



TEST REPORT

Report Number : 13573777-E21V1

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

Model : A2481

FCC ID : BCG-E3994A

IC : 579C-E3994A

EUT Description : SMARTPHONE

Test Standard(s) : FCC CFR 47 PART 15 SUBPART F §15.519
ISED RSS-220 ISSUE 1 AMENDMENT 1

Date Of Issue:
July 30, 2021

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	07/30/2021	Initial Issue	Thu Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
ONE APPLE PARK WAY
CUPERTINO, CA 95014, USA

EUT DESCRIPTION: SMARTPHONE

MODEL: A2481

BRAND: APPLE

SERIAL NUMBERS: G0HFYT6X7Q

SAMPLE RECEIPT DATES: MAY 14, 2021; JULY 29, 2021

DATE TESTED: MAY 25 – JULY 29, 2021

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC §15 Subpart F	Complies
ISED RSS-220 Issue 1 Amendment 1	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 A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For
UL Verification Services Inc. By:

Tested By:



Thu Chan
STAFF ENGINEER
UL Verification Services Inc.

Alejandro Martinez
LABORATORY ENGINEER
UL Verification Services Inc.

2. TEST RESULTS SUMMARY

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

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.4
15.503 & 15.519 (b)	RSS-220 Sect. 2	-10 dB BW	Complies	ANSI C63.10 Section 10.1
15.519 (c) & (e)	RSS-220 Sect. 4 (c) & 5.3.1 (d)	Pk Power & Max Avg Emissions	Complies	ANSI C63.10 Section 10.3
15.519 (a)(1)	RSS-220 Sect. 5.3.1 (b)	Cessation Time	Complies	None
15.519 (c) & 15.209 (a)	RSS-220 Sect. 3.4	Emissions Below 960 MHz	Complies	ANSI C63.10 Section 10.2
15.519 (c) & (d)	RSS-220 Sect. 5.3.1 (d) & (e)	Emissions Above 960 MHz	Complies	ANSI C63.10 Section 10.3
15.207 (a)	RSS-Gen 8.8	AC Power Line Conducted Emissions	Complies	ANSI C63.10 Section 6.2

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with CFR Title 47 Part 15 Subpart F, KDB 393764 D01 UWB FAQ v02, ISED RSS-220 Issue 1 Amendment 1 and ANSI C63.10-2013 and RSS GEN Issue 5.

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	208313
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	208313
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	208313

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1 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.

5.2 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.)

5.3 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, 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	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

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

5.4 SAMPLE CALCULATION

RADIATED EMISSION

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{EIRP (dBm)} &= \text{Meter Reading (dBm)} + \text{Antenna Factor (dB/m)} + \text{Pre-Amp Gain/Cbl Loss (dB)} \\ &\quad + \text{dBm-to-dBm Unit Conversion Factor @ 3m} \\ &= -60 \text{ dBm} + 28 \text{ dB/m} + (-27) \text{ dB} + 11.8 \\ &= -48.3 \text{ dBm}\end{aligned}$$

6. EQUIPMENT UNDER TEST

6.1 DESCRIPTION OF EUT

The EUT is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

This test report addresses the UWB operational mode.

The EUT has a UWB transceiver with four integral antennas (ANT 0 = UWB1, ANT 1 = UWB2, ANT 2 = ANT6/UWB0 & ANT3 = UWB3). ANT0 and ANT1 only operates on 8 GHz (Channel 9). ANT2 and ANT3 operates on 6.5 GHz (Channel 5) and 8 GHz (Channel 9). The antennas are not user accessible. Six signal configurations (CONFIG 0,1,2,3,4 & 5) are available for each ANT/CH setting.

ANT	CH	CONFIG
0	9	0
0	9	1
0	9	2
0	9	3
0	9	4
0	9	5
1	9	0
1	9	1
1	9	2
1	9	3
1	9	4
1	9	5
2	5	0
2	5	1
2	5	2
2	5	3
2	5	4
2	5	5
2	9	0
2	9	1
2	9	2
2	9	3
2	9	4
2	9	5
3	5	0
3	5	1
3	5	2
3	5	3
3	5	4
3	5	5
3	9	0
3	9	1
3	9	2
3	9	3
3	9	4
3	9	5

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and by ISED-Canada.

6.2 MAXIMUM OUTPUT POWER

Highest Average Powers based on ANT/CH.

ANT	CH	CONFIG	Average Power (dBm EIRP)
0	9	5	-42.30
1	9	1	-42.32
2	5	0	-42.50
2	9	1	-42.34
3	5	5	-42.48
3	9	0	-42.46

6.3 DESCRIPTION OF AVAILABLE ANTENNAS

Four integral antennas are employed and the antenna gains are listed as follow:

CH	Freq. Band	Gain (dBi)			
	(GHz)	ANT 0 (UWB1)	ANT 1 (UWB2)	ANT 2 (ANT6/UWB0)	ANT 3 (UWB3)
5	6.5	n/a	n/a	-3.0	-6.5
9	8.0	1.1	0.0	-3.7	-1.1

6.4 MODULATION

The UWB signal is BPSK pulsed modulated signal.

6.5 SOFTWARE AND FIRMWARE

The Software and Firmware version used at test is 19A272.

7 DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Laptop + Adapter	Apple	Mac Book Pro	C02TK02YJ10C
Kanzi – USB Adapter	Apple	--	31EF77
Laptop + Adapter	Apple	Mac Book Pro	C02YVBP0LVDD
Kanzi – USB Adapter	Apple	--	316C5F
Smart Phone	Apple	A2484	TM2NVJYF60

I/O CABLES

I/O CABLES					
Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
AC	1	AC	Un-shielded	2	N/A
USB	1	USB	Un-shielded	1	N/A

TEST SETUP

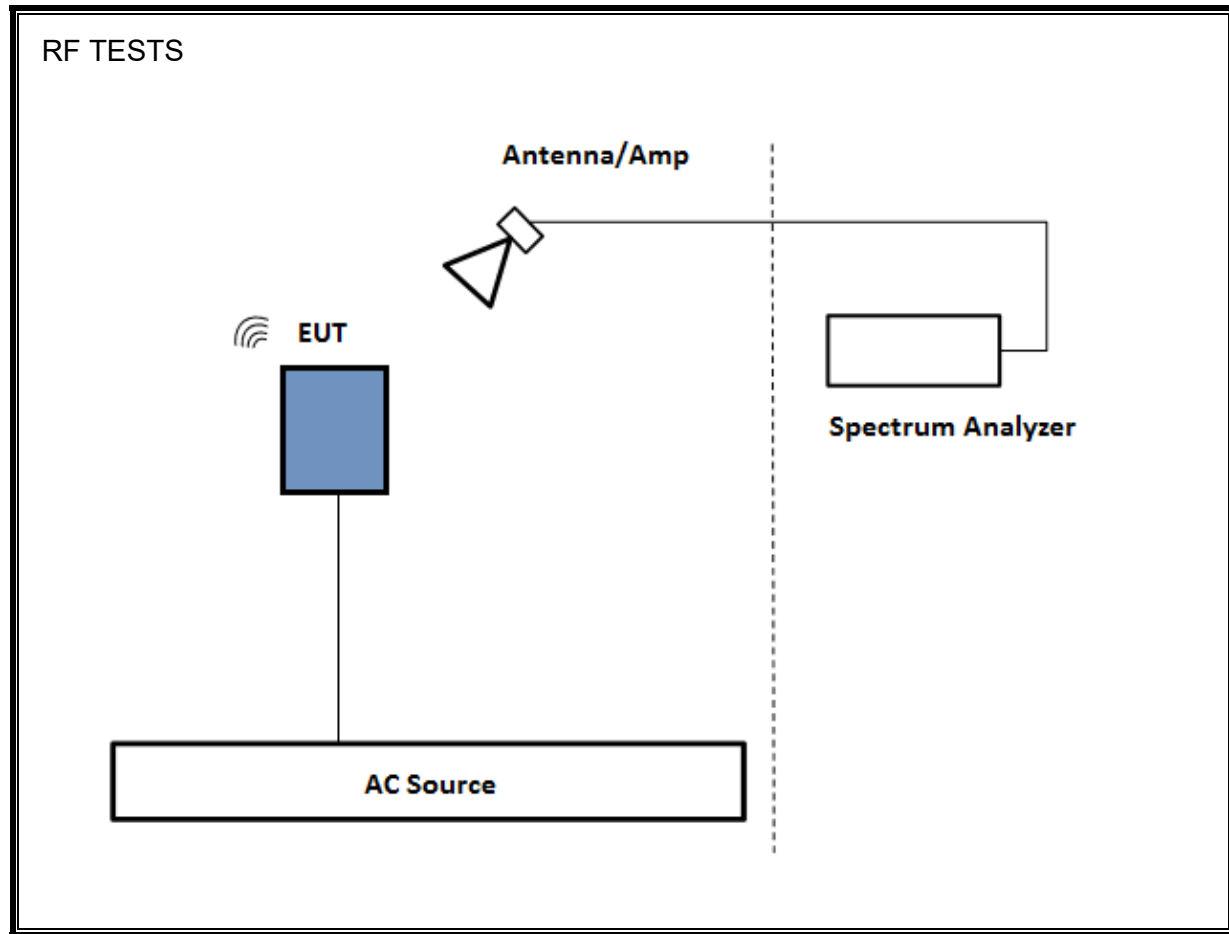
The EUT was examined at pre-scan test using a fundamental frequency in the portrait (z), landscape (y), and flatbed (x) position and the worst case orientation of individual ANT/CH/CONFIG setting was determined for final spurious emission measurement. Config 3, Payload 125 of both CH5 and CH9 on all 4 antennas were selected to test for unwanted emissions as the worst case after pre-scan.

Measurements of spurious average emissions were made with the device operating at a higher power than production power to ensure compliance. Measurements of the in-band signal (peak and average emissions, 10 dBc bandwidth, 99% bandwidth) were all made at the production power settings.

EUT was connected to AC power adapter in all test cases.

For simultaneous transmission on the same antenna of multiple channels in the UWB and WiFi, no noticeable new emission was found.

SETUP DIAGRAM FOR TESTS



8 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	Local ID	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESW44	PRE0203383	2/24/2021	2/24/2022
Horn Antenna, 1-18 GHz	ETS Lindgren	3117	T120	4/7/2021	4/7/2022
Preamp, 1-18 GHz	Miteq	AFS42-00101800-25-S-42	PRE0183207	6/11/2020	6/11/2021*
PXA Signal Analyzer	Agilent	N9030A	T906	1/27/2021	1/27/2022
Hybrid Antenna, 30-2000 MHz	SunAR	JB3	T900	2/24/2021	2/24/2022
Preamp, 0.1-1300 MHz	Sonoma Inst.	310	T173	7/22/2020	7/22/2021
Horn Antenna, 1-18 GHz	ETS Lindgren	3117	T712	3/22/2021	3/22/2022
Preamp, 1-18 GHz	Miteq	AFS42-00101800-25-S-42	PRE0183530	8/27/2020	8/27/2021
Antenna, Active Loop 9kHz-30MHz	ETS Lindgren	6502	T757	11/12/2020	11/12/2021
PXA Signal Analyzer	Agilent	N9030A	T1454	1/27/2021	1/27/2022
Preamplifier, 1-26.5GHz	Agilent	8449B	T404	4/19/2021	4/19/2022
Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	T449	4/22/2021	4/22/2022
Preamplifier, 26-40 GHz	Miteq	NSTTA2640-35-HG	T1864	4/19/2021	4/19/2022
Horn Antenna, 26-40 GHz	ARA	MWH-2640/B	PRE0183142	4/22/2021	4/22/2022
Low Pass Filter	Microtronics	LPM20143	188196	11/3/2020	11/3/2021
High Pass Filter, CH5	Wainwright Inst. GMBH	WHW2-7100-10000-18000-40DC	176232	11/3/2020	11/3/2021
High Pass Filter, CH9	Wainwright Inst. GMBH	WHW2-8165-11500-21000-40CD	176234	10/26/2020	10/26/2021
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	T1436	2/19/2021	2/19/2022
Power Cable, Line Conducted Emissions	Pasternack Enterprises	RG233/U	202327	10/16/2020	10/16/2021
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01	PRE0186446	1/20/2021	1/20/2022
Radiated Software	UL	UL EMC	Ver 9.5.07, July 2020		
AC Line Conducted Software	UL	UL EMC	Ver 9.5.07, July 2020		

*Equipment was used to perform tests prior to the calibration due date.

9. APPLICABLE LIMITS AND TEST RESULTS

9.1. 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

TEST PROCEDURE

ANSI C63.10 Section 6.9.4

The transmitter output is connected to a spectrum analyzer. The RBW is in the range of 1% to 5% of the OBW bandwidth. The VBW is set to $\geq 3 \times \text{RBW}$. The sweep time is coupled.

Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 bandwidth measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

RESULTS

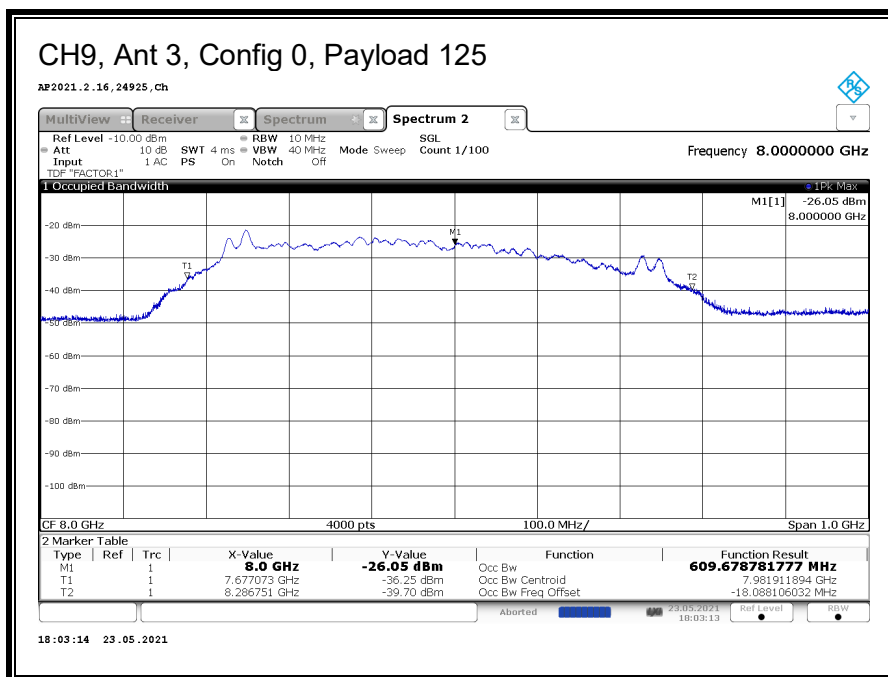
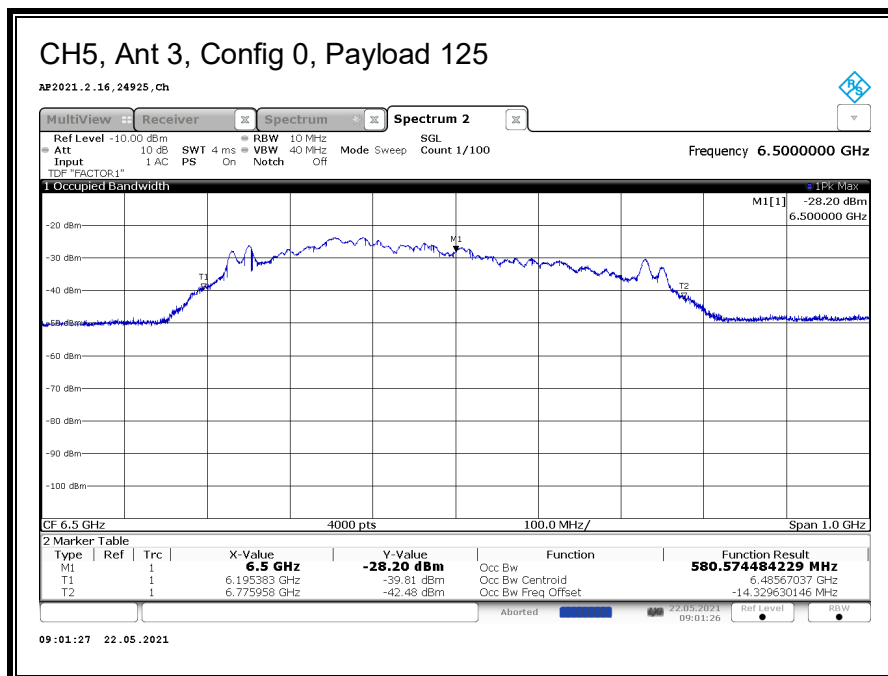
Employee IDs: 19419, 19190, 12471, 20737

Location: Chamber D

Test Date: 05/20/2021 – 07/08/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant Polarity	99% BW (MHz)
0	9	0	125	Landscape	V	603.51
0	9	1	125	Landscape	V	604.75
0	9	2	125	Landscape	V	669.72
0	9	3	125	Landscape	V	663.67
0	9	4	0	Landscape	V	704.91
0	9	5	0	Landscape	V	650.71
1	9	0	125	Portrait	H	608.06
1	9	1	125	Portrait	H	596.17
1	9	2	125	Portrait	H	682.62
1	9	3	125	Portrait	H	686.46
1	9	4	0	Portrait	H	742.45
1	9	5	0	Portrait	H	649.17
2	5	0	125	Portrait	H	615.78
2	5	1	125	Portrait	H	614.29
2	5	2	125	Portrait	H	638.19
2	5	3	125	Portrait	H	636.81
2	5	4	0	Portrait	H	623.83
2	5	5	0	Portrait	H	616.01
2	9	0	125	Landscape	H	631.89
2	9	1	125	Landscape	H	624.74
2	9	2	125	Landscape	H	686.29
2	9	3	125	Landscape	H	678.89
2	9	4	0	Landscape	H	664.73
2	9	5	0	Landscape	H	632.68
3	5	0	125	Landscape	V	580.57
3	5	1	125	Landscape	V	567.51
3	5	2	125	Landscape	V	655.95
3	5	3	125	Landscape	V	659.87
3	5	4	0	Landscape	V	696.26
3	5	5	0	Landscape	V	620.45
3	9	0	125	Landscape	V	609.68
3	9	1	125	Landscape	V	603.14
3	9	2	125	Landscape	V	693.79
3	9	3	125	Landscape	V	702.02
3	9	4	0	Landscape	V	718.24
3	9	5	0	Landscape	V	631.74

99% BW



9.2 OPERATING BANDWIDTH

FCC

§15.503 (a) *UWB bandwidth*. For the purpose of this subpart, the UWB bandwidth is the frequency band bounded by the points that are 10 dB below the highest radiated emission, as based on the complete transmission system including the antenna. The upper boundary is designated f_H and the lower boundary is designated f_L . The frequency at which the highest radiated emission occurs is designated f_M .

§15.503 (b) *Center frequency*. The center frequency, f_C , equals $(f_H + f_L)/2$.

§15.503 (c) *Fractional bandwidth*. The fractional bandwidth equals $2(f_H - f_L)/(f_H + f_L)$.

§15.503 (d) *Ultra-wideband (UWB) transmitter*. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

§15.519 (b) The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

RSS-220

Section 2 A *UWB device* is an intentional radiator that has either a *-10 dB bandwidth* of at least 500 MHz or a *-10 dB fractional bandwidth* greater than 0.2.

Section 5.1 (a) The -10 dB bandwidth of the device shall be totally contained in the band 3.1-10.6 GHz.

“-10 dB bandwidth B_{-10} ” and “-10 dB fractional bandwidth μ_{-10} ” are defined as follows:

$$B_{-10} = f_H - f_L$$
$$\mu_{-10} = B_{-10}/f_C$$

where:

f_M is the frequency of maximum UWB transmission;

f_H is the highest frequency at which the power spectral density of the UWB transmission is -10 dB relative to f_M ;

f_L is the lowest frequency at which the power spectral density of the UWB transmission is -10 dB relative to f_M ; and

$f_C = (f_H + f_L)/2$ is the centre frequency of the -10 dB bandwidth.

TEST PROCEDURE

ANSI C63.10 Clause 10.1

RSS-220 Section 2 of the Annex

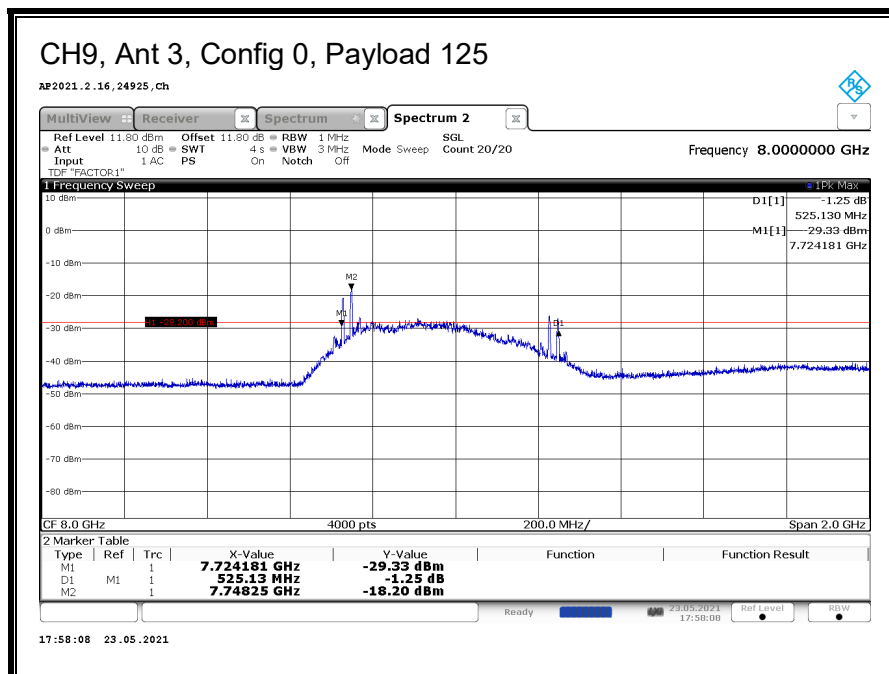
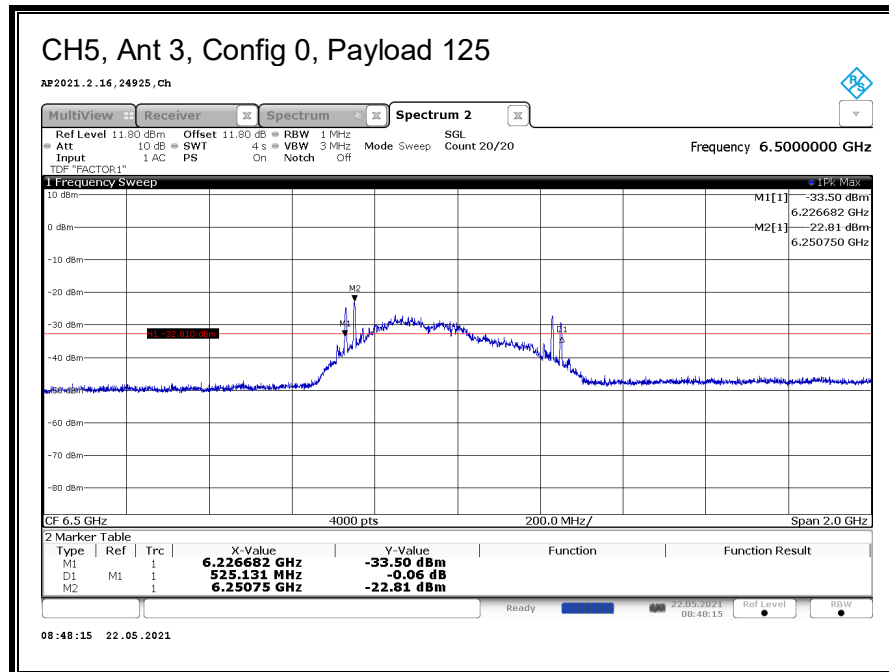
Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 bandwidth measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

RESULTS

Employee IDs: 19419, 19190, 12471, 20737
Location: Chamber D
Test Date: 05/20/2021 – 07/08/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant Polarity	FM (GHz)	FL (GHz)	FH (GHz)	FC (GHz)	OBW (MHz)	Min. OBW (MHz)	OBW Margin (MHz)	OBW Pass/Fail
0	9	0	125	Landscape	V	8.227	7.724	8.250	7.987	526.13	500	26.13	P
0	9	1	125	Landscape	V	8.226	7.724	8.250	7.987	526.13	500	26.13	P
0	9	2	125	Landscape	V	7.748	7.725	8.249	7.987	524.13	500	24.13	P
0	9	3	125	Landscape	V	8.226	7.726	8.248	7.987	522.13	500	22.13	P
0	9	4	0	Landscape	V	8.226	7.724	8.250	7.987	526.13	500	26.13	P
0	9	5	0	Landscape	V	7.749	7.723	8.251	7.987	528.13	500	28.13	P
1	9	0	125	Portrait	H	7.748	7.724	8.250	7.987	526.13	500	26.13	P
1	9	1	125	Portrait	H	8.226	7.724	8.250	7.987	526.13	500	26.13	P
1	9	2	125	Portrait	H	7.748	7.725	8.249	7.987	524.13	500	24.13	P
1	9	3	125	Portrait	H	7.748	7.726	8.248	7.987	522.63	500	22.63	P
1	9	4	0	Portrait	H	7.748	7.724	8.250	7.987	526.13	500	26.13	P
1	9	5	0	Portrait	H	7.749	7.723	8.251	7.987	527.63	500	27.63	P
2	5	0	125	Portrait	H	6.251	6.226	6.753	6.489	526.63	500	26.63	P
2	5	1	125	Portrait	H	6.250	6.226	6.753	6.489	526.63	500	26.63	P
2	5	2	125	Portrait	H	6.250	6.228	6.751	6.489	523.63	500	23.63	P
2	5	3	125	Portrait	H	6.729	6.228	6.751	6.489	522.63	500	22.63	P
2	5	4	0	Portrait	H	6.250	6.226	6.753	6.489	526.63	500	26.63	P
2	5	5	0	Portrait	H	6.251	6.225	6.754	6.489	529.13	500	29.13	P
2	9	0	125	Landscape	H	7.748	7.724	8.250	7.987	525.63	500	25.63	P
2	9	1	125	Landscape	H	7.748	7.724	8.250	7.987	525.63	500	25.63	P
2	9	2	125	Landscape	H	7.748	7.725	8.249	7.987	523.63	500	23.63	P
2	9	3	125	Landscape	H	7.748	7.726	8.248	7.987	522.13	500	22.13	P
2	9	4	0	Landscape	H	7.748	7.724	8.250	7.987	525.63	500	25.63	P
2	9	5	0	Landscape	H	7.749	7.723	8.250	7.987	527.13	500	27.13	P
3	5	0	125	Landscape	V	6.251	6.227	6.752	6.489	525.13	500	25.13	P
3	5	1	125	Landscape	V	6.250	6.227	6.752	6.489	525.13	500	25.13	P
3	5	2	125	Landscape	V	6.250	6.228	6.751	6.489	523.13	500	23.13	P
3	5	3	125	Landscape	V	6.250	6.228	6.750	6.489	522.13	500	22.13	P
3	5	4	0	Landscape	V	6.250	6.226	6.752	6.489	525.63	500	25.63	P
3	5	5	0	Landscape	V	6.361	6.226	6.752	6.489	526.63	500	26.63	P
3	9	0	125	Landscape	V	7.748	7.724	8.249	7.987	525.13	500	25.13	P
3	9	1	125	Landscape	V	7.748	7.724	8.249	7.986	524.63	500	24.63	P
3	9	2	125	Landscape	V	7.748	7.726	8.248	7.987	522.63	500	22.63	P
3	9	3	125	Landscape	V	7.748	7.726	8.248	7.987	521.63	500	21.63	P
3	9	4	0	Landscape	V	7.748	7.724	8.250	7.987	525.63	500	25.63	P
3	9	5	0	Landscape	V	7.749	7.723	8.250	7.987	527.13	500	27.13	P

RESULTS



9.3 PEAK POWER AND MAXIMUM AVERAGE EMISSIONS

LIMITS

FCC

15.519 (e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_m . That limit is 0 dBm EIRP.

15.519 (c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
3100 - 10600	-41.3

RSS-220

Annex, Section 4 (c) Peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz.

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Frequency	E.I.R.P. in a Resolution Bandwidth of 1 MHz
4.75 – 10.6 GHz	-41.3 dBm

TEST PROCEDURE

ANSI C63.10 Clause 10.3

RSS-220 Annex

Peak EIPR power is measured using RBW of 50 MHz.

The radiated emissions of 6 - 9 GHz frequency band are performed at 3-meter test distance.

