



FUNDAMENTAL AND HARMONICS

DATA SHEETS

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	38.42	V	73.97	-35.55	Peak	61.25	111.56	
4804.00	26.78	V	53.97	-27.19	Avg	61.25	111.56	
7206.00								N/A - Not in Restricted Band
7206.00								
9608.00								N/A - Not in Restricted Band
9608.00								
12010.00	47.49	V	73.97	-26.48	Peak	86.75	191.50	
12010.00	35.73	V	53.97	-18.24	Avg	86.75	191.50	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247Universal Electronics, Inc.
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Model: TSTATCCEWF-01Date: 12/11/2023
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Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	38.30	H	73.97	-35.67	Peak	201.50	191.32	
4804.00	26.56	H	53.97	-27.41	Avg	201.50	191.32	
7206.00								N/A - Not in Restricted
7206.00								Band
9608.00								N/A - Not in Restricted
9608.00								Band
12010.00	47.86	H	73.97	-26.11	Peak	105.00	223.38	
12010.00	35.71	H	53.97	-18.26	Avg	105.00	223.38	
14412.00								No Emission
14412.00								Detected
16814.00								No Emission
16814.00								Detected
19216.00								No Emission
19216.00								Detected
21618.00								No Emission
21618.00								Detected
24020.00								No Emission
24020.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - Middle Channel - Unit 4
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	37.75	V	73.97	-36.22	Peak	103.50	223.32	
4880.00	26.32	V	53.97	-27.65	Avg	103.50	223.32	
7320.00	45.33	V	73.97	-28.64	Peak	105.00	191.14	
7320.00	33.12	V	53.97	-20.85	Avg	105.00	191.14	
9760.00								N/A - Not in Restricted Band
9760.00								
12200.00	47.78	V	73.97	-26.19	Peak	145.25	239.20	
12200.00	36.08	V	53.97	-17.89	Avg	145.25	239.20	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	38.30	H	73.97	-35.67	Peak	353.75	111.32	
4880.00	26.35	H	53.97	-27.62	Avg	353.75	111.32	
7320.00	45.17	H	73.97	-28.80	Peak	186.50	111.50	
7320.00	33.12	H	53.97	-20.85	Avg	186.50	111.50	
9760.00								N/A - Not in Restricted Band
9760.00								
12200.00	47.97	H	73.97	-26.00	Peak	88.00	143.44	
12200.00	36.03	H	53.97	-17.94	Avg	88.00	143.44	
14640.00								No Emission Detected
14640.00								
17080.00								No Emission Detected
17080.00								
19520.00								No Emission Detected
19520.00								
21960.00								No Emission Detected
21960.00								
24400.00								No Emission Detected
24400.00								

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	38.28	V	73.97	-35.69	Peak	187.00	127.08	
4960.00	26.27	V	53.97	-27.70	Avg	187.00	127.08	
7440.00	45.04	V	73.97	-28.93	Peak	151.50	223.50	
7440.00	32.81	V	53.97	-21.16	Avg	151.50	223.50	
9920.00								N/A - Not in Restricted
9920.00								Band
12400.00	48.85	V	73.97	-25.12	Peak	50.75	191.14	
12400.00	36.86	V	53.97	-17.11	Avg	50.75	191.14	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 1MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	38.23	H	73.97	-35.74	Peak	37.50	143.44	
4960.00	26.12	H	53.97	-27.85	Avg	37.50	143.44	
7440.00	44.79	H	73.97	-29.18	Peak	95.50	207.62	
7440.00	32.82	H	53.97	-21.15	Avg	95.50	207.62	
9920.00								N/A - Not in Restricted Band
9920.00								
12400.00	48.60	H	73.97	-25.37	Peak	135.25	249.95	
12400.00	36.92	H	53.97	-17.05	Avg	135.25	249.95	
14880.00								No Emission Detected
14880.00								
17360.00								No Emission Detected
17360.00								
19840.00								No Emission Detected
19840.00								
22320.00								No Emission Detected
22320.00								
24800.00								No Emission Detected
24800.00								

FCC 15.247 and RSS-247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz
Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz
BLE Mode – 1 Mbit – Unit 4

[illegible]

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	38.85	V	73.97	-35.12	Peak	235.75	143.46	
4804.00	26.40	V	53.97	-27.57	Avg	235.75	143.46	
7206.00								N/A - Not in Restricted
7206.00								Band
9608.00								N/A - Not in Restricted
9608.00								Band
12010.00	47.65	V	73.97	-26.32	Peak	24.25	111.16	
12010.00	35.42	V	53.97	-18.55	Avg	24.25	111.16	
14412.00								No Emission
14412.00								Detected
16814.00								No Emission
16814.00								Detected
19216.00								No Emission
19216.00								Detected
21618.00								No Emission
21618.00								Detected
24020.00								No Emission
24020.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	38.71	H	73.97	-35.26	Peak	123.50	127.10	
4804.00	26.44	H	53.97	-27.53	Avg	123.50	127.10	
7206.00								N/A - Not in Restricted
7206.00								Band
9608.00								N/A - Not in Restricted
9608.00								Band
12010.00	46.96	H	73.97	-27.01	Peak	29.00	175.40	
12010.00	35.47	H	53.97	-18.50	Avg	29.00	175.40	
14412.00								No Emission
14412.00								Detected
16814.00								No Emission
16814.00								Detected
19216.00								No Emission
19216.00								Detected
21618.00								No Emission
21618.00								Detected
24020.00								No Emission
24020.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	37.70	V	73.97	-36.27	Peak	285.00	126.80	
4880.00	25.99	V	53.97	-27.98	Avg	285.00	126.80	
7320.00	44.76	V	73.97	-29.21	Peak	226.25	111.82	
7320.00	32.90	V	53.97	-21.07	Avg	226.25	111.82	
9760.00								N/A - Not in Restricted Band
9760.00								
12200.00	47.76	V	73.97	-26.21	Peak	344.00	239.76	
12200.00	35.75	V	53.97	-18.22	Avg	344.00	239.76	
14640.00								No Emission Detected
14640.00								
17080.00								No Emission Detected
17080.00								
19520.00								No Emission Detected
19520.00								
21960.00								No Emission Detected
21960.00								
24400.00								No Emission Detected
24400.00								

