



# **TEST REPORT**

**Report Number. :** 13708019-E3V2

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

**Model :** SM-M127G/DS

**FCC ID :** A3LSMM127G

**EUT Description :** GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n

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

**Date Of Issue:**

March 18, 2021

**Prepared by:**

UL VERIFICATION SERVICES

47173 Benicia Street

Fremont, CA 94538 U.S.A.

TEL: (510) 319-4000

FAX: (510) 661-0888



NVLAP Lab code: 200065-0

---

## REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	3/5/2021	Initial Issue	
V2	3/18/2021	Updated Section 9.1.2 & 9.1.3	Kiya Kedida

---

<b>REPORT REVISION HISTORY .....</b>	<b>2</b>
<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>4</b>
<b>2. TEST METHODOLOGY .....</b>	<b>6</b>
<b>3. FACILITIES AND ACCREDITATION .....</b>	<b>6</b>
<b>4. DECISION RULES AND MEASUREMENT UNCERTAINTY .....</b>	<b>7</b>
4.1. METROLOGICAL TRACEABILITY .....	7
4.2. DECISION RULES.....	7
4.3. MEASUREMENT UNCERTAINTY.....	7
4.4. SAMPLE CALCULATION .....	7
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>8</b>
5.1. EUT DESCRIPTION .....	8
<b>6. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>8</b>
<b>7. DESCRIPTION OF TEST SETUP.....</b>	<b>9</b>
<b>8. REUSE OF TEST DATA.....</b>	<b>10</b>
8.1. INTRODUCTION .....	10
8.2. DEVICE DIFFERENCES .....	10
8.3. SPOT CHECK VERIFICATION RESULTS SUMMARY .....	10
8.4. REFERENCE DETAIL .....	10
<b>9. SPOT CHECK DATA.....</b>	<b>11</b>
9.1. TRANSMITTER ABOVE 1 GHz.....	11
9.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND .....	11
9.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND .....	17
9.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND.....	23
<b>10. SETUP PHOTOS.....</b>	<b>29</b>
<b>APPENDIX A.....</b>	<b>30</b>

# 1. ATTESTATION OF TEST RESULTS

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

**EUT DESCRIPTION:** GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n

**MODEL:** SM-M127G/DS

**SERIAL NUMBER:** Radiated: R38NB0189RW  
Conducted: R38NB01863H

**DATE TESTED:** FEBRUARY 18 – FEBRUARY 26, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Complies

UL Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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 NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

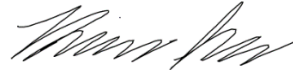
Approved & Released For  
UL Verification Services Inc. By:

Prepared By:



---

Dan Corona  
Operations Leader  
Consumer Technology Division  
UL Verification Services Inc.



---

Brian Shen  
Laboratory Engineer  
Consumer Technology Division  
UL Verification Services Inc.

Reviewed By:



---

Kiya Kedida  
Senior Project Engineer  
Consumer Technology Division  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01.

## 3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0, 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	208313
<input type="checkbox"/>	Building 2: 47266 Benicia Street Fremont, CA 94538, U.S.A	US0104	22541	208313
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd Fremont, CA 94538, U.S.A	US0104	2324B	208313

## 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 <sub>Lab</sub>
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	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.84 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

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)

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

#### 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.

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

## 5. EQUIPMENT UNDER TEST

### 5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n.

## 6. TEST AND MEASUREMENT EQUIPMENT

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

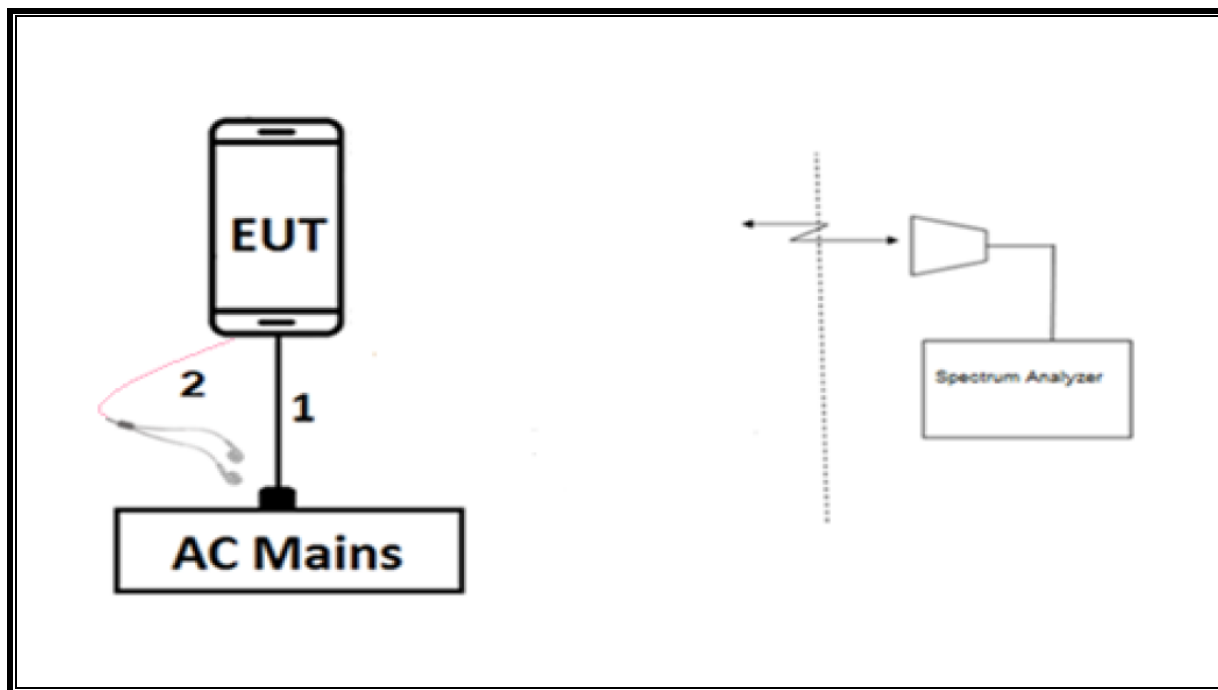
TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179522	2/19/2022	2/19/2021
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	PRE0100034	9/15/2021	9/15/2020
Amplifier, 1 to 18GHz, 35dB	AMPLICAL	AMP1G18-35	T1571	8/20/2021	8/20/2020
Power Sensor P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	T413	2/26/2021	2/26/2020
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	T1269	1/25/2022	1/25/2021
Test Software List					
Description	Manufacturer	Model	Version		
Radiated Software	UL	UL EMC	Rev 9.5, April 30, 2020		



## 7. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
AC Adapter	Samsung	EP-TA200	R37M3FL1XN1DK3	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	AC Adapter	Shielded	1	N/A
2	Earphone	1	3.5mm	Un-Shielded	1	N/A

### RADIATED SETUP



## 8. REUSE OF TEST DATA

### 8.1. INTRODUCTION

According to the manufacturer, FCC ID: A3LSMM127F and FCC ID: A3LSMM127G radios (WLAN/BT/BLE) are electrically identical. They share the same chipset, same power and same antenna performance including antenna gain. The FCC ID: A3LSMM127F test data shall remain representative of FCC ID: A3LSMM127G so, FCC ID: A3LSMM127G leverages test data from A3LSMM127F.

The applicant takes full responsibility that the test data as referenced in this section represent compliance for this FCC ID.

### 8.2. DEVICE DIFFERENCES

Difference between A3LSMM127F and A3LSMM127G:

1. H/W
  - WCDMA band W2/4 are deleted.
  - LTE band W2/412/17/20/26/28/66 are deleted.
2. S/W
  - SW was updated to reflect the HW changes.

### 8.3. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on device A3LSMM127G for radiated harmonic spurious and radiated band-edge. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary and Appendix A.

