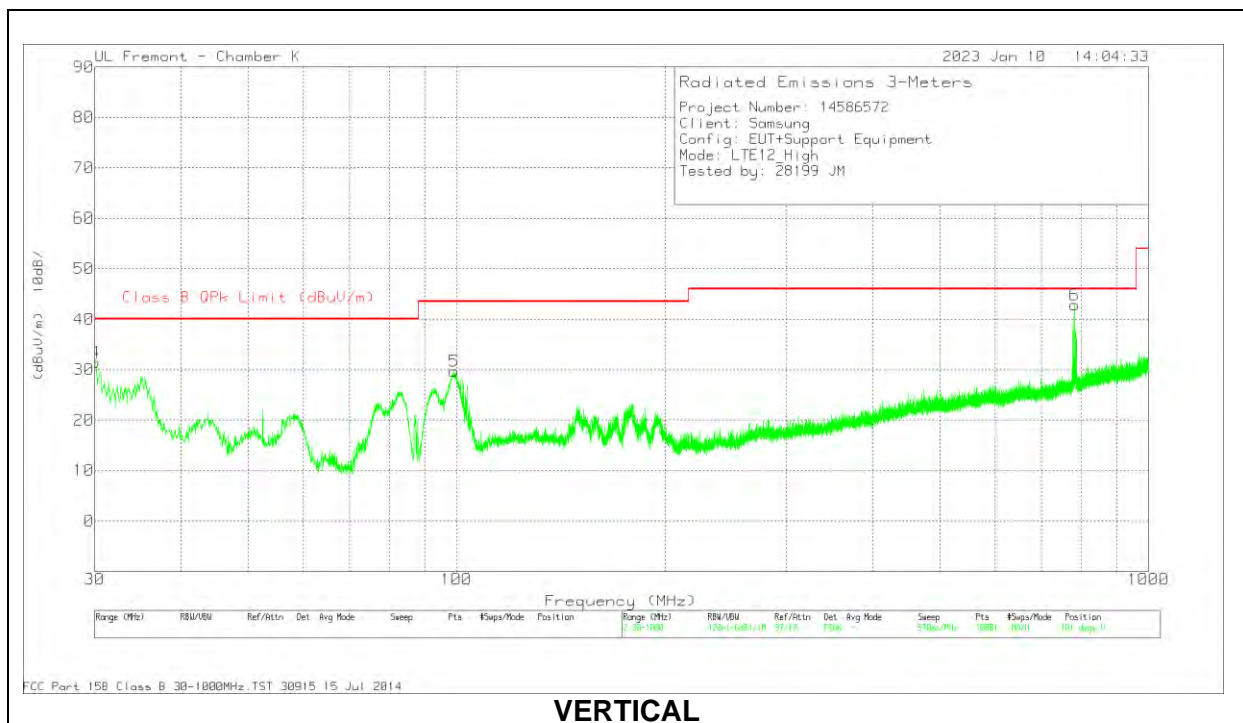
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1617	28.41	Pk	28	-31.5	24.91	40	-15.09	5	199	H
2	59.4773	39.72	Pk	13.7	-31.2	22.22	40	-17.78	117	399	H
3	778.033	39.46	Pk	27.8	-27.7	39.56	46.02	-6.46	5	199	H
4	30.0539	36.08	Pk	28.1	-31.5	32.68	40	-7.32	342	101	V
5	35.335	36	Pk	24	-31.5	28.5	40	-11.5	246	101	V
6	99.409	44.26	Pk	16.2	-30.9	29.56	43.52	-13.96	322	101	V
7	778.189	32.38	Pk	27.8	-27.7	32.48	46.02	-13.54	139	361	V
	777.884	20.34	Qp	27.8	-27.7	20.44	46.02	-25.58	139	361	V

Pk - Peak detector
 Qp - Quasi-Peak detector

HIGH CHANNEL



HORIZONTAL



VERTICAL

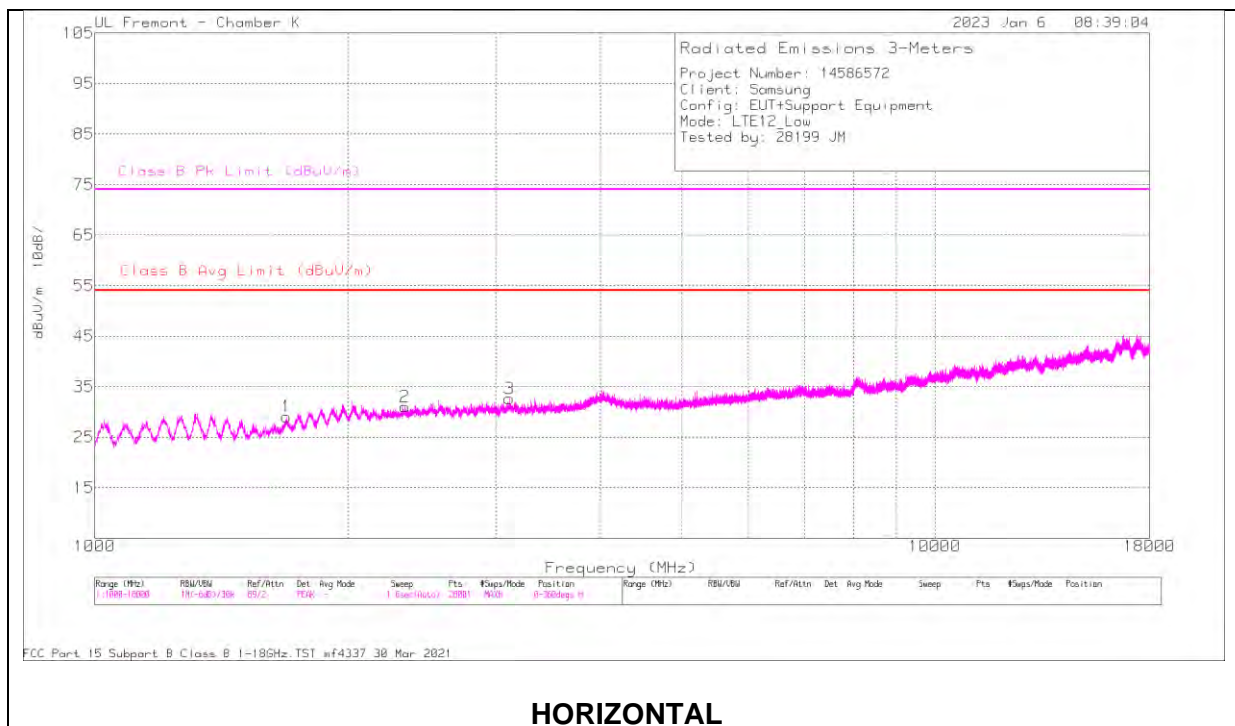
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1078	28.67	Pk	28	-31.5	25.17	40	-14.83	2	199	H
2	59.2078	39.01	Pk	13.6	-31.2	21.41	40	-18.59	135	299	H
3	778.26	36.33	Pk	27.8	-27.7	36.43	46.02	-9.59	335	280	H
	778.606	30.18	Qp	27.8	-27.7	30.28	46.02	-15.74	335	280	H
4	30.0539	34.8	Pk	28.1	-31.5	31.4	40	-8.6	334	101	V
5	99.1935	44.45	Pk	16.1	-30.9	29.65	43.52	-13.87	351	101	V
6	782.467	40.78	Pk	27.8	-27.9	40.68	46.02	-5.34	212	341	V
	783.378	31.89	Qp	27.7	-27.9	31.69	46.02	-14.33	212	341	V

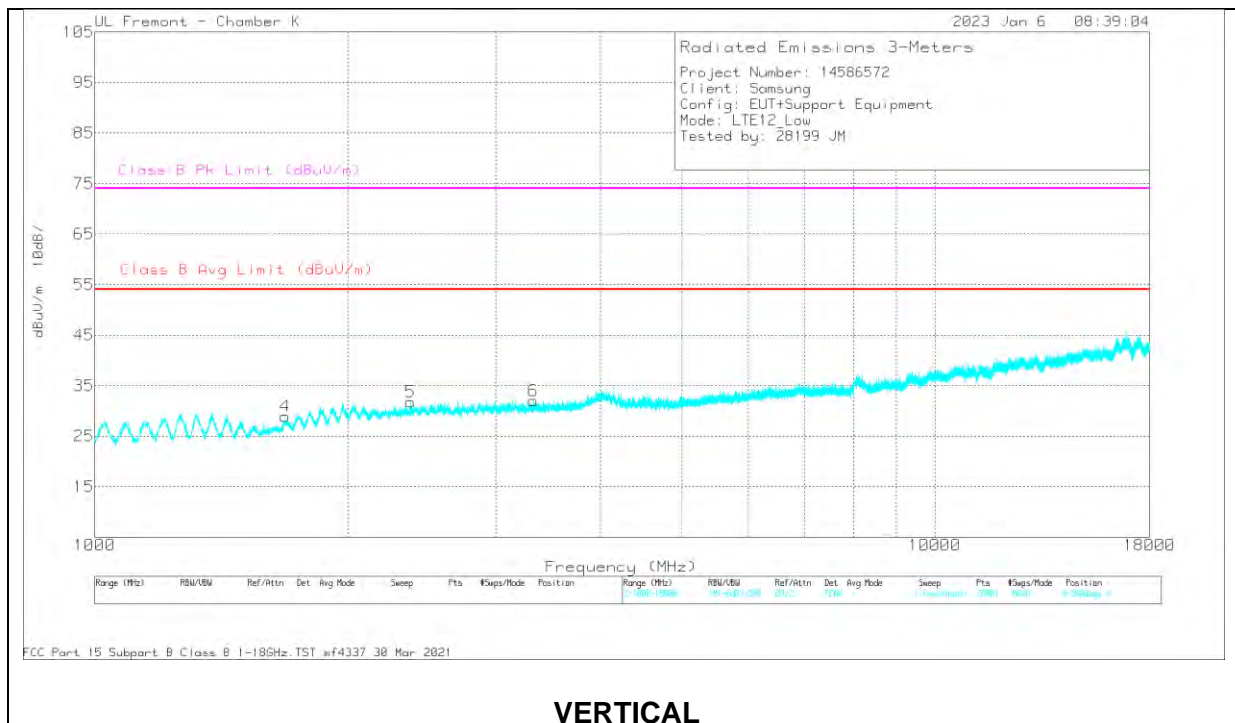
Pk - Peak detector
 Qp - Quasi-Peak detector