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	37.80	H	73.97	-36.17	Peak	236.00	143.22	
4880.00	25.97	H	53.97	-28.00	Avg	236.00	143.22	
7320.00	44.57	H	73.97	-29.40	Peak	161.50	160.05	
7320.00	32.83	H	53.97	-21.14	Avg	161.50	160.05	
9760.00								N/A - Not in Restricted
9760.00								Band
12200.00	47.35	H	73.97	-26.62	Peak	297.50	206.98	
12200.00	35.75	H	53.97	-18.22	Avg	297.50	206.98	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

Universal Electronics, Inc.
 Carrier Entry Level and ICP Thermostat 2024
 Model: TSTATCCEWF-01

Date: 12/11/2023
 Lab: D
 Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	38.95	V	73.97	-35.02	Peak	270.00	111.94	
4960.00	25.99	V	53.97	-27.98	Avg	270.00	111.94	
7440.00	44.31	V	73.97	-29.66	Peak	173.00	128.00	
7440.00	32.44	V	53.97	-21.53	Avg	173.00	128.00	
9920.00								N/A - Not in Restricted Band
9920.00								
12400.00	48.20	V	73.97	-25.77	Peak	63.00	160.00	
12400.00	36.44	V	53.97	-17.53	Avg	63.00	160.00	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

Universal Electronics, Inc.
 Carrier Entry Level and ICP Thermostat 2024
 Model: TSTATCCEWF-01

Date: 12/11/2023
 Lab: D
 Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4
Transmit Mode - Y-Axis - BLE Mode
Power Level 0x23 - 2MBit

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	38.86	H	73.97	-35.11	Peak	266.50	127.70	
4960.00	25.93	H	53.97	-28.04	Avg	266.50	127.70	
7440.00	44.40	H	73.97	-29.57	Peak	36.75	193.75	
7440.00	32.39	H	53.97	-21.58	Avg	36.75	193.75	
9920.00								N/A - Not in Restricted Band
9920.00								
12400.00	49.05	H	73.97	-24.92	Peak	98.00	110.68	
12400.00	36.70	H	53.97	-17.27	Avg	98.00	110.68	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247 and RSS-247

Universal Electronics, Inc.

Carrier Entry Level and ICP Thermostat 2024

Model: TSTATCCEWF-01

Date: 12/11/2023

Lab: D

Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz

Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz

BLE Mode – 2 Mbit – Unit 4

[illegible]

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	46.35	V	73.97	-27.62	Peak	198.25	143.64	
4824.00	27.35	V	53.97	-26.62	Avg	198.25	143.64	
7236.00	49.70	V	73.97	-24.27	Peak	315.00	249.08	
7236.00	43.28	V	53.97	-10.69	Avg	351.00	249.08	
9648.00								N/A - Not in Restricted
9648.00								Band
12060.00	47.75	V	73.97	-26.22	Peak	217.25	111.28	
12060.00	36.04	V	53.97	-17.93	Avg	217.25	111.28	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	39.78	H	73.97	-34.19	Peak	70.75	176.65	
4824.00	30.01	H	53.97	-23.96	Avg	70.75	176.65	
7236.00	47.72	H	73.97	-26.25	Peak	38.50	127.70	
7236.00	38.28	H	53.97	-15.69	Avg	38.50	127.70	
9648.00								N/A - Not in Restricted
9648.00								Band
12060.00	48.03	H	73.97	-25.94	Peak	272.00	143.10	
12060.00	35.89	H	53.97	-18.08	Avg	22.00	143.10	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	38.26	V	73.97	-35.71	Peak	169.00	127.52	
4874.00	27.15	V	53.97	-26.82	Avg	169.00	127.52	
7311.00	50.38	V	73.97	-23.59	Peak	331.50	127.52	
7311.00	42.31	V	53.97	-11.66	Avg	331.50	127.52	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.27	V	73.97	-26.70	Peak	31.00	208.35	
12185.00	35.61	V	53.97	-18.36	Avg	31.00	208.35	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	38.35	H	73.97	-35.62	Peak	194.25	159.76	
4874.00	26.30	H	53.97	-27.67	Avg	194.25	159.76	
7311.00	49.59	H	73.97	-24.38	Peak	117.50	191.40	
7311.00	42.36	H	53.97	-11.61	Avg	117.50	191.40	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	48.24	H	73.97	-25.73	Peak	293.00	158.92	
12185.00	35.78	H	53.97	-18.19	Avg	293.00	158.92	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	43.80	V	73.97	-30.17	Peak	322.50	127.40	
4924.00	37.22	V	53.97	-16.75	Avg	322.50	127.40	
7386.00	49.75	V	73.97	-24.22	Peak	330.25	111.46	
7386.00	40.61	V	53.97	-13.36	Avg	330.25	111.46	
9848.00								N/A - Not in Restricted
9848.00								Band
12310.00	47.42	V	73.97	-26.55	Peak	145.25	127.76	
12310.00	35.64	V	53.97	-18.33	Avg	145.25	127.76	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 b - Power Setting 102**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	45.12	H	73.97	-28.85	Peak	84.50	224.71	
4924.00	40.65	H	53.97	-13.32	Avg	84.50	224.71	
7386.00	48.47	H	73.97	-25.50	Peak	348.00	111.28	
7386.00	39.85	H	53.97	-14.12	Avg	348.00	111.28	
9848.00								N/A - Not in Restricted
9848.00								Band
12310.00	47.61	H	73.97	-26.36	Peak	72.00	158.92	
12310.00	35.63	H	53.97	-18.34	Avg	72.00	158.92	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247 and RSS-247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz
Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz
802.11 b Mode – Unit 4

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
								No Emissions Detected
								from 9 kHz to 30 MHz
								for the digital portion
								of the EUT
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the digital portion
								of the EUT
								No Emissions Detected
								from 9 kHz to 30 MHz
								for the Non-Harmonic Emissions
								of the Transmitter for the EUT
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the Non-Harmonic Emissions
								of the Transmitter for the EUT
								Investigated at the Low channel,
								Middle channel, and High channel

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	39.20	V	73.97	-34.77	Peak	80.50	111.68	
4824.00	26.74	V	53.97	-27.23	Avg	80.50	111.68	
7236.00	46.40	V	73.97	-27.57	Peak	330.50	191.44	
7236.00	34.69	V	53.97	-19.28	Avg	330.50	191.44	
9648.00								N/A - Not in Restricted
9648.00								Band
12060.00	47.88	V	73.97	-26.09	Peak	250.25	249.01	
12060.00	36.24	V	53.97	-17.73	Avg	250.25	249.01	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Unit 4

Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	39.03	H	73.97	-34.94	Peak	105.00	124.21	
4824.00	26.48	H	53.97	-27.49	Avg	105.00	124.21	
7236.00	47.24	H	73.97	-26.73	Peak	0.00	127.26	
7236.00	34.56	H	53.97	-19.41	Avg	0.00	127.26	
9648.00								N/A - Not in Restricted
9648.00								Band
12060.00	48.27	H	73.97	-25.70	Peak	151.75	127.44	
12060.00	36.21	H	53.97	-17.76	Avg	151.75	127.44	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	39.43	V	73.97	-34.54	Peak	205.25	159.32	
4874.00	27.42	V	53.97	-26.55	Avg	205.25	159.32	
7311.00	52.62	V	73.97	-21.35	Peak	75.25	143.50	
7311.00	38.06	V	53.97	-15.91	Avg	75.25	143.50	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.34	V	73.97	-26.63	Peak	171.25	159.32	
12185.00	35.72	V	53.97	-18.25	Avg	171.25	159.32	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	39.74	H	73.97	-34.23	Peak	197.00	175.62	
4874.00	27.49	H	53.97	-26.48	Avg	197.00	175.62	
7311.00	48.01	H	73.97	-25.96	Peak	37.75	111.38	
7311.00	35.41	H	53.97	-18.56	Avg	37.75	111.38	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.69	H	73.97	-26.28	Peak	0.00	126.91	
12185.00	35.69	H	53.97	-18.28	Avg	0.00	126.91	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	38.90	V	73.97	-35.07	Peak	328.00	223.26	
4924.00	26.92	V	53.97	-27.05	Avg	328.00	223.26	
7386.00	52.07	V	73.97	-21.90	Peak	323.25	223.20	
7386.00	38.73	V	53.97	-15.24	Avg	323.25	223.20	
9848.00								N/A - Not in Restricted
9848.00								Band
12310.00	47.36	V	73.97	-26.61	Peak	121.25	111.26	
12310.00	35.52	V	53.97	-18.45	Avg	121.25	111.26	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/20/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4
Transmit Mode - Y-Axis - 802.11g - Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	39.41	H	73.97	-34.56	Peak	337.75	159.26	
4924.00	27.10	H	53.97	-26.87	Avg	337.75	159.26	
7386.00	50.64	H	73.97	-23.33	Peak	27.25	111.38	
7386.00	36.90	H	53.97	-17.07	Avg	27.25	111.38	
9848.00								N/A - Not in Restricted
9848.00								Band
12310.00	47.38	H	73.97	-26.59	Peak	252.00	110.73	
12310.00	35.57	H	53.97	-18.40	Avg	252.00	110.73	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247 and RSS-247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/12/2023
Lab: D
Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz
Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz
802.11 b Mode – Unit 4

[illegible]

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - Low Channel - Unit 4

Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	41.30	V	73.97	-32.67	Peak	255.25	223.76	
4824.00	27.72	V	53.97	-26.25	Avg	255.25	223.76	
7236.00	47.77	V	73.97	-26.20	Peak	96.50	223.46	
7236.00	34.17	V	53.97	-19.80	Avg	96.50	223.46	
9648.00								N/A - Not in Restricted Band
9648.00								
12060.00	48.16	V	73.97	-25.81	Peak	92.50	224.65	
12060.00	35.97	V	53.97	-18.00	Avg	92.50	224.65	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4824.00	39.64	H	73.97	-34.33	Peak	24.00	143.58	
4824.00	26.86	H	53.97	-27.11	Avg	24.00	143.58	
7236.00	45.67	H	73.97	-28.30	Peak	218.25	249.02	
7236.00	33.73	H	53.97	-20.24	Avg	218.25	249.02	
9648.00								N/A - Not in Restricted
9648.00								Band
12060.00	48.33	H	73.97	-25.64	Peak	217.75	126.32	
12060.00	36.02	H	53.97	-17.95	Avg	217.75	126.32	
14472.00								No Emission
14472.00								Detected
16884.00								No Emission
16884.00								Detected
19296.00								No Emission
19296.00								Detected
21708.00								No Emission
21708.00								Detected
24120.00								No Emission
24120.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - Middle Channel - Unit 4
Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	38.81	V	73.97	-35.16	Peak	357.00	142.86	
4874.00	26.74	V	53.97	-27.23	Avg	357.00	142.86	
7311.00	54.07	V	73.97	-19.90	Peak	66.50	111.58	
7311.00	39.19	V	53.97	-14.78	Avg	66.50	111.58	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.35	V	73.97	-26.62	Peak	70.75	222.86	
12185.00	35.73	V	53.97	-18.24	Avg	70.75	222.86	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	59.79	H	73.97	-14.18	Peak	206.75	249.14	
4874.00	42.63	H	53.97	-11.34	Avg	206.75	249.14	
7311.00	46.23	H	73.97	-27.74	Peak	185.00	238.74	
7311.00	33.40	H	53.97	-20.57	Avg	185.00	238.74	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.33	H	73.97	-26.64	Peak	39.00	175.52	
12185.00	35.69	H	53.97	-18.28	Avg	39.00	175.52	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4
Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 88

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	39.04	V	73.97	-34.93	Peak	327.50	249.08	
4924.00	26.57	V	53.97	-27.40	Avg	327.50	249.08	
7386.00	49.66	V	73.97	-24.31	Peak	309.50	222.86	
7386.00	36.96	V	53.97	-17.01	Avg	309.50	222.86	
9848.00								N/A - Not in Restricted
9848.00								Band
12310.00	47.36	V	73.97	-26.61	Peak	109.50	174.98	
12310.00	35.56	V	53.97	-18.41	Avg	109.50	174.98	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11n - 20 MHz
Power Level 88

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4924.00	38.59	H	73.97	-35.38	Peak	243.00	159.34	
4924.00	26.67	H	53.97	-27.30	Avg	243.00	159.34	
7386.00	47.17	H	73.97	-26.80	Peak	20.00	111.46	
7386.00	35.20	H	53.97	-18.77	Avg	20.00	111.46	
9848.00								N/A - Not in Restricted Band
9848.00								
12310.00	47.67	H	73.97	-26.30	Peak	145.00	207.10	
12310.00	35.53	H	53.97	-18.44	Avg	145.00	207.10	
14772.00								No Emission
14772.00								Detected
17234.00								No Emission
17234.00								Detected
19696.00								No Emission
19696.00								Detected
22158.00								No Emission
22158.00								Detected
24620.00								No Emission
24620.00								Detected

FCC 15.247 and RSS-247

Universal Electronics, Inc.