### 8.4. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
DTS (WLAN)	A3LSMM127F	R13548896-E3 v2 FCC 2.4 WLAN REPORT

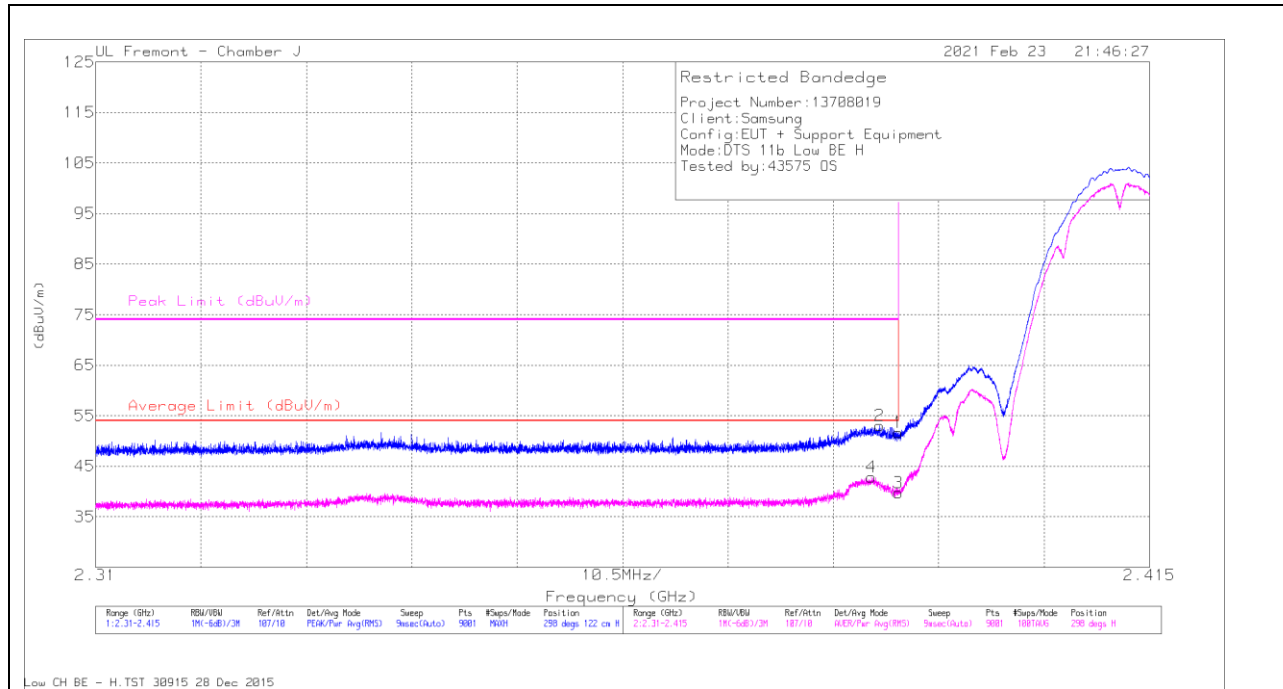
## 9. SPOT CHECK DATA

### 9.1. TRANSMITTER ABOVE 1 GHz

#### 9.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

#### BANDEDGE (LOW CHANNEL, CH 1)

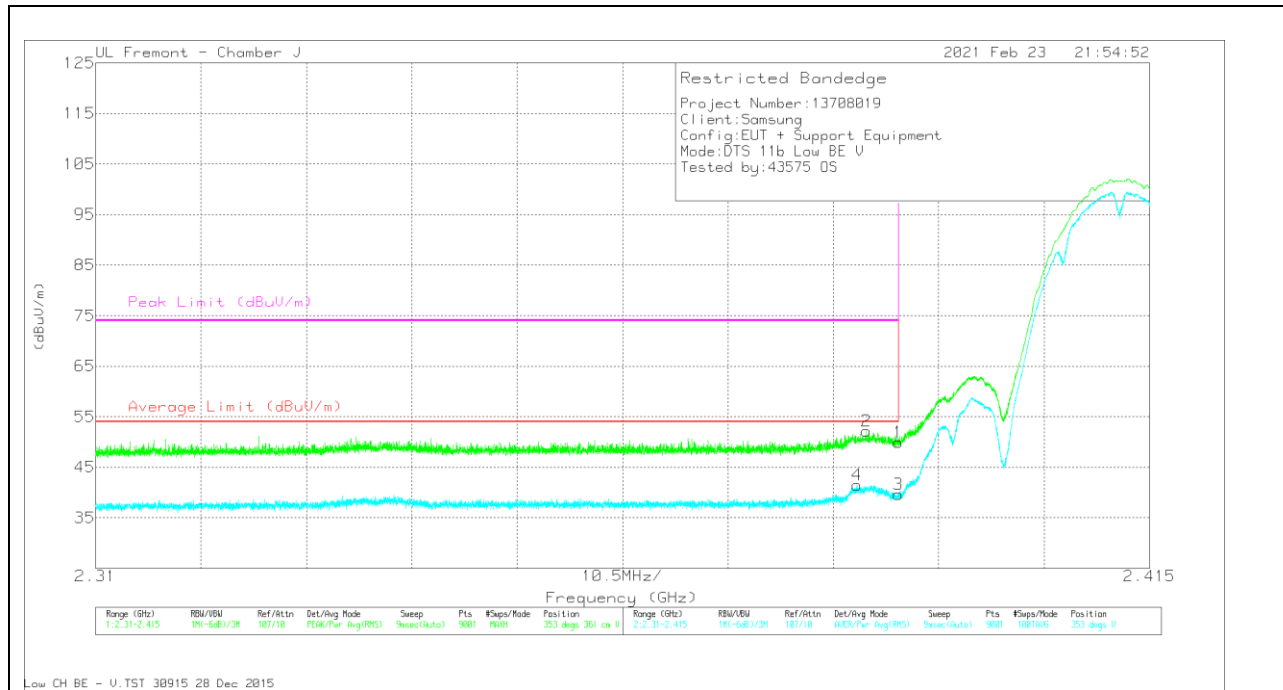
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	44.76	Pk	32.1	-25.2	0	51.66	-	-	74	-22.34	298	122	H
2	* 2.38812	46.1	PK	32.1	-25.2	0	53	-	-	74	-21	298	122	H
3	* 2.38999	32.82	RMS	32.1	-25.2	0	39.72	54	-14.28	-	-	298	122	H
4	* 2.38729	35.95	RMS	32.1	-25.2	0	42.85	54	-11.15	-	-	298	122	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT

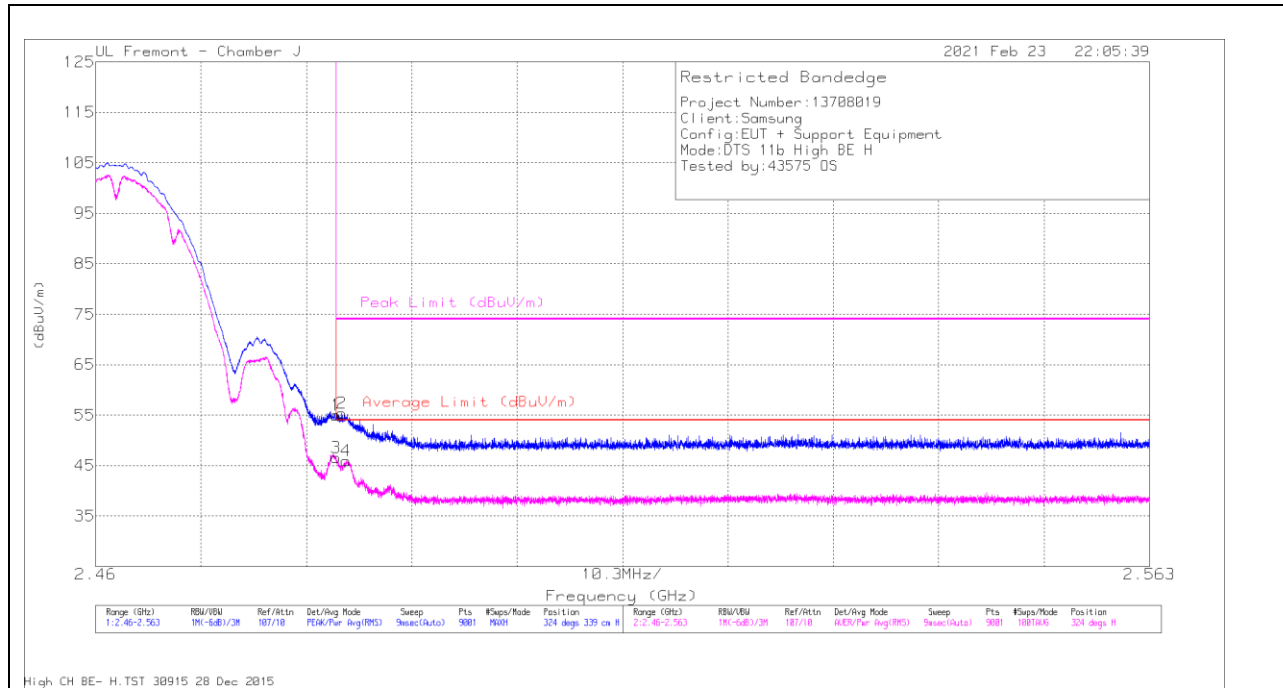


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	42.97	Pk	32.1	-25.2	0	49.87	-	-	74	-24.13	353	361	V
2	* 2.3868	45.21	Pk	32.1	-25.2	0	52.11	-	-	74	-21.89	353	361	V
3	* 2.38999	32.69	RMS	32.1	-25.2	0	39.59	54	-14.41	-	-	353	361	V
4	* 2.38586	34.56	RMS	32.1	-25.2	0	41.46	54	-12.54	-	-	353	361	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**BANDEDGE (HIGH CHANNEL, CH 11)**