8.4.2. ABOVE 1GHz

LOW CHANNEL



HORIZONTAL



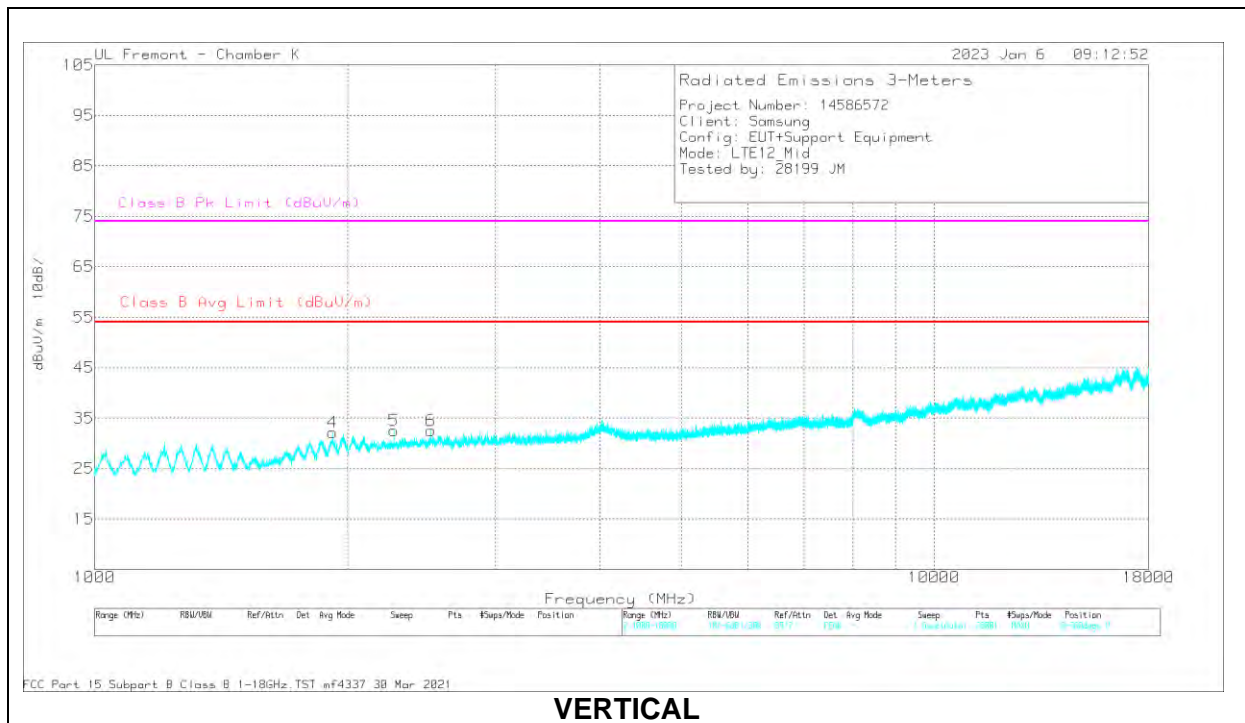
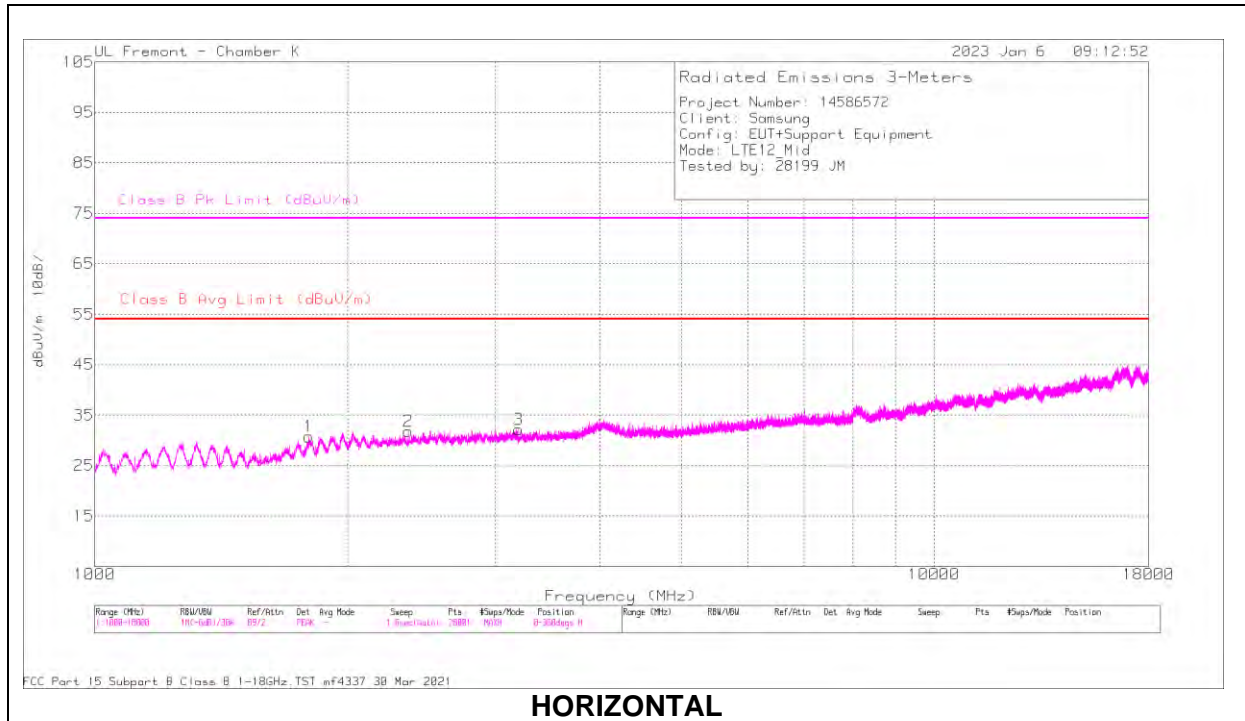
VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1688.846	56.21	Pk	28.9	-46.4	38.71	-	-	74	-35.29	302	350	H
	1690.87	42.36	Av	29	-46.5	24.86	54	-29.14	-	-	302	350	H
2	2337.815	53.05	Pk	31.5	-45	39.55	-	-	74	-34.45	355	120	H
	2339.738	40.28	Av	31.5	-44.9	26.88	54	-27.12	-	-	355	120	H
3	3112.197	51.4	Pk	32.9	-42.8	41.5	-	-	74	-32.5	190	367	H
	3114.946	38	Av	32.9	-42.7	28.2	54	-25.8	-	-	190	367	H
4	1684.725	55.97	Pk	28.9	-46.6	38.27	-	-	74	-35.73	107	374	V
	1686.813	42.41	Av	28.9	-46.6	24.71	54	-29.29	-	-	107	374	V
5	2377.115	53.29	Pk	31.7	-44.8	40.19	-	-	74	-33.81	355	316	V
	2375.038	39.88	Av	31.7	-44.9	26.68	54	-27.32	-	-	355	316	V
6	3326.706	51.11	Pk	32.8	-42.6	41.31	-	-	74	-32.69	224	372	V
	3326.058	37.62	Av	32.8	-42.6	27.82	54	-26.18	-	-	224	372	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL

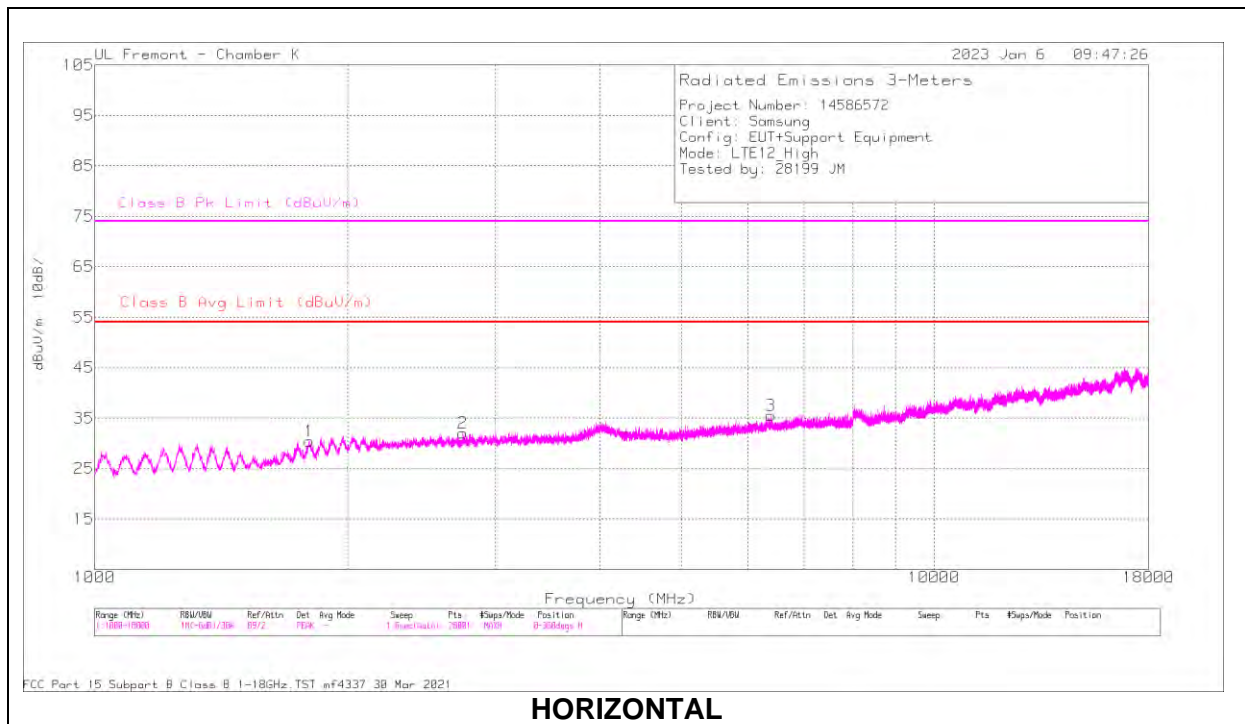


RADIATED EMISSIONS

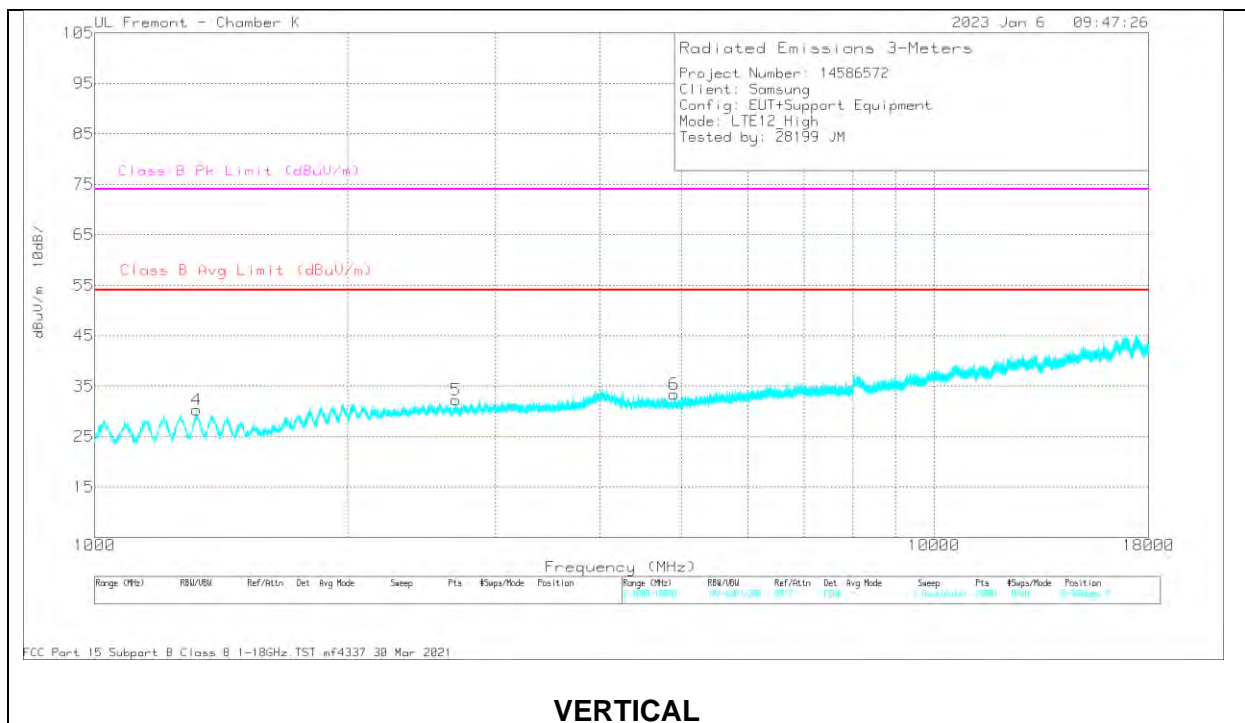
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1800.839	55.4	Pk	30.2	-46.2	39.4	-	-	74	-34.6	183	169	H
	1801.29	42.53	Av	30.2	-46.2	26.53	54	-27.47	-	-	183	169	H
2	2362.817	54.15	Pk	31.7	-44.8	41.05	-	-	74	-32.95	310	160	H
	2363.797	40.06	Av	31.7	-44.8	26.96	54	-27.04	-	-	310	160	H
3	3196.354	51.04	Pk	32.8	-42.4	41.44	-	-	74	-32.56	8	145	H
	3196.026	37.22	Av	32.8	-42.5	27.52	54	-26.48	-	-	8	145	H
4	1919.013	56.2	Pk	31.2	-46.1	41.3	-	-	74	-32.7	321	336	V
	1920.195	42.08	Av	31.2	-46.2	27.08	54	-26.92	-	-	321	336	V
5	2274.765	54.36	Pk	31.4	-45.3	40.46	-	-	74	-33.54	165	150	V
	2275.09	40.74	Av	31.4	-45.4	26.74	54	-27.26	-	-	165	150	V
6	2513.649	53.31	Pk	32.2	-44.5	41.01	-	-	74	-32.99	96	311	V
	2515.09	39.85	Av	32.2	-44.4	27.65	54	-26.35	-	-	96	311	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