Carrier Entry Level and ICP Thermostat 2024

Model: TSTATCEWF-01

Date: 12/12/2023

Lab: D

Tested By: Kyle Fujimoto

Non Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz

Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz

802.11 n Mode – 20 MHz – Unit 4

[illegible]

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz**
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4844.00	40.20	V	73.97	-33.77	Peak	252.25	239.10	
4844.00	27.75	V	53.97	-26.22	Avg	252.25	239.10	
7266.00	46.35	V	73.97	-27.62	Peak	73.25	223.46	
7266.00	34.42	V	53.97	-19.55	Avg	73.25	223.46	
9688.00								N/A - Not in Restricted Band
9688.00								
12110.00	47.51	V	73.97	-26.46	Peak	166.00	239.28	
12110.00	35.36	V	53.97	-18.61	Avg	166.00	239.28	
14532.00								No Emission
14532.00								Detected
16954.00								No Emission
16954.00								Detected
19376.00								No Emission
19376.00								Detected
21798.00								No Emission
21798.00								Detected
24220.00								No Emission
24220.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Low Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz**
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4844.00	39.16	H	73.97	-34.81	Peak	234.00	142.98	
4844.00	27.12	H	53.97	-26.85	Avg	234.00	142.98	
7266.00	46.60	H	73.97	-27.37	Peak	234.25	111.52	
7266.00	34.38	H	53.97	-19.59	Avg	234.25	111.52	
9688.00								N/A - Not in Restricted Band
9688.00								
12110.00	48.01	H	73.97	-25.96	Peak	47.50	238.80	
12110.00	35.44	H	53.97	-18.53	Avg	47.50	238.80	
14532.00								No Emission
14532.00								Detected
16954.00								No Emission
16954.00								Detected
19376.00								No Emission
19376.00								Detected
21798.00								No Emission
21798.00								Detected
24220.00								No Emission
24220.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	38.73	V	73.97	-35.24	Peak	90.75	223.28	
4874.00	26.84	V	53.97	-27.13	Avg	90.75	223.28	
7311.00	47.16	V	73.97	-26.81	Peak	298.00	175.10	
7311.00	34.14	V	53.97	-19.83	Avg	298.00	175.10	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.29	V	73.97	-26.68	Peak	12.00	238.08	
12185.00	35.57	V	53.97	-18.40	Avg	12.00	238.08	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - Middle Channel - Unit 4****Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz****Power Level 92**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4874.00	38.53	H	73.97	-35.44	Peak	65.25	143.34	
4874.00	26.39	H	53.97	-27.58	Avg	65.25	143.34	
7311.00	45.52	H	73.97	-28.45	Peak	347.75	127.46	
7311.00	33.77	H	53.97	-20.20	Avg	347.75	127.46	
9748.00								N/A - Not in Restricted
9748.00								Band
12185.00	47.34	H	73.97	-26.63	Peak	2.00	110.68	
12185.00	35.62	H	53.97	-18.35	Avg	2.00	110.68	
14622.00								No Emission
14622.00								Detected
17059.00								No Emission
17059.00								Detected
19496.00								No Emission
19496.00								Detected
21933.00								No Emission
21933.00								Detected
24370.00								No Emission
24370.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4

Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz

Power Level 88

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4904.00	38.28	V	73.97	-35.69	Peak	170.50	127.28	
4904.00	26.80	V	53.97	-27.17	Avg	170.50	127.28	
7356.00	47.43	V	73.97	-26.54	Peak	64.50	143.82	
7356.00	36.00	V	53.97	-17.97	Avg	64.50	143.82	
9808.00								N/A - Not in Restricted Band
9808.00								
12260.00	47.49	V	73.97	-26.48	Peak	168.50	159.46	
12260.00	35.68	V	53.97	-18.29	Avg	168.50	159.46	
14712.00								No Emission
14712.00								Detected
17164.00								No Emission
17164.00								Detected
19616.00								No Emission
19616.00								Detected
22068.00								No Emission
22068.00								Detected
24520.00								No Emission
24520.00								Detected

FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto

Harmonics - High Channel - Unit 4
Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz
Power Level 88

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4904.00	38.61	H	73.97	-35.36	Peak	75.00	143.40	
4904.00	26.79	H	53.97	-27.18	Avg	75.00	143.40	
7356.00	45.89	H	73.97	-28.08	Peak	14.75	111.28	
7356.00	33.88	H	53.97	-20.09	Avg	14.75	111.28	
9808.00								N/A - Not in Restricted Band
9808.00								
12260.00	47.62	H	73.97	-26.35	Peak	231.25	111.46	
12260.00	35.69	H	53.97	-18.28	Avg	231.25	111.46	
14712.00								No Emission
14712.00								Detected
17164.00								No Emission
17164.00								Detected
19616.00								No Emission
19616.00								Detected
22068.00								No Emission
22068.00								Detected
24520.00								No Emission
24520.00								Detected

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/11/2023
Lab: D
Tested By: Kyle Fujimoto**Harmonics - High Channel - Unit 4**
Transmit Mode - Y-Axis - 802.11 n Mode - 40 MHz
Power Level 88

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4904.00	38.61	H	73.97	-35.36	Peak	75.00	143.40	
4904.00	26.79	H	53.97	-27.18	Avg	75.00	143.40	
7356.00	45.89	H	73.97	-28.08	Peak	14.75	111.28	
7356.00	33.88	H	53.97	-20.09	Avg	14.75	111.28	
9808.00								N/A - Not in Restricted
9808.00								Band
12260.00	47.62	H	73.97	-26.35	Peak	231.25	111.46	
12260.00	35.69	H	53.97	-18.28	Avg	231.25	111.46	
14712.00								No Emission
14712.00								Detected
17164.00								No Emission
17164.00								Detected
19616.00								No Emission
19616.00								Detected
22068.00								No Emission
22068.00								Detected
24520.00								No Emission
24520.00								Detected

FCC 15.247 and RSS-247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/12/2023
Lab: D
Tested By: Kyle FujimotoNon Harmonic Emissions from the Tx and Digital Portion - 9 kHz to 30 MHz
Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz
802.11 n Mode – 40 MHz – Unit 4