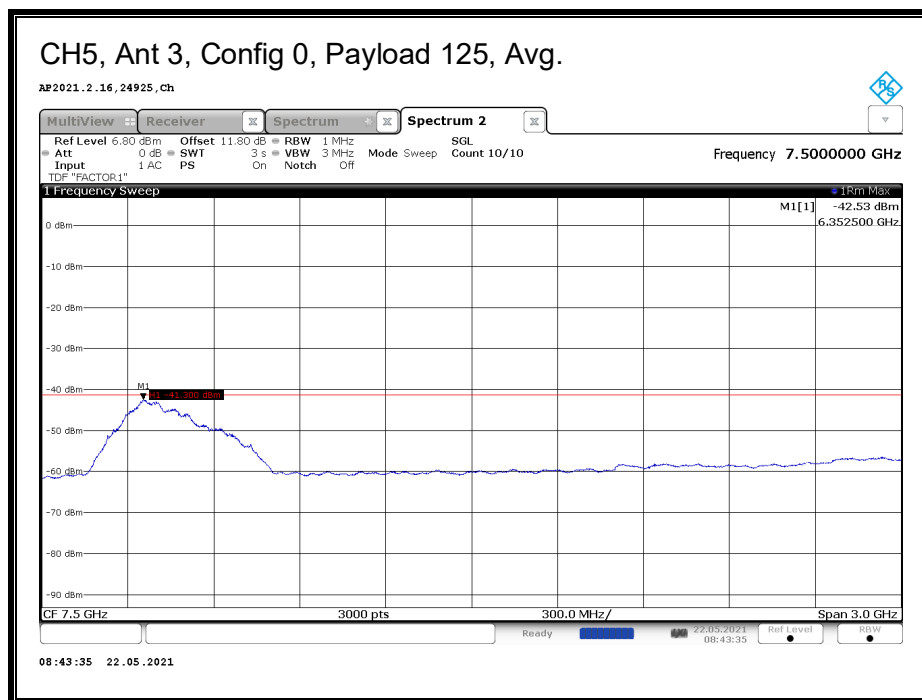
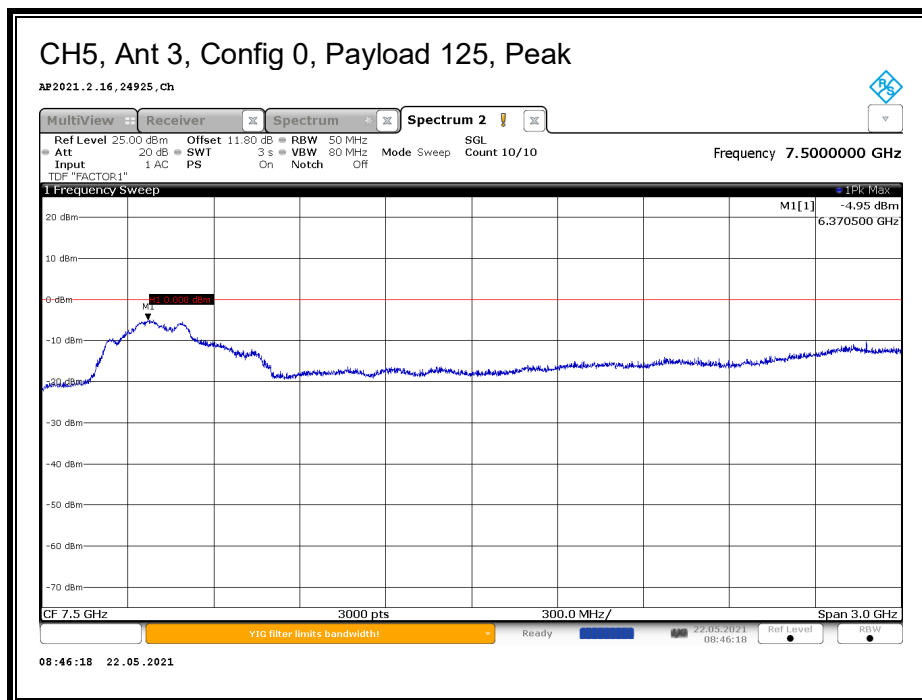
Tabulated data provides the test results of all available test configurations. The plots of Ant 3, CONFIG 0, Payload 125 power measurement on CH5 and CH9 are presented and same measurement settings apply to the rest of test configurations.

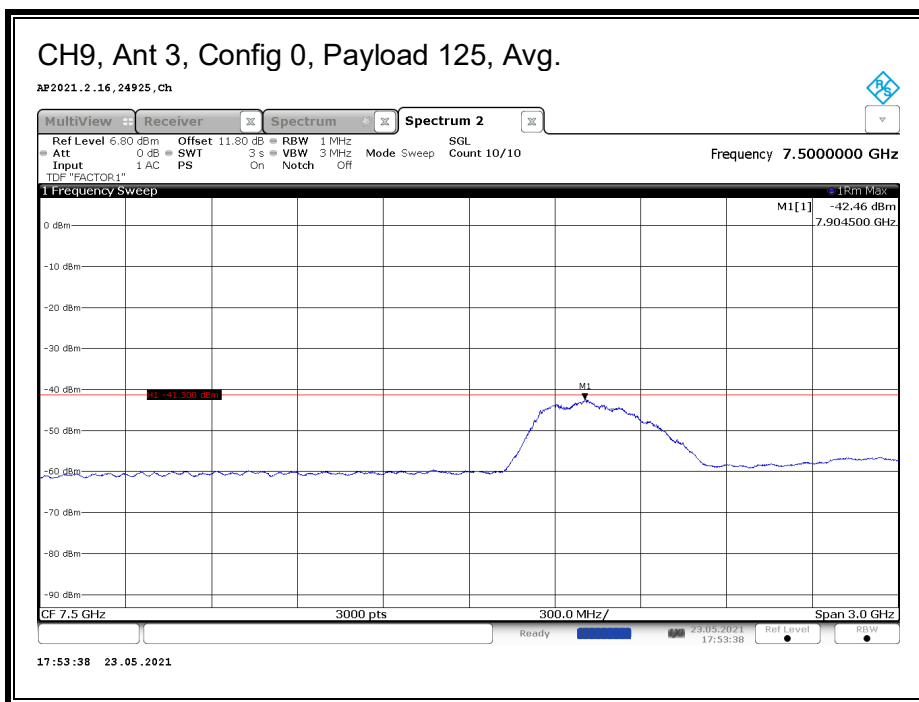
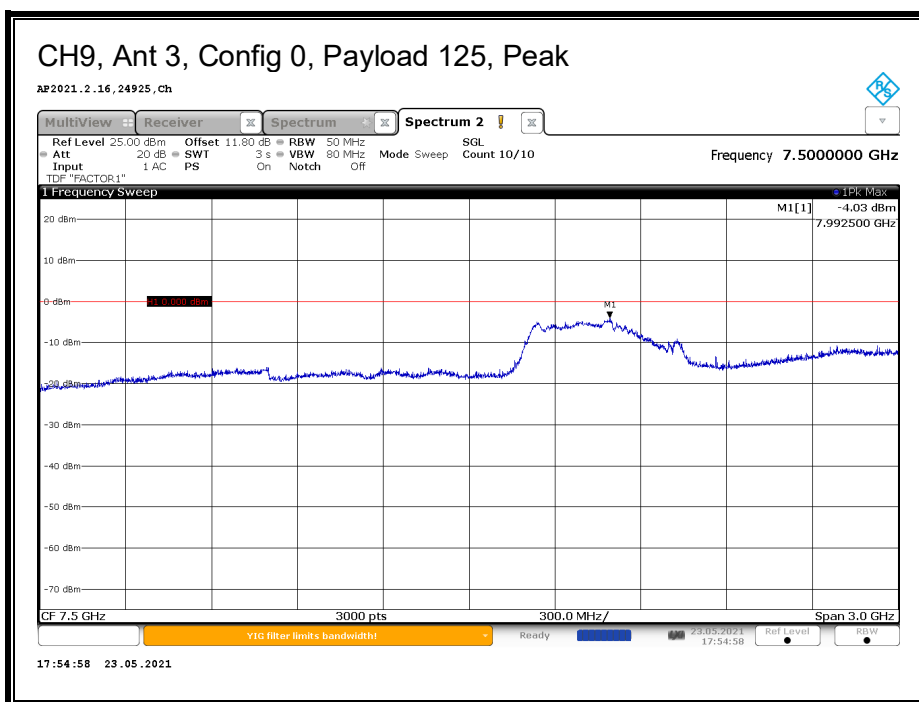
RESULTS

Employee IDs: 19419, 19190, 12471, 20737
Location: Chamber D
Test Date: 05/20/2021 – 07/08/2021

ANT	CH	CONFIG	Payload	EUT Orientation	Meas. Ant. Polarity	Peak EIRP Power				Average EIRP Power			
						FM (GHz)	Peak Power (dBm/50MHz)	Peak Limit (0 dBm/50 MHz)	Margin (dB)	FM (GHz)	Avg Power (dBm/MHz)	Avg Limit (dBm/MHz)	Margin (dB)
0	9	0	125	Landscape	V	8.0455	-3.52	0	-3.52	8.0365	-42.34	-41.3	-1.04
0	9	1	125	Landscape	V	8.0155	-3.24	0	-3.24	8.0255	-43.00	-41.3	-1.70
0	9	2	125	Landscape	V	7.9935	-6.64	0	-6.64	8.0285	-42.38	-41.3	-1.08
0	9	3	125	Landscape	V	7.9845	-5.77	0	-5.77	8.0345	-42.43	-41.3	-1.13
0	9	4	0	Landscape	V	8.2245	-5.06	0	-5.07	8.0295	-42.36	-41.3	-1.06
0	9	5	0	Landscape	V	8.2265	-4.39	0	-4.39	8.0275	-42.30	-41.3	-1.00
1	9	0	125	Portrait	H	7.9795	-3.73	0	-3.73	8.0215	-42.79	-41.3	-1.49
1	9	1	125	Portrait	H	7.9865	-2.49	0	-2.49	8.0255	-42.32	-41.3	-1.02
1	9	2	125	Portrait	H	7.9915	-6.57	0	-6.57	8.0195	-42.49	-41.3	-1.19
1	9	3	125	Portrait	H	7.9905	-6.55	0	-6.55	8.0255	-42.61	-41.3	-1.31
1	9	4	0	Portrait	H	8.2305	-7.57	0	-7.57	8.0285	-42.83	-41.3	-1.53
1	9	5	0	Portrait	H	7.7435	-5.78	0	-5.78	8.0285	-42.81	-41.3	-1.51
2	5	0	125	Portrait	H	6.2465	-4.37	0	-4.37	6.3445	-42.50	-41.3	-1.20
2	5	1	125	Portrait	H	6.4875	-3.42	0	-3.42	6.3525	-42.52	-41.3	-1.22
2	5	2	125	Portrait	H	6.4875	-7.43	0	-7.43	6.3535	-42.91	-41.3	-1.61
2	5	3	125	Portrait	H	6.4925	-7.41	0	-7.41	6.3515	-42.63	-41.3	-1.33
2	5	4	0	Portrait	H	6.2435	-4.30	0	-4.30	6.3495	-42.85	-41.3	-1.55
2	5	5	0	Portrait	H	6.2465	-2.89	0	-2.89	6.3445	-42.74	-41.3	-1.44
2	9	0	125	Landscape	H	7.9995	-3.96	0	-3.96	7.9045	-43.00	-41.3	-1.70
2	9	1	125	Landscape	H	7.9975	-2.65	0	-2.65	7.8865	-42.34	-41.3	-1.04
2	9	2	125	Landscape	H	7.9995	-6.66	0	-6.66	7.8975	-42.92	-41.3	-1.62
2	9	3	125	Landscape	H	7.9845	-6.66	0	-6.66	7.7475	-42.65	-41.3	-1.35
2	9	4	0	Landscape	H	7.7435	-3.02	0	-3.02	7.9045	-42.34	-41.3	-1.04
2	9	5	0	Landscape	H	7.7435	-1.53	0	-1.53	7.9035	-42.47	-41.3	-1.17
3	5	0	125	Landscape	V	6.3705	-4.95	0	-4.95	6.3525	-42.53	-41.3	-1.23
3	5	1	125	Landscape	V	6.3715	-4.01	0	-4.01	6.3525	-42.63	-41.3	-1.33
3	5	2	125	Landscape	V	6.4835	-8.39	0	-8.39	6.3985	-42.64	-41.3	-1.34
3	5	3	125	Landscape	V	6.4875	-8.66	0	-8.66	6.3655	-42.67	-41.3	-1.37
3	5	4	0	Landscape	V	6.3655	-8.25	0	-8.25	6.3995	-42.53	-41.3	-1.23
3	5	5	0	Landscape	V	6.3645	-6.44	0	-6.44	6.3995	-42.48	-41.3	-1.18
3	9	0	125	Landscape	V	7.9925	-4.03	0	-4.03	7.9045	-42.46	-41.3	-1.16
3	9	1	125	Landscape	V	7.9915	-3.67	0	-3.67	7.9125	-43.09	-41.3	-1.79
3	9	2	125	Landscape	V	7.9955	-6.75	0	-6.75	7.8005	-42.96	-41.3	-1.66
3	9	3	125	Landscape	V	7.9885	-6.69	0	-6.69	7.9195	-42.92	-41.3	-1.62
3	9	4	0	Landscape	V	7.7425	-5.12	0	-5.12	7.9165	-42.73	-41.3	-1.43
3	9	5	0	Landscape	V	7.7455	-3.25	0	-3.25	7.8075	-42.53	-41.3	-1.23

RESULTS





9.4 CESSATION TIME

LIMITS

FCC

§15.519(a)(1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

RSS-220

Section 5.3.1 (b) The device is to transmit only when it is sending information to an associated receiver. The device shall cease transmission of information within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB device at least every 10 seconds or the UWB device shall cease transmitting any information other than periodic signals used for the establishment or re-establishment of a communication link with an associated receiver.

TEST PROCEDURES

* Initiator = EUT

* Responder = associated receiver

Transmissions are monitored for two cases:

1. The Initiator ends the UWB link.
2. The Responder ends the UWB link.

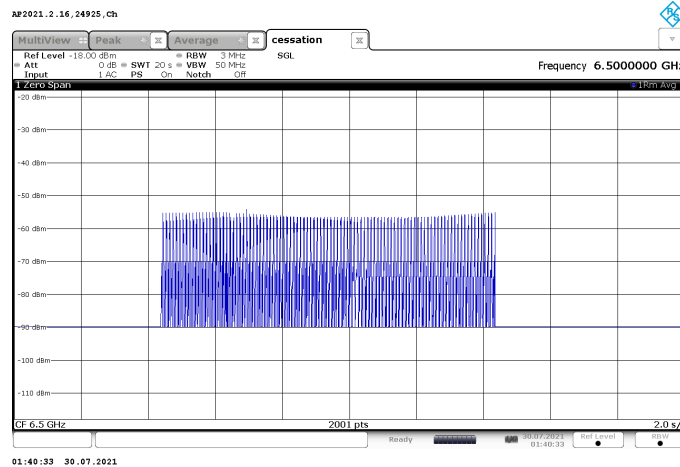
RESULTS

Employee ID: 19419
Location: Chamber D
Test Date: 07/29/2021

Signal Levels on all Plots

- Initiator is Low Amplitude
- Responder is High Amplitude

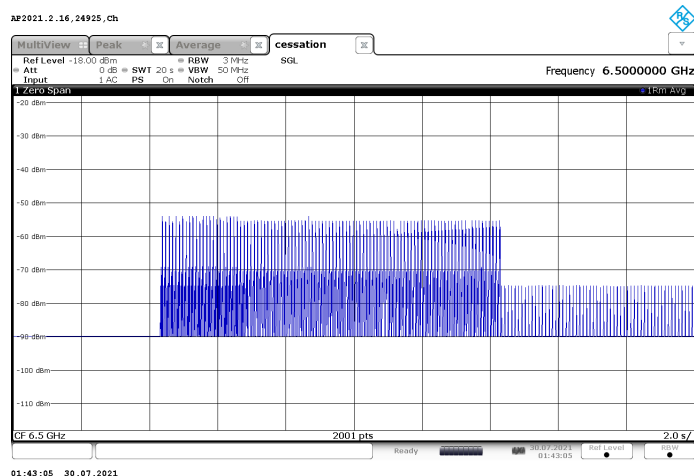
Case 1: Initiator ends the UWB link



RESULT

- All devices, including the Responder, cease transmissions

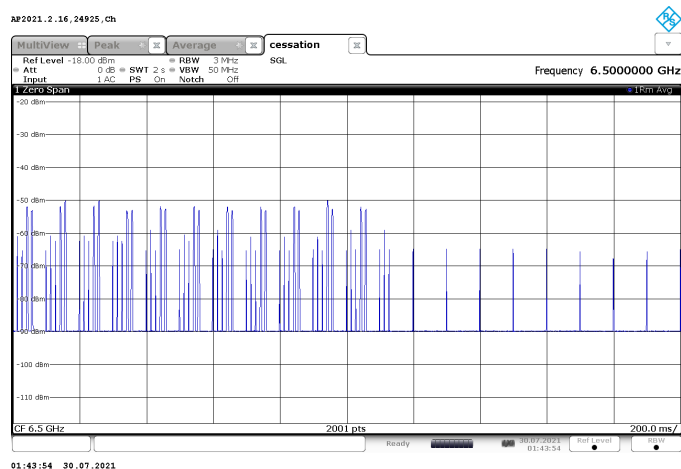
Case 2: Responder ends the UWB link



RESULT

- Responder ends the link, Initiator stops Acknowledgements but continues Polling.
 - Responder ceases transmissions, does not respond to Polling Signals.

Zoom-in Plot during On-Off Transition



RESULT

- Shows Link Traffic, Acknowledgements and Polling Signals while Link is established
- Shows Polling Signals after Link has ended

9.5 EMISSIONS BELOW 960 MHz

LIMITS

FCC

§15.519 (c) The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

15.209 (a)

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3

RSS-220

Section 3.4 Radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

Frequency (MHz)	Field Strength (Microvolts/m)	Measurement Distance (Metres)	E.i.r.p. (dBmW)
0.009-0.490	2,400/F (F in kHz)	300	$10 \log (17.28 / F^2)$ (F in kHz)
0.490-1.705	24,000/F (F in kHz)	30	$10 \log (17.28 / F^2)$ (F in kHz)
1.705-30	30	30	-45.7
30-88	100	3	-55.2
88-216	150	3	-51.7
216-960	200	3	-49.2

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average emissions detector.

TEST PROCEDURE

ANSI C63.10 Clause 10.2

RSS-220 Annex

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 3m from the EUT.

For below 30 MHz testing, investigation was done on three antenna orientations: RX antenna Face-on, Face-off and horizontal (parallel to ground). The worst-case configurations were determined on RX antenna Face-on and Face-off; therefore, all final tests were performed using these two orientations.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 meter open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

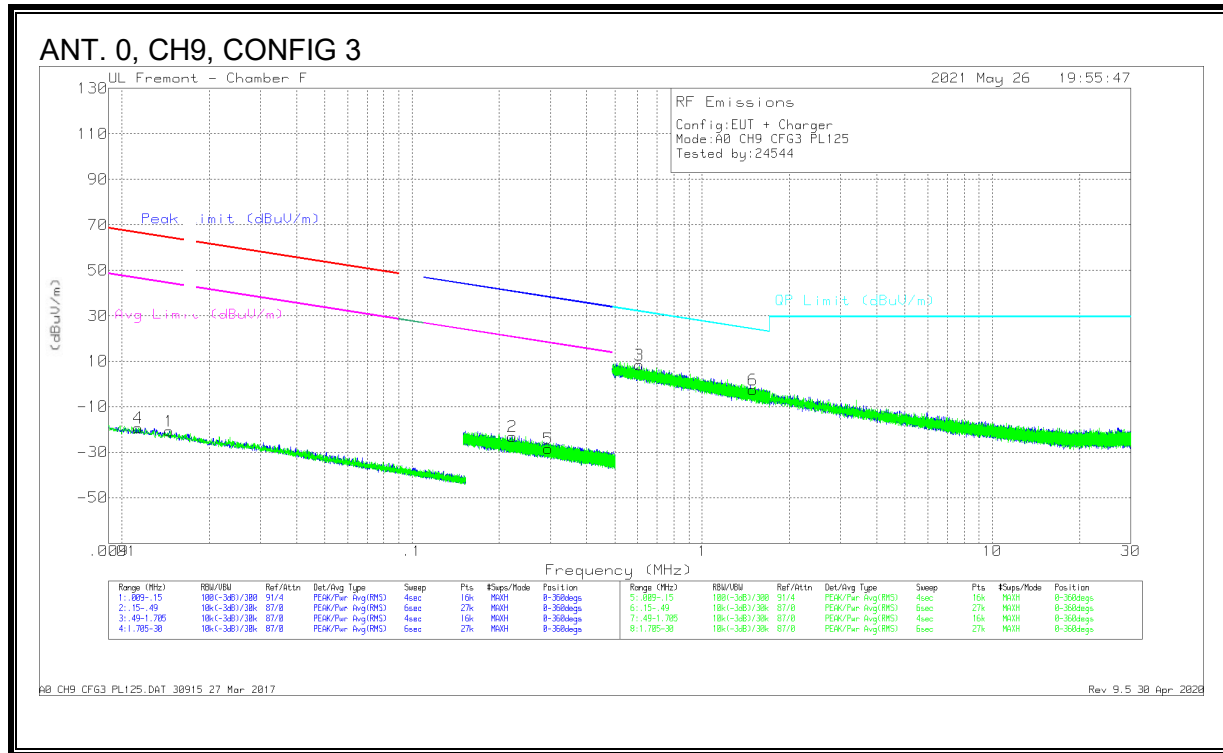
RESULTS

Employee IDs: 24544, 25246
Location: Chamber F
Test Date: 05/26/2021 – 06/15/2021

Emissions Summary

Ant	CH	Config	Payload	Power Setting	Frequency Range	
					9 kHz - 30 MHz	30 - 960 MHz
0	9	3	125	Max	PASS	PASS
1	9	3	125	Max	PASS	PASS
2	5	3	125	Max	PASS	PASS
2	9	3	125	Max	PASS	PASS
3	5	3	125	Max	PASS	PASS
3	9	3	125	Max	PASS	PASS

9.5.1 EMISSIONS, 9 kHz – 30 MHz



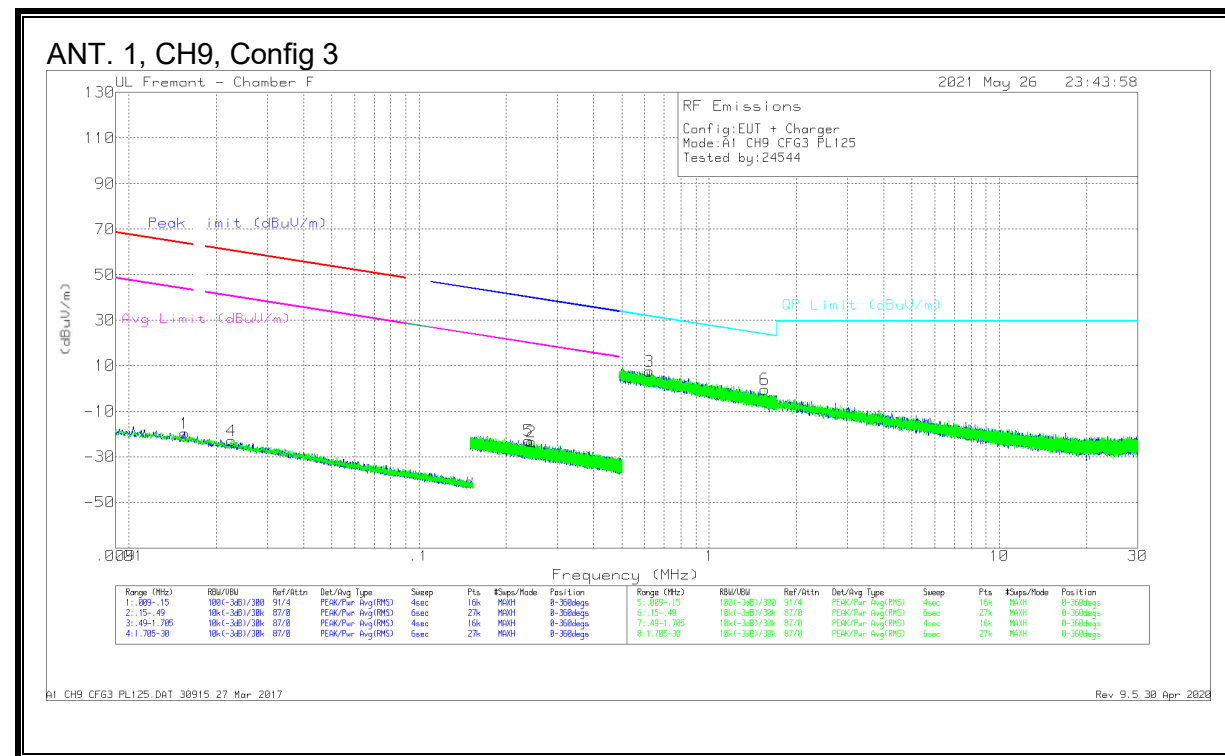
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01458	42.18	Pk	17.1	0	-80	-20.74	64.31	-85.05	44.31	-65.05	-	-	40.72	-63.83	0-360	On
2	.22134	45.69	Pk	11.1	.1	-80	-23.11	-	-	-	-	-	-	-	-	0-360	On
4	.01139	42.36	Pk	18.4	0	-80	-19.24	66.45	-85.69	46.45	-65.69	-	-	-	-	0-360	Off
5	.29417	40.52	Pk	11	.1	-80	-28.38	-	-	-	-	38.24	-66.62	18.24	-46.62	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.60871	37.42	Pk	10.8	.1	-40	8.32	31.92	-23.6	0-360	On
6	1.49746	26.58	Pk	10.8	.1	-40	-2.52	24.12	-26.64	0-360	Off

Pk - Peak detector



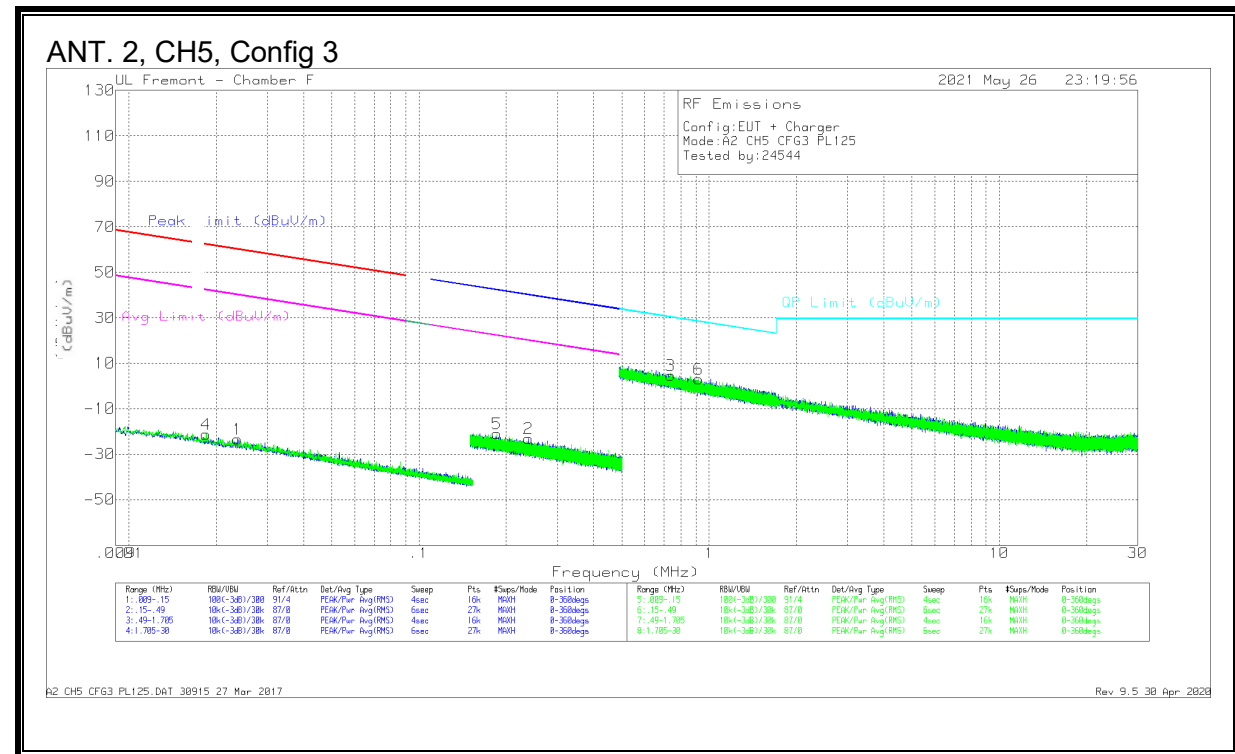
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01558	43.58	Pk	16.7	0	-80	-19.72	63.73	-83.45	43.73	-63.45	-	-	-	-	0-360	On
2	.2443	45.45	Pk	11	.1	-80	-23.45	-	-	39.86	-63.31	19.86	-43.31	0-360	On		
4	.02264	42.44	Pk	14.8	0	-80	-22.76	60.49	-83.25	40.49	-63.25	-	-	-	-	0-360	Off
5	.23847	46	Pk	11	.1	-80	-22.9	-	-	-	-	40.07	-62.97	20.07	-42.97	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.62095	36.7	Pk	10.8	.1	-40	7.6	31.75	-24.15	0-360	On
6	1.55476	28.81	Pk	10.8	.1	-40	-29	23.8	-24.09	0-360	Off