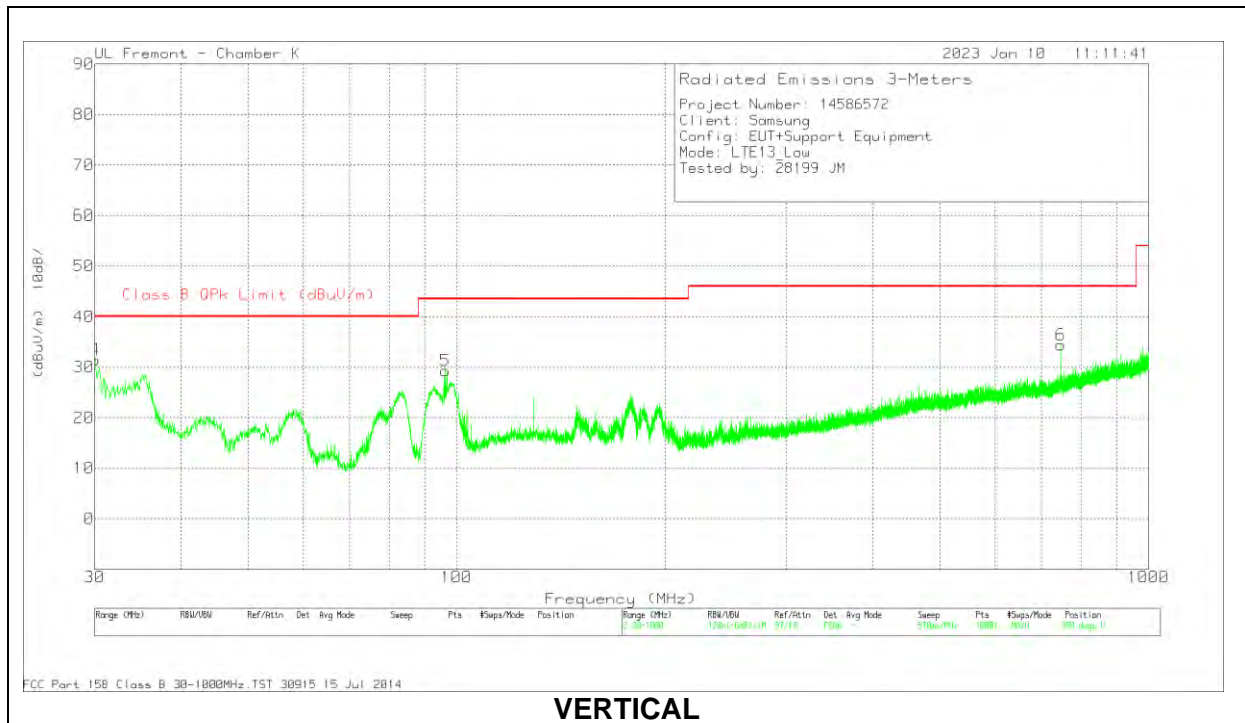
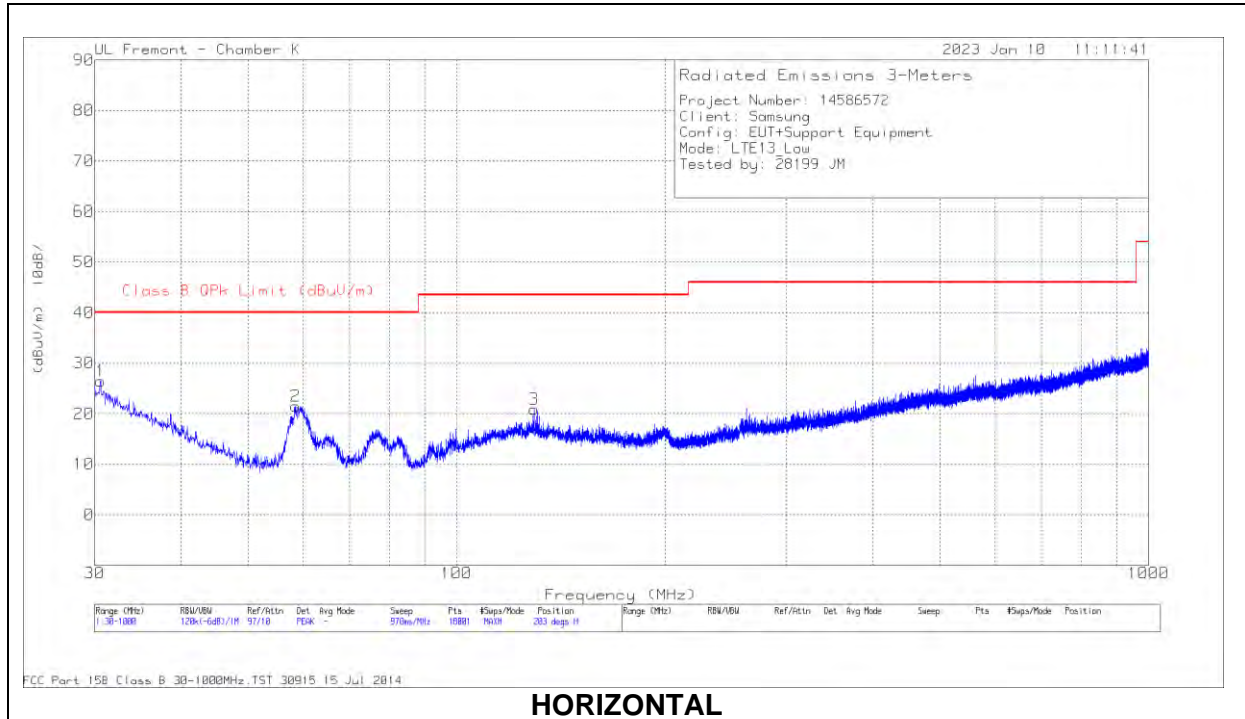
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1800.57	55.64	Pk	30.2	-46.3	39.54	-	-	74	-34.46	83	325	H
	1800.57	42.52	Av	30.2	-46.3	26.42	54	-27.58	-	-	83	325	H
2	2745.211	52.76	Pk	32.3	-44	41.06	-	-	74	-32.94	118	340	H
	2745.211	39.29	Av	32.3	-44	27.59	54	-26.41	-	-	118	340	H
3	6387.323	47.15	Pk	35.4	-39.3	43.25	-	-	74	-30.75	129	152	H
	6387.323	34.67	Av	35.4	-39.3	30.77	54	-23.23	-	-	129	152	H
4	1321.944	56.52	Pk	29	-46.4	39.12	-	-	74	-34.88	192	238	V
	1321.944	43.5	Av	29	-46.4	26.1	54	-27.9	-	-	192	238	V
	2691.455	52.57	Pk	32.3	-43.9	40.97	-	-	74	-33.03	136	145	V
5	2691.455	39.11	Av	32.3	-43.9	27.51	54	-26.49	-	-	136	145	V
	4900.876	48.61	Pk	33.7	-41.1	41.21	-	-	74	-32.79	194	202	V
6	4900.876	36.03	Av	33.7	-41.1	28.63	54	-25.37	-	-	194	202	V

Pk - Peak detector
 Av - Average detection

8.5. LTE BAND 13

8.5.1. BELOW 1GHz

LOW CHANNEL

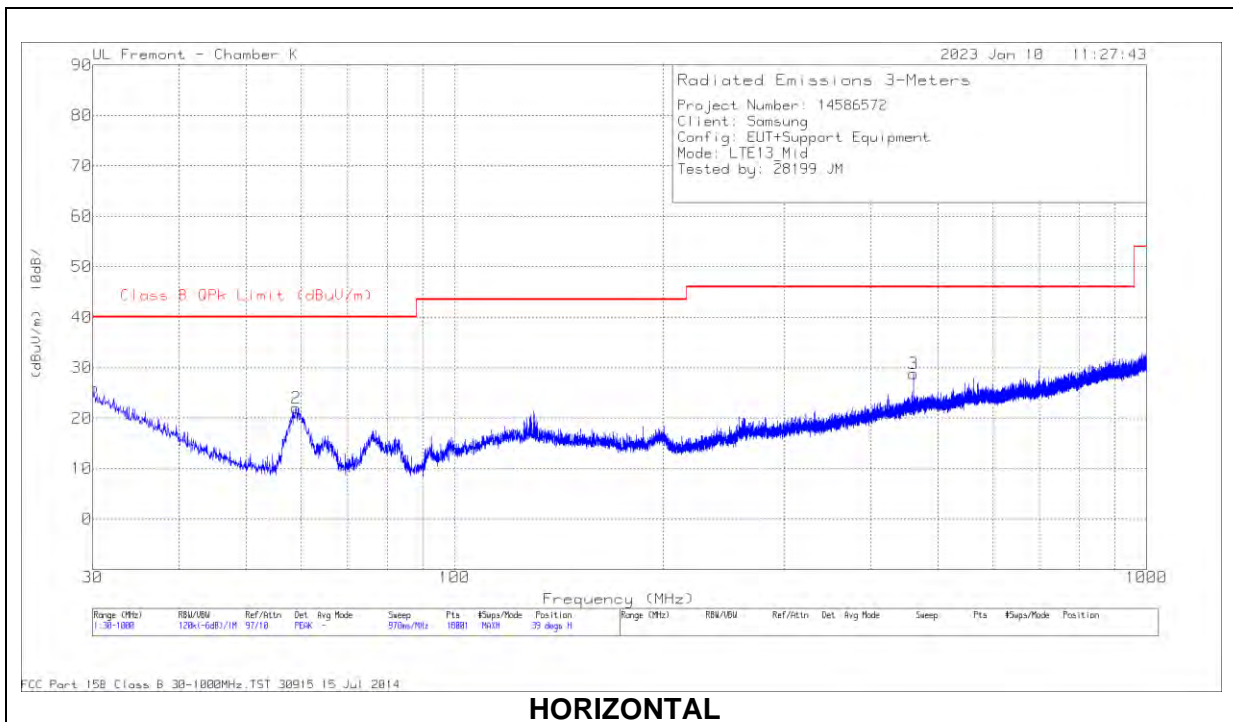


RADIATED EMISSIONS

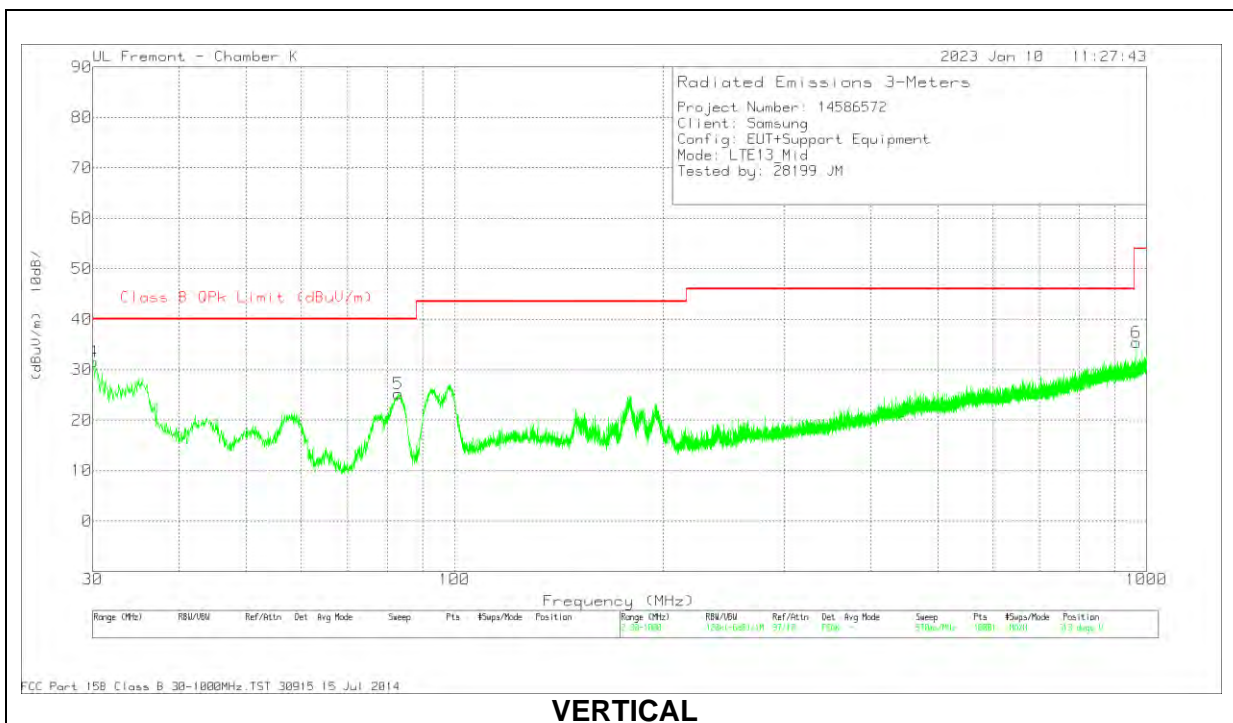
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.5928	30.24	Pk	27.7	-31.5	26.44	40	-13.56	98	299	H
2	58.5073	39.15	Pk	13.6	-31.2	21.55	40	-18.45	135	399	H
3	129.371	31.29	Pk	20.3	-30.7	20.89	43.52	-22.63	0	399	H
4	30.0539	34.89	Pk	28.1	-31.5	31.49	40	-8.51	5	101	V
5	96.3374	45.06	Pk	15.2	-30.9	29.36	43.52	-14.16	5	101	V
6	747.478	35.28	Pk	27.2	-28.1	34.38	46.02	-11.64	268	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL