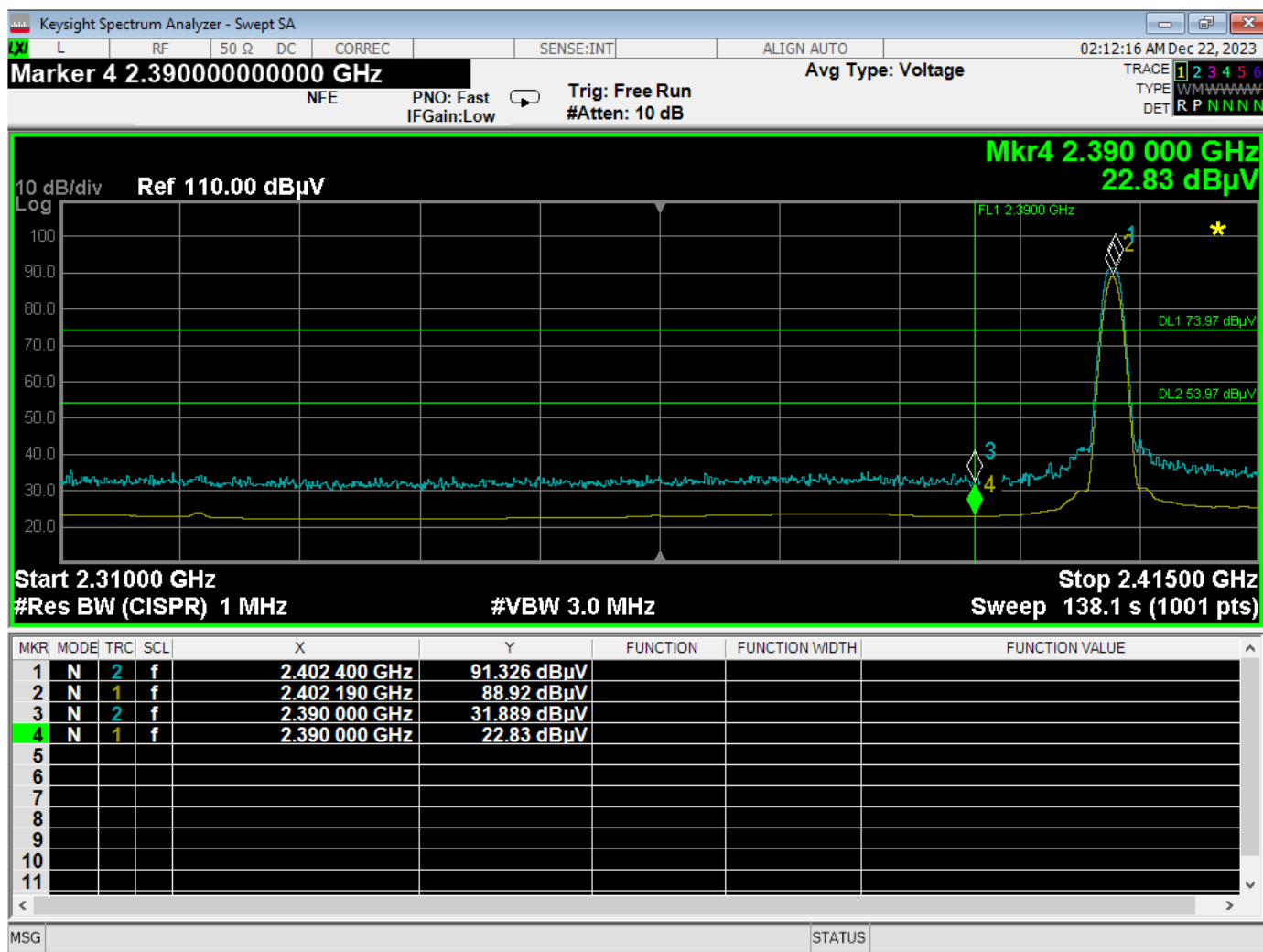
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
								No Emissions Detected
								from 9 kHz to 30 MHz
								for the digital portion
								of the EUT
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the digital portion
								of the EUT
								No Emissions Detected
								from 9 kHz to 30 MHz
								for the Non-Harmonic Emissions
								of the Transmitter for the EUT
								No Emissions Detected
								from 1 GHz to 25 GHz
								for the Non-Harmonic Emissions
								of the Transmitter for the EUT
								Investigated at the Low channel,
								Middle channel, and High channel