Pk - Peak detector



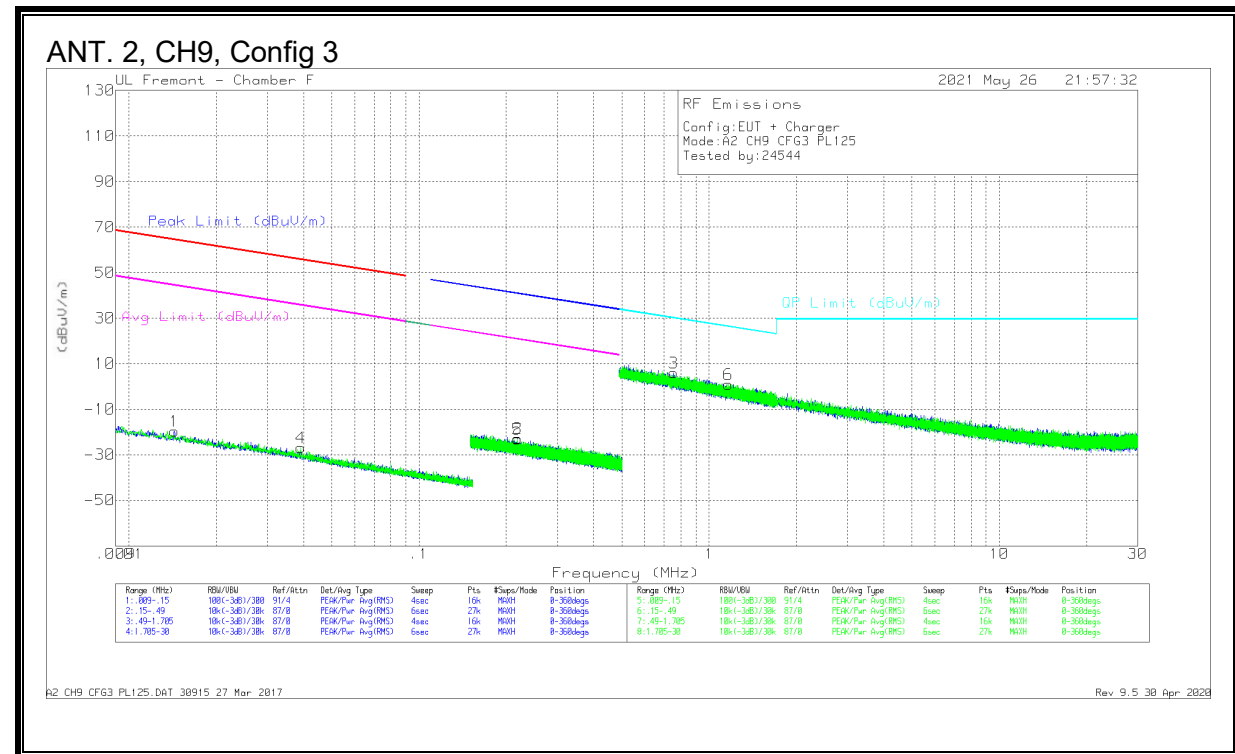
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.02374	41.89	Pk	14.7	0	-80	-23.41	60.07	-83.48	40.07	-63.48	-	-	40.08	-63.06	0-360	On
2	.23801	45.92	Pk	11.1	.1	-80	-22.38	-	-	42.26	-63.57	-	-	-	-	0-360	On
4	.01845	43.09	Pk	15.6	0	-80	-21.31	62.26	-83.57	42.26	-63.57	42.27	-63.13	22.27	-43.13	0-360	Off
5	.1852	47.94	Pk	11.1	.1	-80	-20.86	-	-	-	-	-	-	-	-	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.73738	33.68	Pk	10.8	.1	-40	4.58	30.26	-25.68	0-360	On
6	.9178	32.04	Pk	10.8	.1	-40	2.94	28.36	-25.42	0-360	Off

Pk - Peak detector



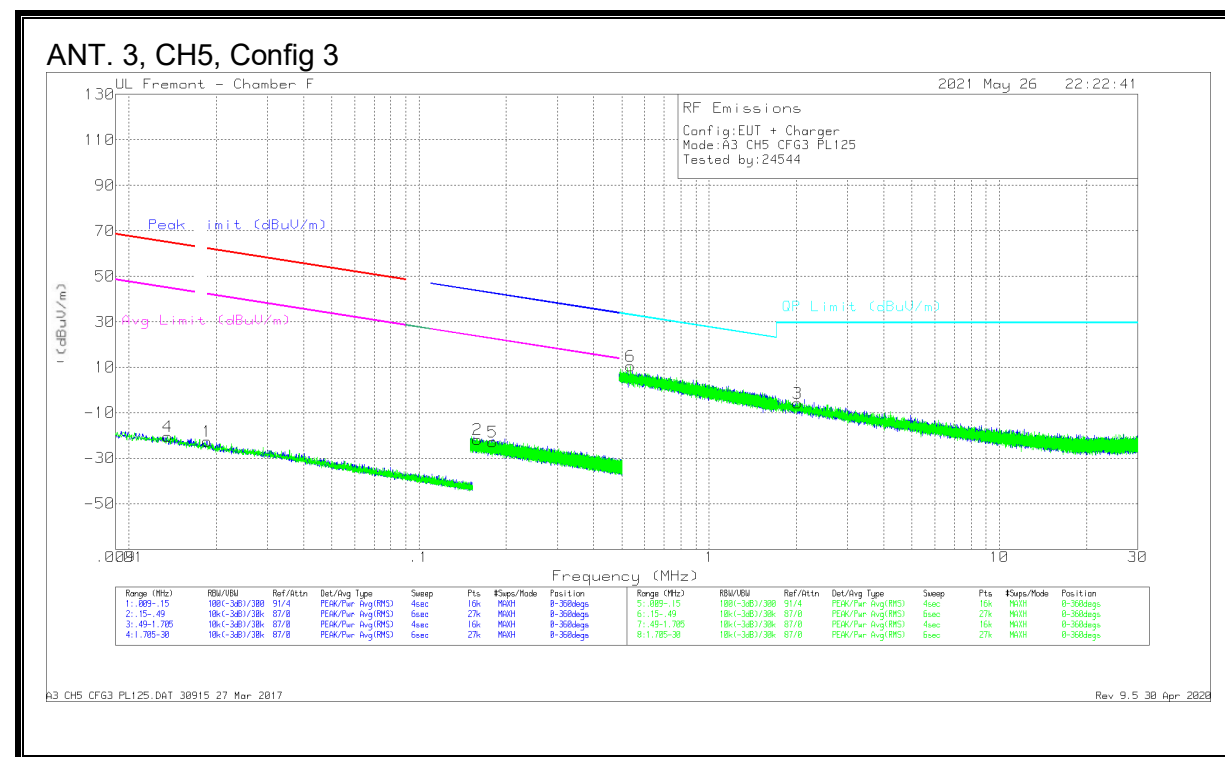
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01435	43.19	Pk	17.2	0	-80	-19.51	64.45	-84.06	44.45	-64.06	-	-	-	-	0-360	On
2	.2153	46.05	Pk	11.1	.1	-80	-22.75	-	-	-	40.84	-63.59	20.84	-43.59	-	0-360	On
4	.03907	39.91	Pk	13.3	0	-80	-26.79	55.75	-82.54	35.75	-62.54	-	-	-	-	0-360	Off
5	.21915	45.62	Pk	11.1	.1	-80	-23.18	-	-	-	-	40.8	-63.98	20.8	-43.98	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.75478	35.16	Pk	10.8	.1	-40	6.06	30.06	-24	0-360	On
6	1.16549	30.08	Pk	10.8	.1	-40	.98	26.29	-25.31	0-360	Off

Pk - Peak detector



Trace Markers

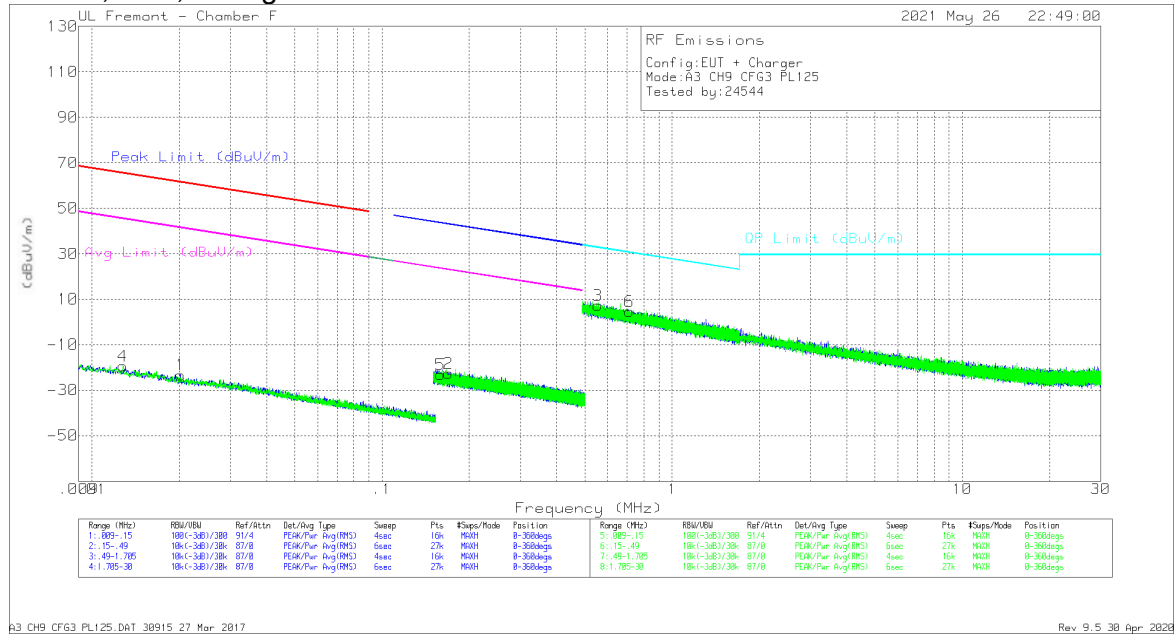
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.01859	41.94	Pk	15.6	0	-80	-22.46	62.2	-84.66	42.2	-64.66	-	-	-	-	0-360	On
2	.15892	46.82	Pk	11.2	.1	-80	-21.88	-	-	-	-	43.6	-65.48	23.6	-45.48	0-360	On
4	.01361	42.02	Pk	17.5	0	-80	-20.48	64.91	-85.39	44.91	-65.39	-	-	-	-	0-360	Off
5	.17973	45.85	Pk	11.1	.1	-80	-22.95	-	-	-	-	42.53	-65.48	22.53	-45.48	0-360	Off

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	2.01521	23.21	Pk	10.8	.2	-40	-5.79	29.5	-35.29	0-360	On
6	.53712	39.56	Pk	10.8	.1	-40	10.46	33	-22.54	0-360	Off

Pk - Peak detector

ANT. 3, CH9, Config 3



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 300m	Corrected Reading (dBuV)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.02018	41.77	Pk	15	0	-80	-23.23	61.49	-84.72	41.49	-64.72	-	-	-	-	0-360	On
2	.16925	46.07	Pk	11.2	.1	-80	-22.63	-	-	-	-	43.05	-65.68	23.05	-45.68	0-360	On
4	.01282	42.78	Pk	17.8	0	-80	-19.42	65.43	-84.85	45.43	-64.85	-	-	-	-	0-360	Off
5	.15922	45.72	Pk	11.2	.1	-80	-22.98	-	-	-	-	43.58	-66.56	23.58	-46.56	0-360	Off

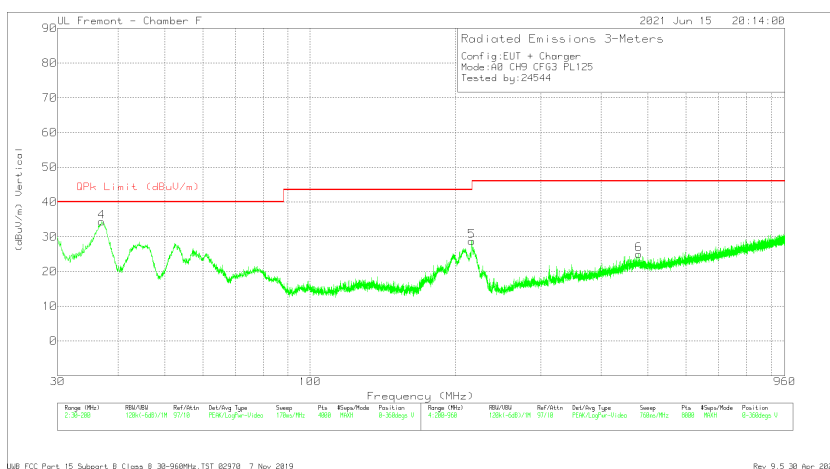
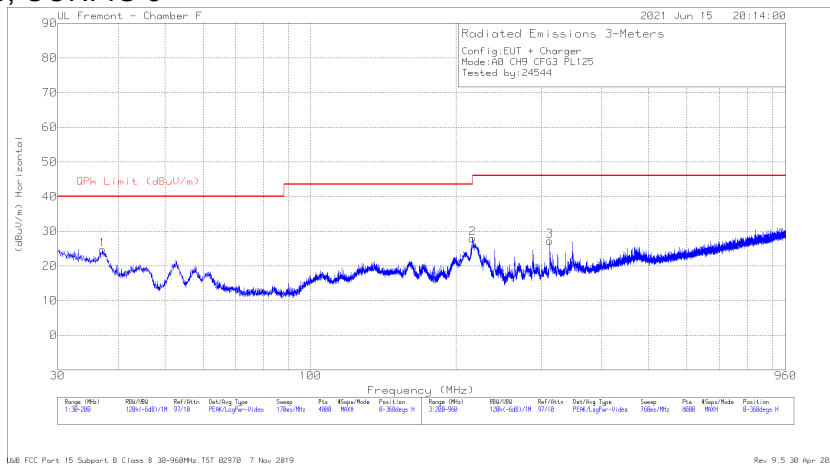
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuV)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
3	.55437	36.53	Pk	10.8	.1	-40	7.43	32.73	-25.3	0-360	On
6	.71344	33.87	Pk	10.8	.1	-40	4.77	30.55	-25.78	0-360	Off

Pk - Peak detector

9.5.2 EMISSIONS, 30 - 960 MHz

ANT. 0, CH9, CONFIG 3



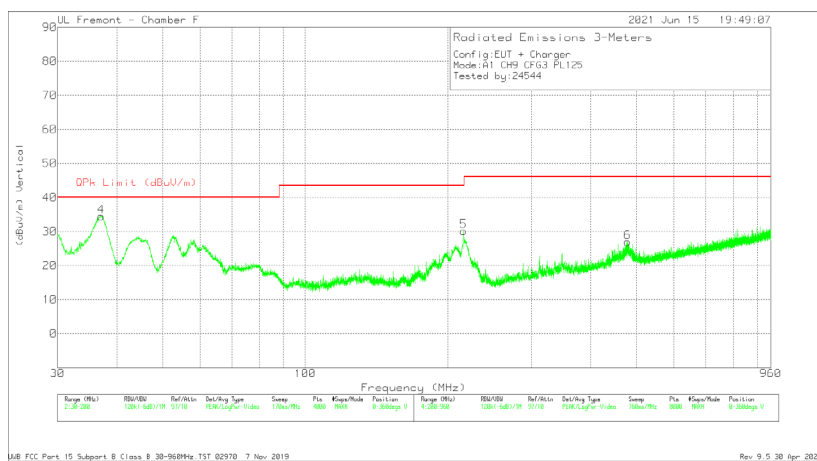
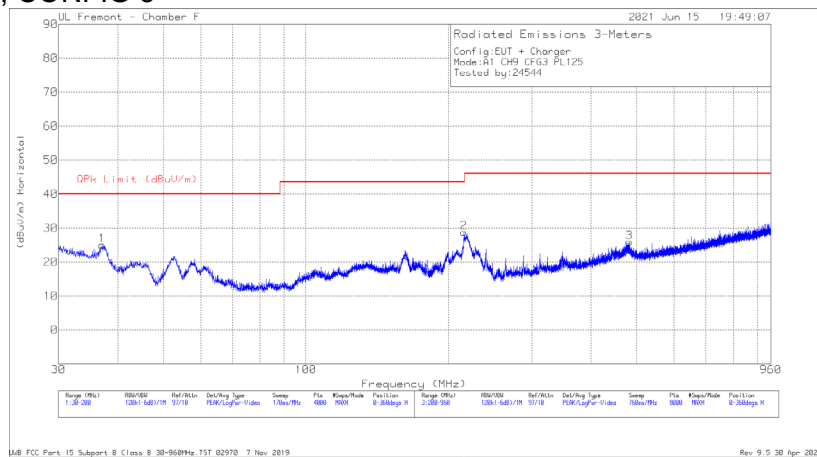
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.1844	33.52	Pk	23	-31.8	24.72	40	-15.28	0-360	399	H
4	37.0143	43.06	Pk	23.1	-31.8	34.36	40	-5.64	0-360	100	V
	37.2862	39.03	Qp	22.9	-31.8	30.13	40	-9.87	88	106	V
2	216.152	41.55	Pk	16.8	-30.4	27.95	46.02	-18.07	0-360	99	H
3	312.3992	37.25	Pk	19.8	-29.8	27.25	46.02	-18.77	0-360	99	H
5	215.962	42.36	Pk	16.8	-30.4	28.76	43.52	-14.76	0-360	99	V
6	479.0502	30.7	Pk	23.3	-29	25	46.02	-21.02	0-360	201	V

Pk - Peak detector

QP - Quasi-Peak detector

ANT. 1, CH9, CONFIG 3



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.0993	33.74	Pk	23	-31.8	24.94	40	-15.06	0-360	399	H
4	37.0993	43.23	Pk	23	-31.8	34.43	40	-5.57	0-360	100	V
	36.9201	39.3	Qp	23.2	-31.8	30.7	40	-9.3	272	108	V
2	215.867	42.33	Pk	16.8	-30.4	28.73	43.52	-14.79	0-360	99	H
3	482.1856	31.65	Pk	23.3	-29.1	25.85	46.02	-20.17	0-360	201	H
5	215.772	43.72	Pk	16.8	-30.4	30.12	43.52	-13.4	0-360	99	V
6	478.4802	32.65	Pk	23.3	-29	26.95	46.02	-19.07	0-360	99	V

Pk - Peak detector

QP - Quasi-Peak detector

UL Fremont - Chamber F

Radiated Emissions 3-Meters
 Config:EUT + Charger
 Mode:R2,DH5,CFG3,PL125
 Tested by:25246

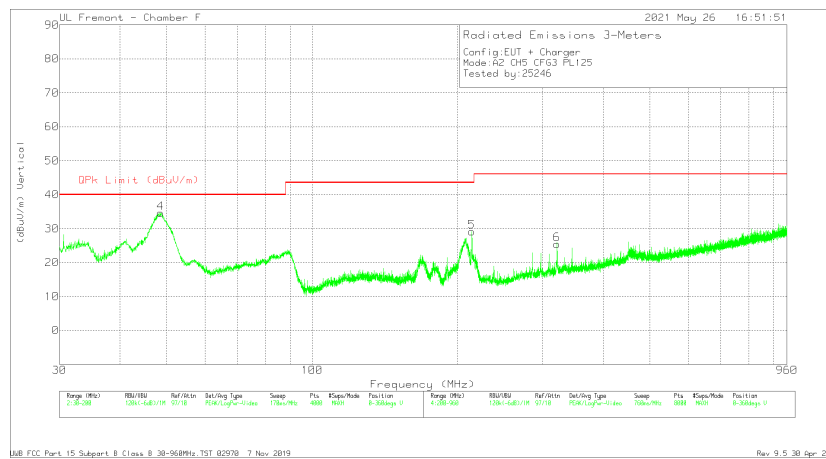
DPK Limit (dBμV/m)

Frequency (MHz)

Range (MHz)	RBW (Hz)	Ref (dBm)	Det (Avg)	Units	Sweep	File	Events/Rule	Pass Limit	Range (MHz)	RBW (Hz)	Ref (dBm)	Det (Avg)	Units	Sweep	File	Events/Rule	Pass Limit
1.0E-300	1200.0	-60.0	100	dBμV/m	1700.0	4000	None	30.0	1.0E-300	1200.0	-60.0	100	dBμV/m	1700.0	4000	None	30.0

UL# FCC Part 15 Subpart B Class B 30-56MHz TST 02970 7 Nov 2019

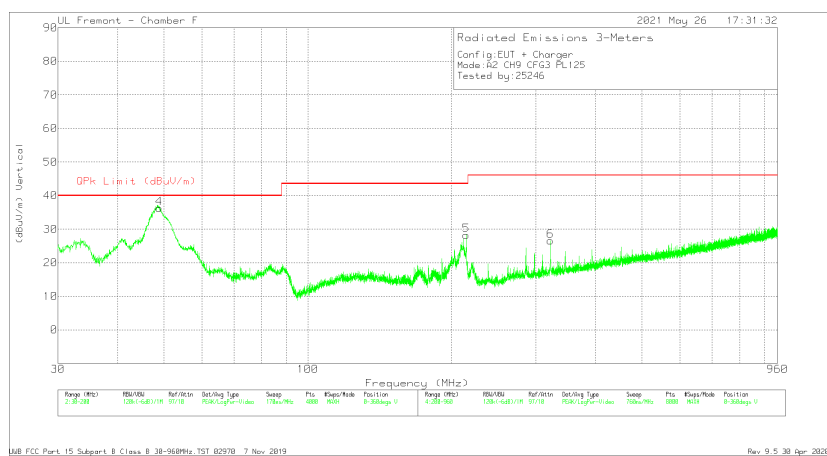
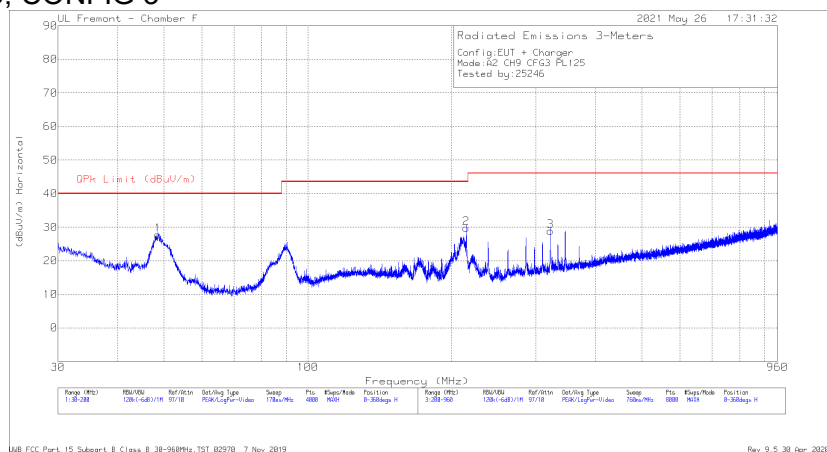
Rev: 9.5 30 Apr



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	90.9608	46.29	Pk	13.6	-31.3	28.59	43.52	-14.93	0-360	301	H
4	48.5773	51.58	Pk	14.7	-31.7	34.58	40	-5.42	0-360	100	V
	48.4723	48.88	Qp	14.8	-31.7	31.98	40	-8.02	86	138	V
2	213.9668	44.83	Pk	16.7	-30.4	31.13	43.52	-12.39	0-360	99	H
3	344.7983	36.79	Pk	20.4	-29.6	27.59	46.02	-18.43	0-360	99	H
5	213.9668	42.82	Pk	16.7	-30.4	29.12	43.52	-14.4	0-360	99	V
6	321.0453	35.11	Pk	20	-29.7	25.41	46.02	-20.61	0-360	99	V

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ANT. 2, CH9, CONFIG 3



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.5348	44.77	Pk	14.7	-31.7	27.77	40	-12.23	0-360	399	H
4	48.8324	53.37	Pk	14.6	-31.7	36.27	40	-3.73	0-360	100	V
	48.4124	49.85	Qp	14.8	-31.7	32.95	40	-7.05	76	107	V
2	214.4418	43.46	Pk	16.7	-30.4	29.76	43.52	-13.76	0-360	99	H
3	321.6154	38.63	Pk	20	-29.8	28.83	46.02	-17.19	0-360	99	H
5	214.3468	41.95	Pk	16.7	-30.4	28.25	43.52	-15.27	0-360	99	V
6	321.5203	36.38	Pk	20	-29.8	26.58	46.02	-19.44	0-360	99	V

Pk - Peak detector

Qp - Quasi-Peak detector

UL Fremont - Chamber F

2021 May 26 17:56:49

Radiated Emissions 3-Meters

Config: EUT + Charger

Mode: A3 CNE OF33 R125

Tested by: 25246

OPhk Limit (dBu/m)

1

2

3

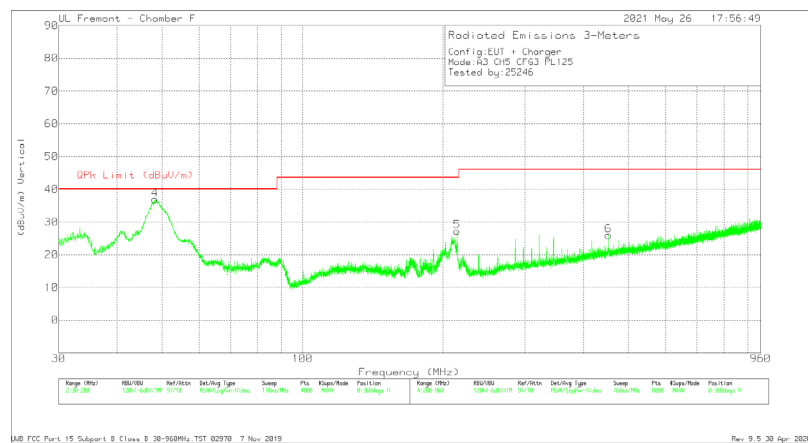
Frequency (MHz)

Range (MHz) 30-100 Res/Hz 1280 Res/100 10176 Swept 1000Hz Pks 4000 Emissions 8 Steps 4

Range (MHz) 100-960 Res/Hz 1280 Res/100 10176 Swept 1000Hz Pks 4000 Emissions 8 Steps 4

LAB FCC Part 15 Subpart B Class B 30-960MHz, 157.02970 7 Nov 2019

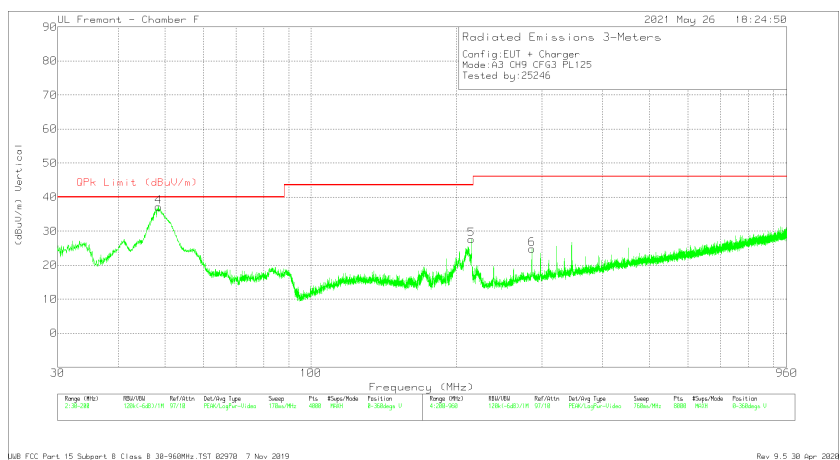
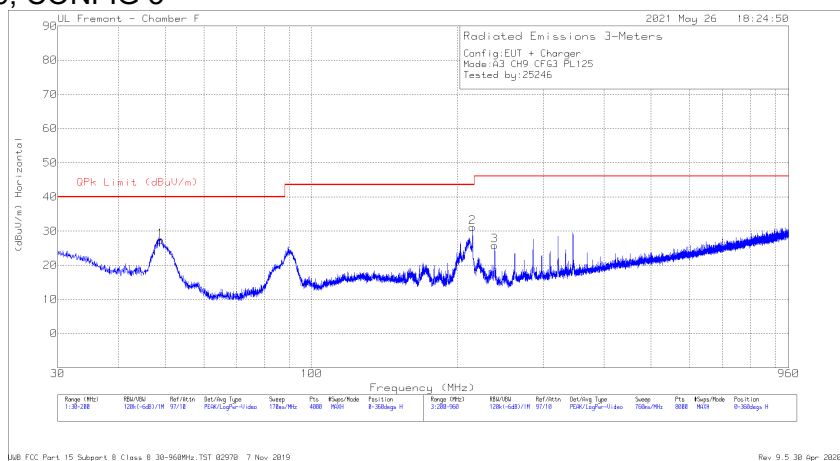
Rev: 9.5 30 Apr 2020



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.2797	44.89	Pk	14.9	-31.7	28.09	40	-11.91	0-360	399	H
4	48.2797	53.7	Pk	14.9	-31.7	36.9	40	-3.1	0-360	100	V
	48.4297	49.94	Qp	14.8	-31.7	33.04	40	-6.96	82	106	V
2	214.3468	44.79	Pk	16.7	-30.4	31.09	43.52	-12.43	0-360	99	H
3	345.4634	38.15	Pk	20.4	-29.6	28.95	46.02	-17.07	0-360	99	H
5	214.3468	40.9	Pk	16.7	-30.4	27.2	43.52	-16.32	0-360	99	V
6	452.5419	32.5	Pk	22.5	-29.1	25.9	46.02	-20.12	0-360	99	V

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ANT. 3, CH9, CONFIG 3



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	48.8749	44.48	Pk	14.6	-31.7	27.38	40	-12.62	0-360	399	H
4	48.4498	54.08	Pk	14.8	-31.7	37.18	40	-2.82	0-360	100	V
	48.4348	49.93	Qp	14.8	-31.7	33.03	40	-6.97	70	105	V
2	214.4418	44.81	Pk	16.7	-30.4	31.11	43.52	-12.41	0-360	99	H
3	238.1948	38.46	Pk	17.5	-30.2	25.76	46.02	-20.26	0-360	99	H
5	214.4418	41.27	Pk	16.7	-30.4	27.57	43.52	-15.95	0-360	99	V
6	285.8908	35.52	Pk	19.3	-30	24.82	46.02	-21.2	0-360	201	V

Pk - Peak detector

QP - Quasi-Peak detector

9.6 AVERAGE EMISSIONS ABOVE 960 MHz

LIMITS

FCC

15.519 (c)

Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

§15.519 (d) In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

RSS-220

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Hand-held (Outdoor) Communication, Measurement, Location Sensing, and Tracking Devices	
Frequency	E.i.r.p. in a Resolution Bandwidth of 1 MHz
960-1 610 MHz	-75.3 dBm
1.61-4.75 GHz	-70.0 dBm
4.75-10.6 GHz	-41.3 dBm
Above 10.6 GHz	-61.3 dBm

Section 5.3.1 (e) In addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Frequency	E.i.r.p. in a Resolution Bandwidth of no less than 1 kHz
1 164-1 240 MHz	-85.3 dBm
1 559-1 610 MHz	-85.3 dBm

TEST PROCEDURE

ANSI C63.10 Clause 10.3.