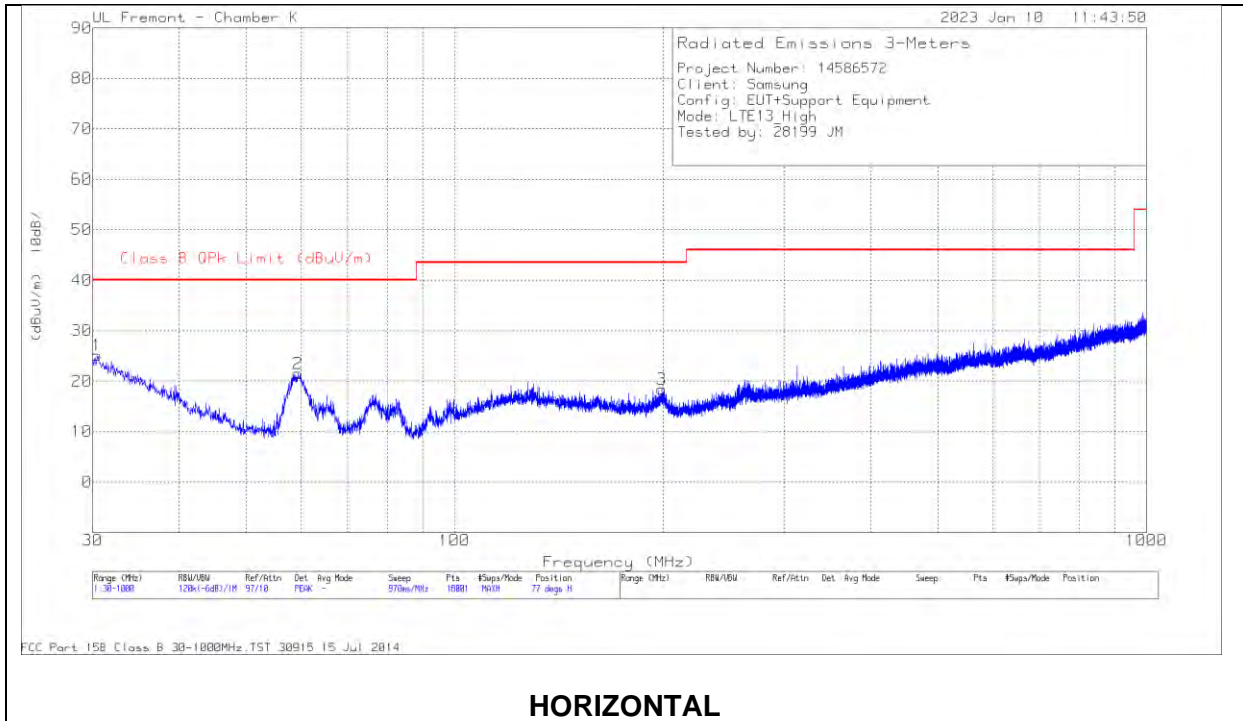
VERTICAL

RADIATED EMISSIONS

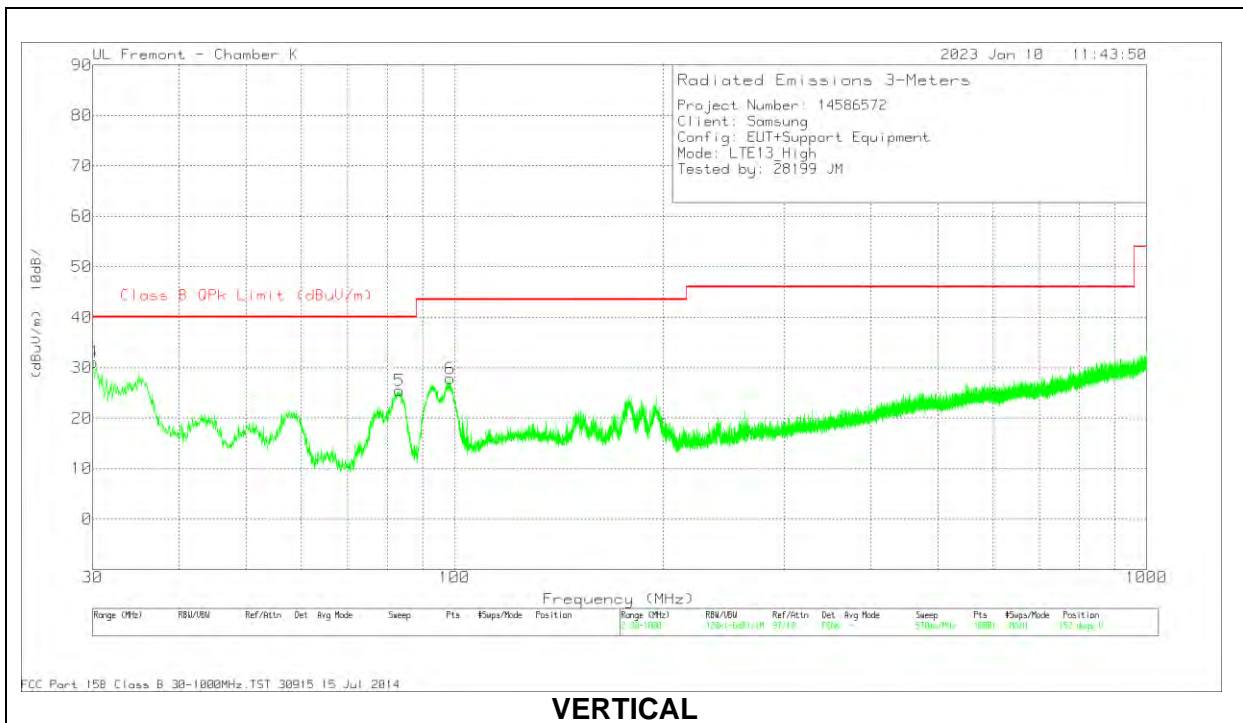
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1078	29.5	Pk	28	-31.5	26	40	-14	135	299	H
2	58.9923	39.59	Pk	13.6	-31.2	21.99	40	-18.01	115	399	H
3	460.25	34.68	Pk	23.3	-29.2	28.78	46.02	-17.24	124	199	H
4	30.0539	34.91	Pk	28.1	-31.5	31.51	40	-8.49	200	101	V
5	82.919	42.46	Pk	13.8	-31	25.26	40	-14.74	96	101	V
6	966.86	32.41	Pk	29.2	-26.2	35.41	53.97	-18.56	276	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

HIGH CHANNEL



HORIZONTAL



VERTICAL

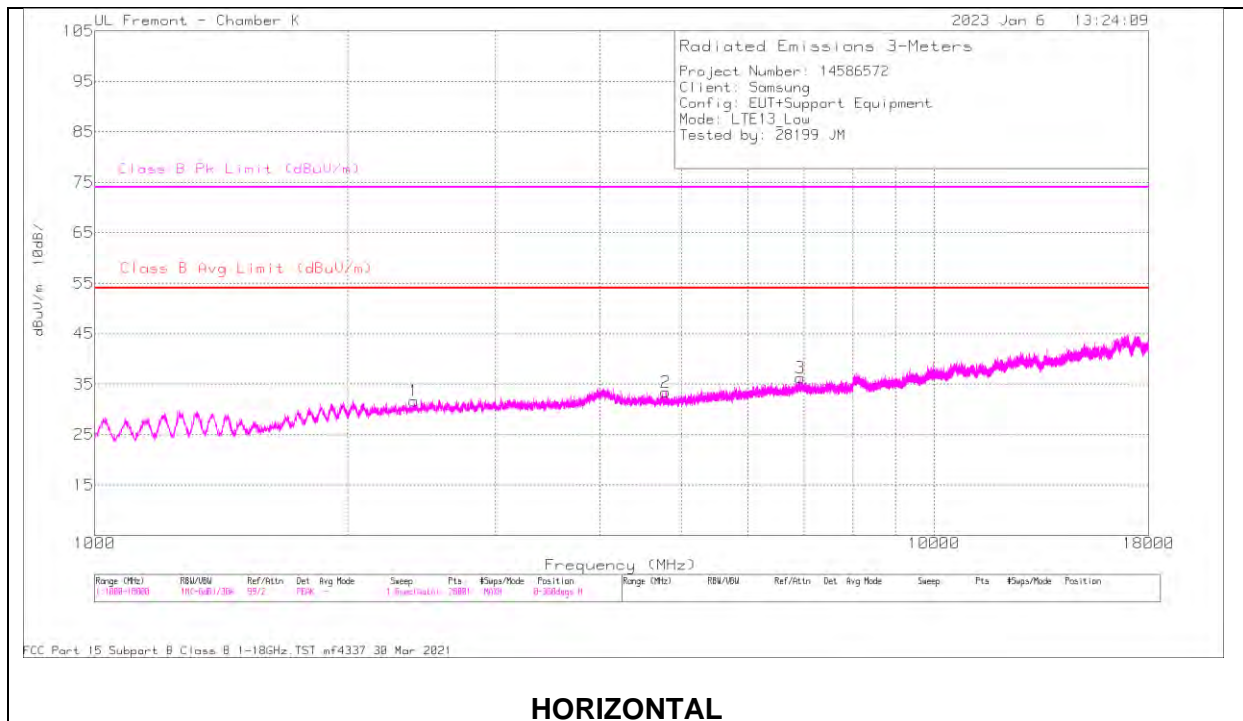
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.4311	28.83	Pk	27.8	-31.5	25.13	40	-14.87	77	299	H
2	59.3695	39.11	Pk	13.6	-31.2	21.51	40	-18.49	114	199	H
3	199.158	29.05	Pk	19.5	-30.2	18.35	43.52	-25.17	321	399	H
4	30.0539	34.48	Pk	28.1	-31.5	31.08	40	-8.92	2	100	V
5	83.2962	42.73	Pk	13.7	-31	25.43	40	-14.57	220	100	V
6	98.6007	42.79	Pk	15.9	-30.9	27.79	43.52	-15.73	115	100	V

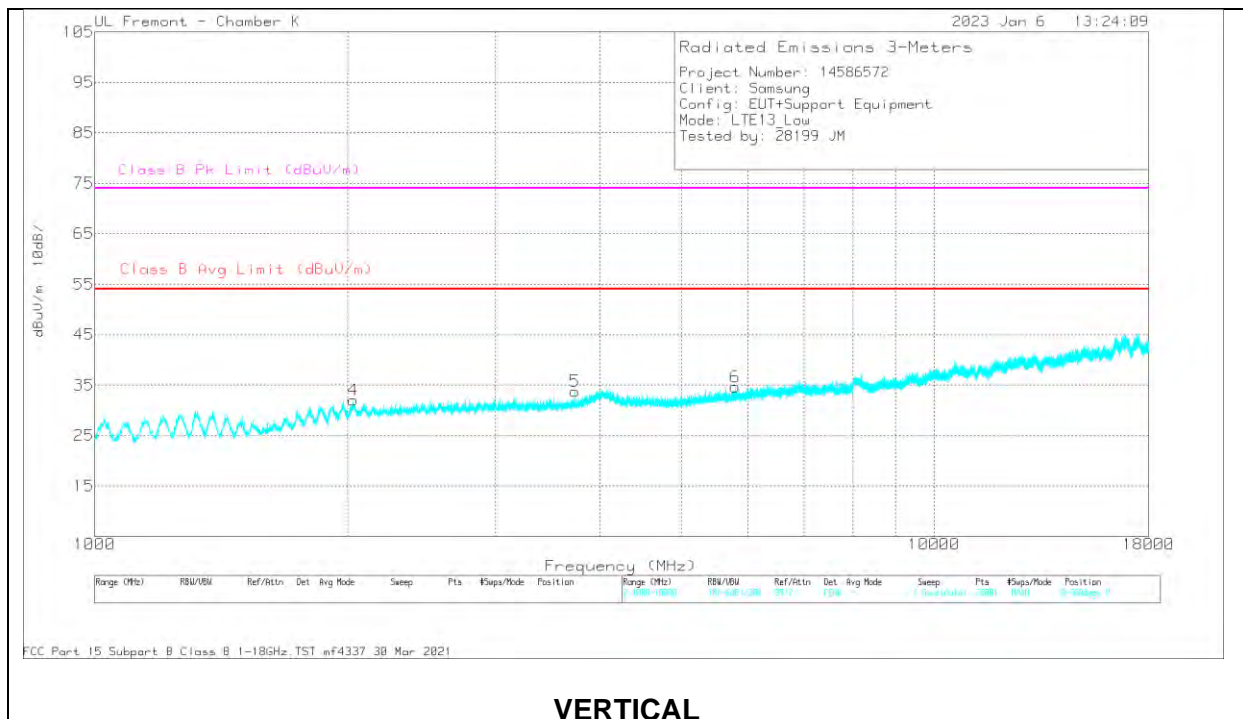
Pk - Peak detector
 Qp - Quasi-Peak detector