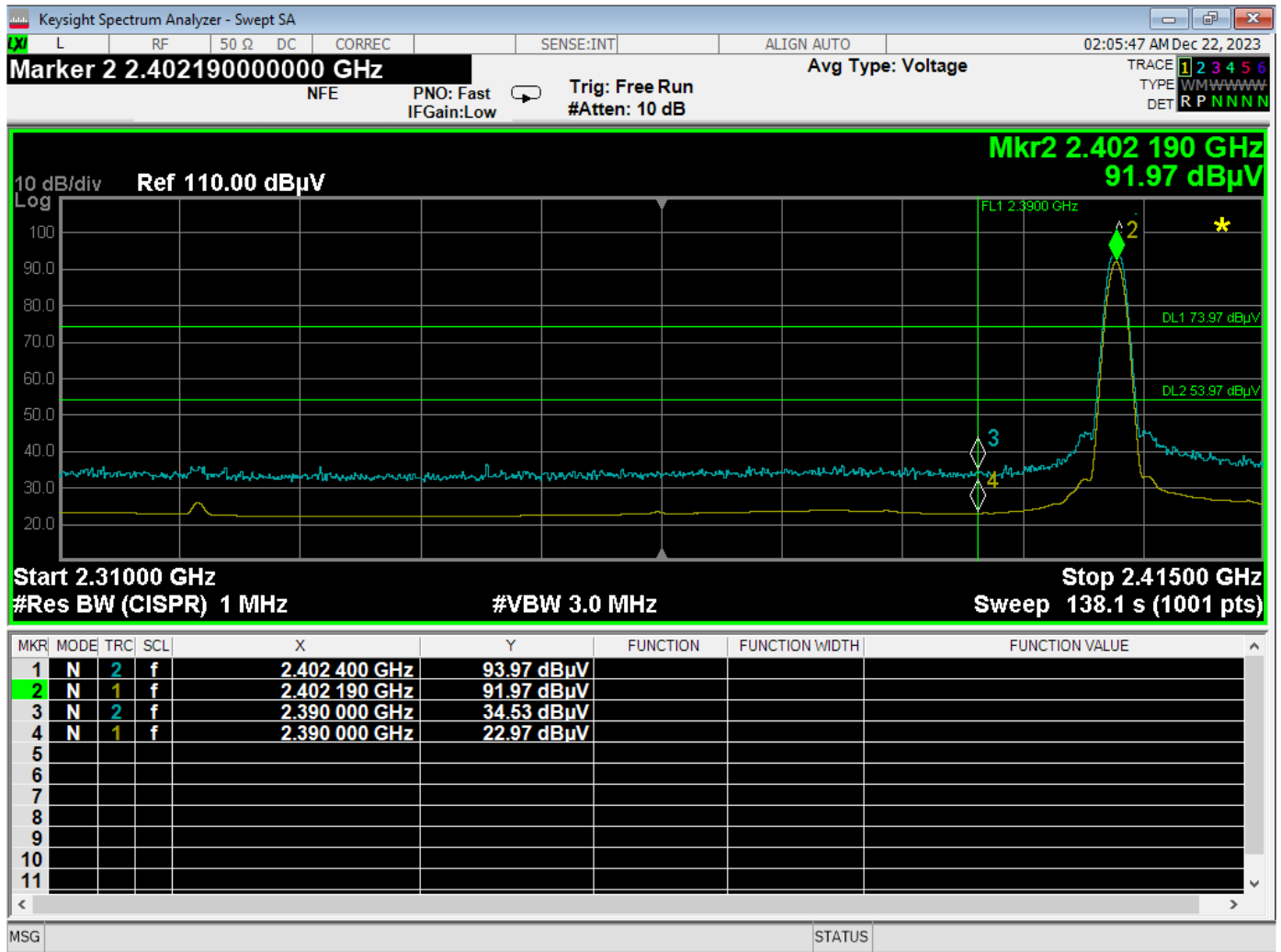
***BAND EDGE
DATA SHEETS***

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/22/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - BLE - Unit 4****Power Level: 0x23 - 1 Mbit**

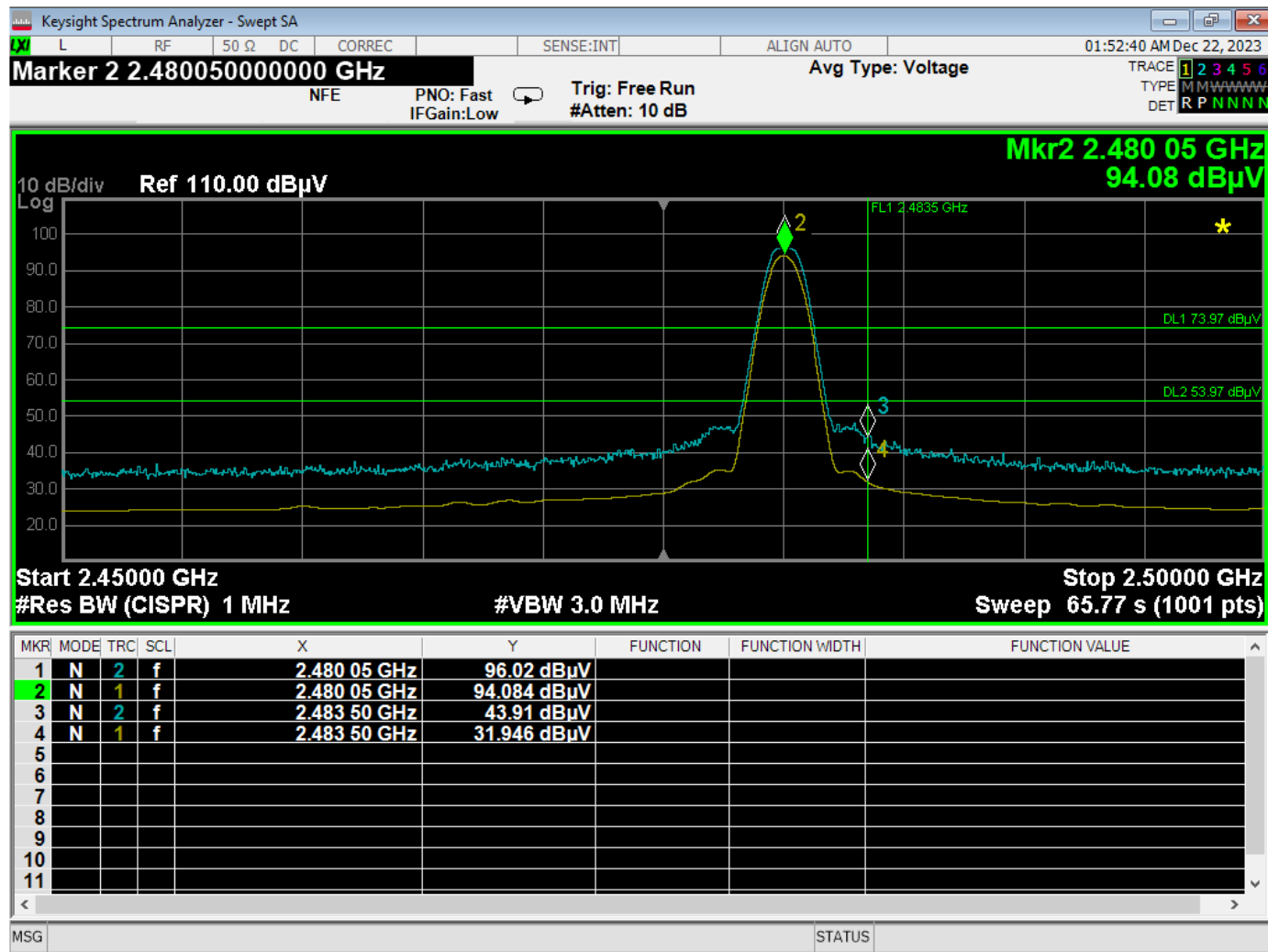
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2402.00	91.33	H	--	--	Peak	25.50	149.53	Fundamental - Low Ch.
2402.00	88.92	H	--	--	Avg	25.50	149.53	Y-Axis - Worst Case
2390.00	31.89	H	73.97	-42.08	Peak	25.50	149.53	Band Edge
2390.00	22.83	H	53.97	-31.14	Avg	25.50	149.53	Y-Axis - Worst Case
2402.00	93.97	V	--	--	Peak	252.50	143.14	Fundamental - Low Ch.
2402.00	91.97	V	--	--	Avg	252.50	143.14	Y-Axis - Worst Case
2390.00	34.53	V	73.97	-39.44	Peak	252.50	143.14	Band Edge
2390.00	22.97	V	53.97	-31.00	Avg	252.50	143.14	Y-Axis - Worst Case