RSS-220 Annex

Exploratory measurements for all frequency ranges are performed with the measurement antenna at close distances to the EUT as described in ANSI C63.10 6.6.4.2. Where emissions are observed the measurement antenna is then positioned at a height of 1.5m and a distance of 0.5m from the EUT and final measurements are made at the frequencies observed in the exploratory scans using the alternative measurement procedures detailed in ANSI C63.10 section 6.6.5. If no emissions are observed, a plot is made at a test distance of 0.5m from the EUT to show the measurement system noise floor.

PROCEDURE FOR 0.96 TO 6 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 0.96 - 6 GHz.

RESULTS FOR 6 GHz TO 9 GHz

The 6 - 9 GHz frequency band is covered in Section 9.3.

PROCEDURE FOR 9 GHz TO 18 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A high pass filter with pass band frequency beyond 9 GHz is used to suppress the fundamental and perform measurement for 9 - 18 GHz.

PROCEDURE FOR 1.164 TO 1.240 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 360 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 1.164 – 1.240 GHz.

PROCEDURE FOR 1.559 TO 1.610 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

RBW = 120 kHz & VBW = 360 kHz were used at pre-scan.

A low pass filter with a cut off frequency of 6 GHz is used to suppress the fundamental and perform measurement for 1.559 – 1.610 GHz.

PROCEDURE FOR 18 GHz TO 40 GHz

Measurements are made with the antenna feeding a spectrum analyzer via a preamplifier and cables, at a maximum distance of 0.5m from the EUT.

A final test is made at any frequencies at which emissions are found. During this final scan, the antenna is kept no further from the EUT than the maximum distance calculated for each band that yields a minimum system noise floor.

Distance Correction Factor from 3m to 0.5m = $20 \cdot \log(0.5\text{m}/3\text{m}) = -15.56 \text{ dB}$

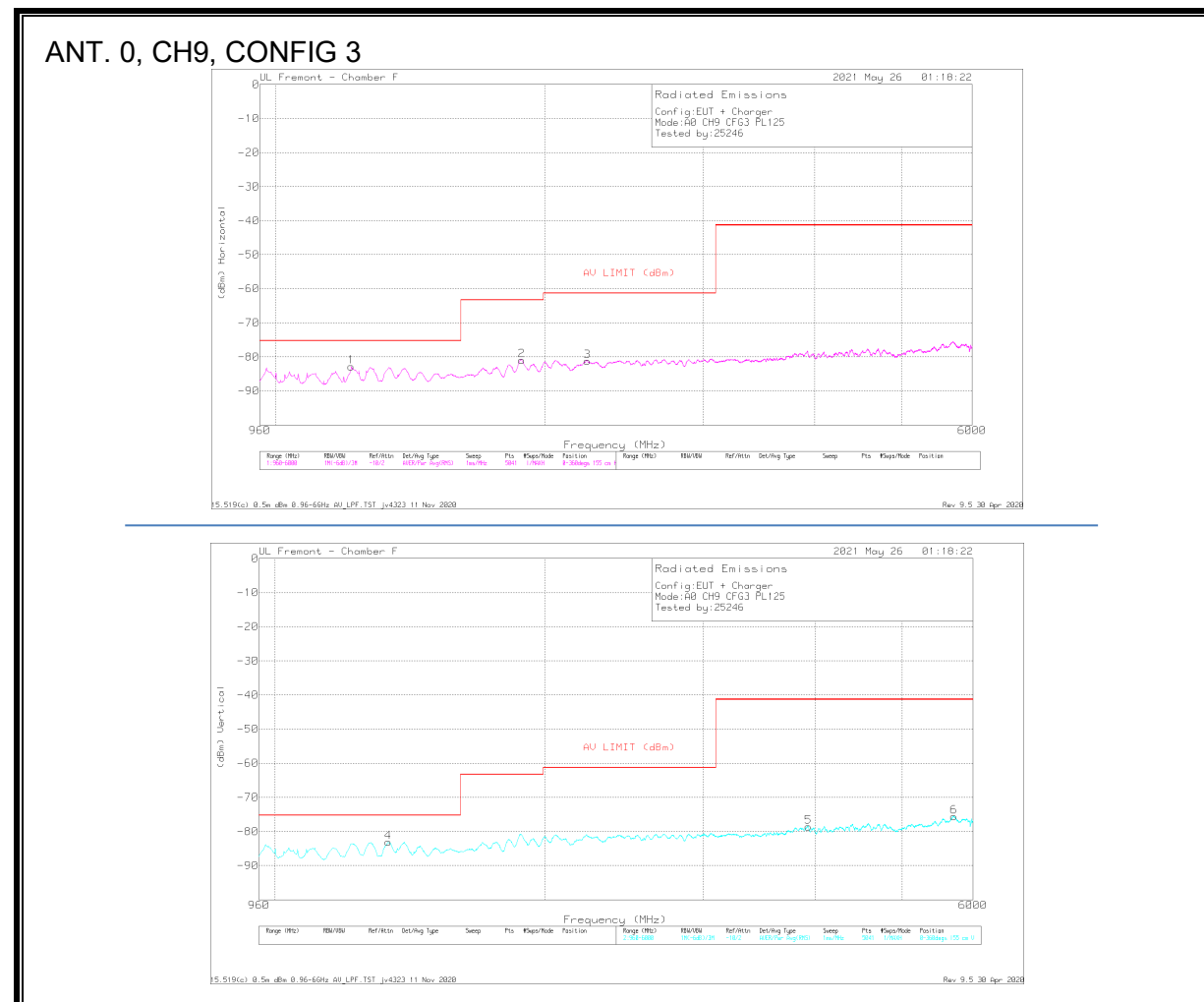
RESULTS

Employee IDs: 24839, 25207, 25246
Location: Chamber F
Test Date: 05/25/2021 – 06/28/2021

Average Emissions Summary

9.6.1 AVERAGE EMISSIONS, 0.96 – 6 GHz

9.6.1.1 FCC15.519 (C)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1215	-62.41	RMS	28.4	-45.2	-15.6	11.8	2	-82.81	-75.3	-7.51	154	155	H
2	1883	-63.04	RMS	30.6	-45	-15.6	11.8	3	-80.34	-63.3	-17.64	154	155	H
3	2229	-64.05	RMS	31.6	-45.3	-15.6	11.8	3	-81.25	-61.3	-19.95	264	155	H
4	1338	-63.24	RMS	29.1	-45.3	-15.6	11.8	1	-83.14	-75.3	-7.84	141	155	V
5	3932	-66.84	RMS	33.7	-42.2	-15.6	11.8	5	-78.64	-41.3	-37.34	360	155	V
6	5713	-67.27	RMS	34.9	-41.5	-15.6	11.8	2	-75.67	-41.3	-34.37	250	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

UL Fremont - Chamber F

2021 May 26 02:45:33

Radiated Emissions
Config: EUT + Charger
Mode: A1: CH1 F163 PL125
Tested by: 25246

dBm/Hz

AV LIMIT (dBm)

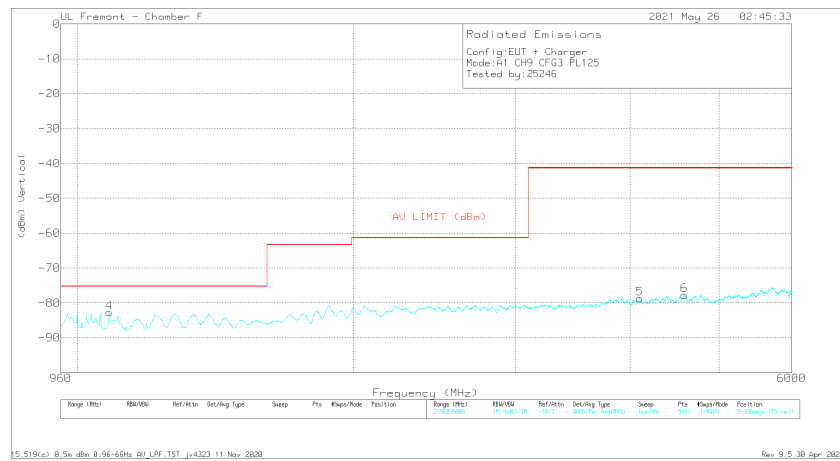
1 2 3

Frequency (MHz)

Range (MHz)	RBW/Video	Ref/Att'n	Det/Link Type	Sweep	Pts	Waveform	Position	Range (MHz)	RBW/Video	Ref/Att'n	Det/Link Type	Sweep	Pts	Waveform	Position
1.500-6000	100-40000/1.2K	-100.0	AV20/100k Avg/Freq	Max/Min	2561	1000Hz	0.5000000 175.00								

55.519(c) 0.5m.dBm 0.96-600Hz AU LPF TST jv4323 11 Nov. 2020

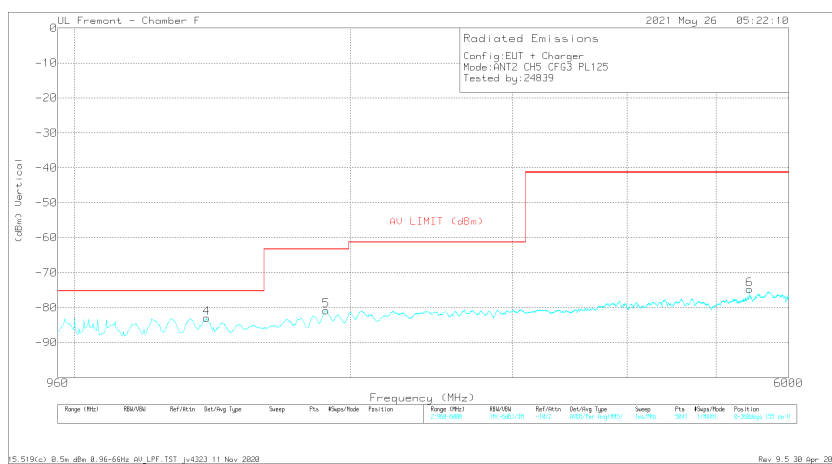
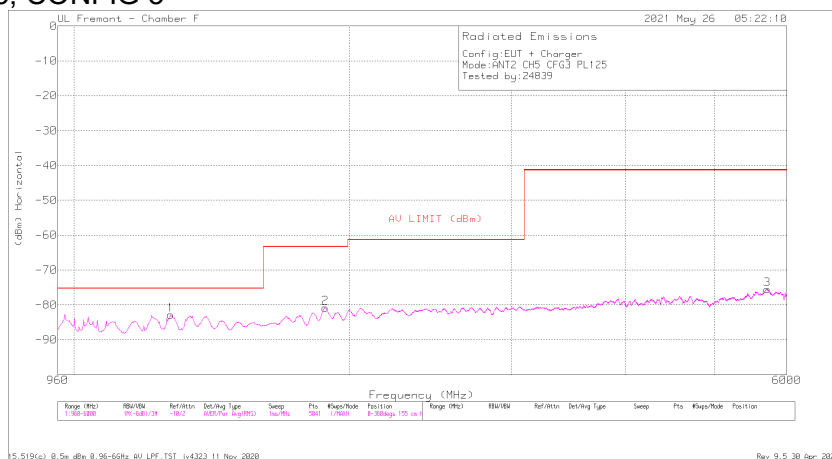
Rev: 9.5_30 Apr. 2020



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/CB1 (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	ERP (dBm)	FC15.519(c) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1883	-63.05	RMS	30.6	-45	-15.6	11.8	.3	-80.95	-63.3	-17.65	242	155	H
2	3929	-66.6	RMS	33.7	-42.2	-15.6	11.8	.5	-78.4	-41.3	-37.1	110	155	H
3	5713	-67.42	RMS	33.9	-41.9	-15.6	11.8	.5	-75.82	-41.3	-34.52	330	155	H
4	1084	-61.08	RMS	27.4	-45.4	-15.6	11.8	.2	-82.68	-75.3	-7.39	185	155	V
5	4098	-66.42	RMS	33.8	-42.9	-15.6	11.8	.6	-78.72	-41.3	-37.42	295	155	V
6	4585	-64.79	RMS	34.1	-43.7	-15.6	11.8	.5	-77.69	-41.3	-36.39	317	155	V

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



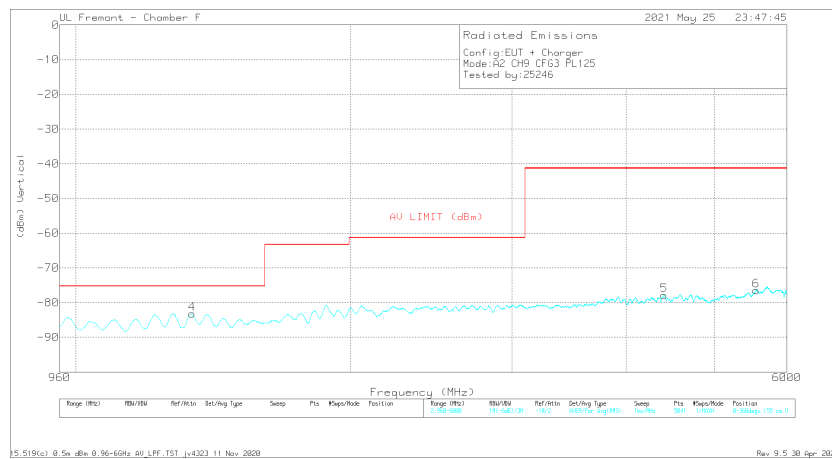
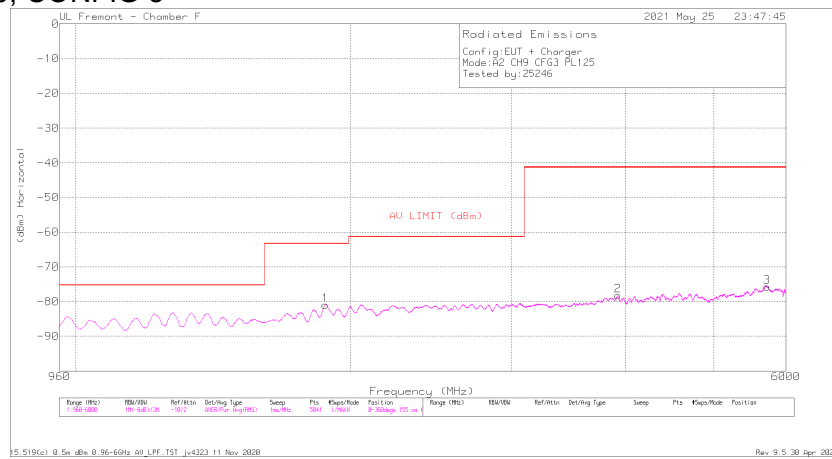
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFP (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1275	-63	RMS	29	-45.3	-15.6	11.8	2	-82.9	-75.3	-7.6	198	155	H
2	1881	-62.89	RMS	30.6	-45	-15.6	11.8	3	-80.79	-63.3	-17.49	330	155	H
3	5710	-67.04	RMS	34.9	-41.5	-15.6	11.8	2	-75.44	-41.3	-34.14	307	155	H
4	1394	-62.86	RMS	28.7	-45.2	-15.6	11.8	2	-82.96	-75.3	-7.66	185	155	V
5	1882	-62.89	RMS	30.6	-45	-15.6	11.8	3	-80.79	-63.3	-17.49	273	155	V
6	5440	-65.78	RMS	34.6	-41.8	-15.6	11.8	2	-74.78	-41.3	-33.48	31	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



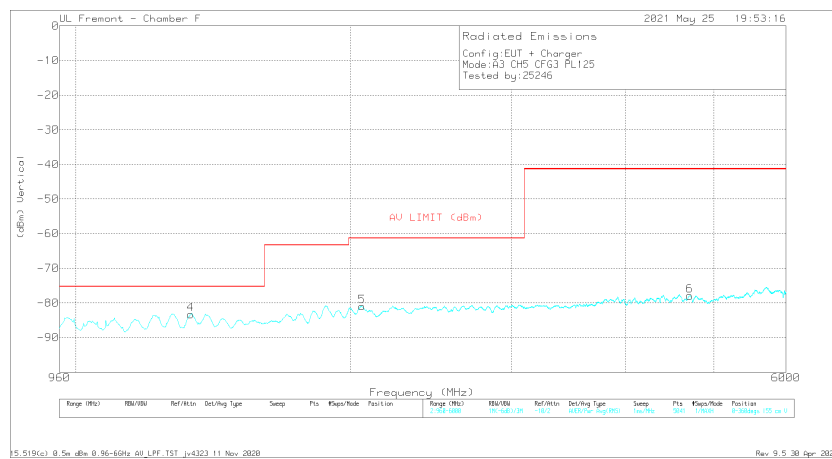
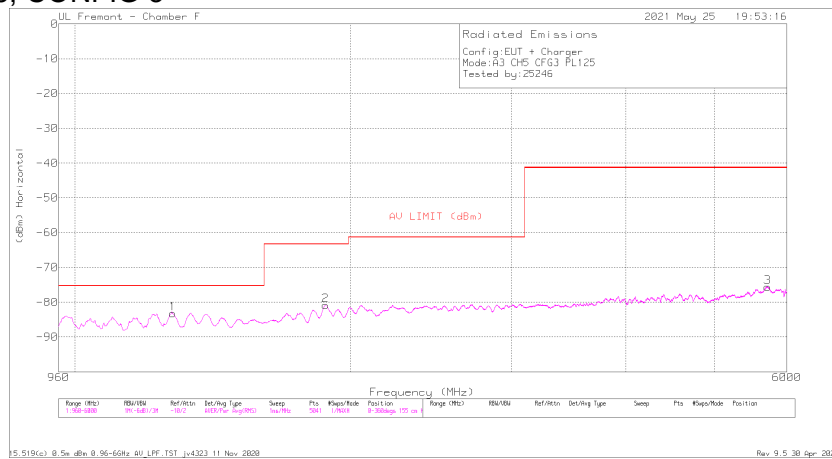
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1877	-63.22	RMS	30.8	-45	-15.6	11.8	.3	-80.92	-63.3	-17.62	132	155	H
2	3928	-66.37	RMS	33.7	-42.3	-15.6	11.8	.5	-78.27	-41.3	-36.97	110	155	H
3	5719	-67.34	RMS	35	-41.6	-15.6	11.8	.2	-75.74	-41.3	-34.44	88	155	H
4	1341	-63.43	RMS	29.1	-45.2	-15.6	11.8	.1	-83.23	-75.3	-7.93	75	155	V
5	4405	-64.72	RMS	33.8	-43.6	-15.6	11.8	.5	-77.82	-41.3	-36.52	360	155	V
6	5553	-67.4	RMS	34.8	-42.1	-15.6	11.8	.2	-76.5	-41.3	-35.2	360	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



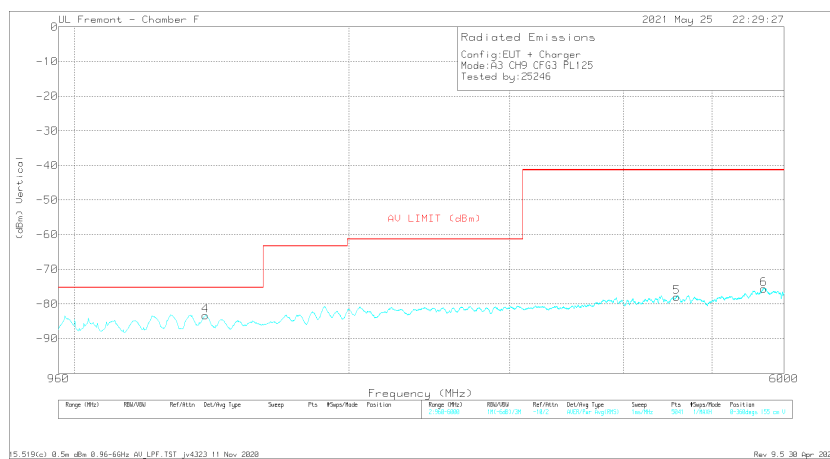
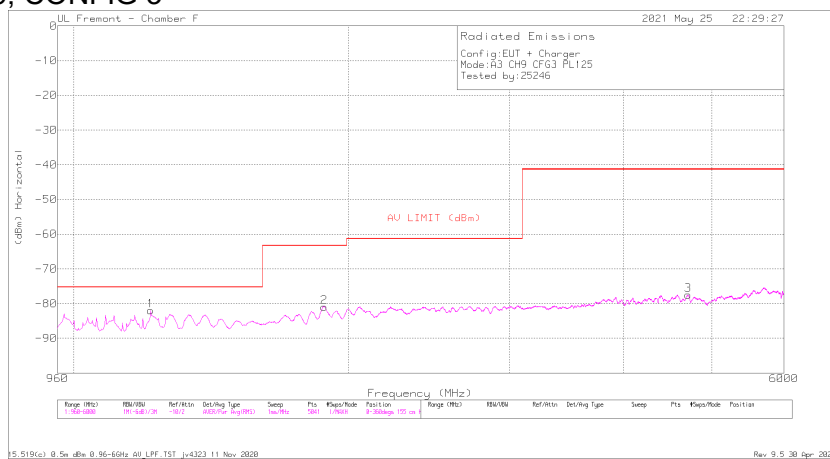
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1279	-63.31	RMS	29.1	-45.4	-15.6	11.8	.2	-83.21	-75.3	-7.91	176	155	H
2	1880	-63	RMS	30.6	-45	-15.6	11.8	.3	-80.9	-63.3	-17.6	44	155	H
3	5716	-67.23	RMS	35	-41.6	-15.6	11.8	.2	-75.63	-41.3	-34.33	308	155	H
4	1337	-63.28	RMS	29	-45.3	-15.6	11.8	.1	-83.28	-75.3	-7.98	119	155	V
5	2060	-63.38	RMS	31.3	-45.4	-15.6	11.8	.3	-80.98	-61.3	-19.68	31	155	V
6	4707	-65.02	RMS	34.1	-43.7	-15.6	11.8	.5	-77.92	-41.3	-36.62	251	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



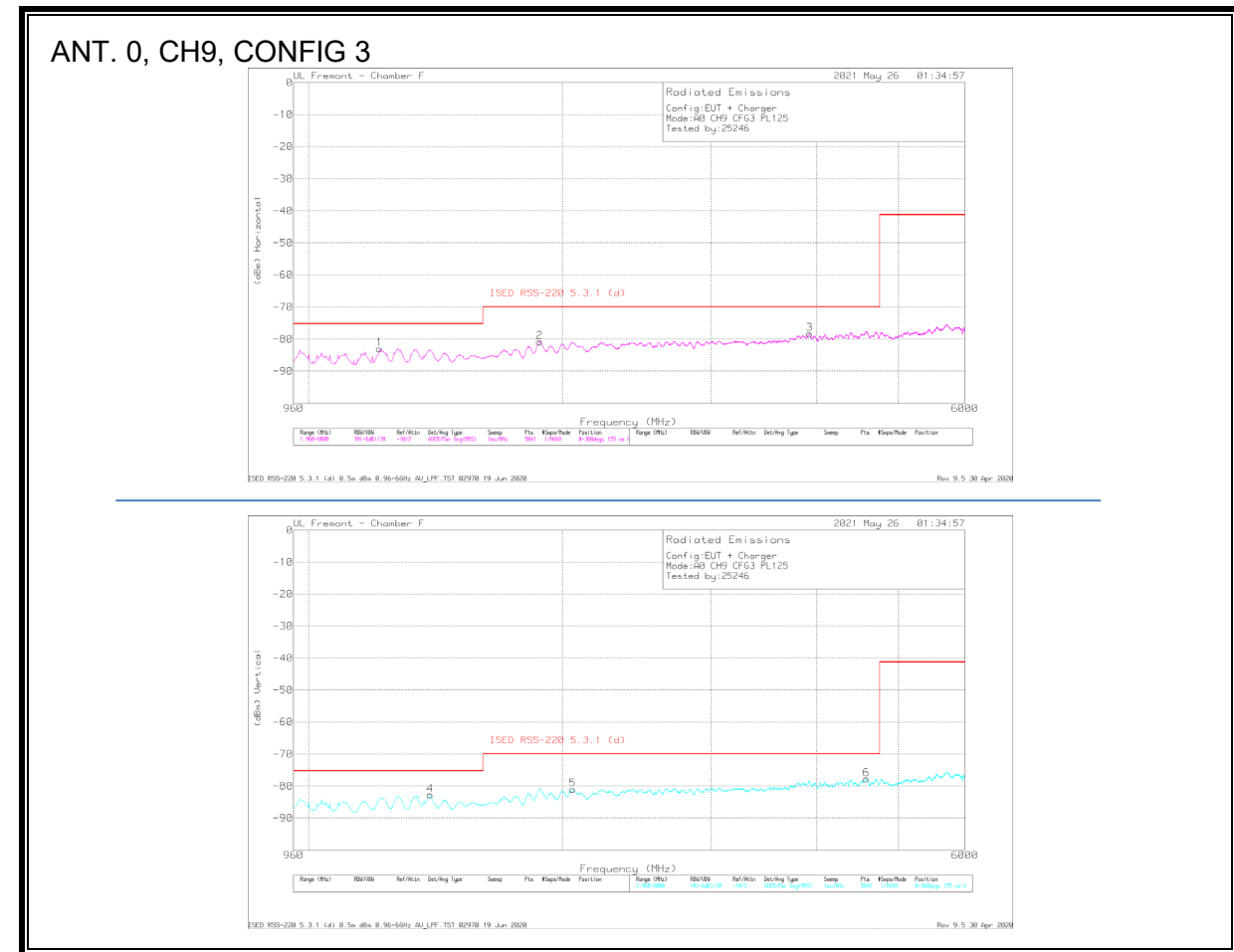
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1215	-61.6	RMS	28.4	-45.2	-15.6	11.8	2	-82	-75.3	-6.7	176	155	H
2	1881	-63.02	RMS	30.6	-45	-15.6	11.8	3	-80.92	-63.3	-17.62	154	155	H
3	4710	-64.57	RMS	34.1	-43.7	-15.6	11.8	5	-77.47	-41.3	-36.17	176	155	H
4	1392	-63.27	RMS	28.7	-45.2	-15.6	11.8	2	-83.37	-75.3	-8.07	119	155	V
5	4575	-64.87	RMS	34.2	-44	-15.6	11.8	5	-77.97	-41.3	-36.67	97	155	V
6	5700	-67.15	RMS	35	-41.7	-15.6	11.8	2	-75.65	-41.3	-34.35	31	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

9.6.1.2 RSS-220 5.3.1 (d)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISSED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1215	-62.53	RMS	28.4	-45.2	-15.6	11.8	2	-82.93	-75.3	-7.63	176	155	H
2	1879	-63.01	RMS	30.7	-45	-15.6	11.8	3	-80.81	-70	-10.81	176	155	H
3	3928	-66.5	RMS	33.7	-42.3	-15.6	11.8	5	-78.4	-70	-8.4	22	155	H
4	1395	-62.6	RMS	28.7	-45.2	-15.6	11.8	2	-82.7	-75.3	-7.4	163	155	V
5	2057	-63.42	RMS	31.3	-45.4	-15.6	11.8	3	-81.02	-70	-11.02	119	155	V
6	4585	-64.89	RMS	34.1	-43.7	-15.6	11.8	5	-77.79	-70	-7.79	141	155	V

RMS - RMS detection

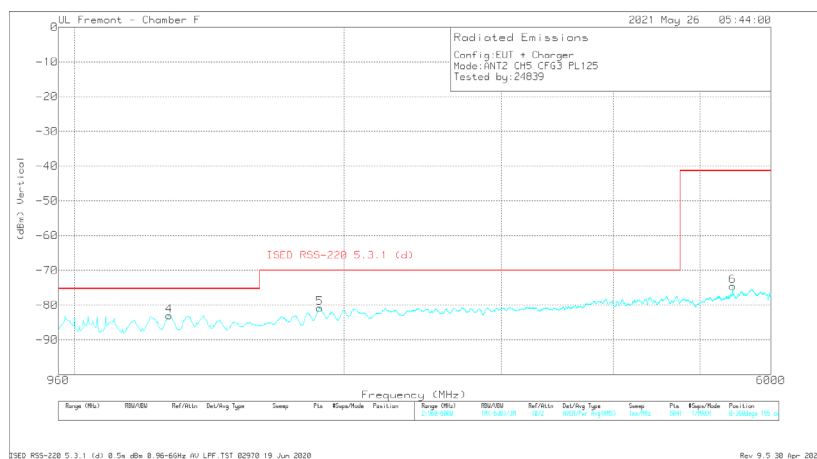
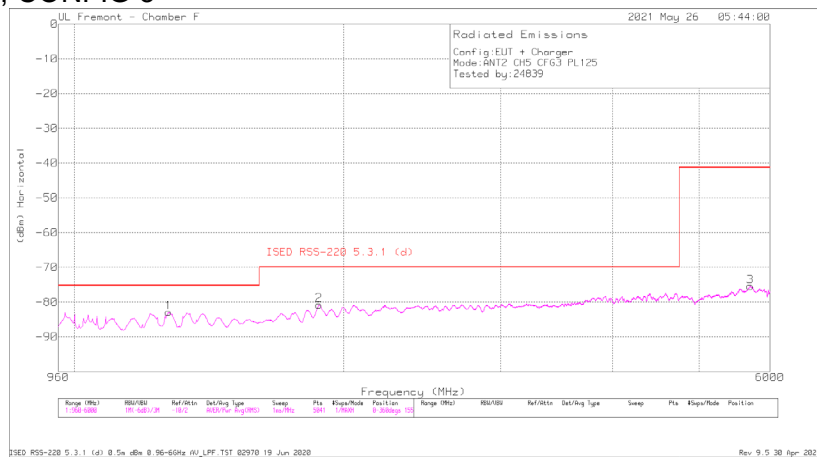
*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.