8.5.2. ABOVE 1GHz

LOW CHANNEL



HORIZONTAL



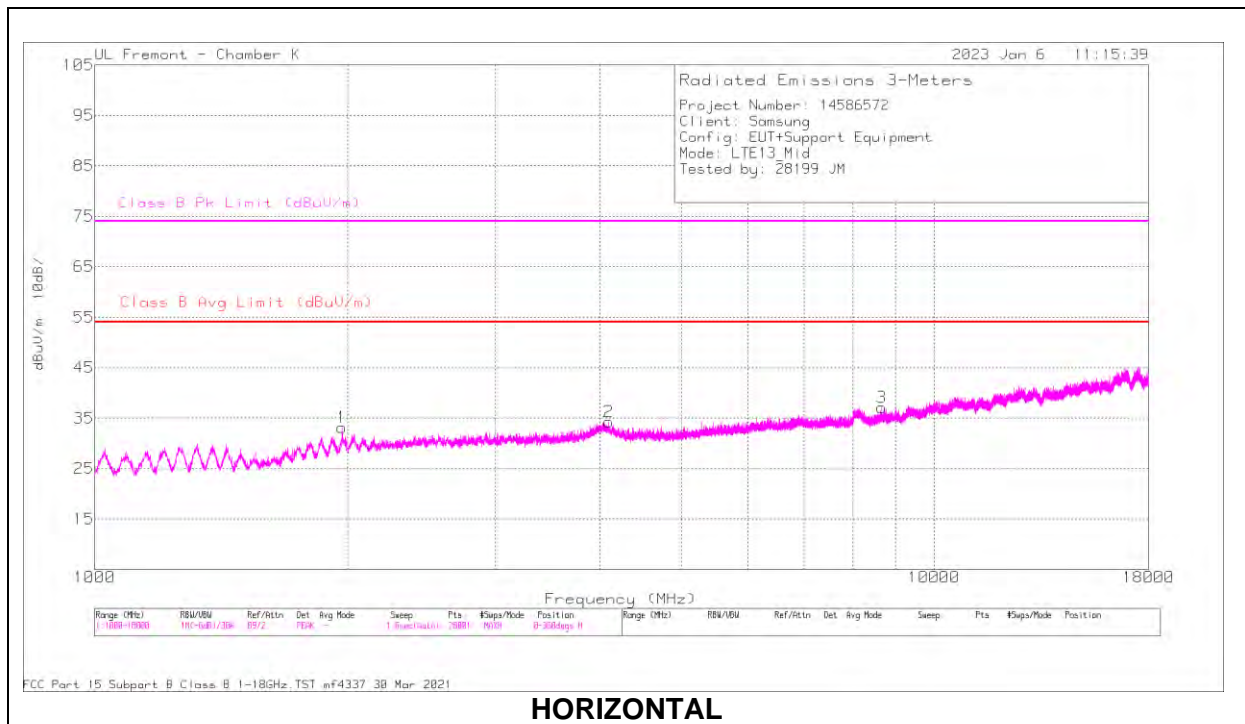
VERTICAL

RADIATED EMISSIONS

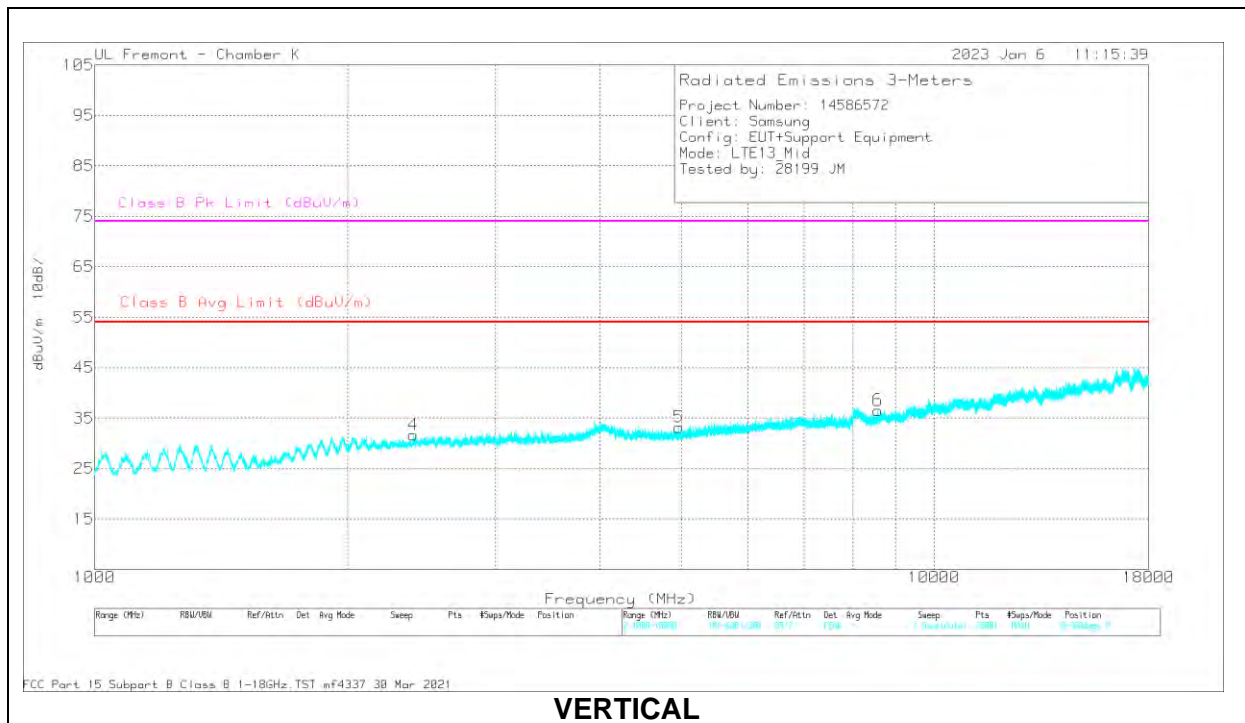
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2402.976	53.5	Pk	31.9	-44.8	40.6	-	-	74	-33.4	169	305	H
	2402.976	40.23	Av	31.9	-44.8	27.33	54	-26.67	-	-	169	305	H
2	4784.904	49	Pk	33.7	-41.5	41.2	-	-	74	-32.8	238	194	H
	4784.904	36.26	Av	33.7	-41.5	28.46	54	-25.54	-	-	238	194	H
3	6933.152	46.65	Pk	35.7	-38.4	43.95	-	-	74	-30.05	161	321	H
	6933.152	34	Av	35.7	-38.4	31.3	54	-22.7	-	-	161	321	H
4	2031.96	55	Pk	31.7	-45.7	41	-	-	74	-33	71	276	V
	2031.961	41.79	Av	31.7	-45.7	27.79	54	-26.21	-	-	71	276	V
5	3733.392	49.79	Pk	33.4	-42.2	40.99	-	-	74	-33.01	298	349	V
	3733.392	36.94	Av	33.4	-42.2	28.14	54	-25.86	-	-	298	349	V
6	5788.364	48.14	Pk	34.8	-39.9	43.04	-	-	74	-30.96	277	201	V
	5788.364	35.19	Av	34.8	-39.9	30.09	54	-23.91	-	-	277	201	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL



HORIZONTAL



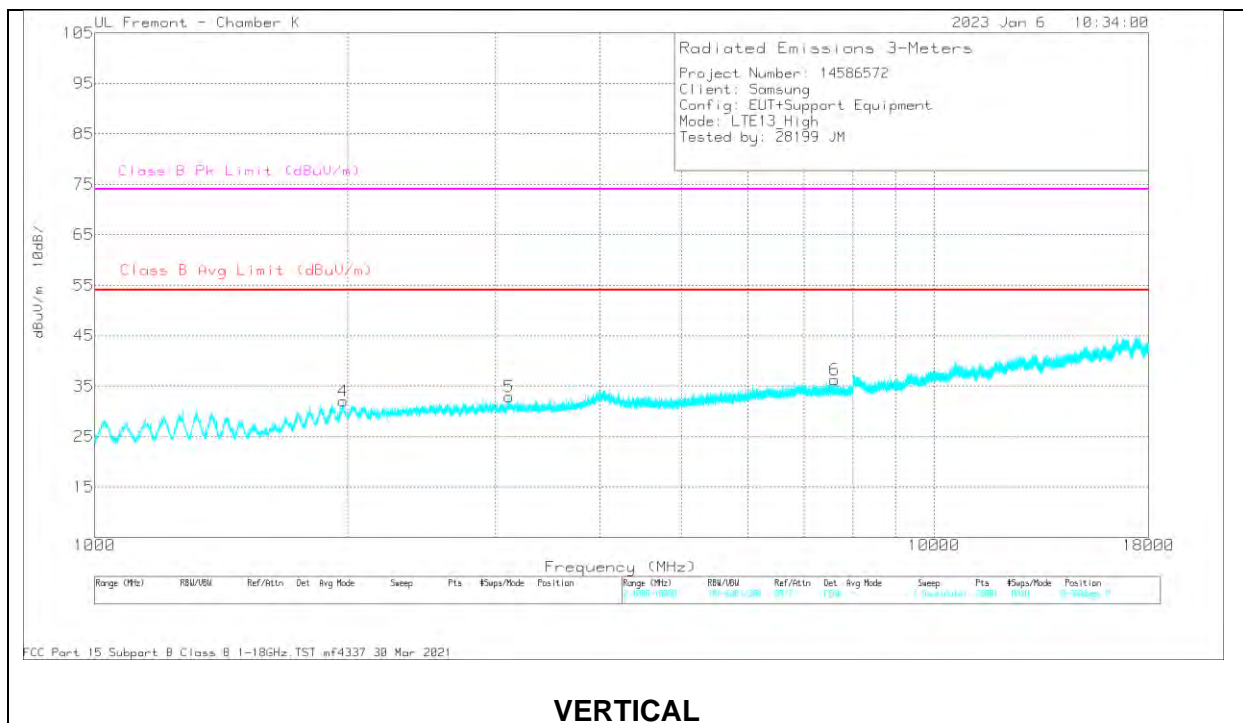
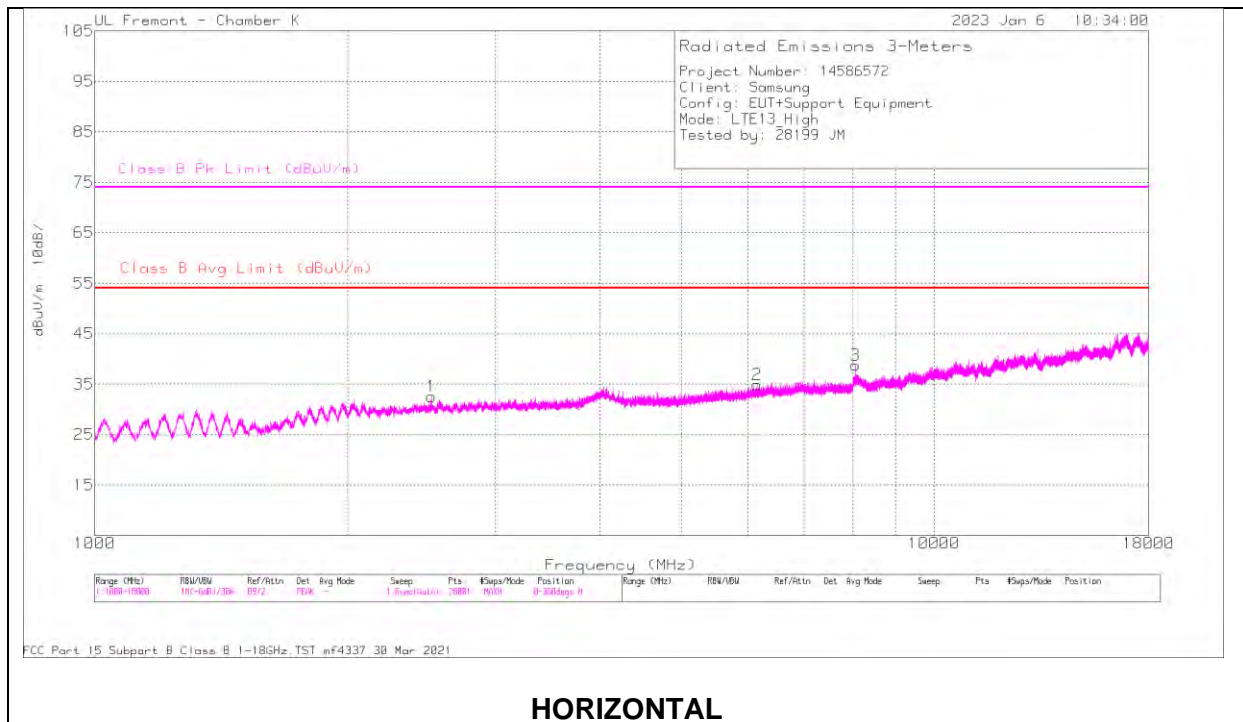
VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1969.833	54.66	Pk	31.5	-45.7	40.46	-	-	74	-33.54	93	329	H
	1969.833	41.87	Av	31.5	-45.7	27.67	54	-26.33	-	-	93	329	H
2	4096.153	49.74	Pk	35	-42.1	42.64	-	-	74	-31.36	281	264	H
	4096.153	36.94	Av	35	-42.1	29.84	54	-24.16	-	-	281	264	H
3	8653.986	46.79	Pk	35.8	-37.4	45.19	-	-	74	-28.81	28	221	H
	8653.986	33.03	Av	35.8	-37.4	31.43	54	-22.57	-	-	28	221	H
4	2398.435	53.29	Pk	31.8	-44.8	40.29	-	-	74	-33.71	26	357	V
	2398.435	40.09	Av	31.8	-44.8	27.09	54	-26.91	-	-	26	357	V
5	4961.512	48.93	Pk	33.7	-40.9	41.73	-	-	74	-32.27	143	325	V
	4961.512	35.99	Av	33.7	-40.9	28.79	54	-25.21	-	-	143	325	V
6	8570.054	47.02	Pk	35.8	-37.4	45.42	-	-	74	-28.58	103	241	V
	8570.054	33.28	Av	35.8	-37.4	31.68	54	-22.32	-	-	103	241	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



RADIATED EMISSIONS

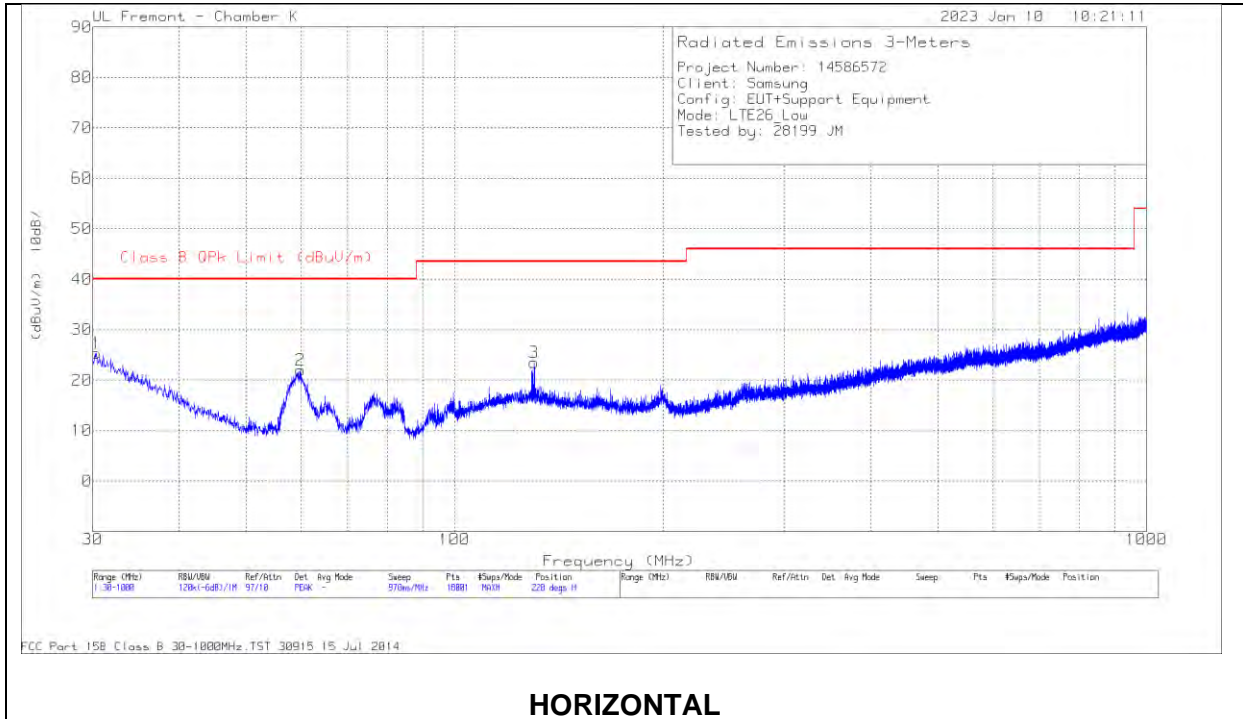
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2518.133	53.56	Pk	32.2	-44.5	41.26	-	-	74	-32.74	203	296	H
	2518.133	39.84	Av	32.2	-44.5	27.54	54	-26.46	-	-	203	296	H
2	6152.109	47.7	Pk	35.2	-39.4	43.5	-	-	74	-30.5	81	170	H
	6152.109	34.77	Av	35.2	-39.4	30.57	54	-23.43	-	-	81	170	H
3	8049.149	47.15	Pk	35.9	-37.6	45.45	-	-	74	-28.55	28	275	H
	8049.149	33.79	Av	35.9	-37.6	32.09	54	-21.91	-	-	28	275	H
4	1977.77	55.16	Pk	31.5	-45.8	40.86	-	-	74	-33.14	271	301	V
	1977.77	42	Av	31.5	-45.8	27.7	54	-26.3	-	-	271	301	V
5	3118.288	61.88	Pk	32.9	-42.9	51.88	-	-	74	-22.12	241	330	V
	3118.288	38.08	Av	32.9	-42.9	28.08	54	-25.92	-	-	241	330	V
6	7607.77	47.1	Pk	35.8	-38.4	44.5	-	-	74	-29.5	102	330	V
	7607.77	33.99	Av	35.8	-38.4	31.39	54	-22.61	-	-	102	330	V