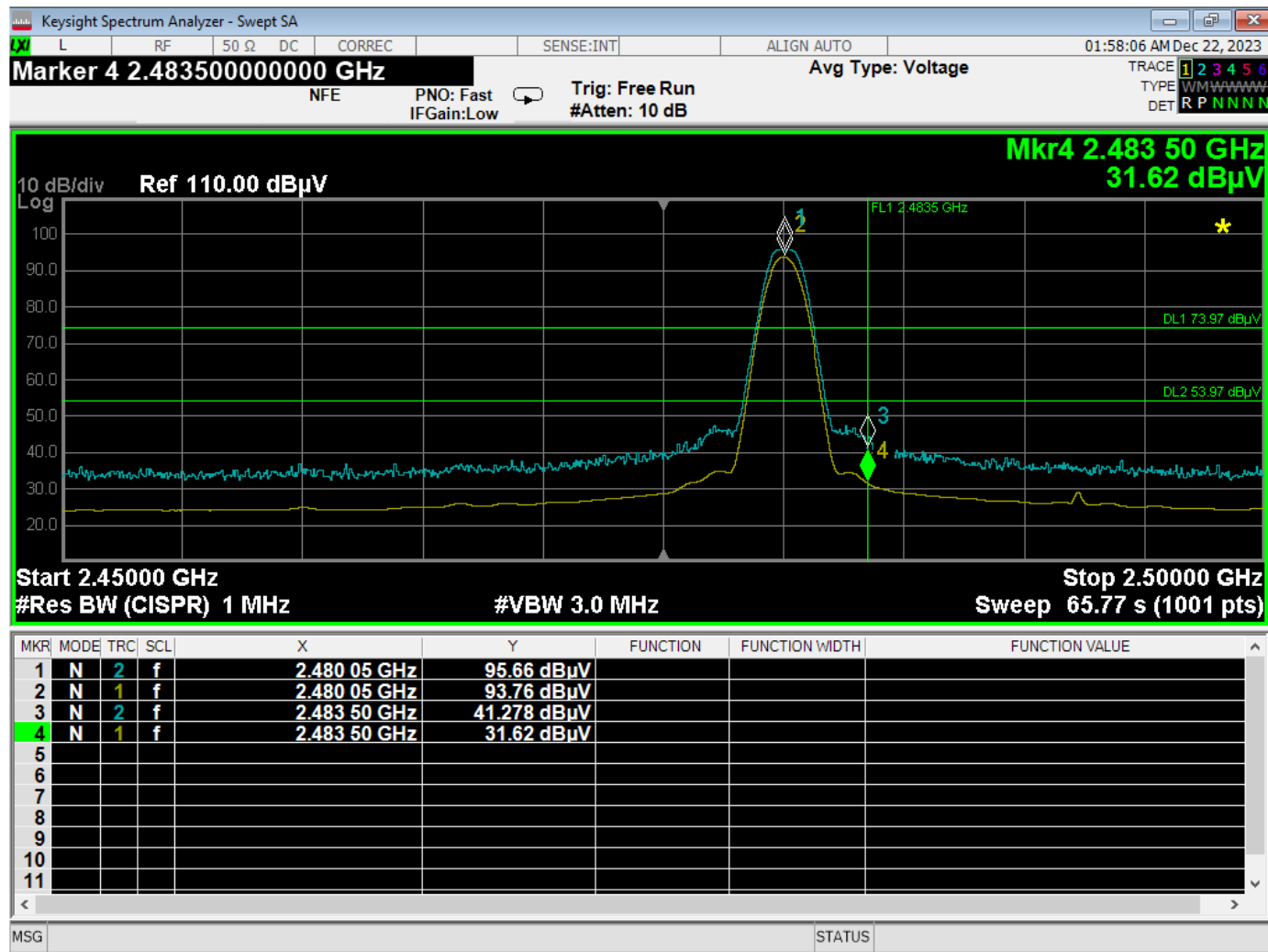
Band Edge – Low Channel – Horizontal Polarization – BLE Mode – 1 MBit



Band Edge – Low Channel – Vertical Polarization – BLE Mode – 1 Mbit



Band Edge – High Channel – Horizontal Polarization – BLE Mode – 1 MBit



Band Edge – High Channel – Vertical Polarization – BLE Mode – 1 Mbit

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - BLE - Unit 4****Power Level: 0x23 - 2 Mbit**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2402.00	97.54	H	--	--	Peak	198.00	158.20	Fundamental - Low Ch.
2402.00	92.23	H	--	--	Avg	198.00	158.20	Y-Axis - Worst Case
2390.00	51.09	H	73.97	-22.88	Peak	198.00	158.20	Band Edge
2390.00	27.05	H	53.97	-26.92	Avg	198.00	158.20	Y-Axis - Worst Case
2402.00	98.27	V	--	--	Peak	82.00	149.55	Fundamental - Low Ch.
2402.00	92.73	V	--	--	Avg	82.00	149.55	Y-Axis - Worst Case
2390.00	51.85	V	73.97	-22.12	Peak	82.00	149.55	Band Edge
2390.00	27.11	V	53.97	-26.86	Avg	82.00	149.55	Y-Axis - Worst Case