Marker	Frequency (MHz)	Meter Reading (mV)	Det	AF (dBm)	Amp/Cb (dB)	Dist Correction (dB)	Conversion Factor (dB)	16896 LFF (dB)	Corrected Reading (dBm)	ISED RSS-320 5.3.1 (dB)	Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	1880	-62.34	RMS	30.6	-45	-15.6	11.8	3	-80.84	-70	-10.84	308	155	H
2	4591	-64.98	RMS	34.2	-43.8	-15.6	11.8	2	-77.84	-70	-7.88	30	155	H
3	5712	-67.33	RMS	34.9	-41.5	-15.6	11.8	2	-75.73	-41.3	-34.43	219	155	H
4	1080	-60.49	RMS	26.8	-45.4	-15.6	11.8	2	-82.69	-75.3	-7.39	185	155	V
5	2056	-63.27	RMS	31.3	-45.4	-15.6	11.8	3	-80.87	-70	-10.87	141	155	V
6	4408	-65.02	RMS	33.8	-43.7	-15.6	11.8	5	-78.22	-70	-8.22	119	155	V

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



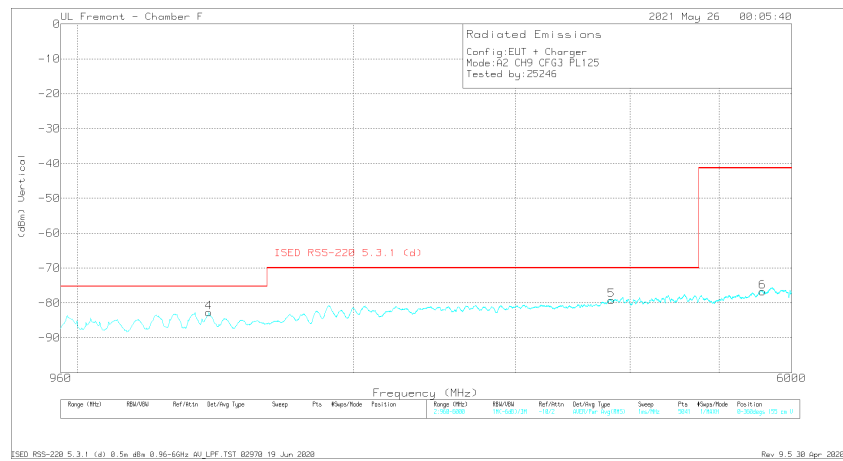
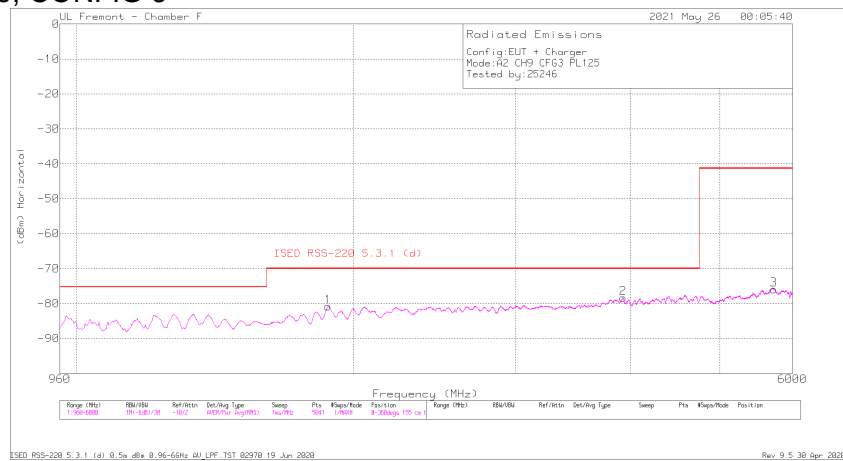
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISSED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1275	-63.02	RMS	29	-45.3	-15.6	11.8	2	-82.92	-75.3	-7.62	198	155	H
2	1878	-63.02	RMS	30.7	-45	-15.6	11.8	3	-80.82	-70	-10.82	65	155	H
3	5703	-66.96	RMS	35	-41.7	-15.6	11.8	2	-75.46	-41.3	-34.16	308	155	H
4	1276	-63.25	RMS	29.1	-45.3	-15.6	11.8	2	-83.05	-75.3	-7.75	229	155	V
5	1880	-62.92	RMS	30.6	-45	-15.6	11.8	3	-80.82	-70	-10.82	185	155	V
6	5440	-65.54	RMS	34.6	-41.8	-15.6	11.8	2	-74.54	-41.3	-33.24	53	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



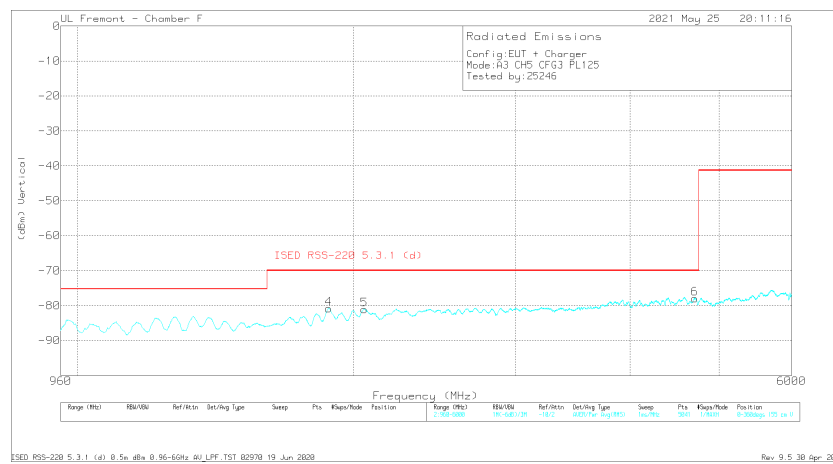
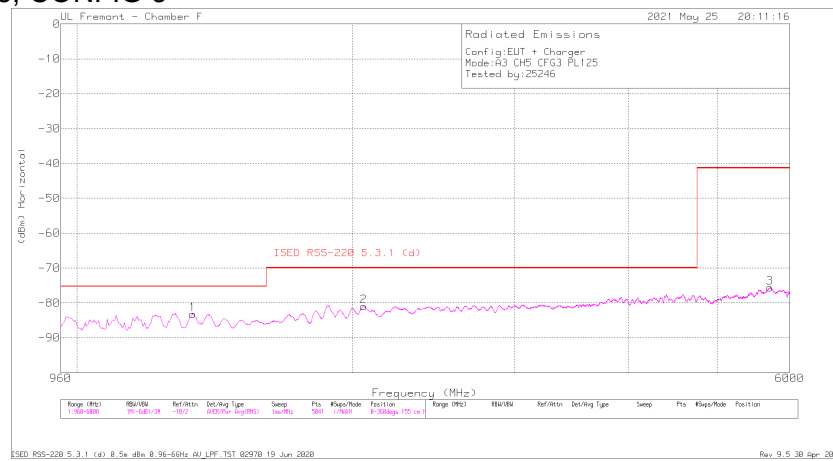
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISSED RSS-228 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1877	-63.12	RMS	30.8	-45	-15.6	11.8	3	-80.82	-70	-10.82	1	155	H
2	3928	-66.41	RMS	33.7	-42.3	-15.6	11.8	5	-78.31	-70	-8.31	198	155	H
3	5725	-67.33	RMS	34.9	-41.7	-15.6	11.8	2	-76.93	-41.3	-34.63	131	155	H
4	1392	-62.65	RMS	28.7	-45.2	-15.6	11.8	2	-82.75	-75.3	-7.45	185	155	V
5	3818	-66.2	RMS	33.7	-43.3	-15.6	11.8	4	-79.2	-70	-9.2	360	155	V
6	5578	-67.84	RMS	34.8	-41.9	-15.6	11.8	2	-76.74	-41.3	-35.44	273	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



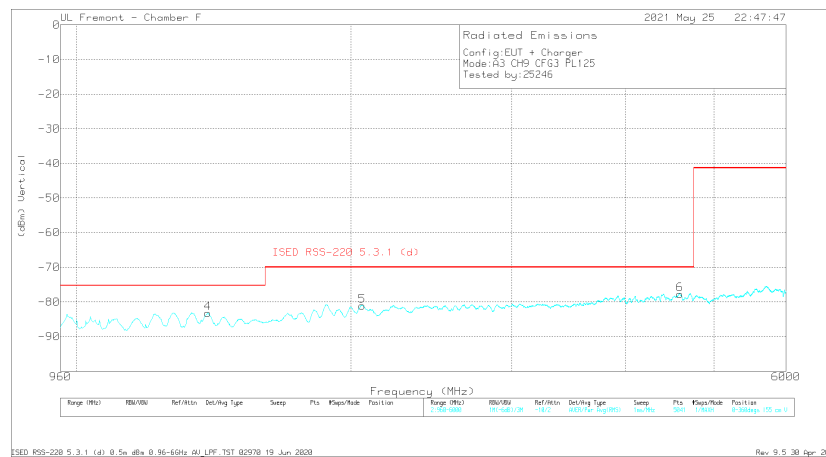
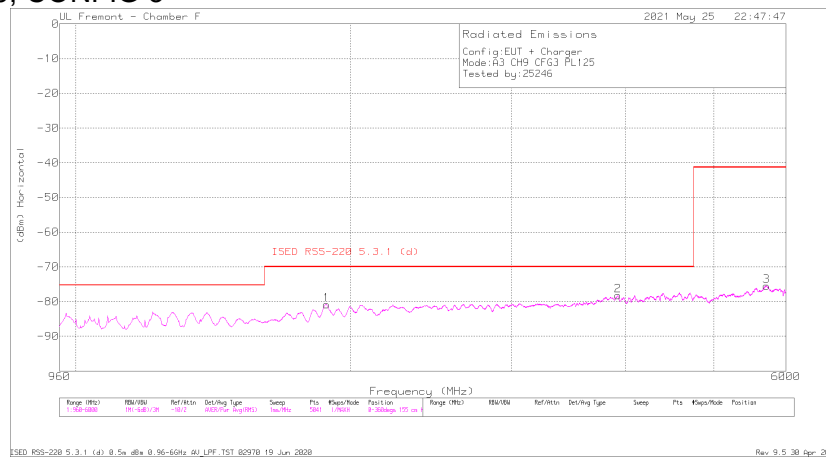
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-228 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1338	-63.37	RMS	29.1	-45.3	-15.6	11.8	.1	-83.27	-75.3	-7.97	154	155	H
2	2057	-63.43	RMS	31.3	-45.4	-15.6	11.8	.3	-81.03	-70	-11.03	308	155	H
3	5709	-67.16	RMS	34.9	-41.5	-15.6	11.8	.2	-75.56	-41.3	-34.26	1	155	H
4	1879	-63.02	RMS	30.7	-45	-15.6	11.8	.3	-80.82	-70	-10.82	229	155	V
5	2055	-63.45	RMS	31.3	-45.4	-15.6	11.8	.3	-81.05	-70	-11.05	207	155	V
6	4707	-65.14	RMS	34.1	-43.7	-15.6	11.8	.5	-78.04	-70	-8.04	360	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



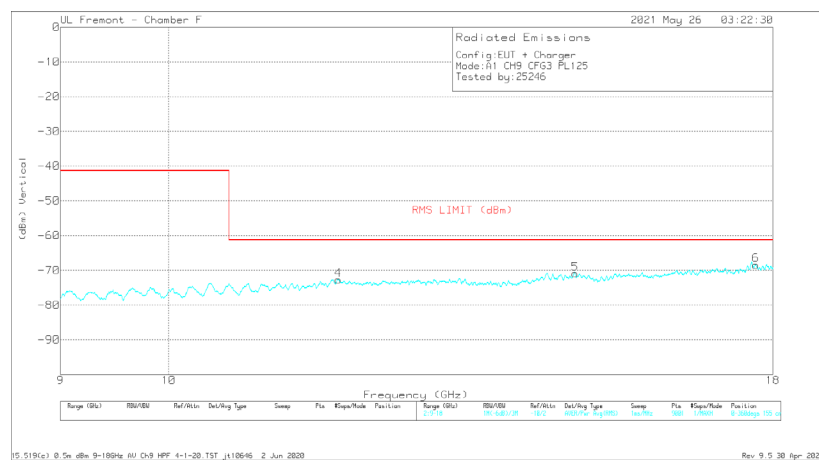
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	Corrected Reading (dBm)	ISED RSS-220 5.3.1 (d)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1883	-62.95	RMS	30.6	-45	-15.6	11.8	.3	-80.85	-70	-10.85	65	155	H
2	3930	-66.41	RMS	33.7	-42.2	-15.6	11.8	.5	-78.21	-70	-8.21	87	155	H
3	5713	-67.12	RMS	34.9	-41.5	-15.6	11.8	.2	-75.52	-41.3	-34.22	285	155	H
4	1393	-63.08	RMS	28.7	-45.2	-15.6	11.8	.2	-83.18	-75.3	-7.88	185	155	V
5	2057	-63.51	RMS	31.3	-45.4	-15.6	11.8	.3	-81.11	-70	-11.11	185	155	V
6	4590	-64.9	RMS	34.2	-43.7	-15.6	11.8	.5	-77.7	-70	-7.7	31	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 1, CH9, CONFIG 3



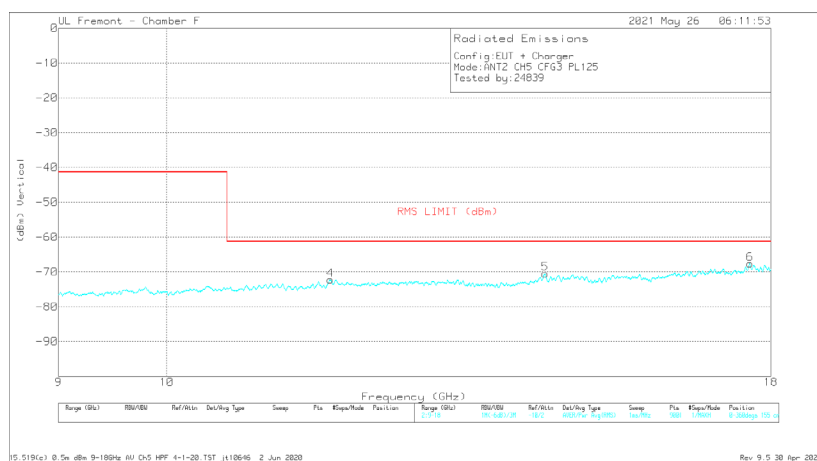
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HPF (dB)	EIRP (dBm)	FCC15.519(c) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	10.407	-69.37	RMS	37.5	-38.1	-15.6	11.8	0	-73.77	-41.3	-32.47	44	155	H
2	14.45	-71.85	RMS	39.8	-35.4	-15.6	11.8	.4	-70.85	-61.3	-9.55	21	155	H
3	17.632	-71.12	RMS	41.5	-34.6	-15.6	11.8	.4	-67.62	-61.3	-6.32	132	155	H
4	11.794	-70.92	RMS	38.9	-37.4	-15.6	11.8	.5	-72.72	-61.3	-11.42	97	155	V
5	14.849	-71.23	RMS	40	-36.6	-15.6	11.8	.7	-70.93	-61.3	-9.63	75	155	V
6	17.704	-71.33	RMS	41.5	-35.2	-15.6	11.8	.4	-68.43	-61.3	-7.13	118	155	V

RMS - RMS detection

*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



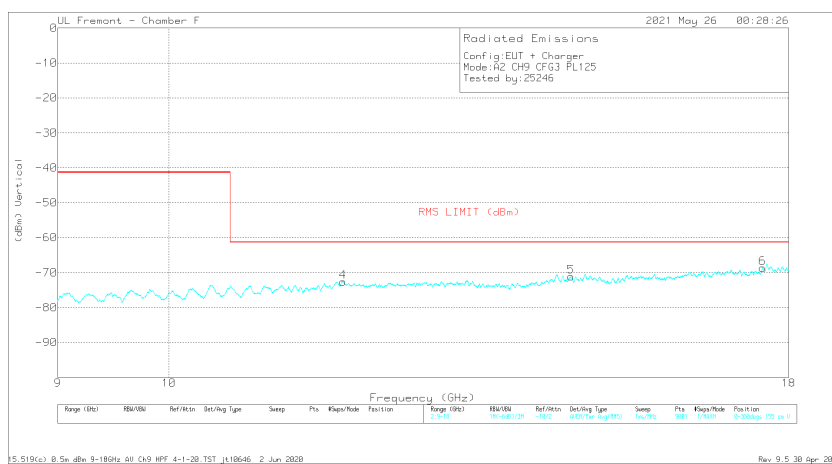
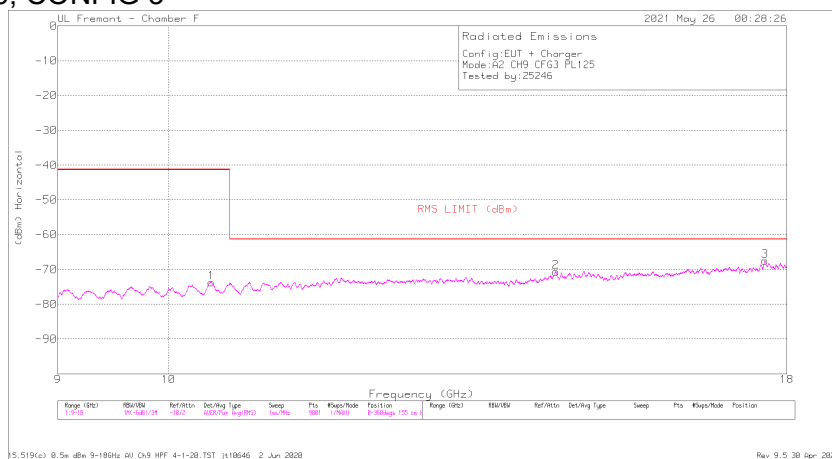
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH5_HPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	9.8	-69.75	RMS	36.8	-38.9	-15.6	11.8	1.1	-74.55	-61.3	-33.25	176	155	H
2	14.447	-71.5	RMS	39.7	-35.4	-15.6	11.8	.6	-70.4	-61.3	-9.1	66	155	H
3	17.627	-71.08	RMS	41.4	-34.6	-15.6	11.8	.6	-67.48	-61.3	-6.18	154	155	H
4	11.725	-70.4	RMS	38.8	-37.5	-15.6	11.8	.6	-72.3	-61.3	-11	251	155	V
5	14.45	-71.58	RMS	39.8	-35.4	-15.6	11.8	.5	-70.48	-61.3	-9.18	273	155	V
6	17.637	-71.24	RMS	41.5	-34.7	-15.6	11.8	.6	-67.64	-61.3	-6.34	31	155	V

RMS - RMS detection

*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



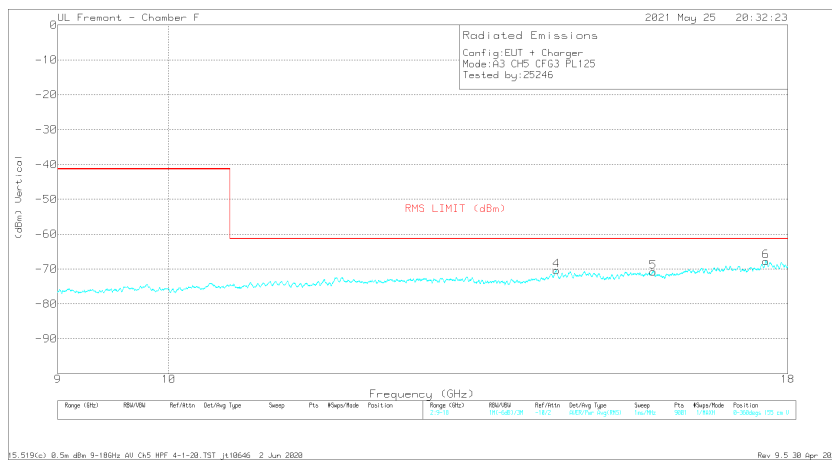
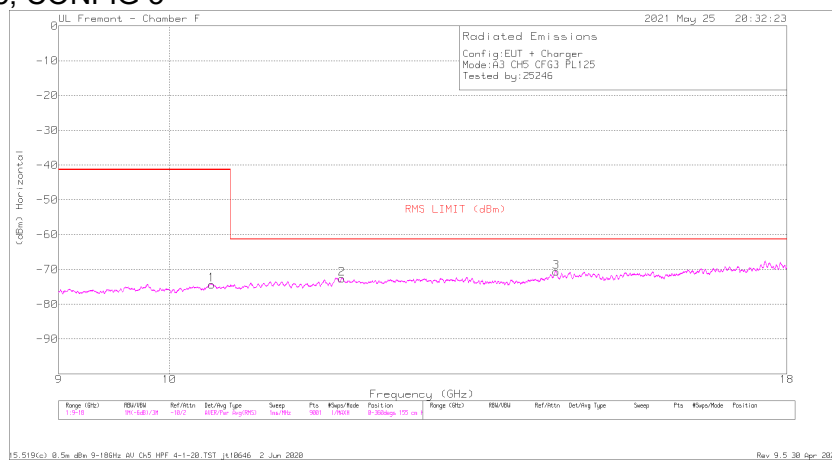
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	10.417	-69.32	RMS	37.5	-38.1	-15.6	11.8	0	-73.72	-41.3	-32.42	264	155	H
2	14.452	-71.69	RMS	39.8	-35.4	-15.6	11.8	.4	-70.69	-61.3	-9.39	220	155	H
3	17.633	-70.99	RMS	41.5	-34.6	-15.6	11.8	.4	-67.49	-61.3	-6.19	132	155	H
4	11.796	-70.75	RMS	38.9	-37.5	-15.6	11.8	.5	-72.65	-61.3	-11.35	163	155	V
5	14.641	-71.6	RMS	40.1	-36.2	-15.6	11.8	.4	-71.1	-61.3	-9.8	75	155	V
6	17.563	-71.22	RMS	41.4	-35.6	-15.6	11.8	.6	-68.62	-61.3	-7.32	75	155	V

RMS - RMS detection

*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



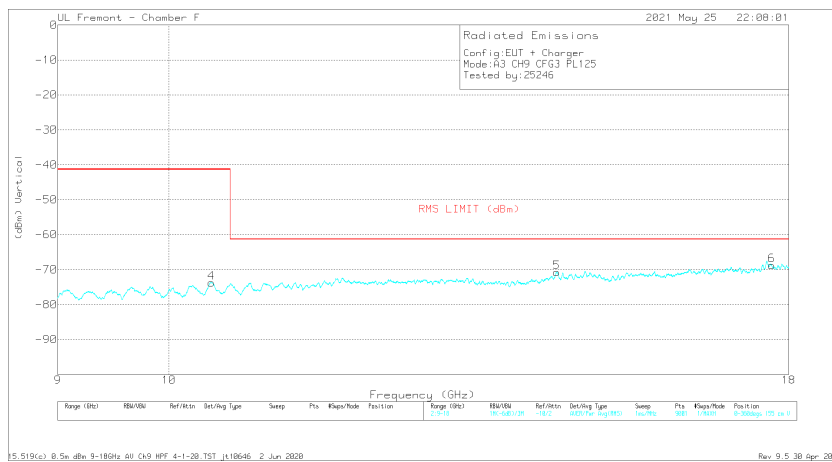
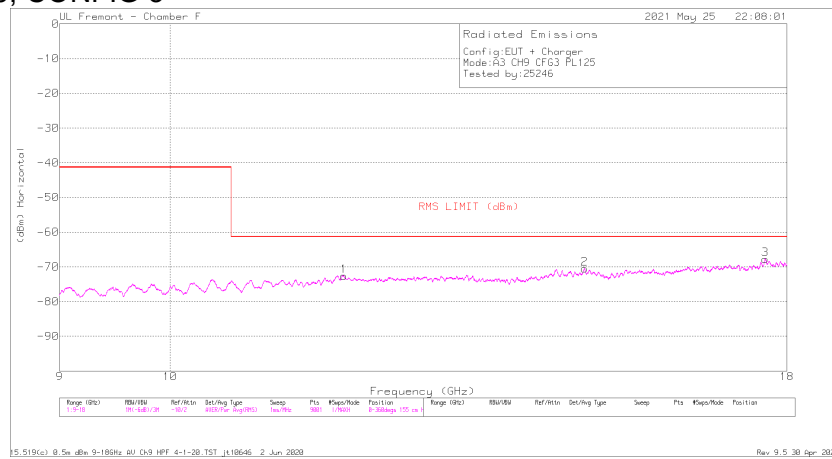
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH5_HPF (dB)	EIRP (dBm)	FCC15.519(c) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	10.414	-70.51	RMS	37.5	-38.1	-15.6	11.8	.6	-74.31	-41.3	-33.01	154	155	H
2	11.787	-70.88	RMS	38.9	-37.4	-15.6	11.8	.6	-72.58	-61.3	-11.28	44	155	H
3	14.452	-71.69	RMS	39.8	-35.4	-15.6	11.8	.5	-70.59	-61.3	-9.29	154	155	H
4	14.452	-71.48	RMS	39.8	-35.4	-15.6	11.8	.5	-70.38	-61.3	-9.08	229	155	V
5	15.844	-71.17	RMS	40.2	-36.5	-15.6	11.8	.5	-70.77	-61.3	-9.47	75	155	V
6	17.631	-71.41	RMS	41.5	-34.6	-15.6	11.8	.6	-67.71	-61.3	-6.41	317	155	V

RMS - RMS detection

*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



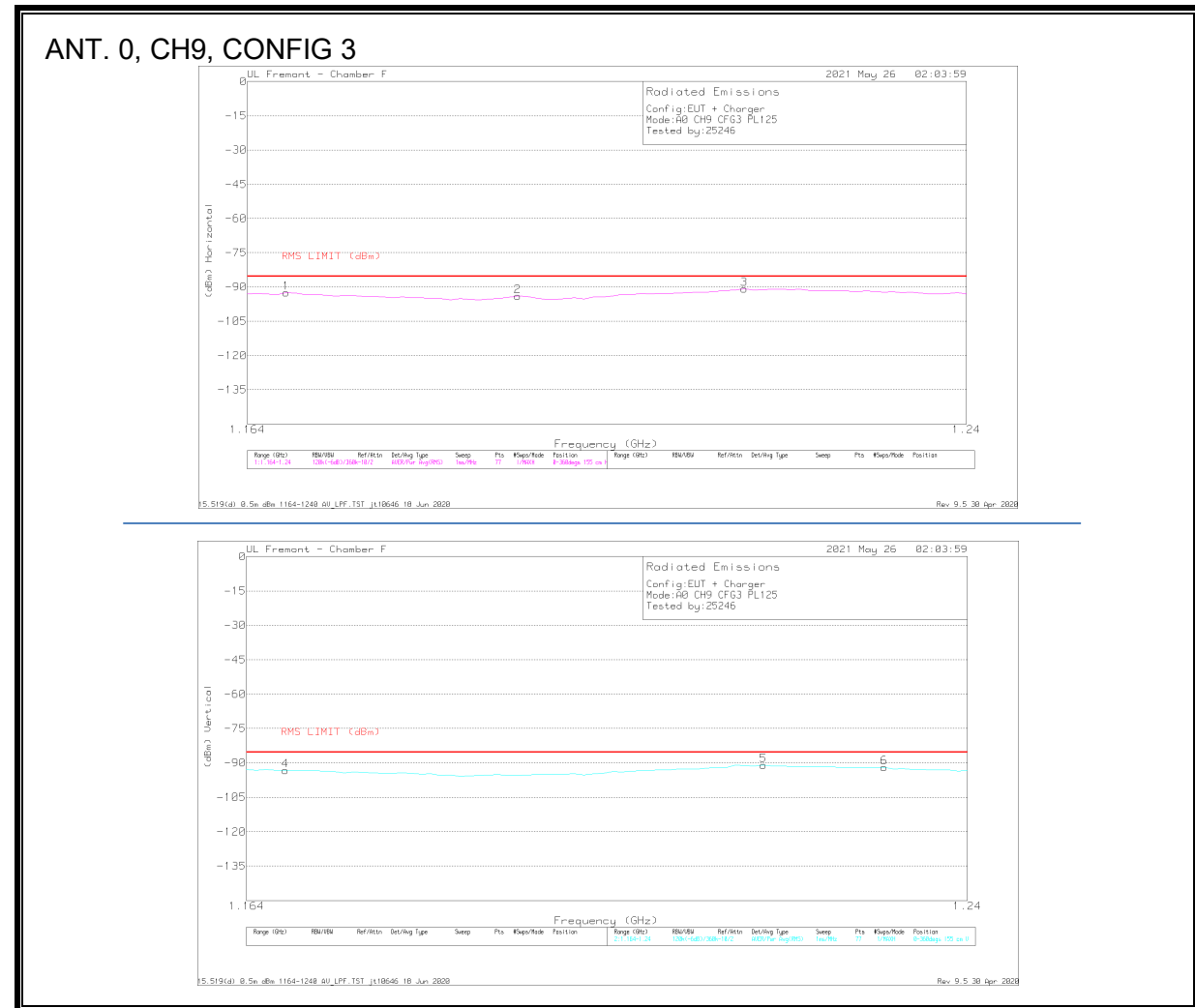
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	CH9_HP (dB)	Corrected Reading (dBm)	FCC15.519(c) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	11.801	-70.68	RMS	38.9	-37.7	-15.6	11.8	.6	-72.68	-61.3	-11.38	286	155	H
2	14.843	-71.2	RMS	40.1	-36.4	-15.6	11.8	.8	-70.5	-61.3	-9.2	286	155	H
3	17.632	-71.24	RMS	41.5	-34.6	-15.6	11.8	.4	-67.74	-61.3	-6.44	198	155	H
4	10.412	-69.36	RMS	37.5	-38.1	-15.6	11.8	0	-73.76	-61.3	-32.46	317	155	V
5	14.448	-71.52	RMS	39.7	-35.4	-15.6	11.8	.3	-70.72	-61.3	-9.42	207	155	V
6	17.713	-71.36	RMS	41.5	-35.5	-15.6	11.8	.4	-68.76	-61.3	-7.46	317	155	V

RMS - RMS detection

*Note: Test was performed with a high-pass filter with pass-band frequency starting at 9 GHz to suppress CH9 fundamental signal.