Pk - Peak detector
 Av - Average detection

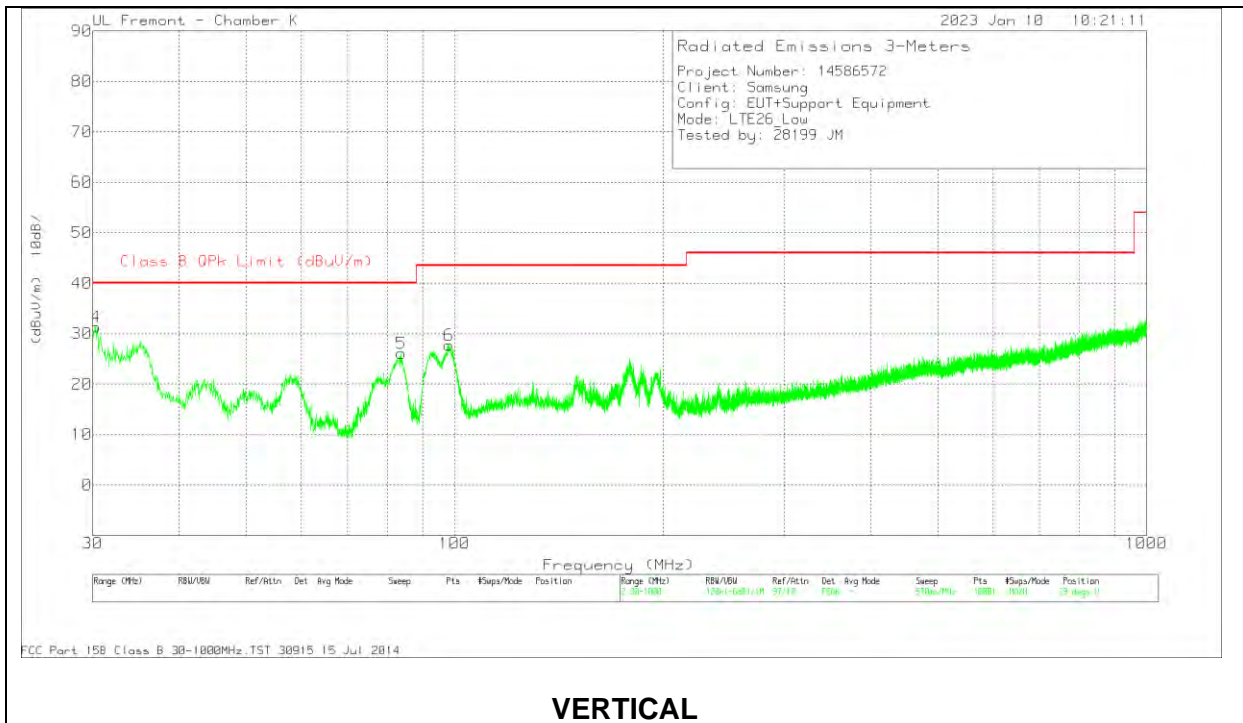
8.6. LTE BAND 26

8.6.1. BELOW 1GHz

LOW CHANNEL



HORIZONTAL



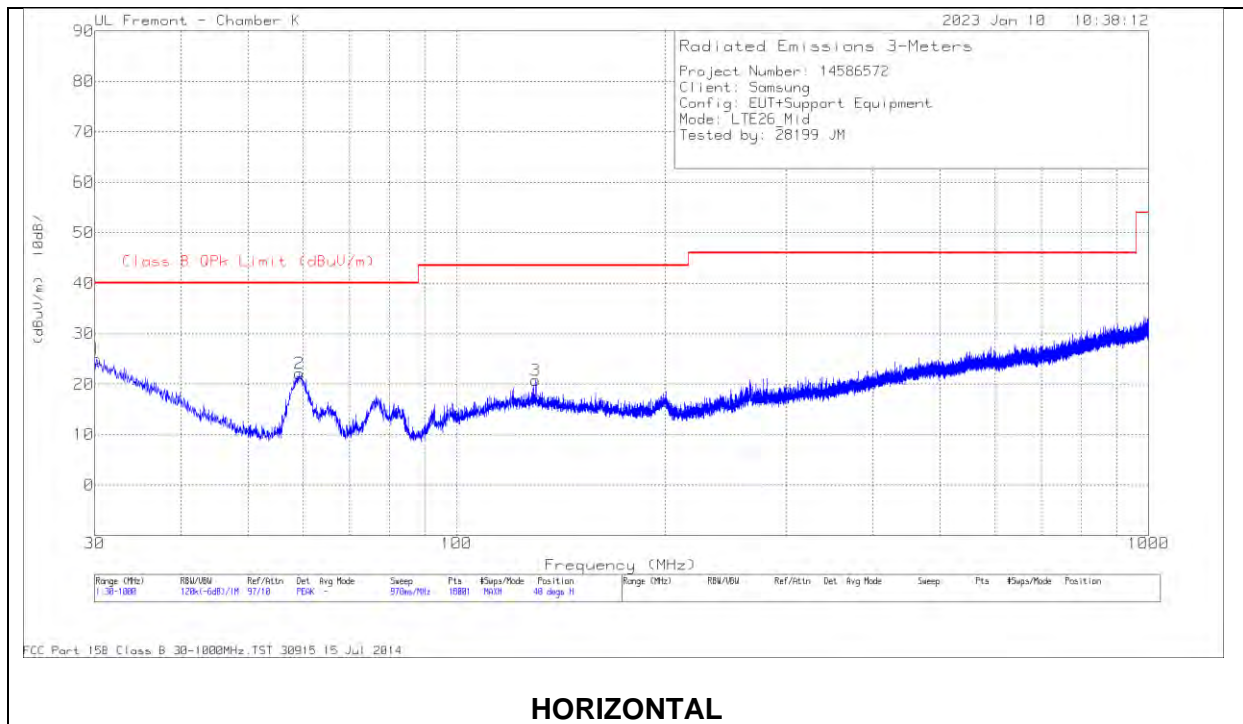
VERTICAL

RADIATED EMISSIONS

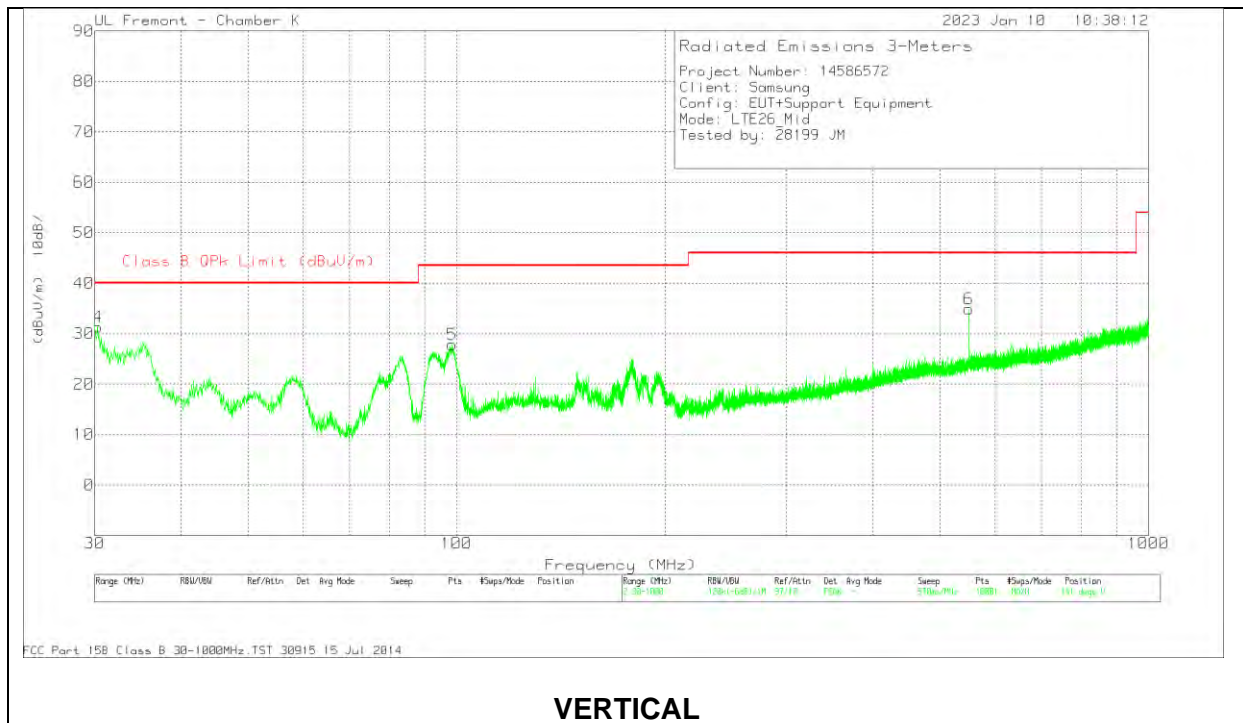
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.3772	29.06	Pk	27.8	-31.5	25.36	40	-14.64	236	101	H
2	59.8545	39.49	Pk	13.7	-31.2	21.99	40	-18.01	115	299	H
3	130.395	33.89	Pk	20.3	-30.7	23.49	43.52	-20.03	313	299	H
4	30.3233	34.91	Pk	27.9	-31.5	31.31	40	-8.69	10	101	V
5	83.7273	43.41	Pk	13.7	-31	26.11	40	-13.89	29	101	V
6	98.1696	42.87	Pk	15.7	-30.9	27.67	43.52	-15.85	319	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