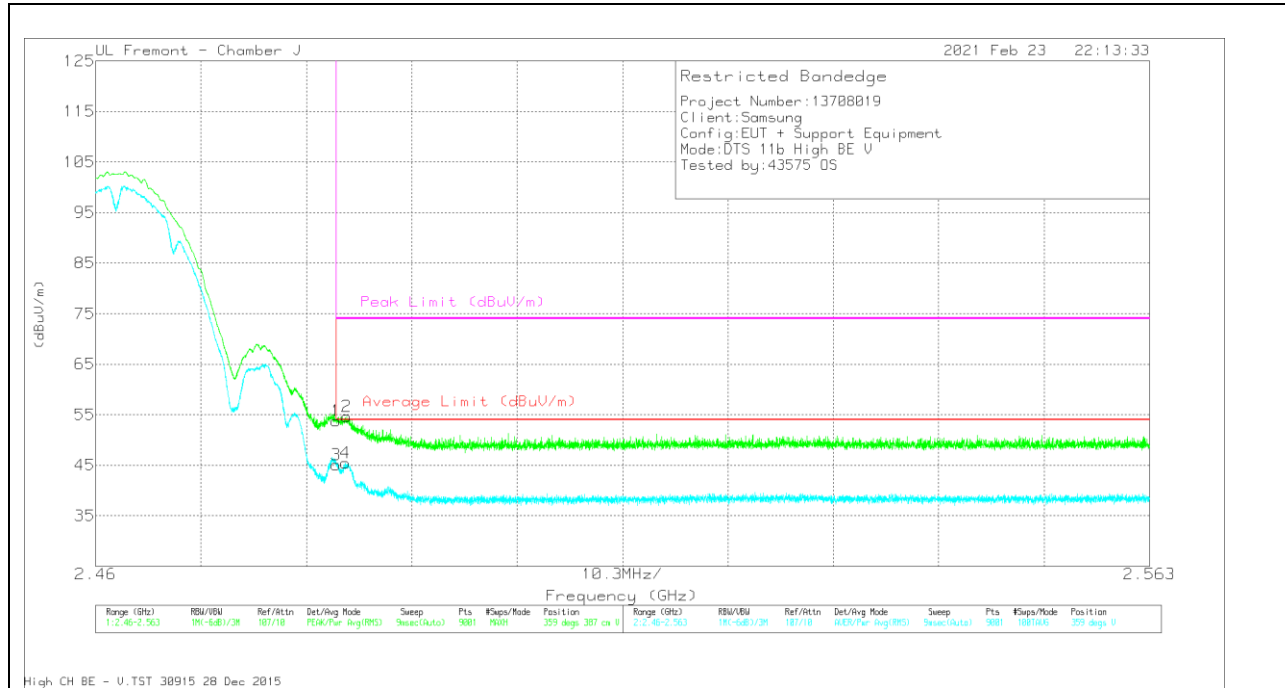
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	47.72	Pk	32.5	-25.2	0	55.02	-	-	74	-18.98	324	339	H
2	* 2.48406	48.06	Pk	32.5	-25.2	0	55.36	-	-	74	-18.64	324	339	H
3	* 2.48351	39.22	RMS	32.5	-25.2	0	46.52	54	-7.48	-	-	324	339	H
4	* 2.48447	38.68	RMS	32.5	-25.2	0	45.98	54	-8.02	-	-	324	339	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT

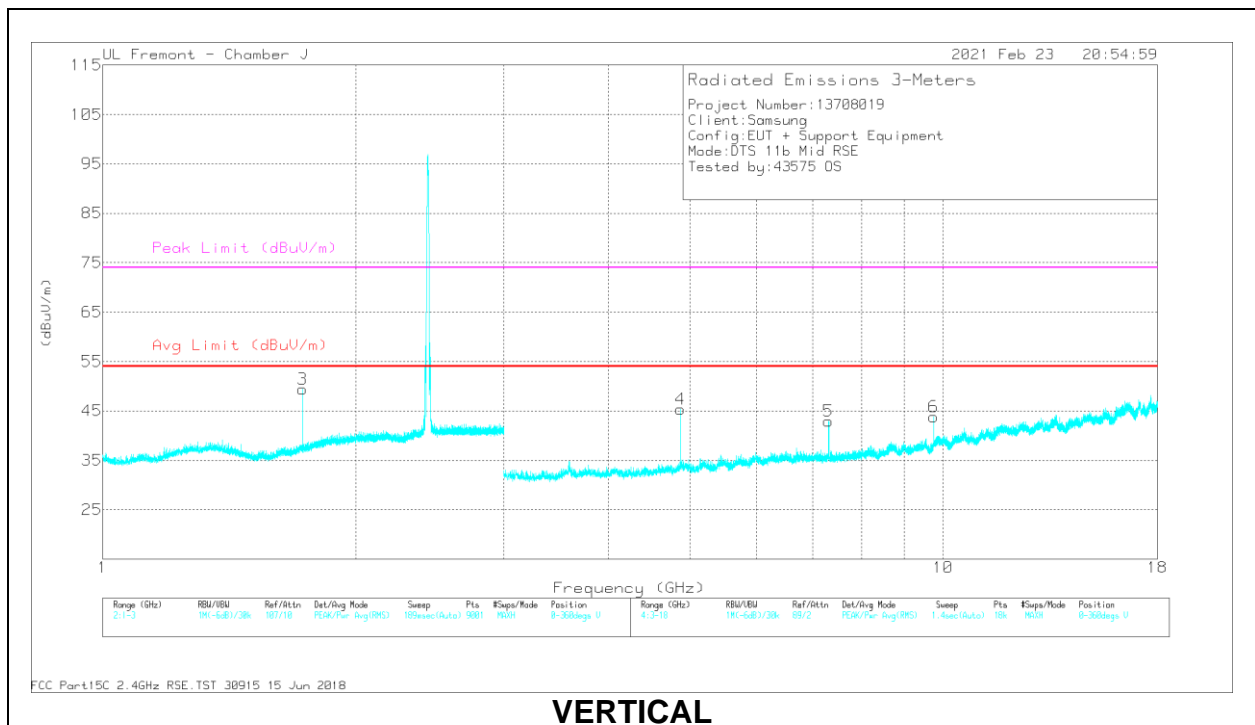
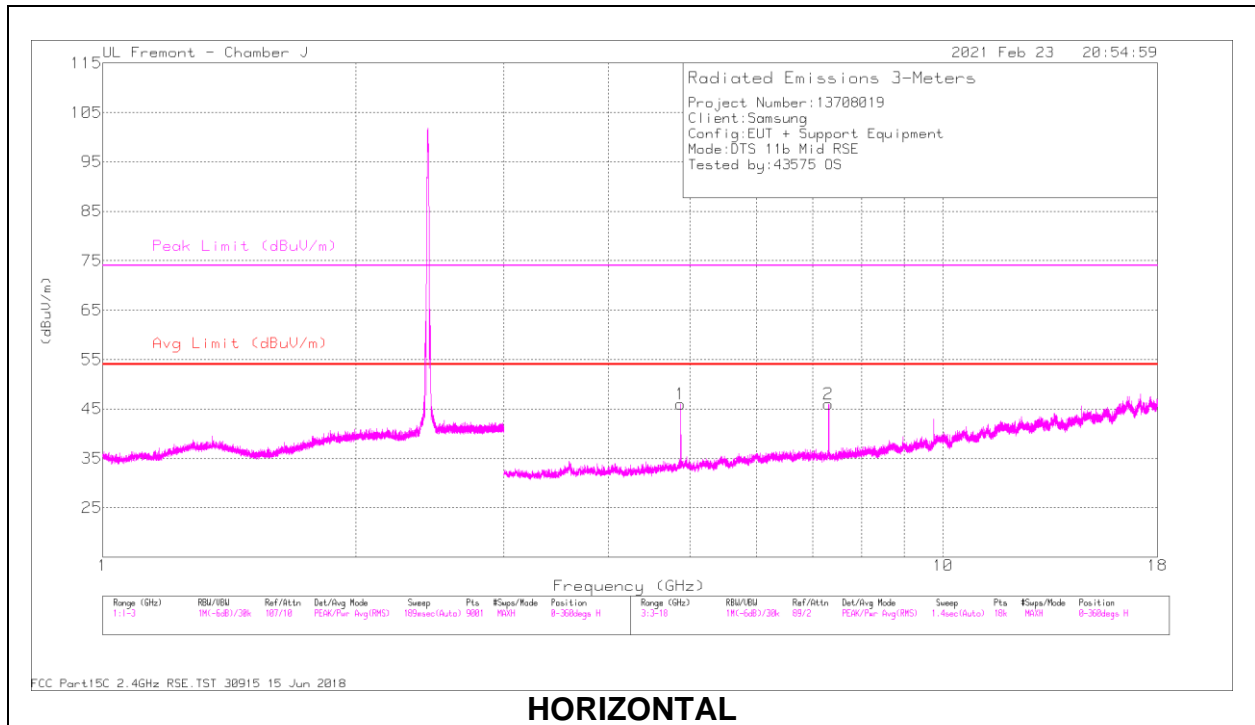