9.6.3 AVERAGE EMISSIONS, 1.164 – 1.240 GHz



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LFF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.168	-72.17	RMS	28.6	-45.4	-15.6	11.8	2	-92.57	-85.3	-7.27	154	155	H
2	1.192	-74.54	RMS	29.2	-45.1	-15.6	11.8	2	-94.04	-85.3	-8.74	154	155	H
3	1.216	-71.94	RMS	29.9	-45.2	-15.6	11.8	2	-90.84	-85.3	-5.54	154	155	H
4	1.168	-72.75	RMS	28.6	-45.4	-15.6	11.8	2	-93.15	-85.3	-7.85	251	155	V
5	1.218	-72.11	RMS	29.9	-45.2	-15.6	11.8	2	-91.01	-85.3	-5.71	31	155	V
6	1.231	-72.71	RMS	29.8	-45.4	-15.6	11.8	2	-91.91	-85.3	-6.61	31	155	V

RMS - RMS detection

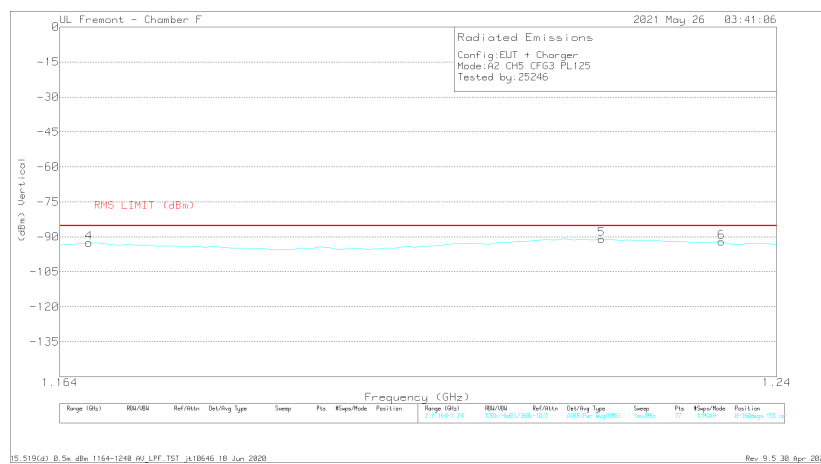
*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/CBI (dB)	Dist Correction (dB)	Conversion Factor (dB)	18196 LPF (dB)	EIRP (dBm)	FC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.169	-72.72	RMS	28.6	-45.4	-15.6	11.8	2	-93.12	-85.3	-7.82	88	155	H
2	1.192	-74.95	RMS	29.2	-5.1	-15.6	11.8	2	-94.45	-85.3	-8.15	198	155	H
3	1.215	-71.77	RMS	28.8	-45.2	-15.6	11.8	2	-90.77	-85.3	-5.47	198	155	H
4	1.166	-72.31	RMS	28.5	-45.4	-15.6	11.8	2	-92.81	-85.3	-7.51	207	155	V
5	1.223	-72.13	RMS	29.9	-45.3	-15.6	11.8	2	-91.13	-85.3	-5.83	317	155	V
6	1.228	-72.72	RMS	29.8	-45.4	-15.6	11.8	2	-91.92	-85.3	-6.62	317	155	V

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



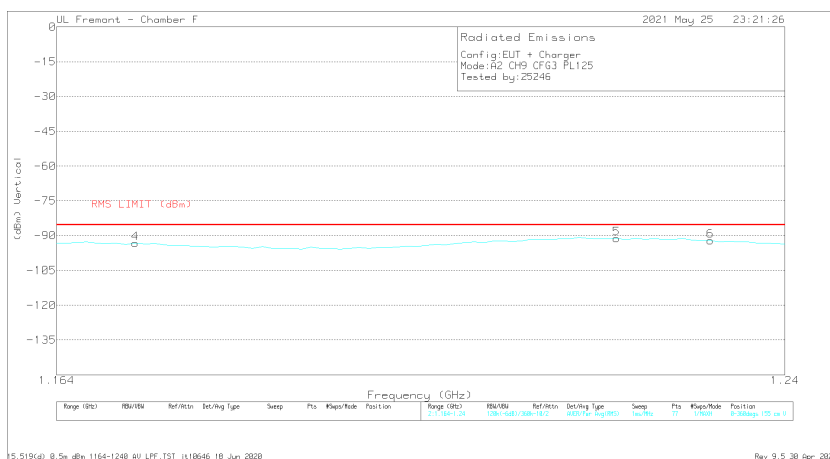
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.17	-72.74	RMS	28.6	-45.4	-15.6	11.8	2	-93.14	-85.3	-7.84	21	155	H
2	1.215	-71.8	RMS	29.8	-45.2	-15.6	11.8	2	-90.8	-85.3	-5.5	198	155	H
3	1.225	-71.78	RMS	29.8	-45.4	-15.6	11.8	2	-90.98	-85.3	-5.68	330	155	H
4	1.167	-72.13	RMS	28.6	-45.4	-15.6	11.8	2	-92.53	-85.3	-7.23	185	155	V
5	1.221	-71.9	RMS	29.9	-45.3	-15.6	11.8	2	-90.9	-85.3	-5.6	53	155	V
6	1.234	-72.86	RMS	29.8	-45.4	-15.6	11.8	2	-92.06	-85.3	-6.76	273	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3

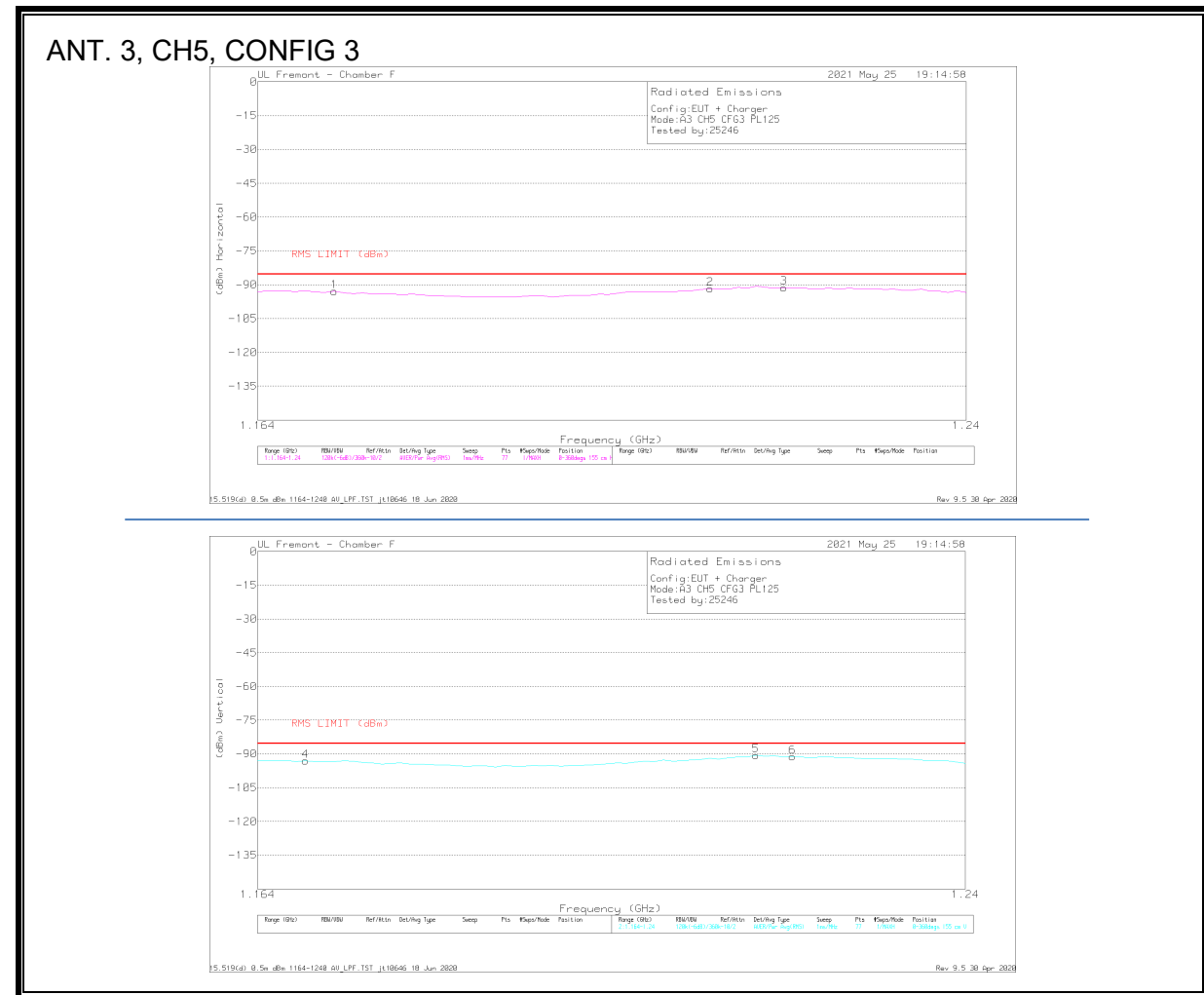


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.176	-73.37	RMS	28.6	-45.4	-15.6	11.8	2	-93.77	-85.3	-8.47	197	155	H
2	1.215	-71.77	RMS	29.8	-45.2	-15.6	11.8	2	-90.77	-85.3	-5.47	154	155	H
3	1.227	-72.02	RMS	29.8	-45.4	-15.6	11.8	2	-91.22	-85.3	-5.92	286	155	H
4	1.172	-72.88	RMS	28.6	-45.4	-15.6	11.8	2	-93.28	-85.3	-7.98	31	155	V
5	1.222	-72.25	RMS	29.9	-45.3	-15.6	11.8	2	-91.25	-85.3	-5.95	339	155	V
6	1.232	-72.9	RMS	29.8	-45.4	-15.6	11.8	2	-92.1	-85.3	-6.8	75	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	189196 LPF (dB)	EIRP (dBm)	FCCL1519(dB) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.172	-72.55	RMS	28.6	-45.4	-15.6	11.8	2	-92.95	-85.3	-7.65	154	155	H
2	1.212	-72.6	RMS	29.7	-45.2	-15.6	11.8	2	-91.7	-85.3	-6.4	154	155	H
3	1.22	-72.27	RMS	29.9	-45.3	-15.6	11.8	2	-91.27	-85.3	-5.97	284	155	H
4	1.169	-72.67	RMS	28.6	-45.4	-15.6	11.8	2	-93.07	-85.3	-7.77	206	155	V
5	1.217	-71.67	RMS	29.9	-45.2	-15.6	11.8	2	-90.57	-85.3	-5.27	53	155	V
6	1.221	-72.24	RMS	29.9	-45.3	-15.6	11.8	2	-91.24	-85.3	-5.94	53	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

01 Fremont - Chamber F

Radiated Emissions
Config: EUT + Charger
Mode: X3 CH9 OF63 PL125
Tested by: 25246

2021 May 25 10:58:50

dBm

Horizontal

RMS LIMIT (-90dBm)

1

2

3

0

0

0

Frequency (GHz)

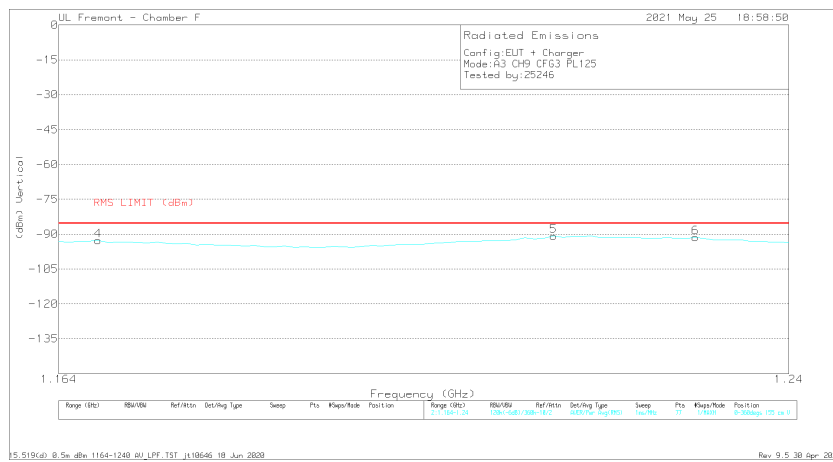
Range (dB)	RBW/Video	Ref/Antn	Det/Rng Type	Sweep	Flts	Wave/Mode	Position	Range (dB)	RBW/Video	Ref/Antn	Det/Rng Type	Sweep	Flts	Wave/Mode	Position
1.1-104.24	120K-100K/200K-100K	REC/PSD	Mag/PSD	Mag/PSD	71	170dB	9.58MHz, 120 dB								

1.164

1.24

55.519(ca) 0.5m dBm 1164-1240 40i LFP TST j110646 16 Jun 2020

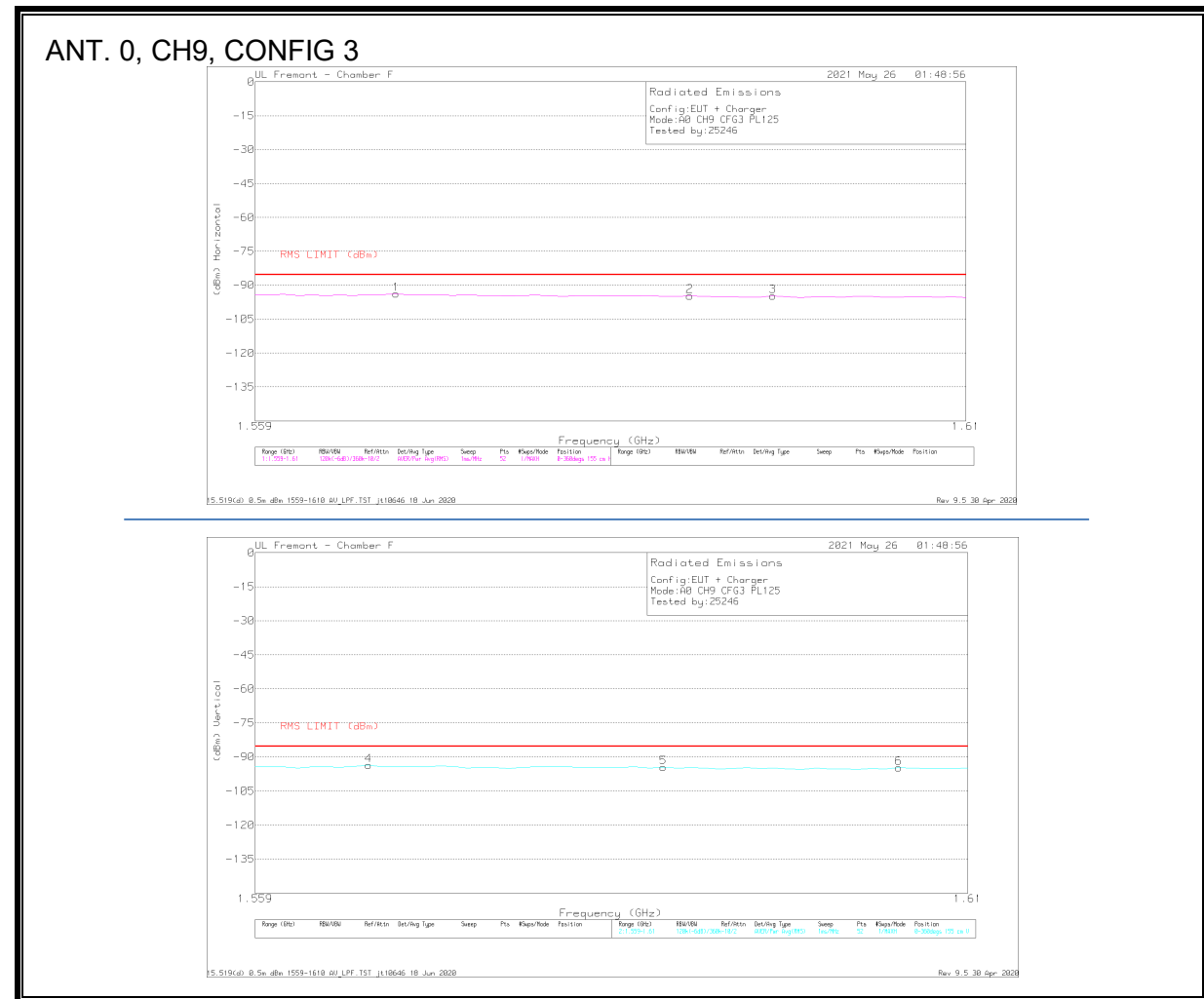
Rev: 9.5, 30 Apr 2020



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AP (dBm)	Amp/CMB (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	ERP (dBm)	FC15.5119(dB) ERP RMS	MargIn (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.185	-73.76	RMS	29.1	-45.3	-15.6	11.8	2	-93.56	-85.3	-8.26	176	155	H
2	1.209	-72.71	RMS	29.6	-45.3	-15.6	11.8	2	-92.01	-85.3	-6.71	176	155	H
3	1.221	-72.27	RMS	29.9	-45.3	-15.6	11.8	2	-91.27	-85.3	-5.97	155	155	H
4	1.168	-72.34	RMS	28.6	-45.4	-15.6	11.8	2	-92.74	-85.3	-7.44	185	155	V
5	1.215	-71.8	RMS	29.8	-45.2	-15.6	11.8	2	-90.8	-85.3	-5.5	295	155	V
6	1.23	-72.18	RMS	29.8	-45.4	-15.6	11.8	2	-91.38	-85.3	-6.08	295	155	V

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

9.6.4 AVERAGE EMISSIONS, 1.559 – 1.610 GHz



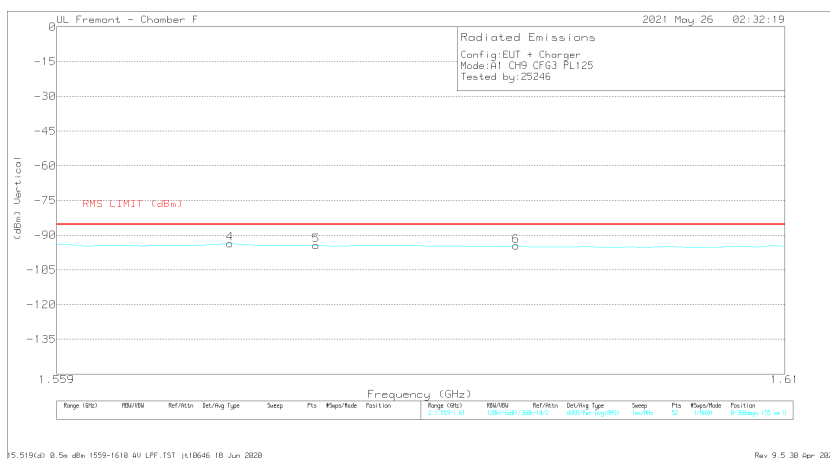
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	15.519 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.569	-72.91	RMS	27.9	-45.2	-15.6	11.8	-2	-93.81	-85.3	-8.51	88	155	H
2	1.59	-73.74	RMS	28	-45.3	-15.6	11.8	-2	-94.64	-85.3	-9.34	22	155	H
3	1.596	-73.94	RMS	28	-45.2	-15.6	11.8	-2	-94.74	-85.3	-9.44	154	155	H
4	1.567	-72.73	RMS	27.9	-45.2	-15.6	11.8	-2	-93.63	-85.3	-8.33	52	155	V
5	1.588	-73.66	RMS	28	-45.3	-15.6	11.8	-2	-94.56	-85.3	-9.26	251	155	V
6	1.605	-73.89	RMS	28	-45.3	-15.6	11.8	-2	-94.79	-85.3	-9.49	75	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 1, CH9, CONFIG 3



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.565	-72.93	RMS	27.9	-45.2	-15.6	11.8	2	-93.83	-85.3	-8.53	220	155	H
2	1.588	-73.68	RMS	28	-45.3	-15.6	11.8	2	-94.58	-85.3	-9.28	110	155	H
3	1.594	-73.7	RMS	28	-45.2	-15.6	11.8	2	-94.5	-85.3	-9.2	176	155	H
4	1.571	-72.74	RMS	28	-45.2	-15.6	11.8	2	-93.54	-85.3	-8.24	272	155	V
5	1.577	-73.46	RMS	28	-45.3	-15.6	11.8	2	-94.36	-85.3	-9.06	317	155	V
6	1.591	-73.72	RMS	28	-45.3	-15.6	11.8	2	-94.62	-85.3	-9.32	119	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 2, CH5, CONFIG 3



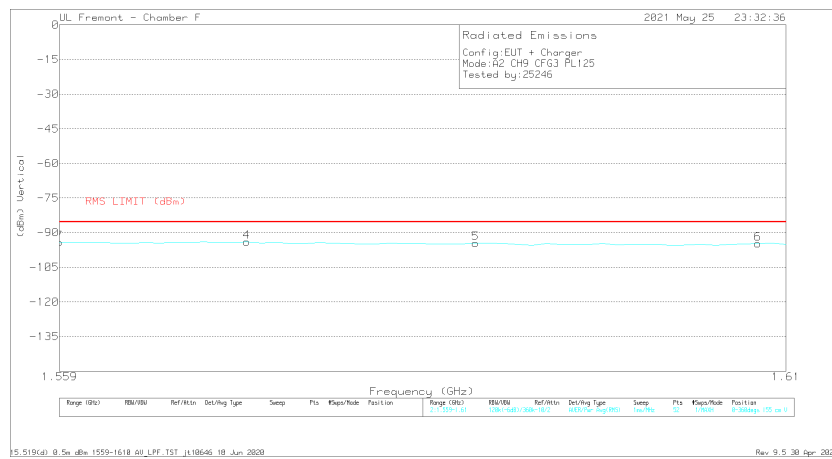
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.564	-73.33	RMS	27.9	-45.2	-15.6	11.8	.2	-94.23	-85.3	-8.93	43	155	H
2	1.578	-73.28	RMS	28	-45.3	-15.6	11.8	.2	-94.18	-85.3	-8.88	241	155	H
3	1.596	-73.91	RMS	28	-45.2	-15.6	11.8	.2	-94.71	-85.3	-9.41	197	155	H
4	1.568	-73.04	RMS	27.9	-45.2	-15.6	11.8	.2	-93.94	-85.3	-8.64	119	155	V
5	1.581	-73.46	RMS	27.9	-45.3	-15.6	11.8	.2	-94.46	-85.3	-9.16	317	155	V
6	1.606	-73.58	RMS	28	-45.3	-15.6	11.8	.2	-94.48	-85.3	-9.18	96	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 2, CH9, CONFIG 3



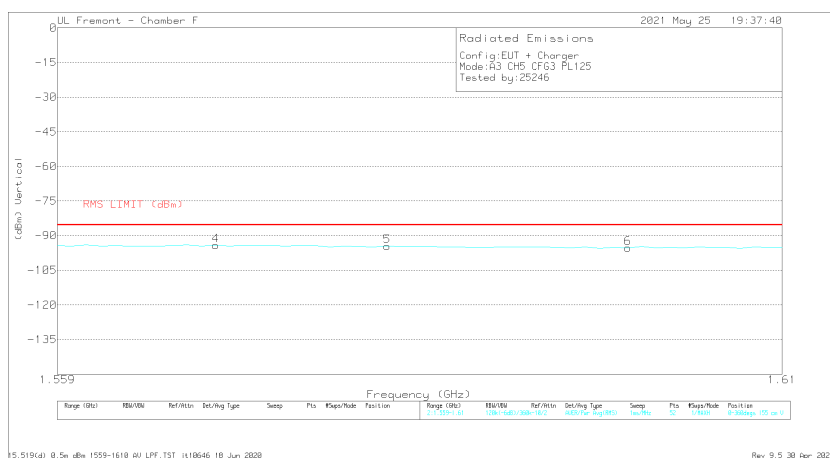
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.567	-72.69	RMS	27.9	-45.2	-15.6	11.8	2	-93.59	-85.3	-8.29	330	155	H
2	1.595	-73.5	RMS	28	-45.2	-15.6	11.8	2	-94.3	-85.3	-9	1	155	H
3	1.605	-74.05	RMS	28	-45.3	-15.6	11.8	2	-94.95	-85.3	-9.65	66	155	H
4	1.572	-73.1	RMS	28	-45.2	-15.6	11.8	2	-93.9	-85.3	-8.6	53	155	V
5	1.588	-73.6	RMS	28	-45.3	-15.6	11.8	2	-94.5	-85.3	-9.2	119	155	V
6	1.608	-73.86	RMS	28	-45.3	-15.6	11.8	2	-94.76	-85.3	-9.46	163	155	V
7	1.559	-73.34	RMS	28	-45.2	-15.6	11.8	2	-94.14	-85.3	-8.84	273	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

ANT. 3, CH5, CONFIG 3



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dBm)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.119(d) EIRP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.567	-72.87	RMS	27.9	-45.2	-15.6	11.8	.2	-93.77	-85.3	-8.47	44	155	H
2	1.586	-73.76	RMS	28	-45.2	-15.6	11.8	.2	-94.56	-85.3	-9.26	176	155	H
3	1.603	-74.17	RMS	28	-45.3	-15.6	11.8	.2	-95.07	-85.3	-9.77	22	155	H
4	1.57	-73.34	RMS	28	-45.2	-15.6	11.8	.2	-94.14	-85.3	-8.84	141	155	V
5	1.582	-73.65	RMS	27.9	-45.2	-15.6	11.8	.2	-94.55	-85.3	-9.25	295	155	V
6	1.599	-74.41	RMS	28	-45.2	-15.6	11.8	.2	-95.21	-85.3	-9.91	31	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH5 fundamental signal.