MID CHANNEL



HORIZONTAL

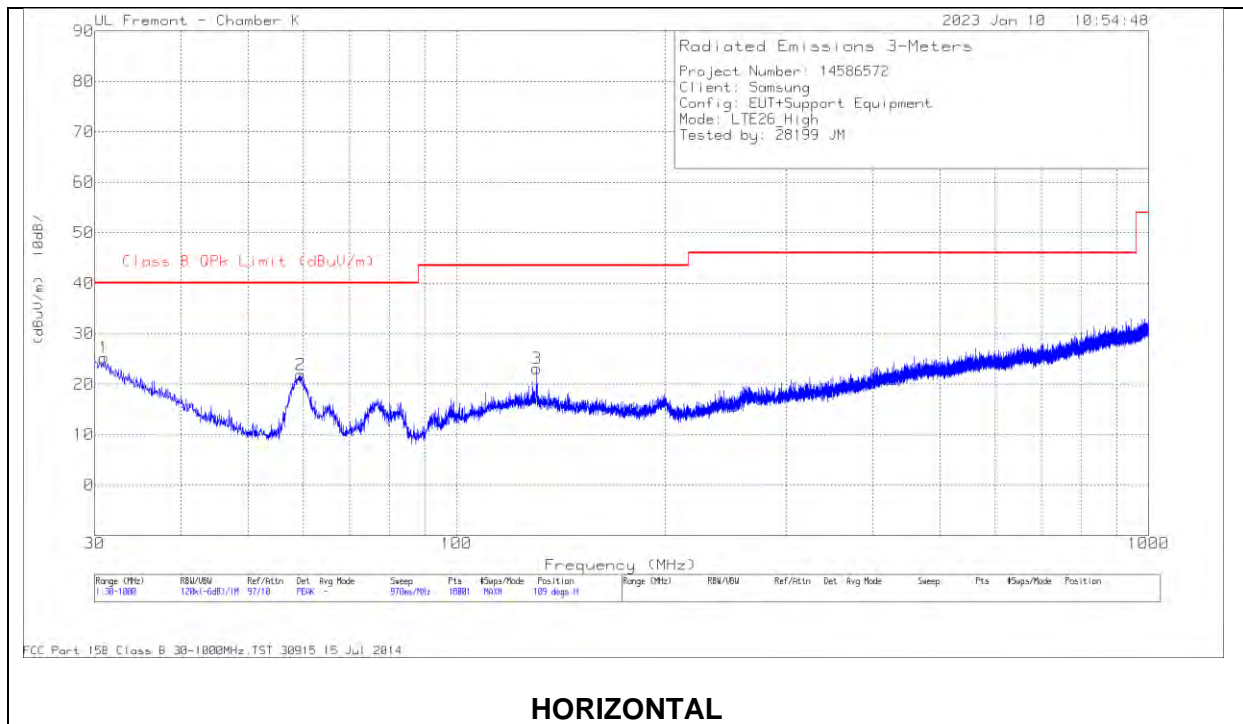


VERTICAL

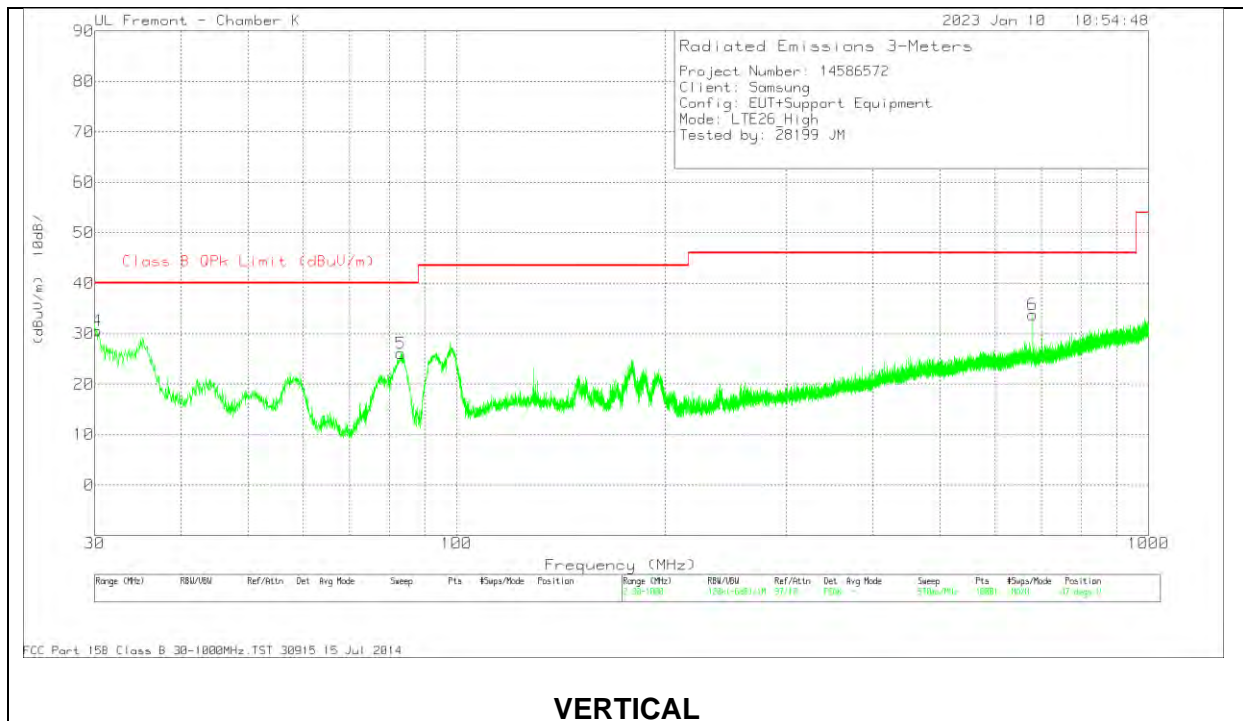
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.1617	28.47	Pk	28	-31.5	24.97	40	-15.03	229	101	H
2	59.2617	39.68	Pk	13.6	-31.2	22.08	40	-17.92	124	399	H
3	130.072	31.19	Pk	20.3	-30.7	20.79	43.52	-22.73	201	199	H
4	30.3233	34.9	Pk	27.9	-31.5	31.3	40	-8.7	45	101	V
5	98.4929	42.83	Pk	15.9	-30.9	27.83	43.52	-15.69	299	101	V
6	549.813	39.11	Pk	24.6	-28.8	34.91	46.02	-11.11	54	101	V

HIGH CHANNEL



HORIZONTAL



VERTICAL

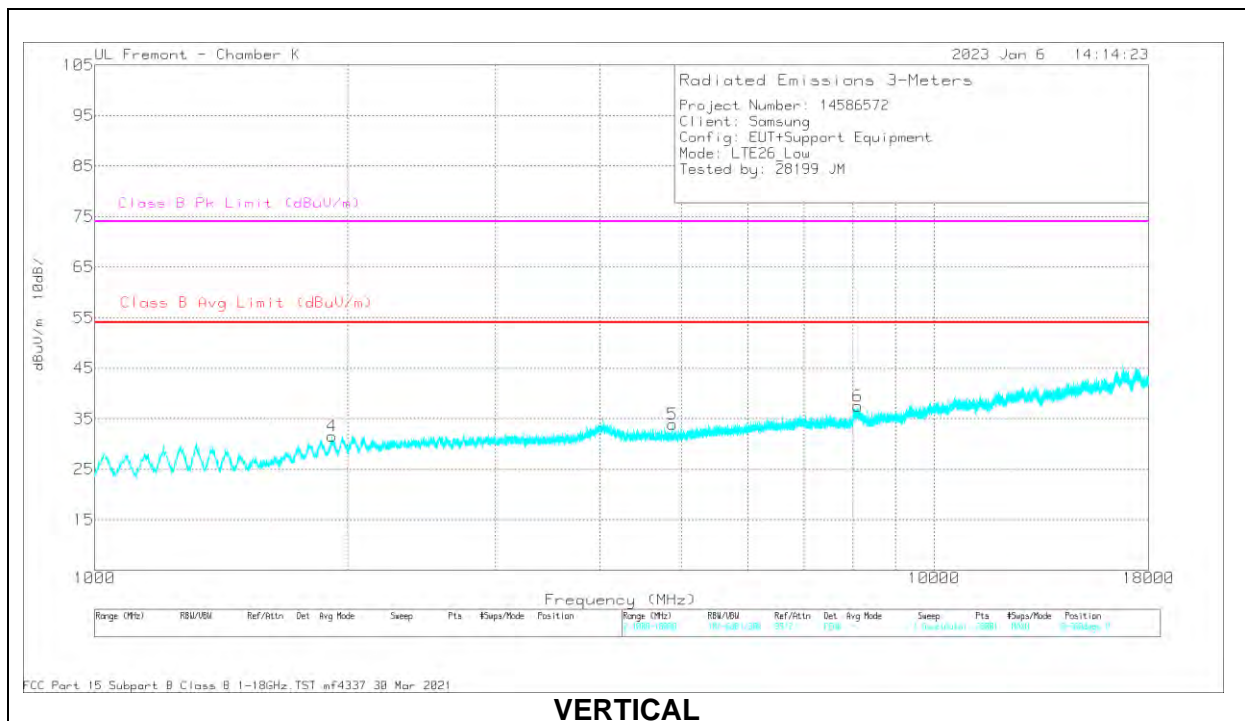
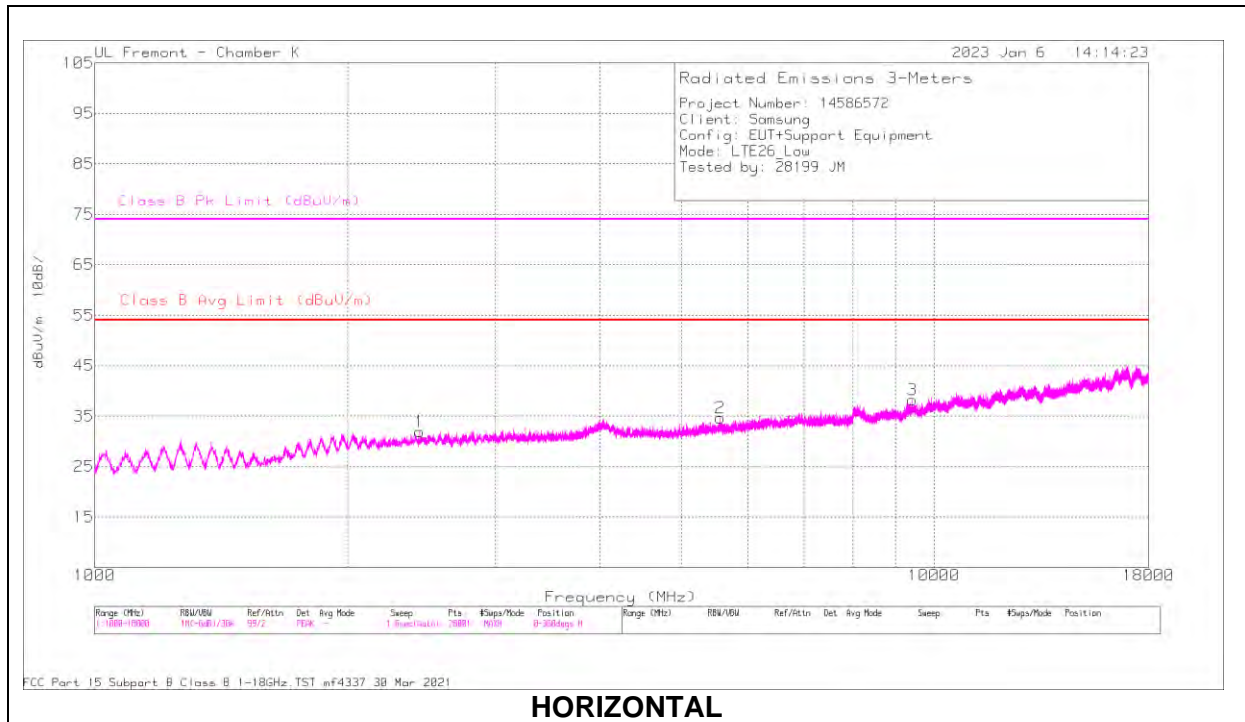
RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Hybrid Antenna ACF(dB)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.97	29.29	Pk	27.4	-31.5	25.19	40	-14.81	279	199	H
2	59.4773	39.33	Pk	13.7	-31.2	21.83	40	-18.17	307	299	H
3	130.665	33.56	Pk	20.2	-30.7	23.06	43.52	-20.46	296	299	H
4	30.2156	34.01	Pk	28	-31.5	30.51	40	-9.49	358	101	V
5	83.1346	43.3	Pk	13.8	-31	26.1	40	-13.9	124	101	V
6	680.548	35.7	Pk	26.3	-28.2	33.8	46.02	-12.22	6	101	V