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	46.45	Pk	32.5	-25.2	0	53.75	-	-	74	-20.25	359	387	V
2	* 2.48455	47.35	Pk	32.5	-25.2	0	54.65	-	-	74	-19.35	359	387	V
3	* 2.48351	37.78	RMS	32.5	-25.2	0	45.08	54	-8.92	-	-	359	387	V
4	* 2.48442	38.1	RMS	32.5	-25.2	0	45.4	54	-8.6	-	-	359	387	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL, CH 6 RESULTS**



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	1.72787	44.04	PK2	29.5	-25.5	0	48.04	-	-	-	-	255	180	V
1	* 4.8742	42.12	PK2	34.4	-30.7	0	45.82	-	-	74	-28.18	182	157	H
	* 4.87402	30.7	MAv1	34.4	-30.7	0	34.4	54	-19.6	-	-	182	157	H
2	* 7.30952	42.05	PK2	35.9	-26.5	0	51.45	-	-	74	-22.55	178	108	H
	* 7.31011	33.47	MAv1	35.9	-26.5	0	42.87	54	-11.13	-	-	178	108	H
4	* 4.87395	44.75	PK2	34.4	-30.7	0	48.45	-	-	74	-25.55	1	113	V
	* 4.874	29.24	MAv1	34.4	-30.7	0	32.94	54	-21.06	-	-	1	113	V
5	* 7.30989	40.61	PK2	35.9	-26.5	0	50.01	-	-	74	-23.99	52	109	V
	* 7.31011	32.37	MAv1	35.9	-26.5	0	41.77	54	-12.23	-	-	52	109	V
6	9.74861	34.83	PK2	37.3	-23.4	0	48.73	-	-	-	-	222	127	V

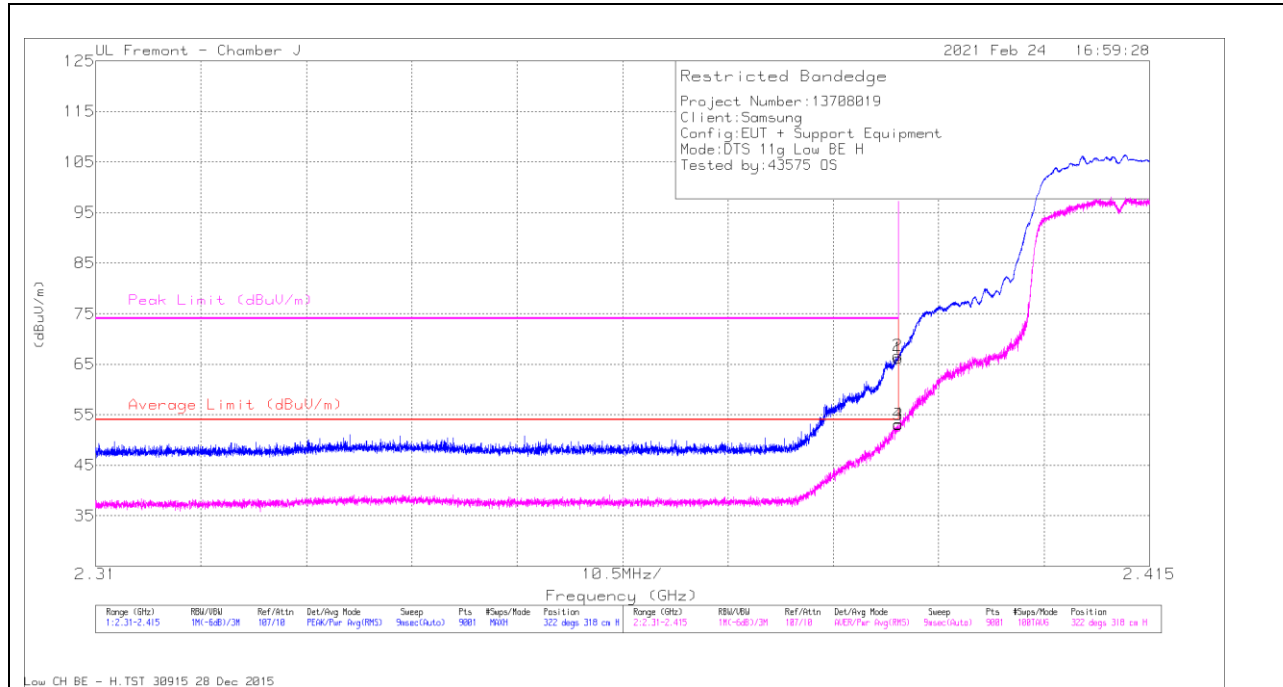
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 MAv1 - KDB558074 Option 1 Maximum RMS Average



**9.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND**

**BANDEDGE (LOW CHANNEL, CH 1)**

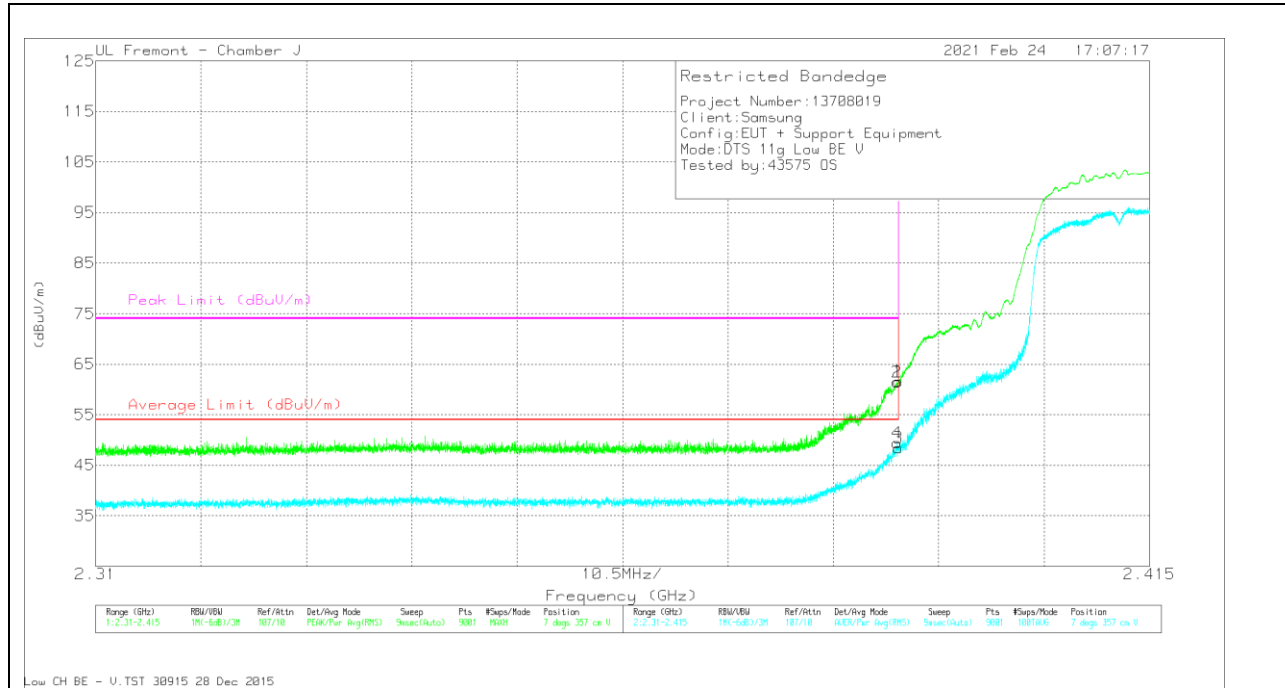
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	59.24	Pk	32.1	-25.2	0	66.14	-	-	74	-7.86	322	318	H
2	* 2.38994	59.76	Pk	32.1	-25.2	0	66.66	-	-	74	-7.34	322	318	H
3	* 2.38999	45.77	RMS	32.1	-25.2	.81	53.48	54	-52	-	-	322	318	H
4	* 2.38998	45.95	RMS	32.1	-25.2	.81	53.66	54	-34	-	-	322	318	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT

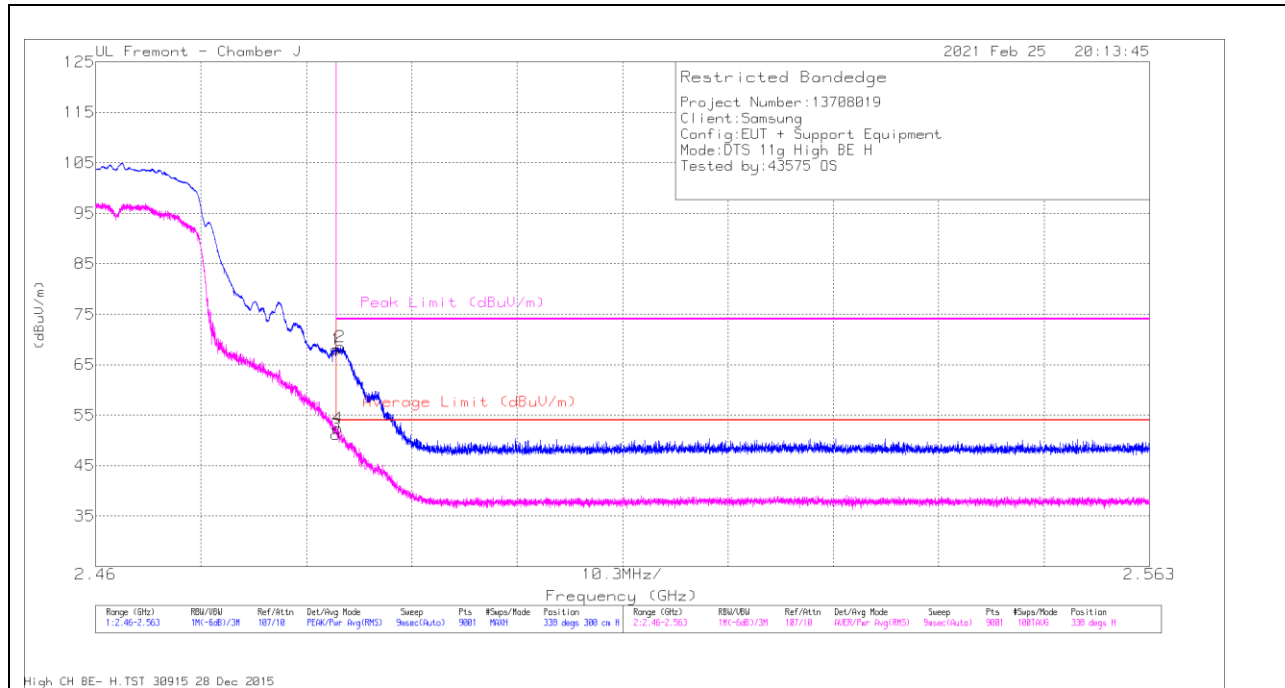


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	54.74	Pk	32.1	-25.2	0	61.64	-	-	74	-12.36	7	357	V
2	* 2.38983	54.56	Pk	32.1	-25.2	0	61.46	-	-	74	-12.54	7	357	V
3	* 2.38999	41.16	RMS	32.1	-25.2	.81	48.87	54	-5.13	-	-	7	357	V
4	* 2.38967	42.2	RMS	32.1	-25.2	.81	49.91	54	-4.09	-	-	7	357	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**BANDEGE (HIGH CHANNEL, CH 11)**

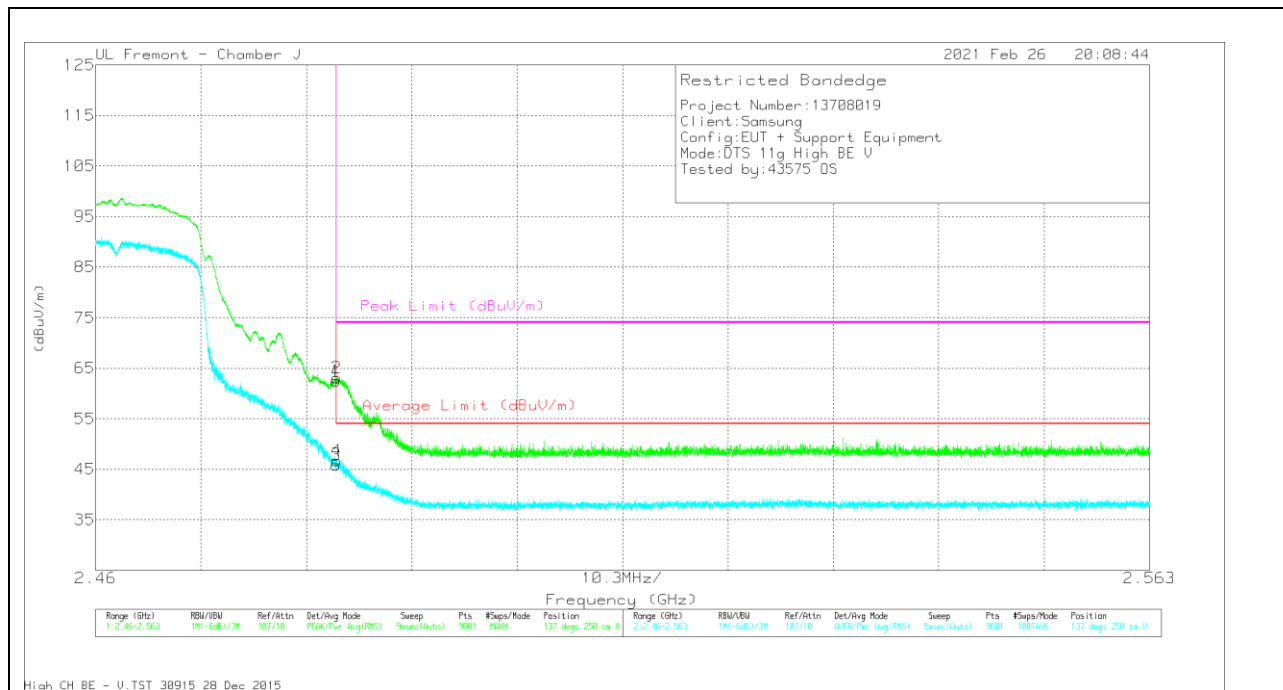
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	60.7	Pk	32.5	-25.2	0	68	-	-	74	-6	338	300	H
2	* 2.48393	61.19	Pk	32.5	-25.2	0	68.49	-	-	74	-5.51	338	300	H
3	* 2.48351	43.51	RMS	32.5	-25.2	.81	51.62	54	-2.38	-	-	338	300	H
4	* 2.48369	44.77	RMS	32.5	-25.2	.81	52.88	54	-1.12	-	-	338	300	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT

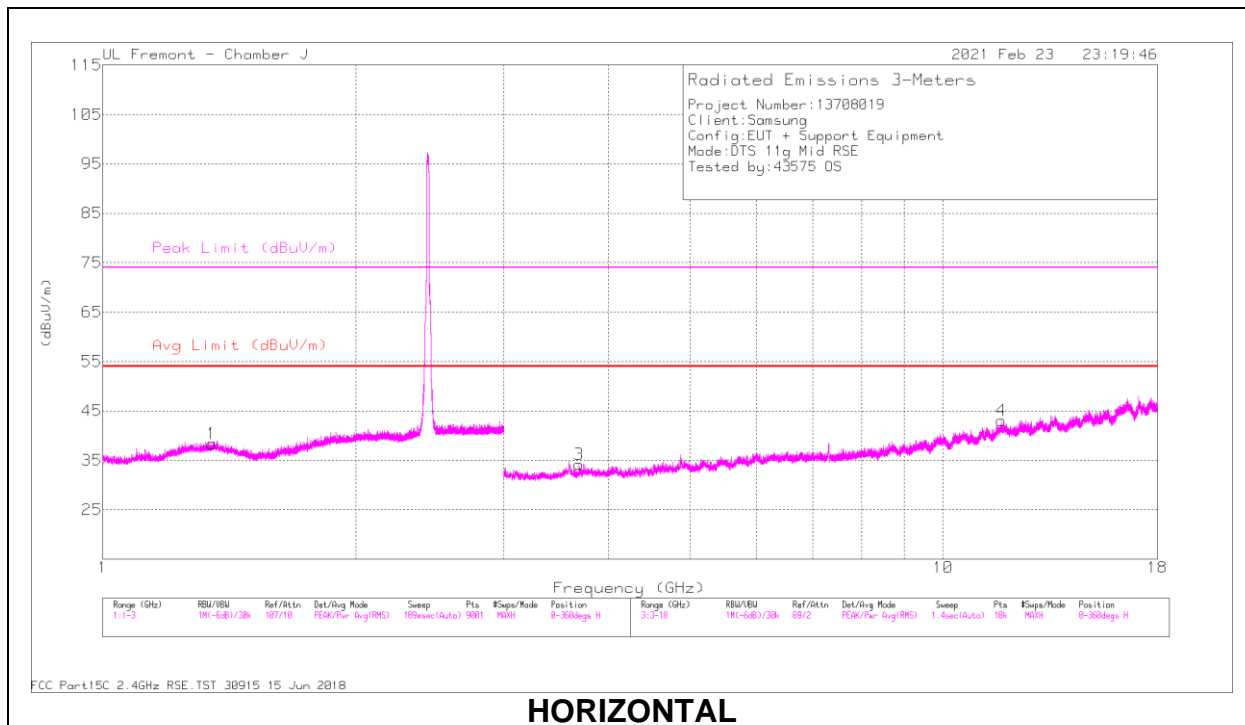


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	55.11	Pk	32.5	-25.2	0	62.41	-	-	74	-11.59	137	250	V
2	* 2.48357	55.81	Pk	32.5	-25.2	0	63.11	-	-	74	-10.89	137	250	V
3	* 2.48351	38.24	RMS	32.5	-25.2	.81	46.35	54	-7.65	-	-	137	250	V
4	* 2.48357	39.08	RMS	32.5	-25.2	.81	47.19	54	-6.81	-	-	137	250	V