ANT. 3, CH9, CONFIG 3



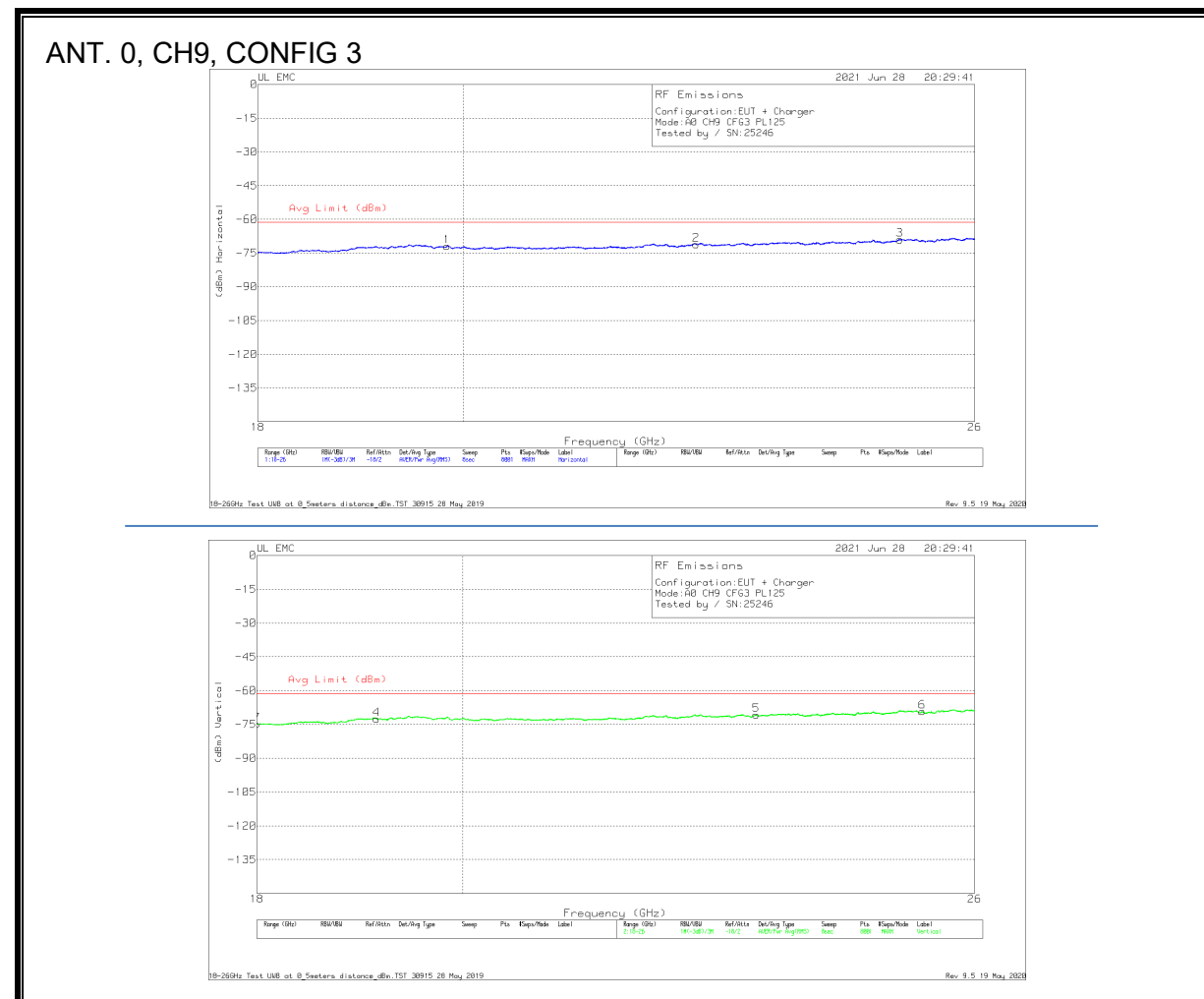
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Correction (dB)	Conversion Factor (dB)	188196 LPF (dB)	EIRP (dBm)	FCC15.519(d) ERP RMS (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.57	-73.05	RMS	28	-45.2	-15.6	11.8	-2	-93.85	-85.3	-8.55	110	155	H
2	1.582	-73.28	RMS	27.9	-45.2	-15.6	11.8	-2	-94.18	-85.3	-8.88	22	155	H
3	1.601	-73.98	RMS	28	-45.3	-15.6	11.8	-2	-94.88	-85.3	-9.58	264	155	H
4	1.562	-73.58	RMS	27.9	-45.2	-15.6	11.8	-2	-94.48	-85.3	-9.18	141	155	V
5	1.577	-73.42	RMS	28	-45.3	-15.6	11.8	-2	-94.32	-85.3	-9.02	339	155	V
6	1.605	-73.96	RMS	28	-45.3	-15.6	11.8	-2	-94.86	-85.3	-9.56	295	155	V

RMS - RMS detection

*Note: Test was performed with a low-pass filter with cutoff frequency at 5.4 GHz to suppress CH9 fundamental signal.

9.6.5 AVERAGE EMISSIONS, 18 – 26 GHz

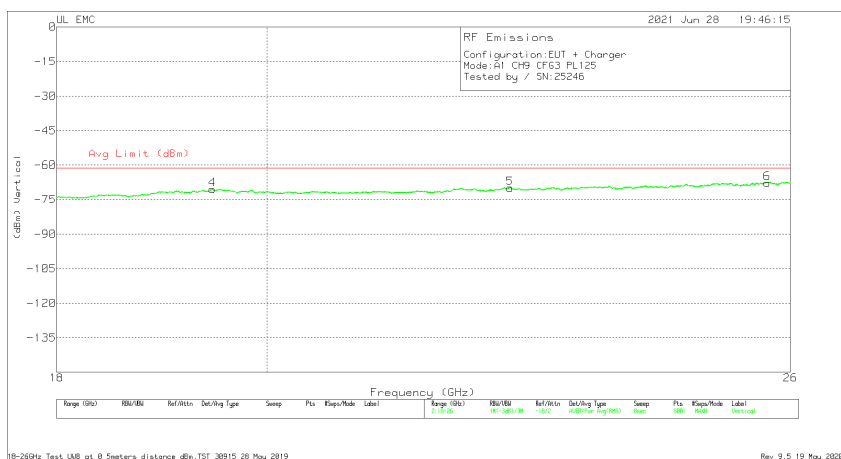
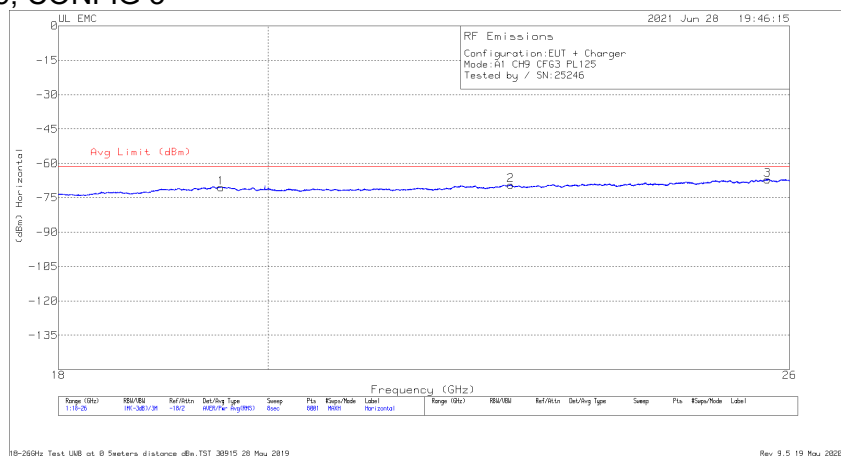


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.834	-81.85	RMS	32.7	-19	-15.6	11.8	-71.95	-61.3	-10.65	H
2	22.539	-82.19	RMS	33.4	-18.6	-15.6	11.8	-71.19	-61.3	-9.89	H
3	25.02	-81.84	RMS	34.1	-17.5	-15.6	11.8	-69.04	-61.3	-7.74	H
4	19.139	-82.58	RMS	32.7	-18.9	-15.6	11.8	-72.58	-61.3	-11.28	V
5	23.248	-81.86	RMS	33.5	-18.6	-15.6	11.8	-70.76	-61.3	-9.46	V
6	25.311	-81.75	RMS	34.1	-17.8	-15.6	11.8	-69.25	-61.3	-7.95	V
7	18	-82.07	RMS	32.5	-21.5	-15.6	11.8	-74.87	-61.3	-13.57	V

RMS - RMS detection

ANT. 1, CH9, CONFIG 3

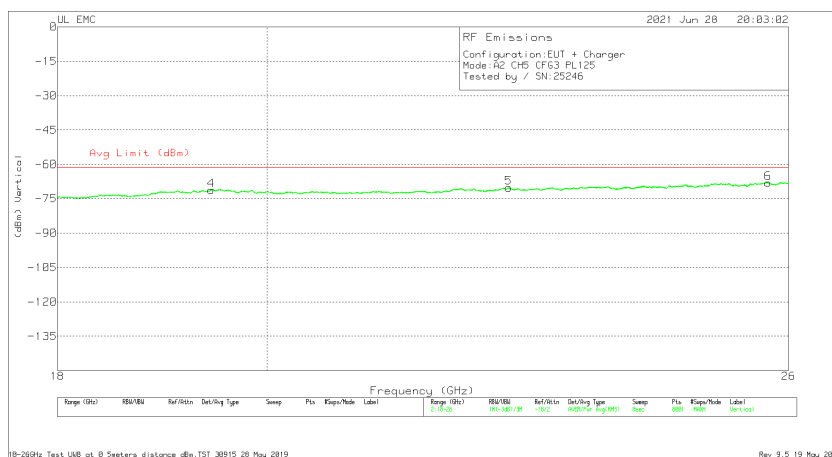
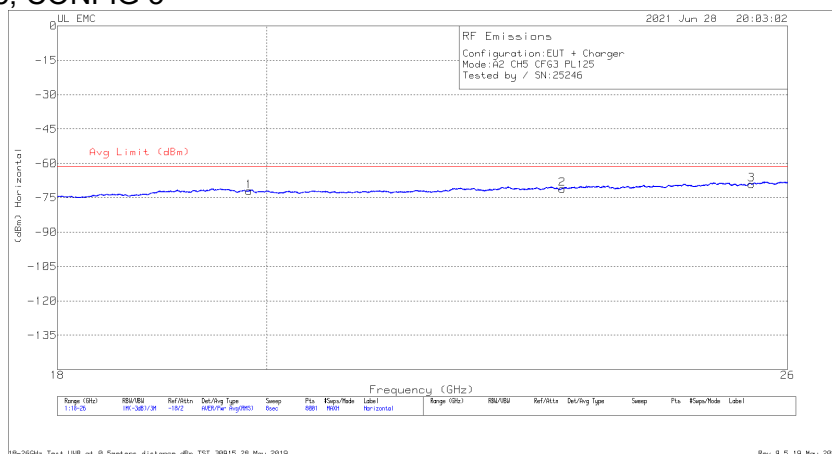


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.535	-81.21	RMS	32.7	-18.2	-15.6	11.8	-70.51	-61.3	-9.21	H
2	22.598	-80.4	RMS	33.4	-18.6	-15.6	11.8	-69.4	-61.3	-8.1	H
3	25.713	-79.38	RMS	34.1	-18	-15.6	11.8	-67.08	-61.3	-5.78	H
4	19.463	-81.72	RMS	32.6	-17.6	-15.6	11.8	-70.52	-61.3	-9.22	V
5	22.592	-81.09	RMS	33.4	-18.5	-15.6	11.8	-69.99	-61.3	-8.69	V
6	25.699	-80.08	RMS	34.1	-18	-15.6	11.8	-67.78	-61.3	-6.48	V

RMS - RMS detection

ANT. 2, CH5, CONFIG 3

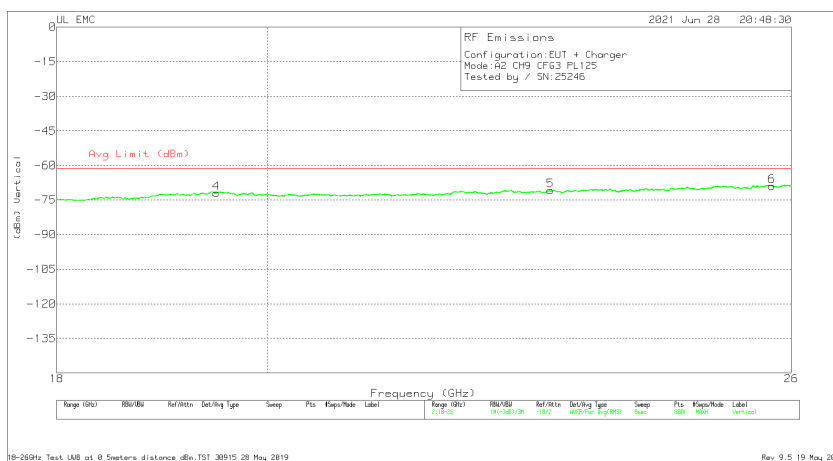
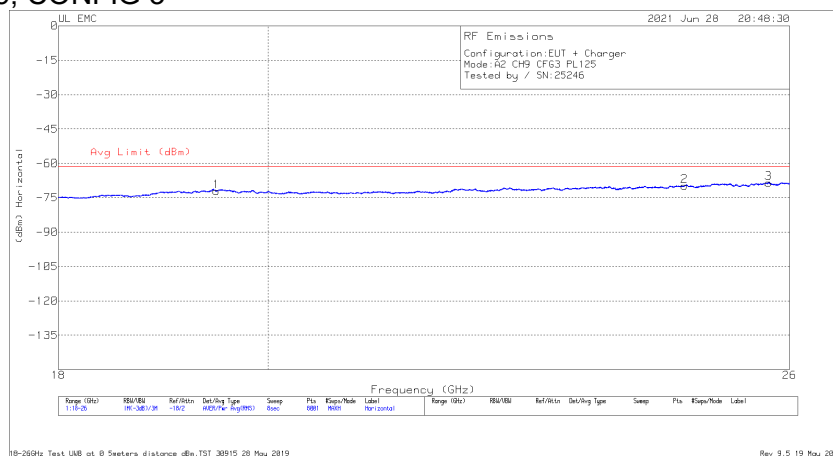


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.824	-81.65	RMS	32.7	-19.3	-15.6	11.8	-72.05	-61.3	-10.75	H
2	23.211	-82.02	RMS	33.5	-18.8	-15.6	11.8	-71.12	-61.3	-9.82	H
3	25.531	-81.74	RMS	34.1	-17.7	-15.6	11.8	-69.14	-61.3	-7.84	H
4	19.448	-82.15	RMS	32.6	-17.8	-15.6	11.8	-71.15	-61.3	-9.85	V
5	22.586	-81.3	RMS	33.4	-18.5	-15.6	11.8	-70.2	-61.3	-8.9	V
6	25.733	-80.25	RMS	34.1	-18.1	-15.6	11.8	-68.05	-61.3	-6.75	V

RMS - RMS detection

ANT. 2, CH9, CONFIG 3

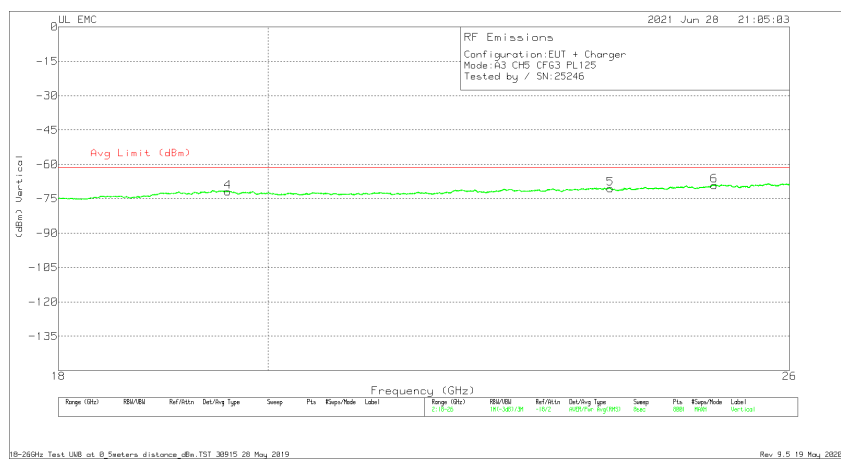
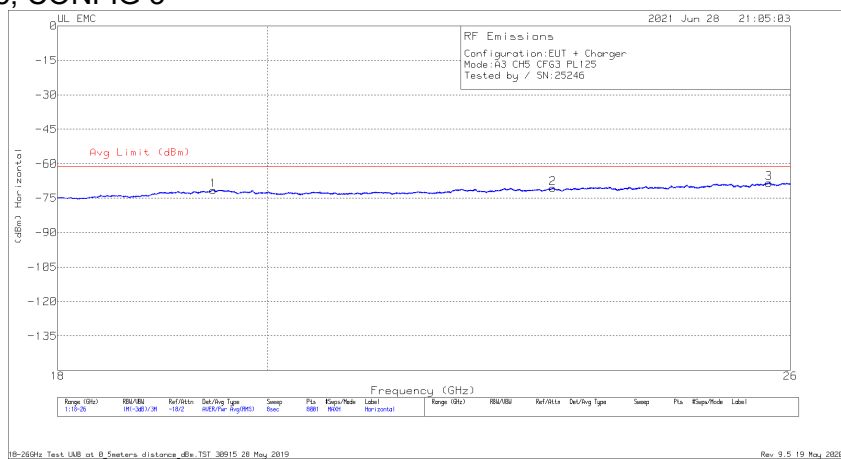


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.488	-83	RMS	32.6	-17.9	-15.6	11.8	-72.1	-61.3	-10.8	H
2	24.662	-82.62	RMS	33.9	-17.3	-15.6	11.8	-69.82	-61.3	-8.52	H
3	25.726	-80.69	RMS	34.1	-18.1	-15.6	11.8	-68.49	-61.3	-7.19	H
4	19.499	-82.75	RMS	32.6	-18	-15.6	11.8	-71.95	-61.3	-10.65	V
5	23.047	-81.78	RMS	33.4	-18.6	-15.6	11.8	-70.78	-61.3	-9.48	V
6	25.746	-80.9	RMS	34.1	-18.3	-15.6	11.8	-68.9	-61.3	-7.6	V

RMS - RMS detection

ANT. 3, CH5, CONFIG 3

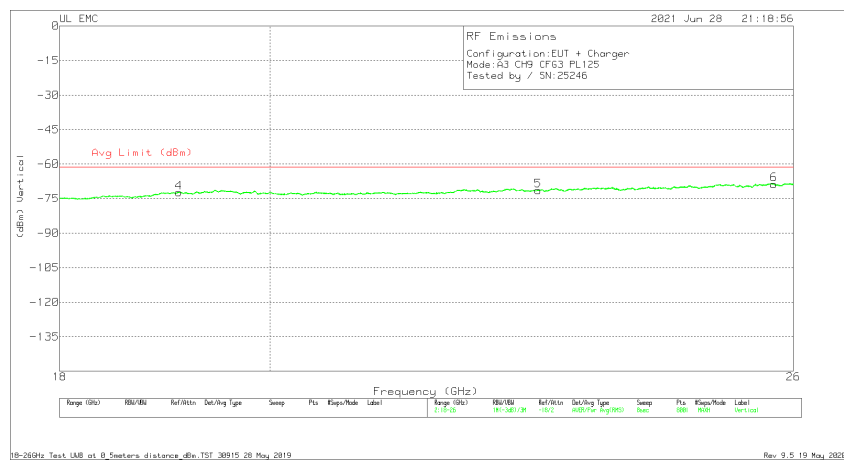
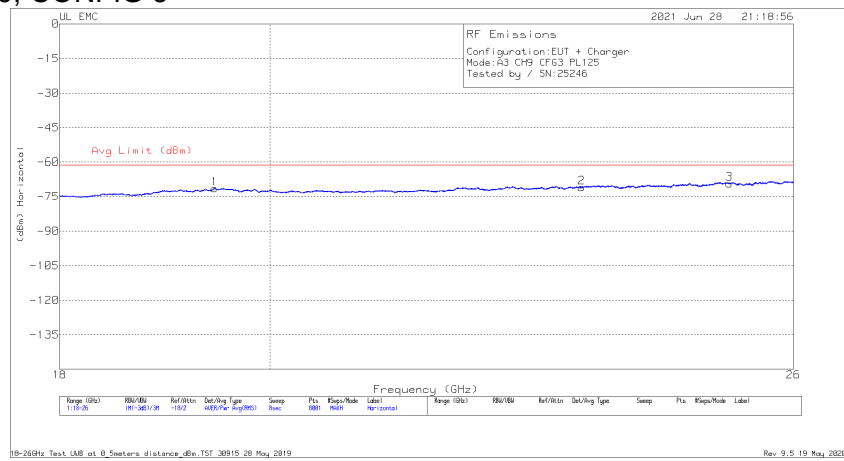


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.463	-82.67	RMS	32.6	-17.6	-15.6	11.8	-71.47	-61.3	-10.17	H
2	23.077	-81.85	RMS	33.4	-18.3	-15.6	11.8	-70.55	-61.3	-9.25	H
3	25.719	-80.65	RMS	34.1	-18	-15.6	11.8	-68.35	-61.3	-7.05	H
4	19.601	-82.25	RMS	32.8	-18.6	-15.6	11.8	-71.85	-61.3	-10.55	V
5	23.76	-82.41	RMS	33.7	-18	-15.6	11.8	-70.51	-61.3	-9.21	V
6	25.033	-81.87	RMS	34.1	-17.6	-15.6	11.8	-69.17	-61.3	-7.87	V

RMS - RMS detection

ANT. 3, CH9, CONFIG 3

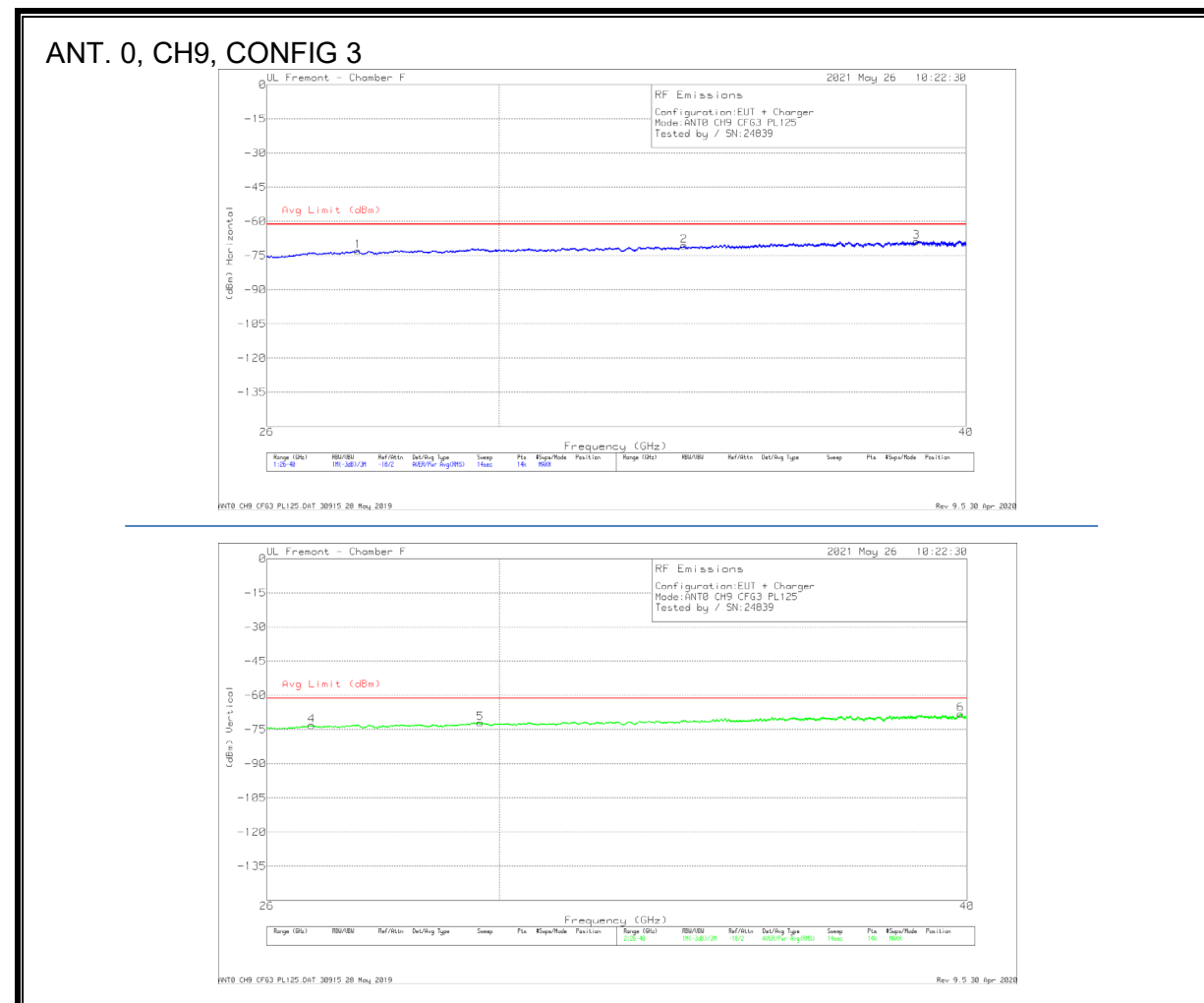


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	Corrected Reading (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	19.453	-82.57	RMS	32.6	-17.7	-15.6	11.8	-71.47	-61.3	-10.17	H
2	23.382	-81.94	RMS	33.7	-19	-15.6	11.8	-71.04	-61.3	-9.74	H
3	25.178	-81.96	RMS	34.2	-17.8	-15.6	11.8	-69.36	-61.3	-8.06	H
4	19.109	-82.35	RMS	32.7	-18.9	-15.6	11.8	-72.35	-61.3	-11.05	V
5	22.878	-81.79	RMS	33.5	-19.3	-15.6	11.8	-71.39	-61.3	-10.09	V
6	25.746	-80.77	RMS	34.1	-18.3	-15.6	11.8	-68.77	-61.3	-7.47	V

RMS - RMS detection

9.6.6 AVERAGE EMISSIONS, 26 – 40 GHz

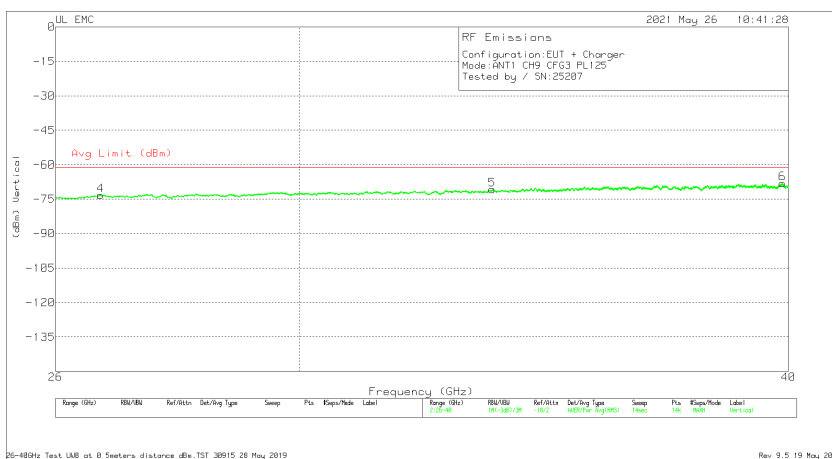
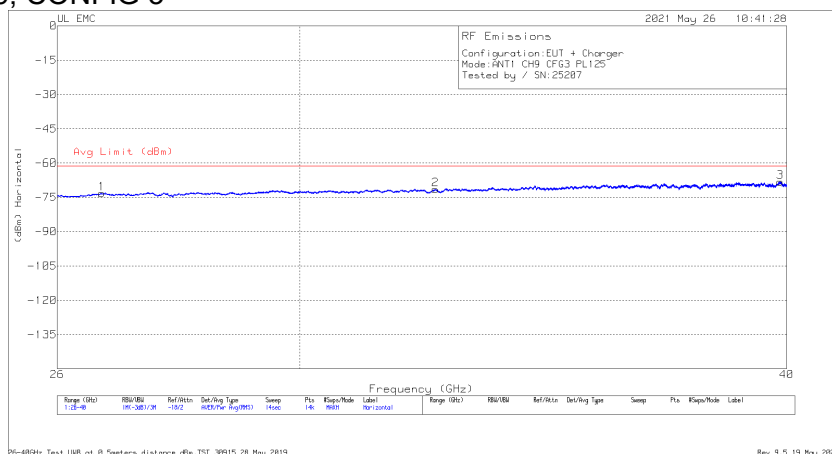


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	27.503	-77.96	RMS	36.1	-27.3	-15.6	11.8	-72.96	-61.3	-11.66	H
2	33.623	-79.8	RMS	37.2	-24.3	-15.6	11.8	-70.7	-61.3	-9.4	H
3	38.794	-80.69	RMS	38.5	-22.8	-15.6	11.8	-68.79	-61.3	-7.49	H
4	26.726	-76.52	RMS	35.9	-28.8	-15.6	11.8	-73.22	-61.3	-11.92	V
5	29.651	-80.43	RMS	37	-24.9	-15.6	11.8	-72.13	-61.3	-10.83	V
6	39.843	-81.17	RMS	38.6	-21.7	-15.6	11.8	-68.07	-61.3	-6.77	V

RMS - RMS detection

ANT. 1, CH9, CONFIG 3

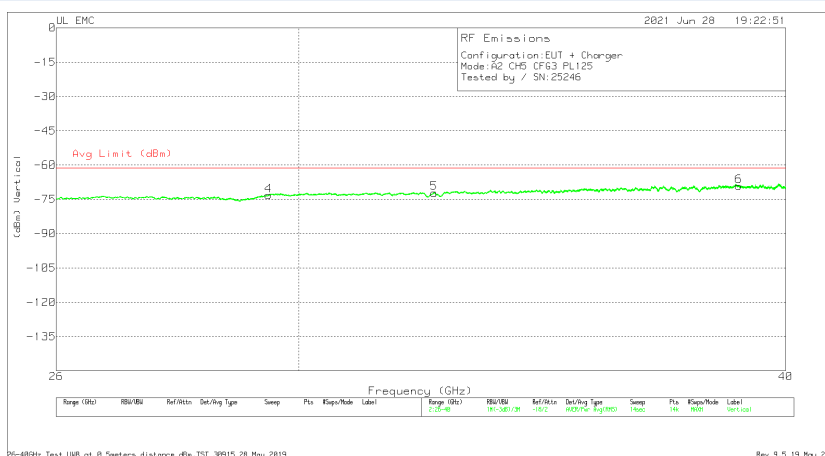
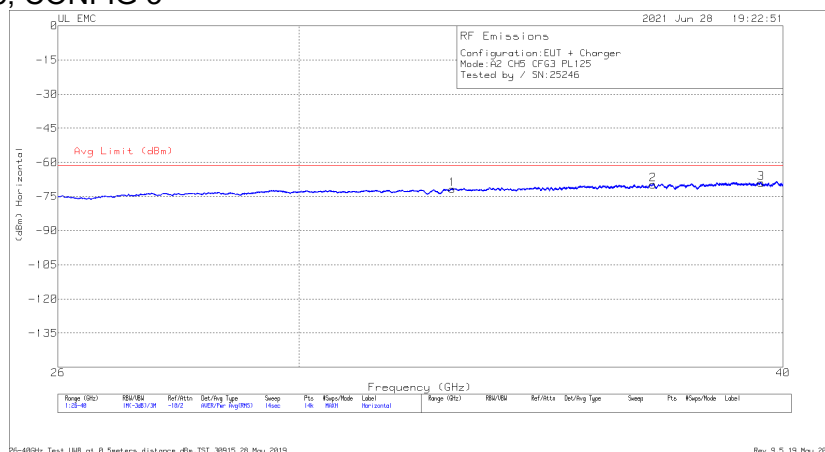