Pk - Peak detector
 Qp - Quasi-Peak detector

8.6.2. ABOVE 1GHz

LOW CHANNEL

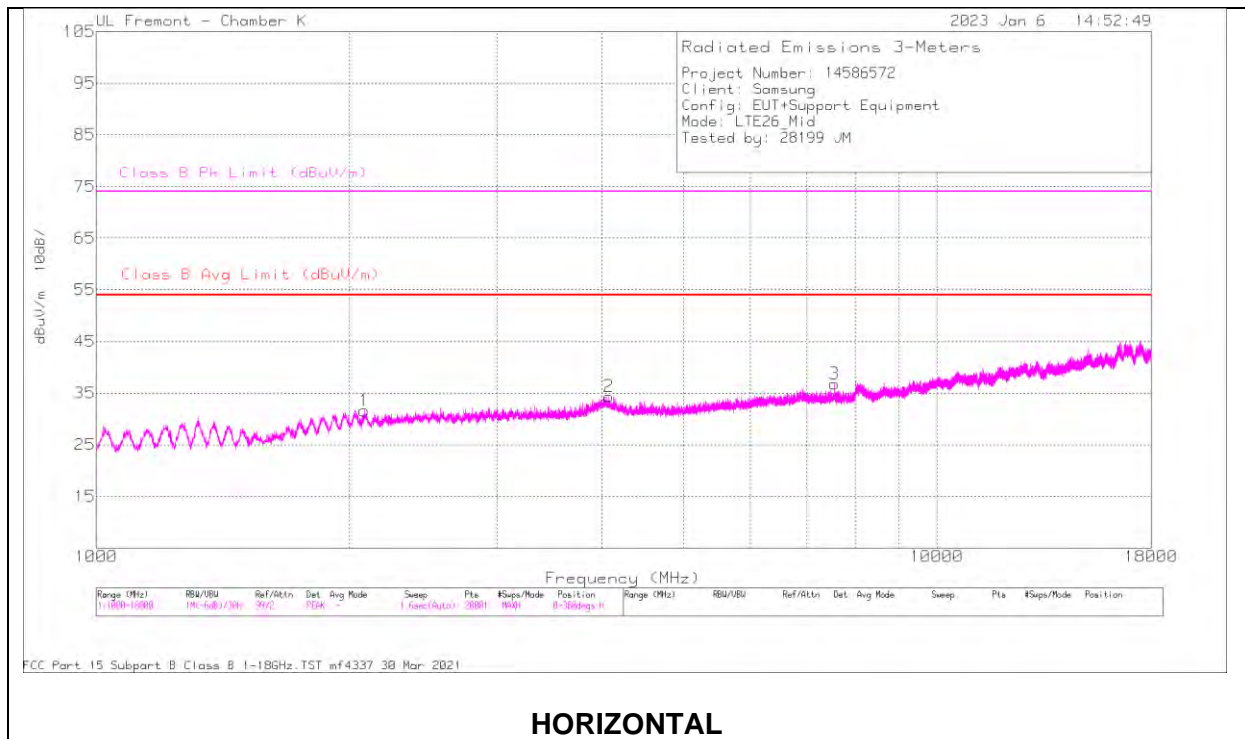


RADIATED EMISSIONS

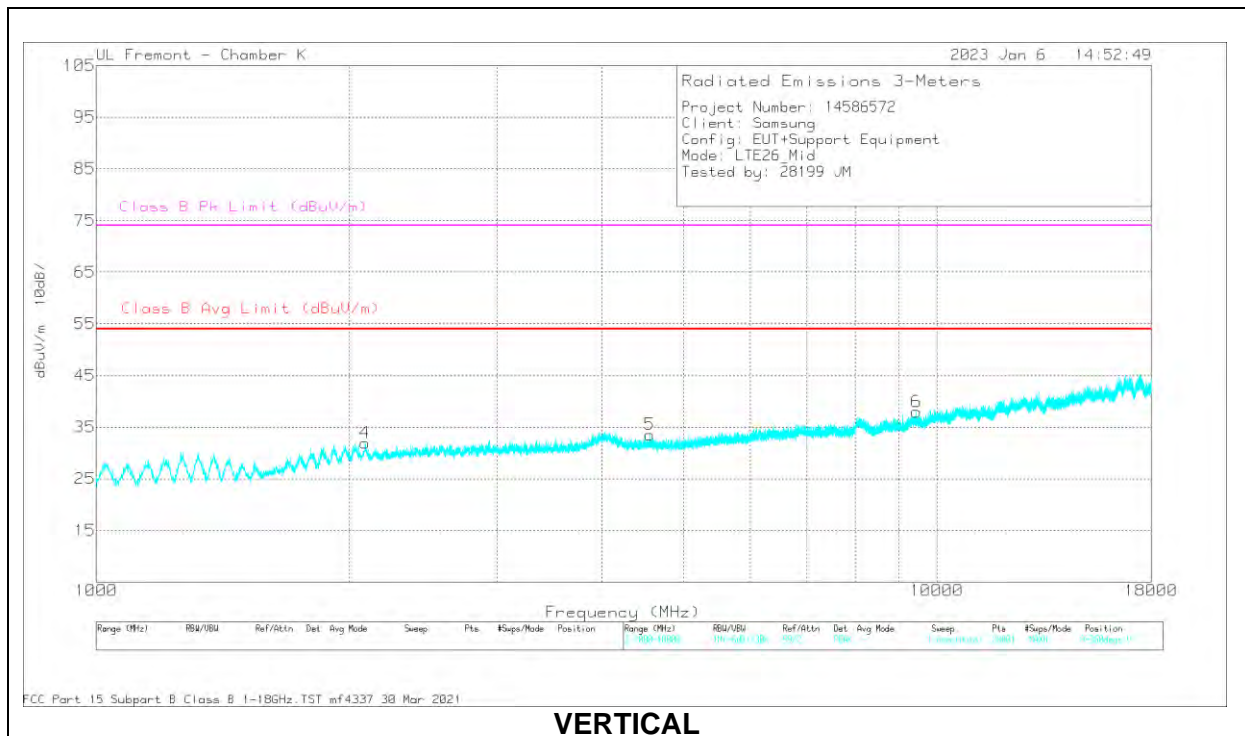
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2437.056	52.29	Pk	32	-44.6	39.69	-	-	74	-34.31	140	238	H
	2437.056	39.58	Av	32	-44.6	26.98	54	-27.02	-	-	140	238	H
2	5558.618	48.53	Pk	34.6	-40.4	42.73	-	-	74	-31.27	171	202	H
	5558.618	35.47	Av	34.6	-40.4	29.67	54	-24.33	-	-	171	202	H
3	9426.158	46.7	Pk	36.5	-37.1	46.1	-	-	74	-27.9	73	235	H
	9426.158	33.41	Av	36.5	-37.1	32.81	54	-21.19	-	-	73	235	H
4	1914.269	55.43	Pk	31.2	-46.1	40.53	-	-	74	-33.47	139	156	V
	1914.269	42.12	Av	31.2	-46.1	27.22	54	-26.78	-	-	139	156	V
5	4878.432	49.2	Pk	33.7	-41.1	41.8	-	-	74	-32.2	148	143	V
	4878.432	35.89	Av	33.7	-41.1	28.49	54	-25.51	-	-	148	143	V
6	8112.713	49.44	Pk	35.9	-37.8	47.54	-	-	74	-26.46	31	347	V
	8112.713	34.26	Av	35.9	-37.8	32.36	54	-21.64	-	-	31	347	V

Pk - Peak detector
 Av - Average detection

MID CHANNEL



HORIZONTAL



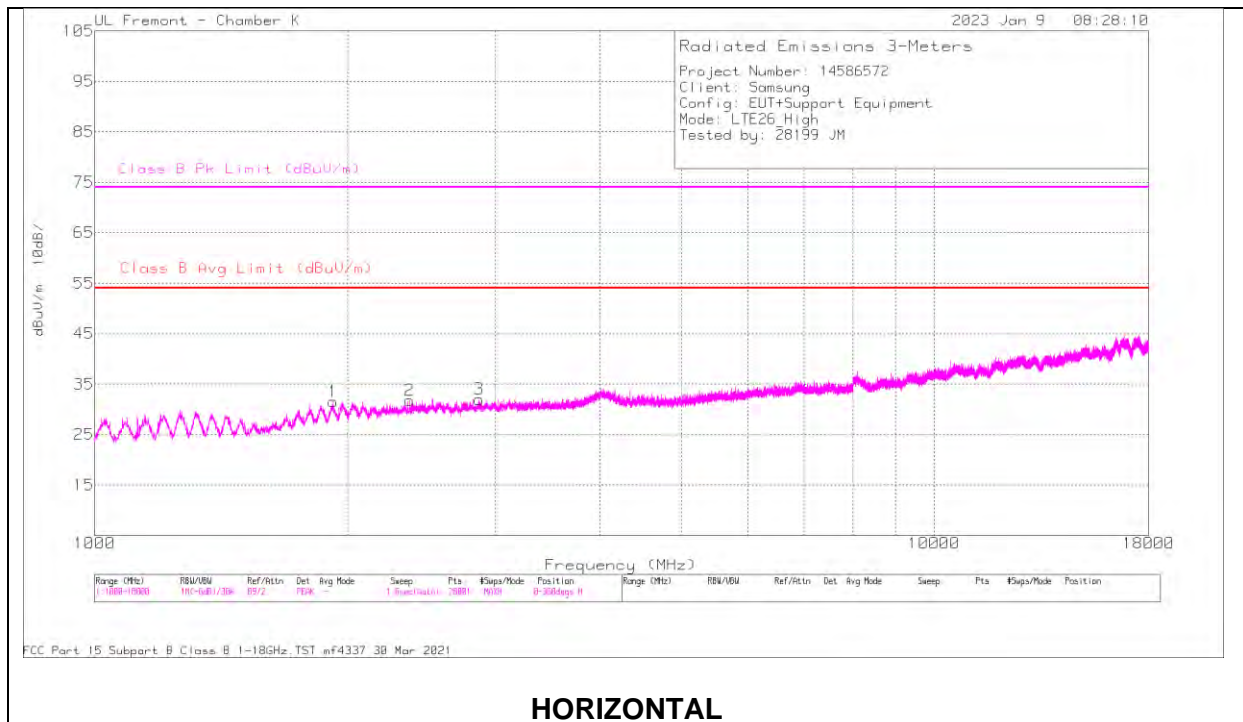
VERTICAL

RADIATED EMISSIONS

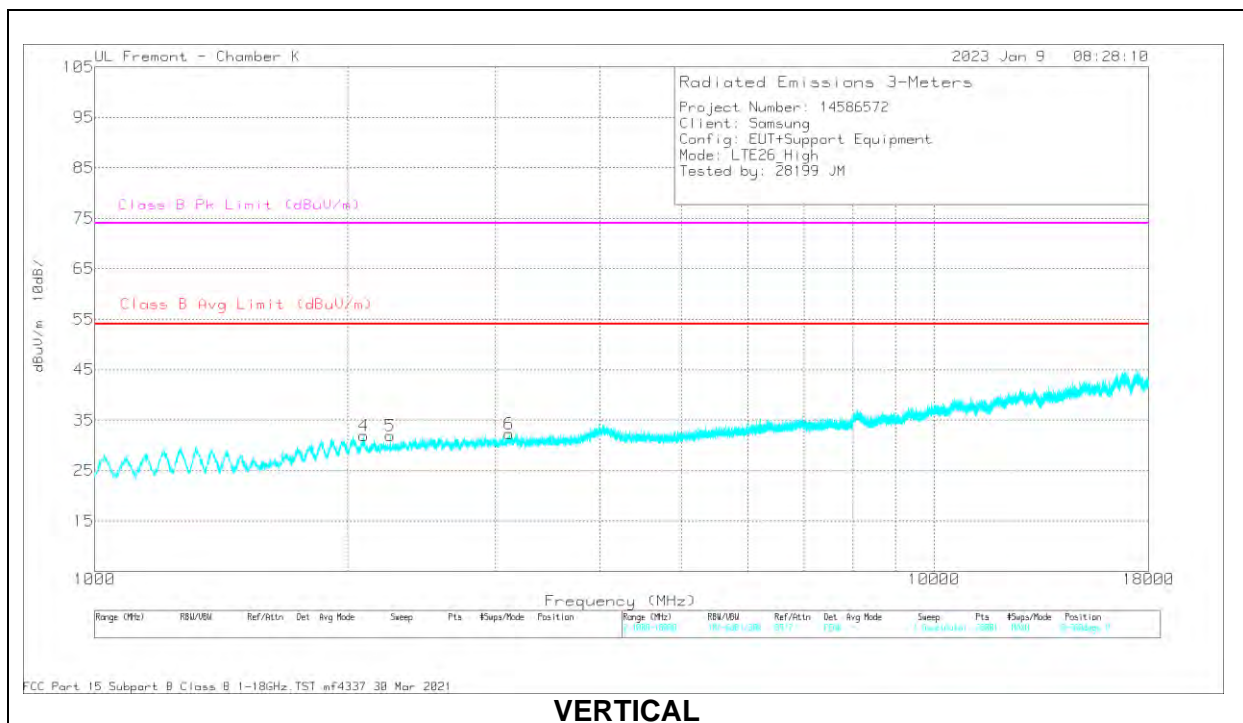
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2084.343	54.09	Pk	31.7	-45.3	40.49	-	-	74	-33.51	20	298	H
	2084.343	41.16	Av	31.7	-45.3	27.56	54	-26.44	-	-	20	298	H
2	4073.388	50.21	Pk	35.1	-42.1	43.21	-	-	74	-30.79	298	131	H
	4073.388	36.97	Av	35.1	-42.1	29.97	54	-24.03	-	-	298	131	H
3	7553.117	46.66	Pk	35.7	-38.2	44.16	-	-	74	-29.84	71	326	H
	7553.117	33.97	Av	35.7	-38.2	31.47	54	-22.53	-	-	71	326	H
4	2087.66	54.37	Pk	31.7	-45.4	40.67	-	-	74	-33.33	17	200	V
	2087.66	41.26	Av	31.7	-45.4	27.56	54	-26.44	-	-	17	200	V
5	4553.607	50.31	Pk	33.9	-41.8	42.41	-	-	74	-31.59	104	316	V
	4553.607	36.83	Av	33.9	-41.8	28.93	54	-25.07	-	-	104	316	V
6	9460.182	47.02	Pk	36.5	-37.3	46.22	-	-	74	-27.78	219	299	V
	9460.182	33.64	Av	36.5	-37.3	32.84	54	-21.16	-	-	219	299	V

Pk - Peak detector
 Av - Average detection

HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	223083 ACF (dB) 3mH	Amp/Cbl (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1923.838	55.19	Pk	31.2	-45.9	40.49	-	-	74	-33.51	196	281	H
	1923.175	41.91	Av	31.2	-45.9	27.21	54	-26.79	-	-	196	281	H
2	2372.369	53.36	Pk	31.7	-44.7	40.36	-	-	74	-33.64	191	246	H
	2369.527	39.92	Av	31.7	-44.8	26.82	54	-27.18	-	-	191	246	H
3	2870.492	52.43	Pk	32.4	-43.4	41.43	-	-	74	-32.57	250	240	H
	2871.009	38.97	Av	32.4	-43.4	27.97	54	-26.03	-	-	250	240	H
4	2093.203	54.53	Pk	31.7	-45.5	40.73	-	-	74	-33.27	20	159	V
	2093.687	41.17	Av	31.7	-45.5	27.37	54	-26.63	-	-	20	159	V
5	2249.852	54.11	Pk	31.4	-45.4	40.11	-	-	74	-33.89	212	157	V
	2248.665	40.68	Av	31.4	-45.4	26.68	54	-27.32	-	-	212	157	V
6	3118.988	51.43	Pk	32.9	-42.9	41.43	-	-	74	-32.57	16	298	V
	3118.003	38	Av	32.9	-42.9	28	54	-26	-	-	16	298	V

Pk - Peak detector
 Av - Average detection