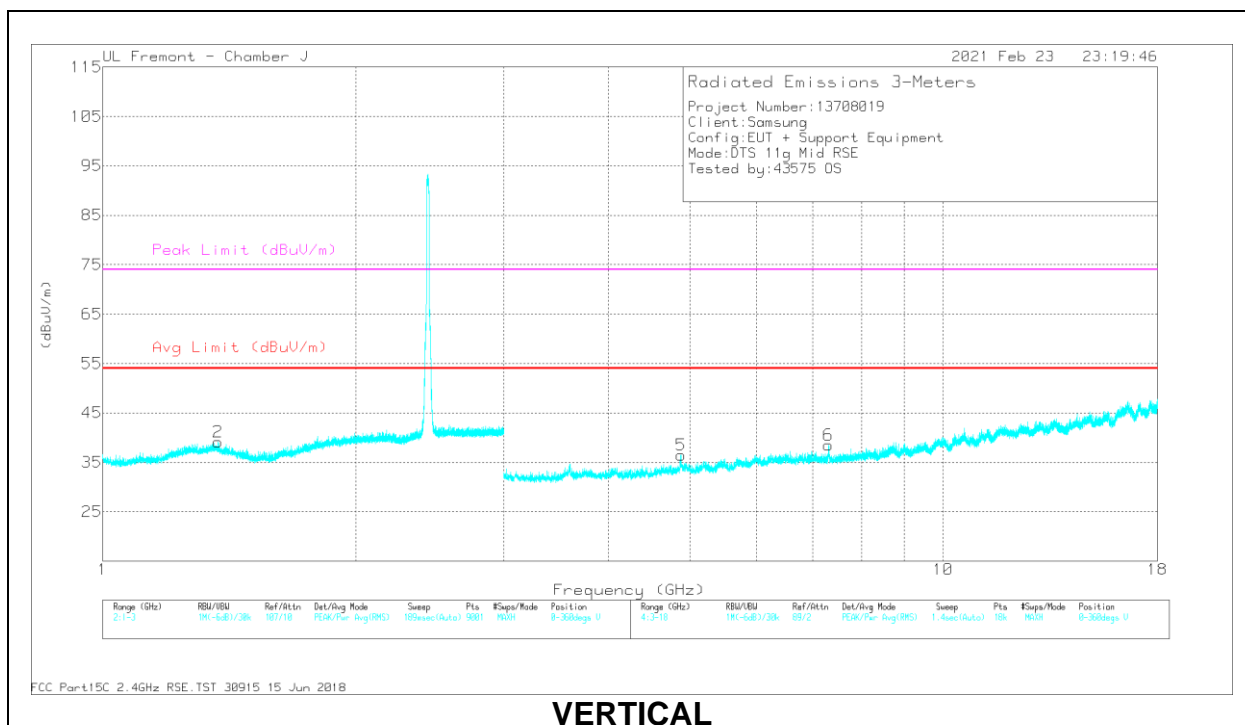
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### HARMONICS AND SPURIOUS EMISSIONS

### MID CHANNEL, CH 6 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

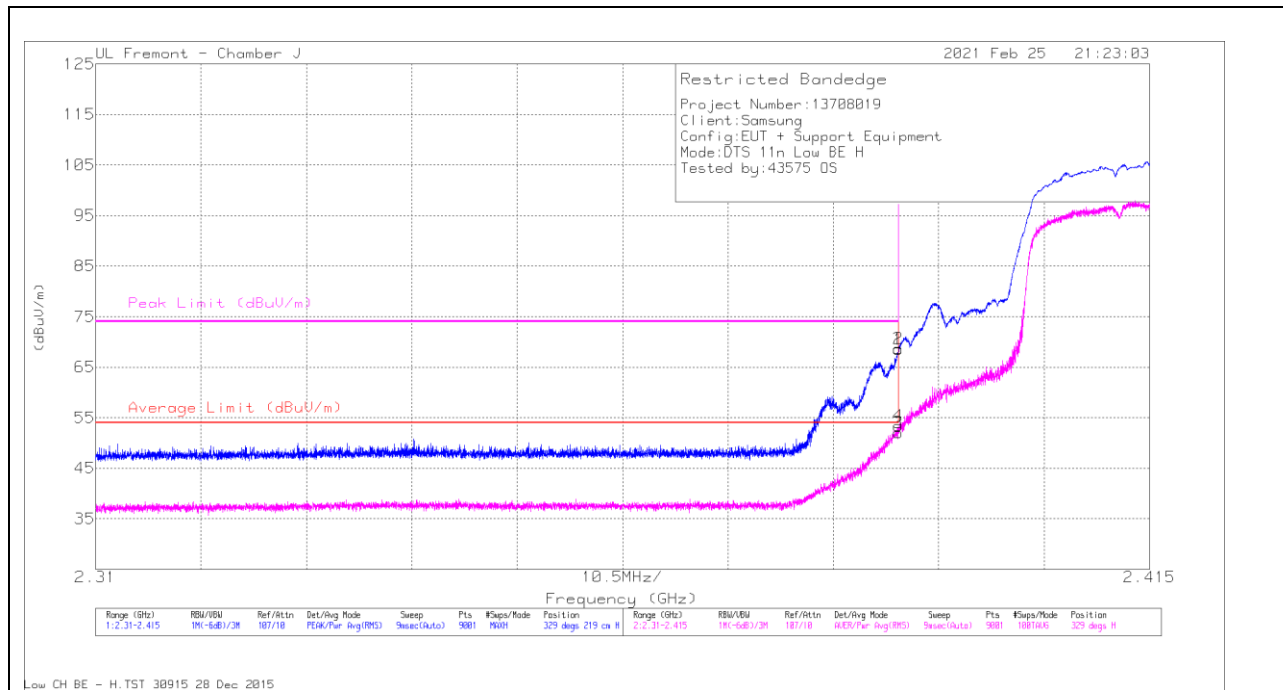
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.34704	43.89	PK2	29.6	-25.6	0	47.89	-	-	74	-26.11	196	314	H
	* 1.34911	32.28	MAv1	29.7	-25.6	.81	37.19	54	-16.81	-	-	196	314	H
2	* 1.37222	44.26	PK2	29.6	-25.6	0	48.26	-	-	74	-25.74	137	166	V
	* 1.37093	32.49	MAv1	29.7	-25.7	.81	37.3	54	-16.7	-	-	137	166	V
3	* 3.68954	41.25	PK2	33.5	-32.2	0	42.55	-	-	74	-31.45	225	315	H
	* 3.69027	29.73	MAv1	33.5	-32.3	.81	31.74	54	-22.26	-	-	225	315	H
4	* 11.7434	34.77	PK2	38.8	-21.8	0	51.77	-	-	74	-22.23	274	197	H
	* 11.74451	23.2	MAv1	38.8	-21.8	.81	41.01	54	-12.99	-	-	274	197	H
5	* 4.87865	42.69	PK2	34.4	-30.7	0	46.39	-	-	74	-27.61	75	167	V
	* 4.87704	28.84	MAv1	34.4	-30.7	.81	33.35	54	-20.65	-	-	75	167	V
6	* 7.30887	38.72	PK2	35.9	-26.5	0	48.12	-	-	74	-25.88	173	308	V
	* 7.30991	25.83	MAv1	35.9	-26.5	.81	36.04	54	-17.96	-	-	173	308	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 MAv1 - KDB558074 Option 1 Maximum RMS Average