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	26.689	-76.46	RMS	35.9	-28.9	-15.6	11.8	-73.26	-61.3	-11.96	H
2	32.503	-79.88	RMS	37.4	-25.2	-15.6	11.8	-71.48	-61.3	-10.18	H
3	39.846	-81.3	RMS	38.6	-21.7	-15.6	11.8	-68.2	-61.3	-6.9	H
4	26.696	-76.47	RMS	35.9	-28.9	-15.6	11.8	-73.27	-61.3	-11.97	V
5	33.607	-79.86	RMS	37.3	-24.4	-15.6	11.8	-70.76	-61.3	-9.46	V
6	39.855	-81.1	RMS	38.6	-21.8	-15.6	11.8	-68.1	-61.3	-6.8	V

RMS - RMS detection

ANT. 2, CH5, CONFIG 3

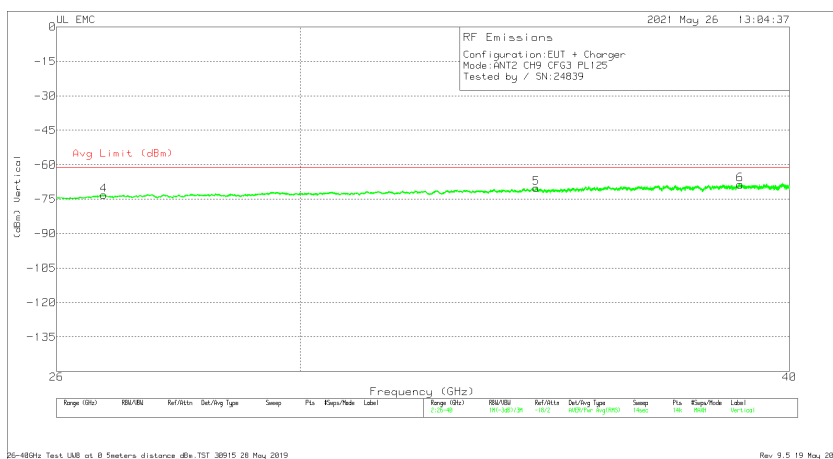
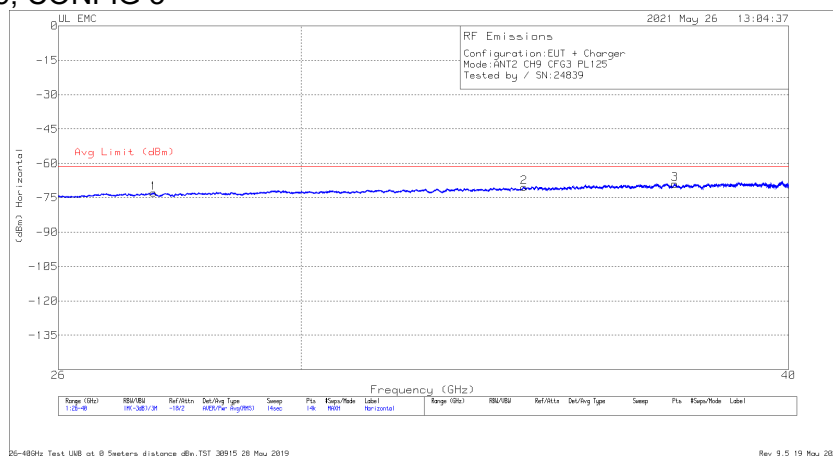


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	32.862	-80.3	RMS	37.1	-24.7	-15.6	11.8	-71.7	-61.3	-10.4	H
2	37.025	-81.11	RMS	38.1	-22.9	-15.6	11.8	-69.71	-61.3	-8.41	H
3	39.483	-81.56	RMS	38.2	-21.9	-15.6	11.8	-69.06	-61.3	-7.76	H
4	29.473	-81.5	RMS	36.9	-24.8	-15.6	11.8	-73.2	-61.3	-11.9	V
5	32.5	-80.63	RMS	37.4	-25.2	-15.6	11.8	-72.23	-61.3	-10.93	V
6	38.904	-81.33	RMS	38.5	-22.5	-15.6	11.8	-69.13	-61.3	-7.83	V

RMS - RMS detection

ANT. 2, CH9, CONFIG 3

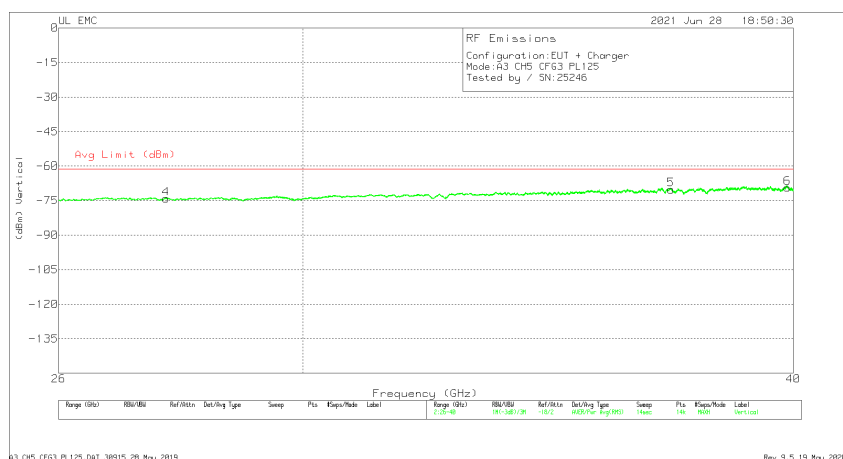
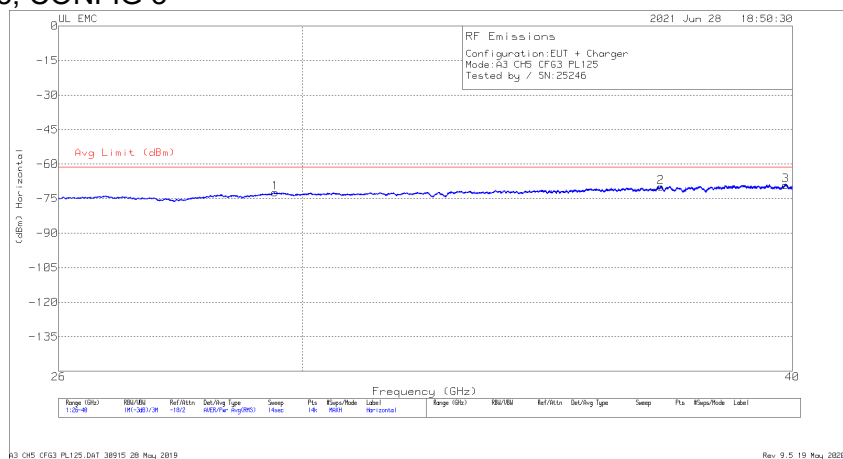


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	27.501	-77.89	RMS	36.1	-27.3	-15.6	11.8	-72.89	-61.3	-11.59	H
2	34.218	-79.88	RMS	37.6	-24.3	-15.6	11.8	-70.38	-61.3	-9.08	H
3	37.403	-80.01	RMS	38.1	-23.2	-15.6	11.8	-68.91	-61.3	-7.61	H
4	26.732	-76.58	RMS	35.9	-28.7	-15.6	11.8	-73.18	-61.3	-11.88	V
5	34.467	-80.07	RMS	37.5	-23.7	-15.6	11.8	-70.07	-61.3	-8.77	V
6	38.855	-80.59	RMS	38.5	-22.7	-15.6	11.8	-68.59	-61.3	-7.29	V

RMS - RMS detection

ANT. 3, CH5, CONFIG 3

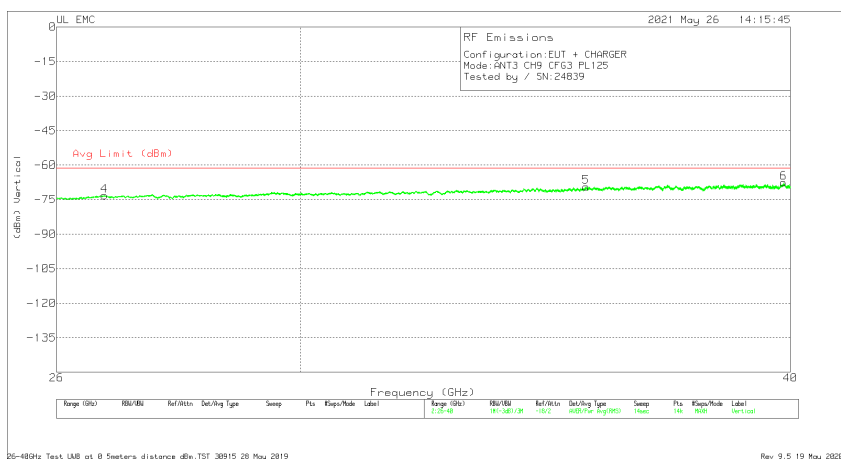
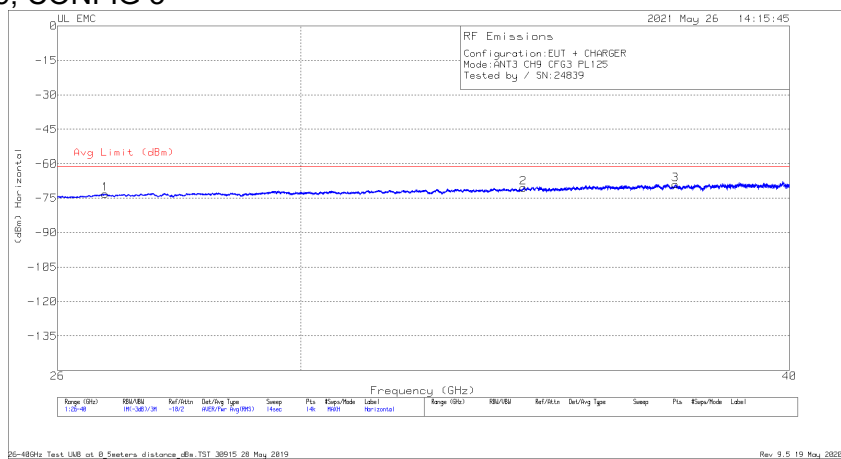


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	29.52	-80.85	RMS	37.1	-24.8	-15.6	11.8	-72.35	-61.3	-11.05	H
2	37.025	-81.33	RMS	38.1	-22.9	-15.6	11.8	-69.93	-61.3	-8.63	H
3	39.84	-82.43	RMS	38.6	-21.6	-15.6	11.8	-69.23	-61.3	-7.93	H
4	27.689	-79.49	RMS	36	-26.8	-15.6	11.8	-74.09	-61.3	-12.79	V
5	37.231	-81.09	RMS	38.1	-23.4	-15.6	11.8	-70.19	-61.3	-8.89	V
6	39.861	-82.08	RMS	38.5	-22	-15.6	11.8	-69.38	-61.3	-8.08	V

RMS - RMS detection

ANT. 3, CH9, CONFIG 3



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Conversion Factor (dB)	EIRP (dBm)	Avg Limit (dBm)	Margin (dB)	Polarity
1	26.741	-76.53	RMS	35.9	-28.7	-15.6	11.8	-73.13	-61.3	-11.83	H
2	34.202	-79.84	RMS	37.6	-24.4	-15.6	11.8	-70.44	-61.3	-9.14	H
3	37.401	-80.1	RMS	38.1	-23.2	-15.6	11.8	-69	-61.3	-7.7	H
4	26.742	-76.59	RMS	35.9	-28.7	-15.6	11.8	-73.19	-61.3	-11.89	V
5	35.475	-79.95	RMS	37.7	-23.4	-15.6	11.8	-69.45	-61.3	-8.15	V
6	39.838	-80.85	RMS	38.6	-21.6	-15.6	11.8	-67.65	-61.3	-6.35	V

RMS - RMS detection

9.7 AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a) & RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.10 Section 6.2

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

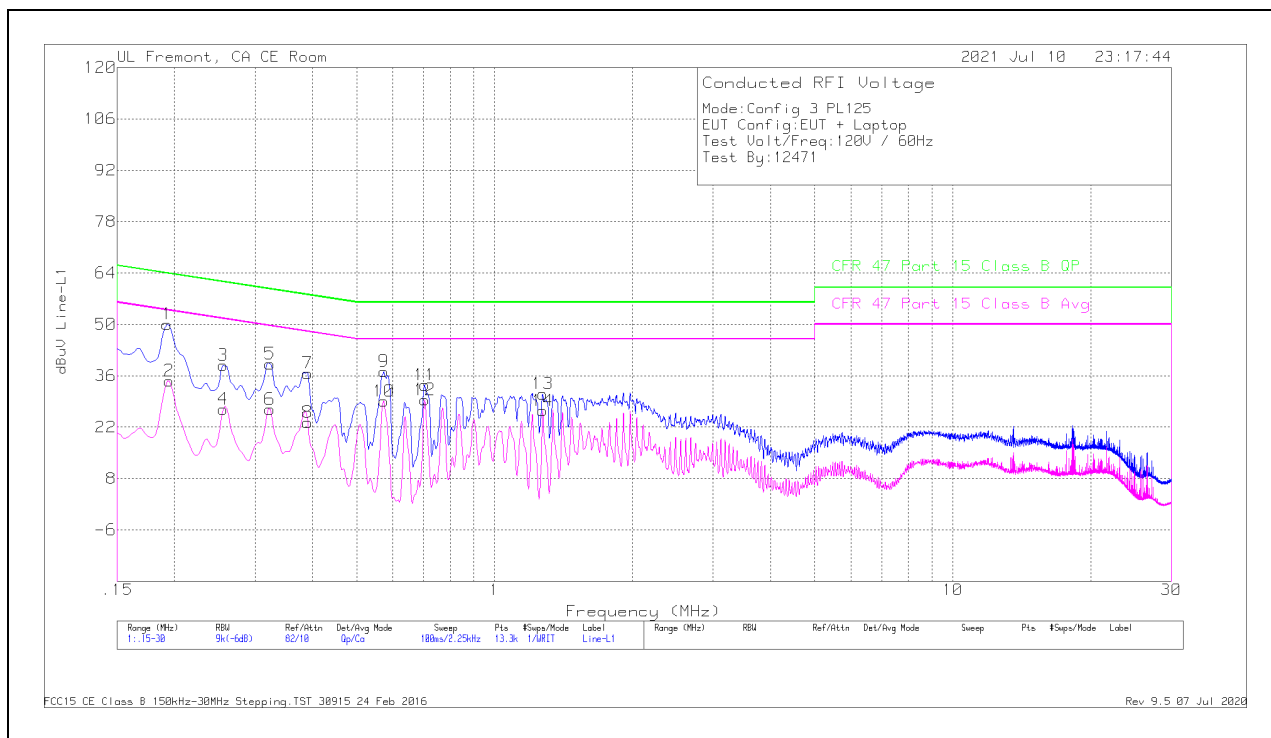
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

Employee IDs: 12471
Location: Immunity Test Room
Test Date: 06/10/2021

9.7.1 AC Power Line With Laptop

LINE 1 RESULTS



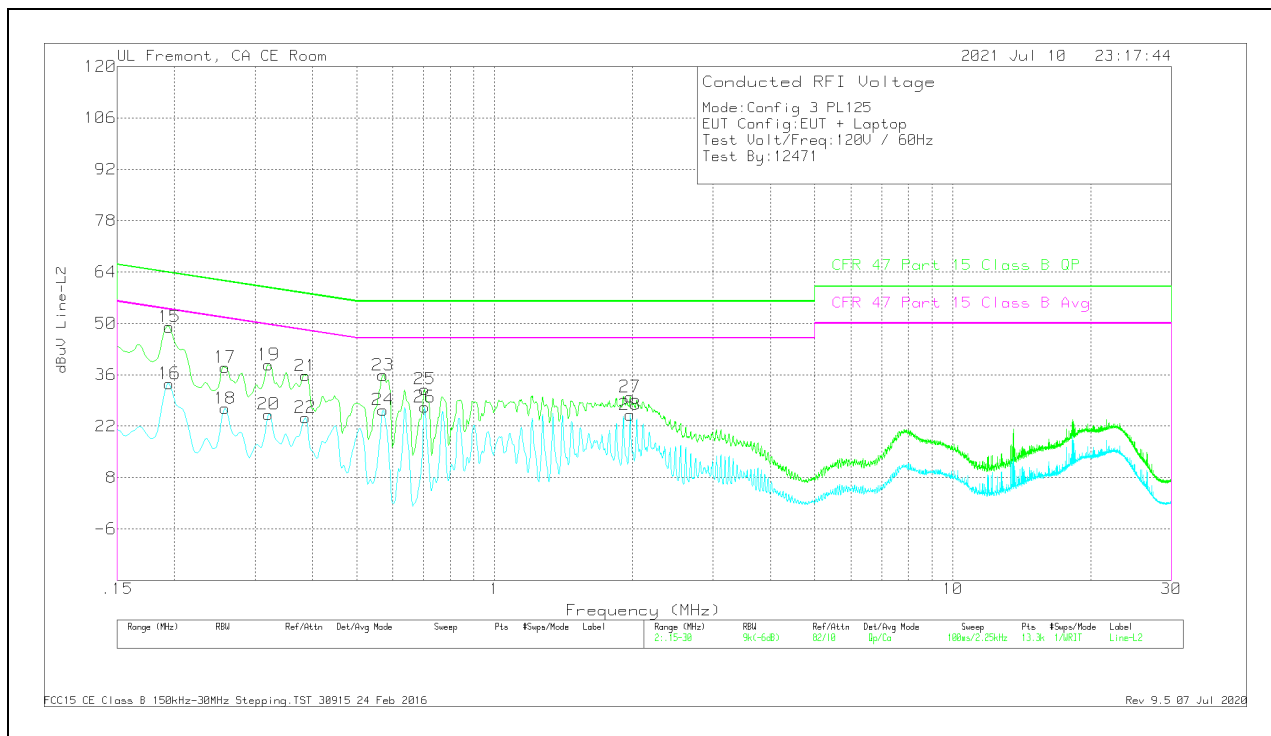
Range 1: Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
1	.19275	40.76	Qp	0	0	9.3	50.06	63.92	-13.86	-	-
2	.195	25.31	Ca	0	0	9.3	34.61	-	-	53.82	-19.21
3	.25575	29.58	Qp	0	0	9.3	38.88	61.57	-22.69	-	-
4	.25575	17.63	Ca	0	0	9.3	26.93	-	-	51.57	-24.64
5	.32325	29.95	Qp	0	0	9.3	39.25	59.62	-20.37	-	-
6	.32325	17.59	Ca	0	0	9.3	26.89	-	-	49.62	-22.73
7	.39075	27.41	Qp	0	0	9.3	36.71	58.05	-21.34	-	-
8	.39075	14	Ca	0	0	9.3	23.3	-	-	48.05	-24.75
9	.573	27.85	Qp	0	0	9.3	37.15	56	-18.85	-	-
10	.573	19.78	Ca	0	0	9.3	29.08	-	-	46	-16.92
11	.7035	24.19	Qp	0	0	9.3	33.49	56	-22.51	-	-
12	.7035	20.15	Ca	0	0	9.3	29.45	-	-	46	-16.55
13	1.27275	21.67	Qp	0	.1	9.3	31.07	56	-24.93	-	-
14	1.27275	17.09	Ca	0	.1	9.3	26.49	-	-	46	-19.51

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

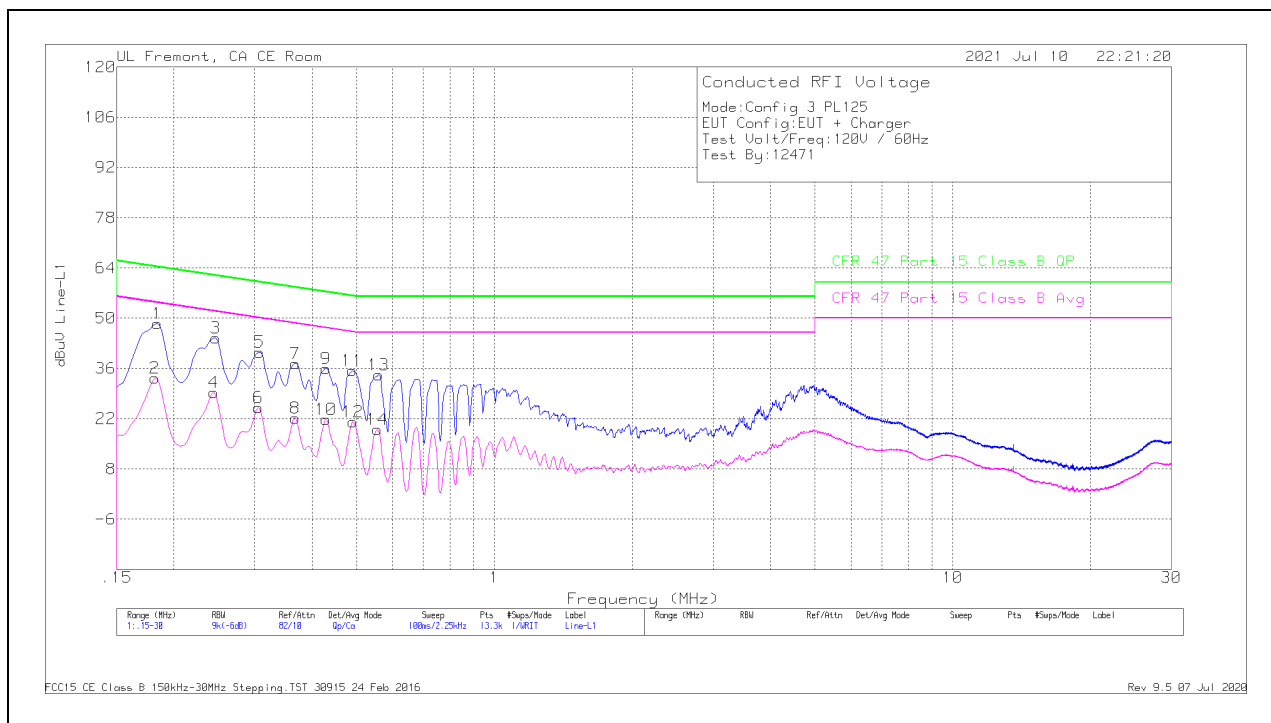
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
15	.195	39.76	Qp	0	0	9.3	49.06	63.82	-14.76	-	-
16	.195	24.31	Ca	0	0	9.3	33.61	-	-	53.82	-20.21
17	.258	28.73	Qp	0	0	9.3	38.03	61.5	-23.47	-	-
18	.258	17.56	Ca	0	0	9.3	26.86	-	-	51.5	-24.64
19	.321	29.42	Qp	0	0	9.3	38.72	59.68	-20.96	-	-
20	.321	15.94	Ca	0	0	9.3	25.24	-	-	49.68	-24.44
21	.38625	26.47	Qp	0	0	9.3	35.77	58.14	-22.37	-	-
22	.38625	15.06	Ca	0	0	9.3	24.36	-	-	48.14	-23.78
23	.57075	26.58	Qp	0	0	9.3	35.88	56	-20.12	-	-
24	.57075	17.13	Ca	0	0	9.3	26.43	-	-	46	-19.57
25	.7035	22.79	Qp	0	0	9.3	32.09	56	-23.91	-	-
26	.7035	17.92	Ca	0	0	9.3	27.22	-	-	46	-18.78
27	1.97475	20.6	Qp	0	.1	9.3	30	56	-26	-	-
28	1.97475	15.7	Ca	0	.1	9.3	25.1	-	-	46	-20.9

Qp - Quasi-Peak detector

Ca - CISPR average detection

9.7.2 AC Power Line With AC/DC Adapter

LINE 1 RESULTS



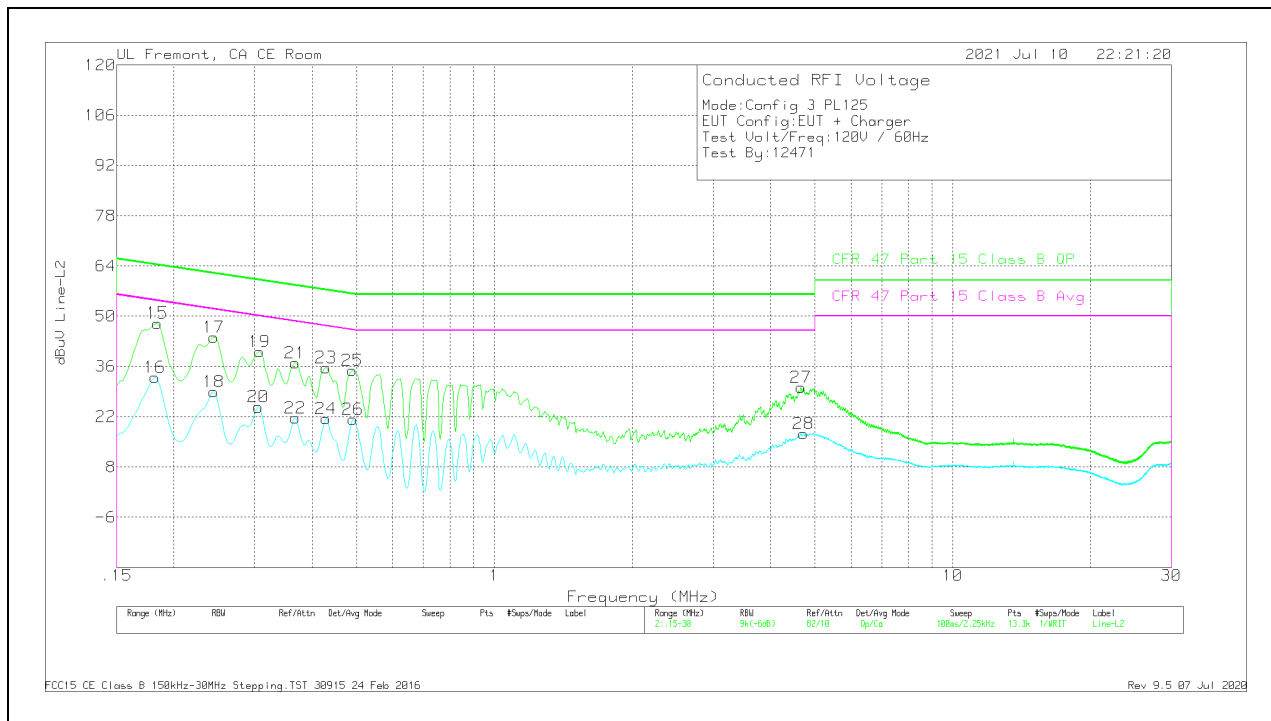
Range 1: Line-L1 15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
1	.18375	39.1	Qp	0	0	9.4	48.5	64.31	-15.81	-	-
2	.1815	23.88	Ca	0	0	9.4	33.28	-	-	54.42	-21.14
3	.24675	35.24	Qp	0	0	9.3	44.54	61.87	-17.33	-	-
4	.2445	19.99	Ca	0	0	9.3	29.29	-	-	51.94	-22.65
5	.3075	31.27	Qp	0	0	9.3	40.57	60.04	-19.47	-	-
6	.30525	15.78	Ca	0	0	9.3	25.08	-	-	50.1	-25.02
7	.36825	28.08	Qp	0	0	9.3	37.38	58.54	-21.16	-	-
8	.36825	12.91	Ca	0	0	9.3	22.21	-	-	48.54	-26.33
9	.429	26.69	Qp	0	0	9.3	35.99	57.27	-21.28	-	-
10	.429	12.45	Ca	0	0	9.3	21.75	-	-	47.27	-25.52
11	.48975	26.1	Qp	0	0	9.3	35.4	56.17	-20.77	-	-
12	.492	11.8	Ca	0	0	9.3	21.1	-	-	46.13	-25.03
13	.5595	24.92	Qp	0	0	9.3	34.22	56	-21.78	-	-
14	.555	9.65	Ca	0	0	9.3	18.95	-	-	46	-27.05

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L2	LC Cables C2&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
15	.18375	38.67	Qp	0	0	9.4	48.07	64.31	-16.24	-	-
16	.1815	23.55	Ca	0	0	9.4	32.95	-	-	54.42	-21.47
17	.2445	34.86	Qp	0	0	9.3	44.16	61.94	-17.78	-	-
18	.2445	19.63	Ca	0	0	9.3	28.93	-	-	51.94	-23.01
19	.3075	30.87	Qp	0	0	9.3	40.17	60.04	-19.87	-	-
20	.30525	15.4	Ca	0	0	9.3	24.7	-	-	50.1	-25.4
21	.36825	27.7	Qp	0	0	9.3	37	58.54	-21.54	-	-
22	.36825	12.33	Ca	0	0	9.3	21.63	-	-	48.54	-26.91
23	.429	26.38	Qp	0	0	9.3	35.68	57.27	-21.59	-	-
24	.429	12.15	Ca	0	0	9.3	21.45	-	-	47.27	-25.82
25	.48975	25.66	Qp	0	0	9.3	34.96	56.17	-21.21	-	-
26	.492	11.96	Ca	0	0	9.3	21.26	-	-	46.13	-24.87
27	4.66125	20.71	Qp	0	.1	9.3	30.11	56	-25.89	-	-
28	4.7265	7.92	Ca	0	.1	9.3	17.32	-	-	46	-28.68

Qp - Quasi-Peak detector

Ca - CISPR average detection

END OF REPORT

10 SETUP PHOTOS

Please refer to 13573777-EP21V1 for setup photos.