**9.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND**

**BANDEDGE (LOW CHANNEL, CH 1)**

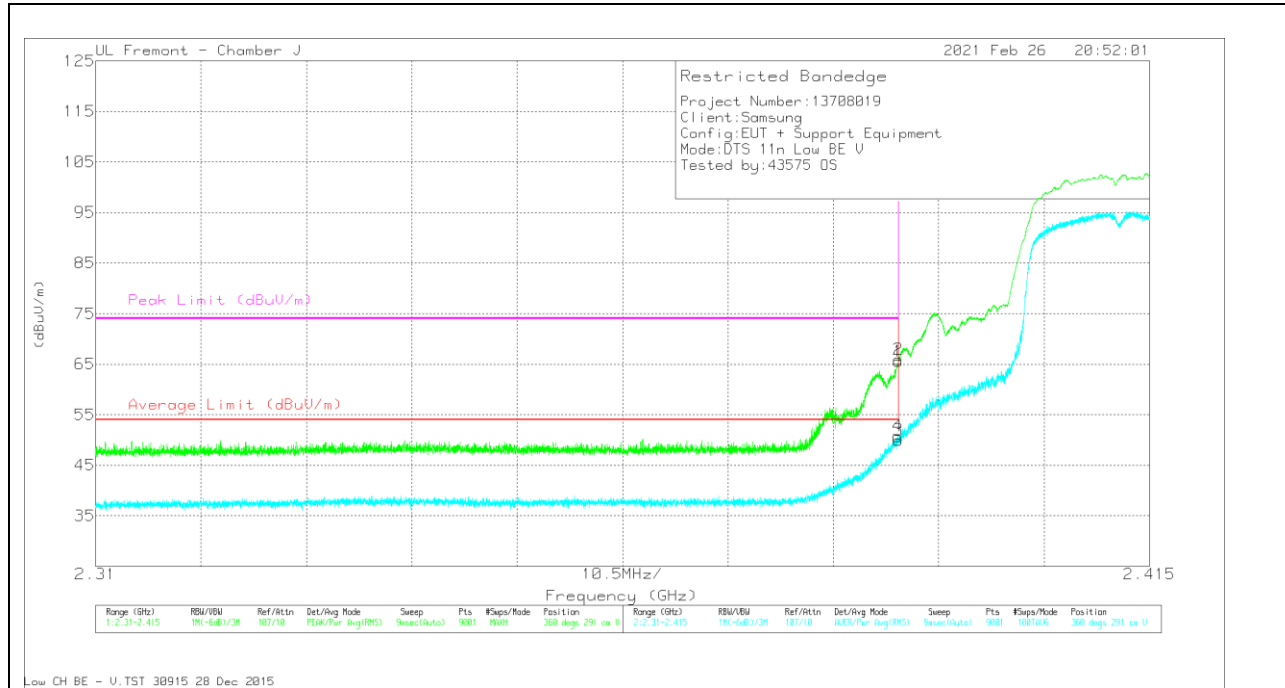
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	61.59	Pk	32.1	-25.2	0	68.49	-	-	74	-5.51	329	219	H
2	* 2.38998	61.72	Pk	32.1	-25.2	0	68.62	-	-	74	-5.38	329	219	H
3	* 2.38999	44.78	RMS	32.1	-25.2	.69	52.37	54	-1.93	-	-	329	219	H
4	* 2.38997	46.09	RMS	32.1	-25.2	.69	53.68	54	-62	-	-	329	219	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT



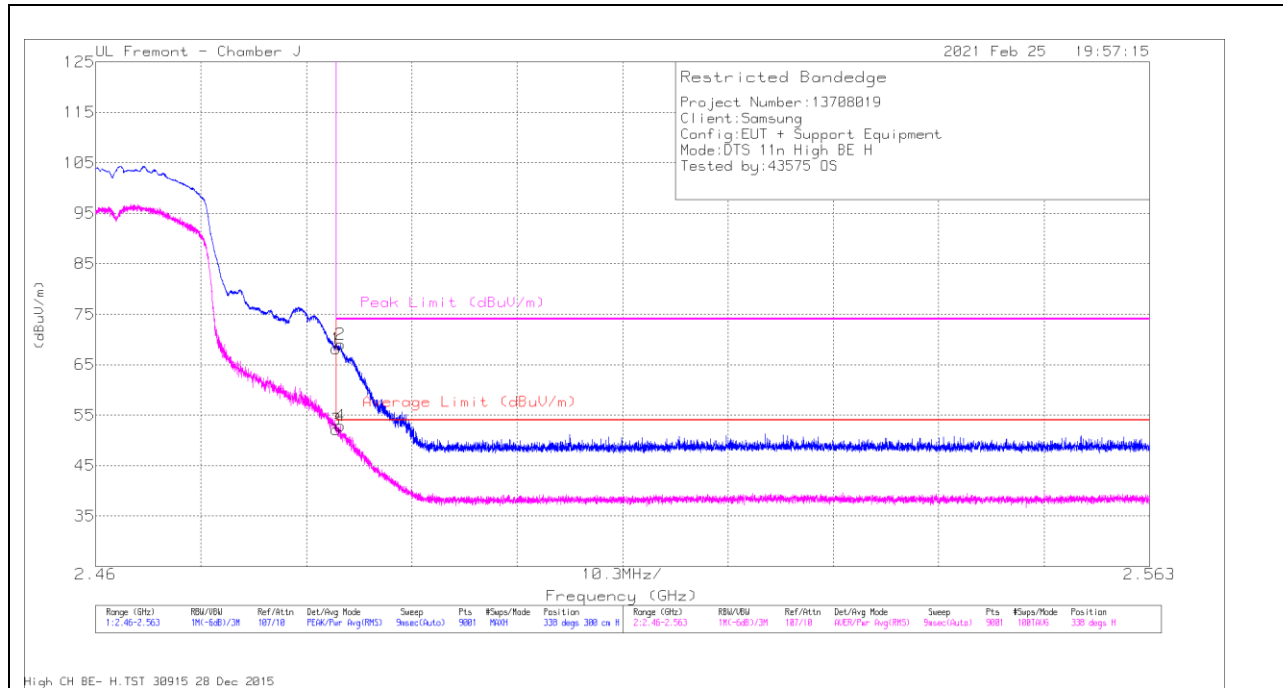
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	58.65	Pk	32.1	-25.2	0	65.55	-	-	74	-8.45	360	291	V
2	* 2.38998	58.99	Pk	32.1	-25.2	0	65.89	-	-	74	-8.11	360	291	V
3	* 2.38999	42.69	RMS	32.1	-25.2	.69	50.28	54	-3.72	-	-	360	291	V
4	* 2.38999	43.44	RMS	32.1	-25.2	.69	51.03	54	-2.97	-	-	360	291	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection



**BANDEDGE (HIGH CHANNEL, CH 11)**

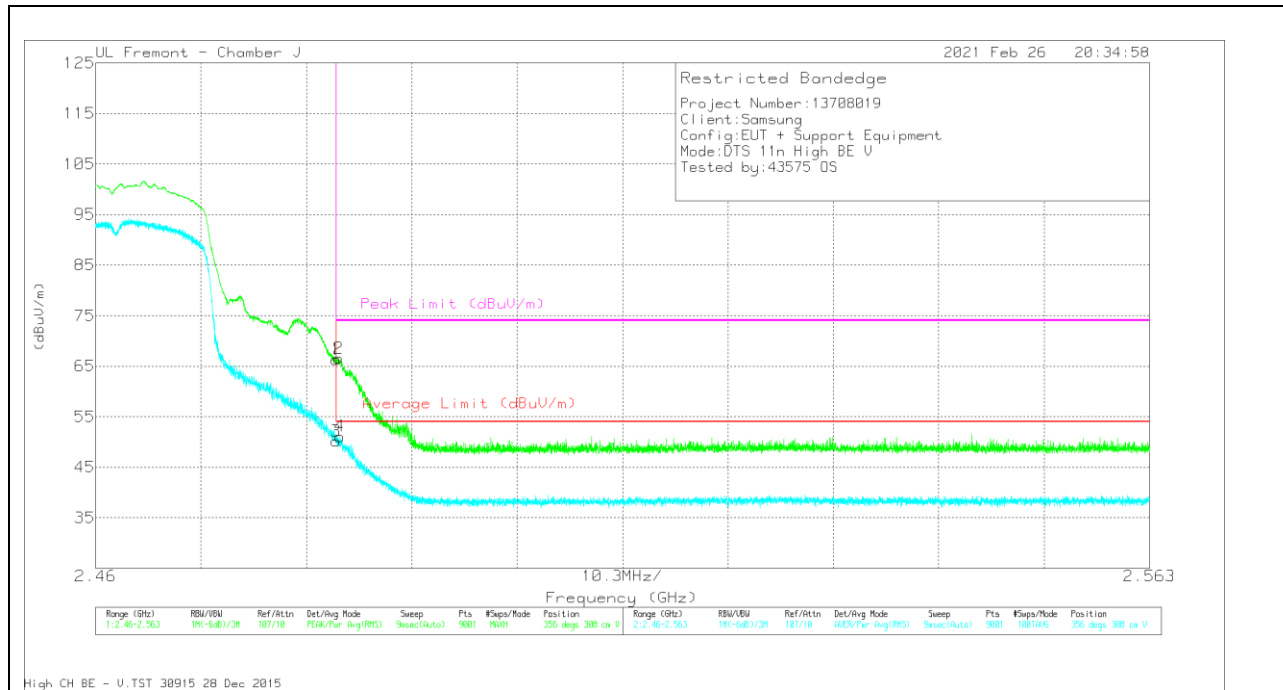
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	60.88	Pk	32.5	-25.2	0	68.18	-	-	74	-5.82	338	300	H
2	* 2.48392	61.78	Pk	32.5	-25.2	0	69.08	-	-	74	-4.92	338	300	H
3	* 2.48351	44.49	RMS	32.5	-25.2	.69	52.48	54	-1.52	-	-	338	300	H
4	* 2.48391	45.26	RMS	32.5	-25.2	.69	53.25	54	-75	-	-	338	300	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT

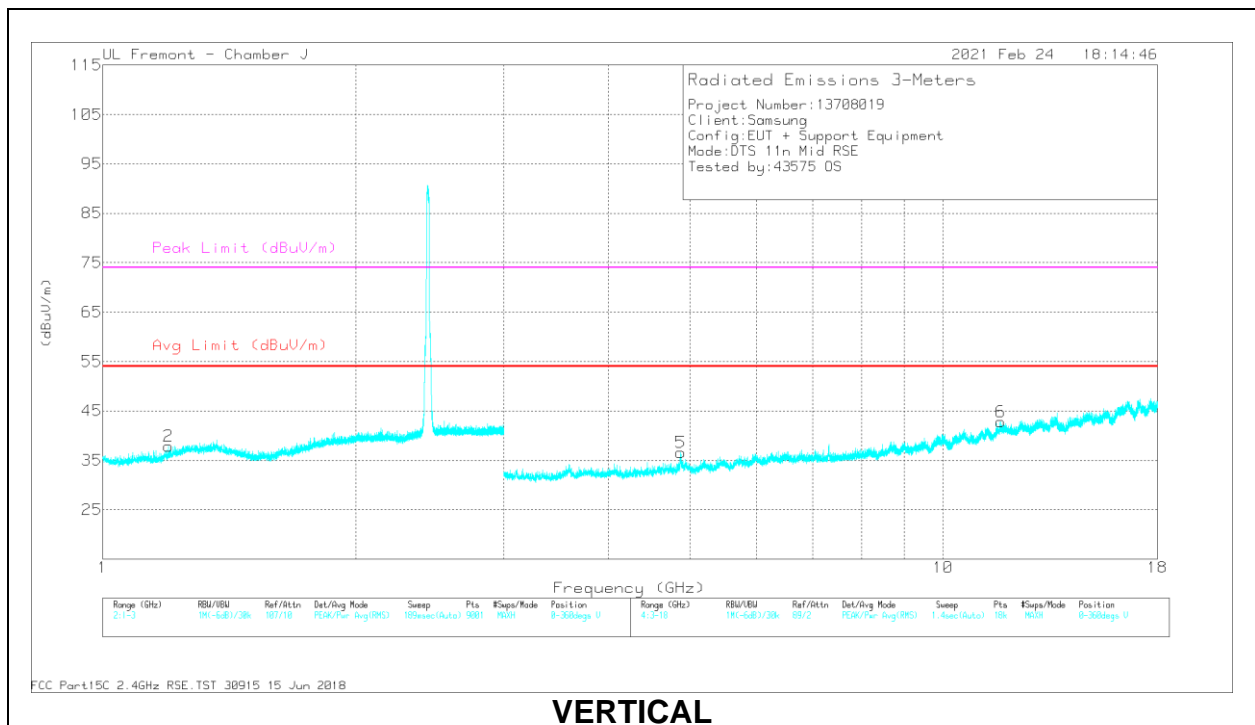
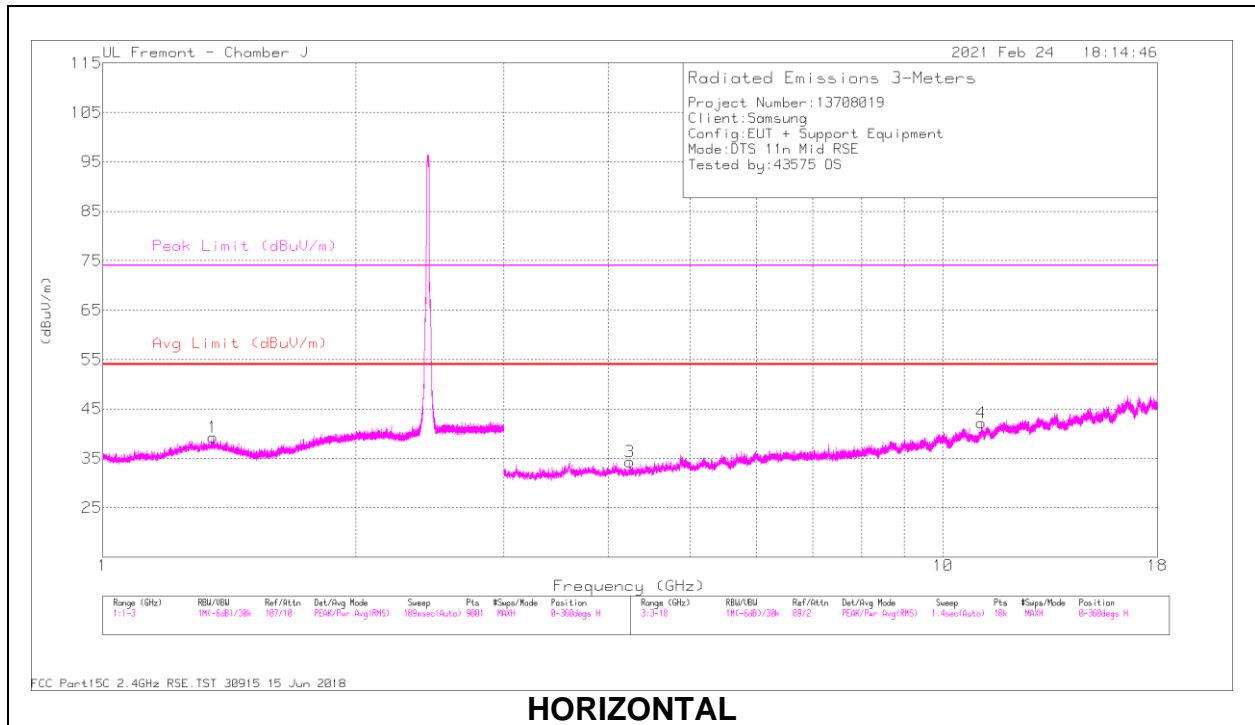


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	58.99	Pk	32.5	-25.2	0	66.29	-	-	74	-7.71	356	308	V
2	* 2.48371	59.29	Pk	32.5	-25.2	0	66.59	-	-	74	-7.41	356	308	V
3	* 2.48351	42.48	RMS	32.5	-25.2	.69	50.47	54	-3.53	-	-	356	308	V
4	* 2.48386	43.41	RMS	32.5	-25.2	.69	51.4	54	-2.6	-	-	356	308	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL, CH 6 RESULTS**



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35456	44.22	PK2	29.8	-25.6	0	48.42	-	-	74	-25.58	335	170	H
	* 1.35233	32.2	MAv1	29.8	-25.6	.69	37.09	54	-16.91	-	-	335	170	H
2	* 1.19674	43.47	PK2	28.3	-25.5	0	46.27	-	-	74	-27.73	278	339	V
	* 1.19804	32.15	MAv1	28.4	-25.5	.69	35.74	54	-18.26	-	-	278	339	V
3	* 4.2399	40.35	PK2	33.6	-31.1	0	42.85	-	-	74	-31.15	336	311	H
	* 4.24079	28.69	MAv1	33.6	-31.1	.69	31.88	54	-22.12	-	-	336	311	H
4	* 11.10196	35.75	PK2	38.2	-22.1	0	51.85	-	-	74	-22.15	40	291	H
	* 11.10124	22.74	MAv1	38.2	-22.1	.69	39.53	54	-14.47	-	-	40	291	H
5	* 4.87412	43.27	PK2	34.4	-30.7	0	46.97	-	-	74	-27.03	96	125	V
	* 4.87479	28.71	MAv1	34.4	-30.7	.69	33.1	54	-20.9	-	-	96	125	V
6	* 11.71672	34.07	PK2	38.7	-21.7	0	51.07	-	-	74	-22.93	330	288	V
	* 11.71532	23.03	MAv1	38.7	-21.7	.69	40.72	54	-13.28	-	-	330	288	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK2 - KDB558074 Method: Maximum Peak  
 MAv1 - KDB558074 Option 1 Maximum RMS Average

**APPENDIX A**

A3LSMM127G SPOT CHECK RESULTS										
Technology	Mode	Test Item	Channel	Frequency Measured (MHz)	A3LSMM127F		A3LSMM127G		Delta (dB)	
					Peak (dBuV/m)	Ave (dBuV/m)	Peak (dBuV/m)	Ave (dBuV/m)	Peak (dBuV/m)	Ave (dBuV/m)
DTS	b	RBE	11	2462	54.15	45.52	55.36	46.52	1.21	1
		RSE	6	7310.23	51.31	44.78	51.45	42.87	0.14	-1.91
	g	RBE	1	2412	66.11	51.16	66.66	53.19	0.55	2.03
		RSE	6	7309.77	50.16	37.55	48.12	35.57	-2.04	-1.98
	n HT20	RBE	1	2412	67.87	51.23	68.62	53.38	0.75	2.15
		RSE	6	11103.39	47.87	35.33	51.85	40.42	3.98	5.09
Note: 802.11n HT20 Mode RSE delta is from noise floor variance										

**END OF TEST REPORT**