FCC 15.247

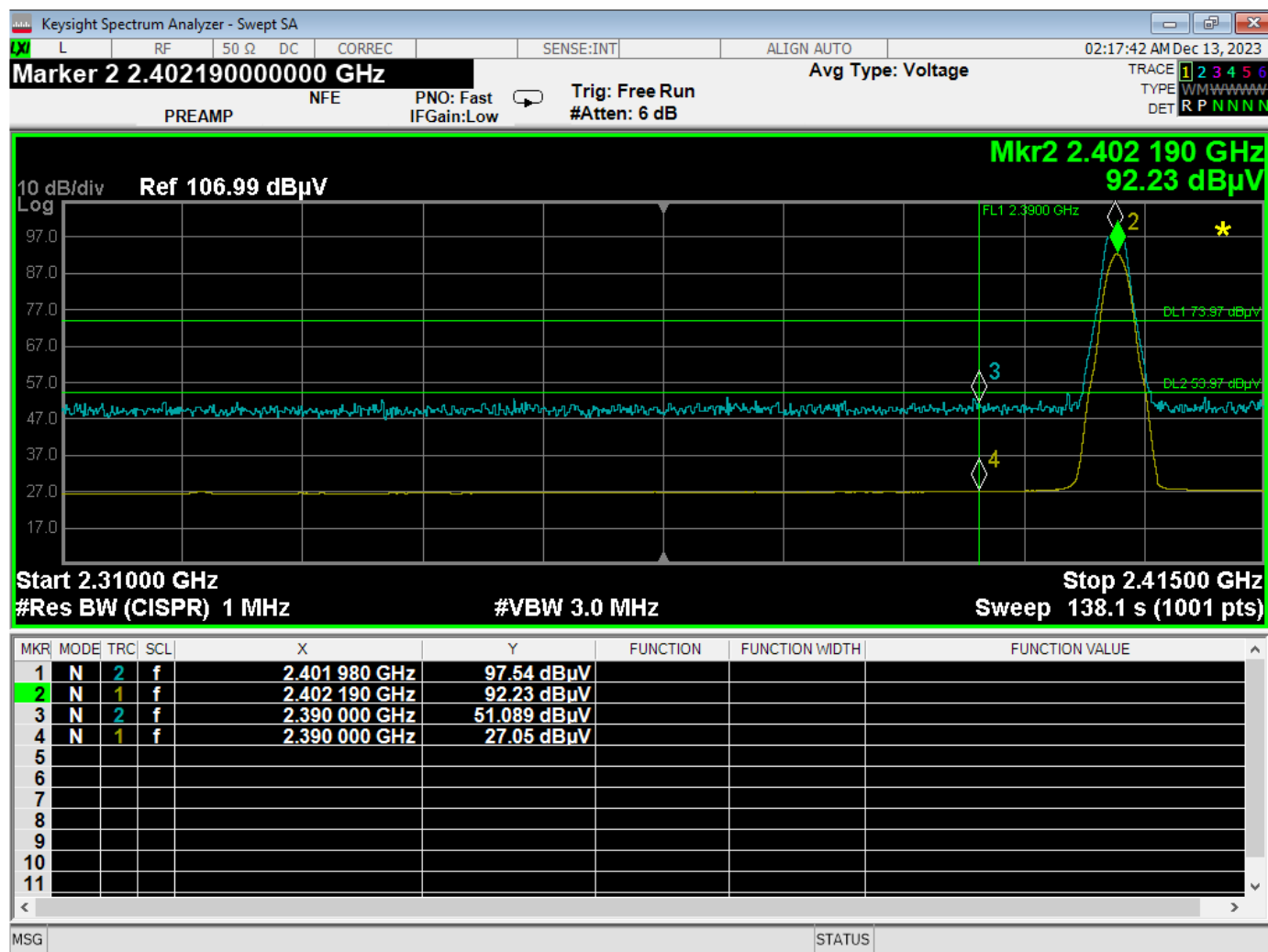
Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto

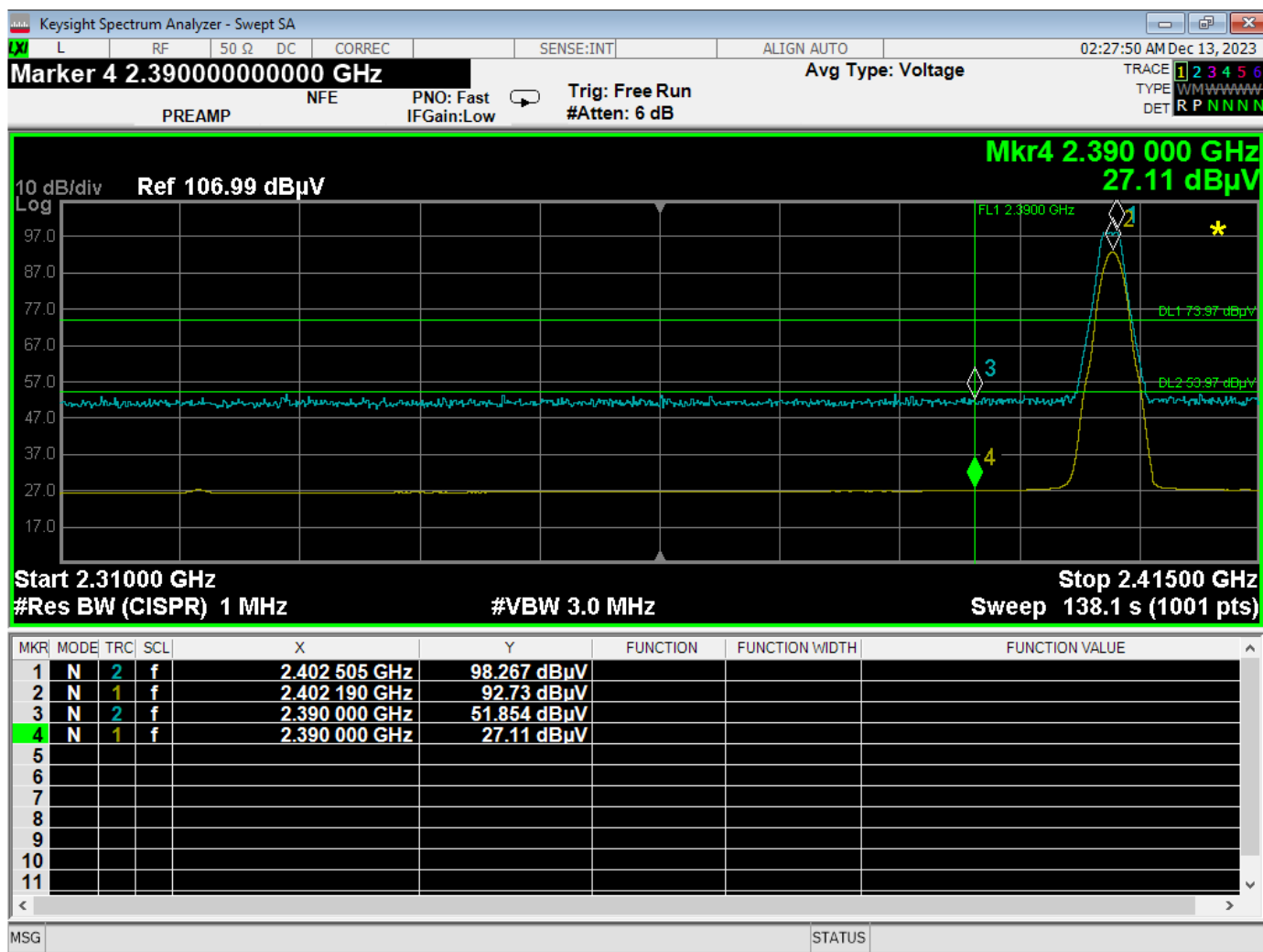
Band Edges - BLE - Unit 4

Power Level: 0x23 - 2 Mbit

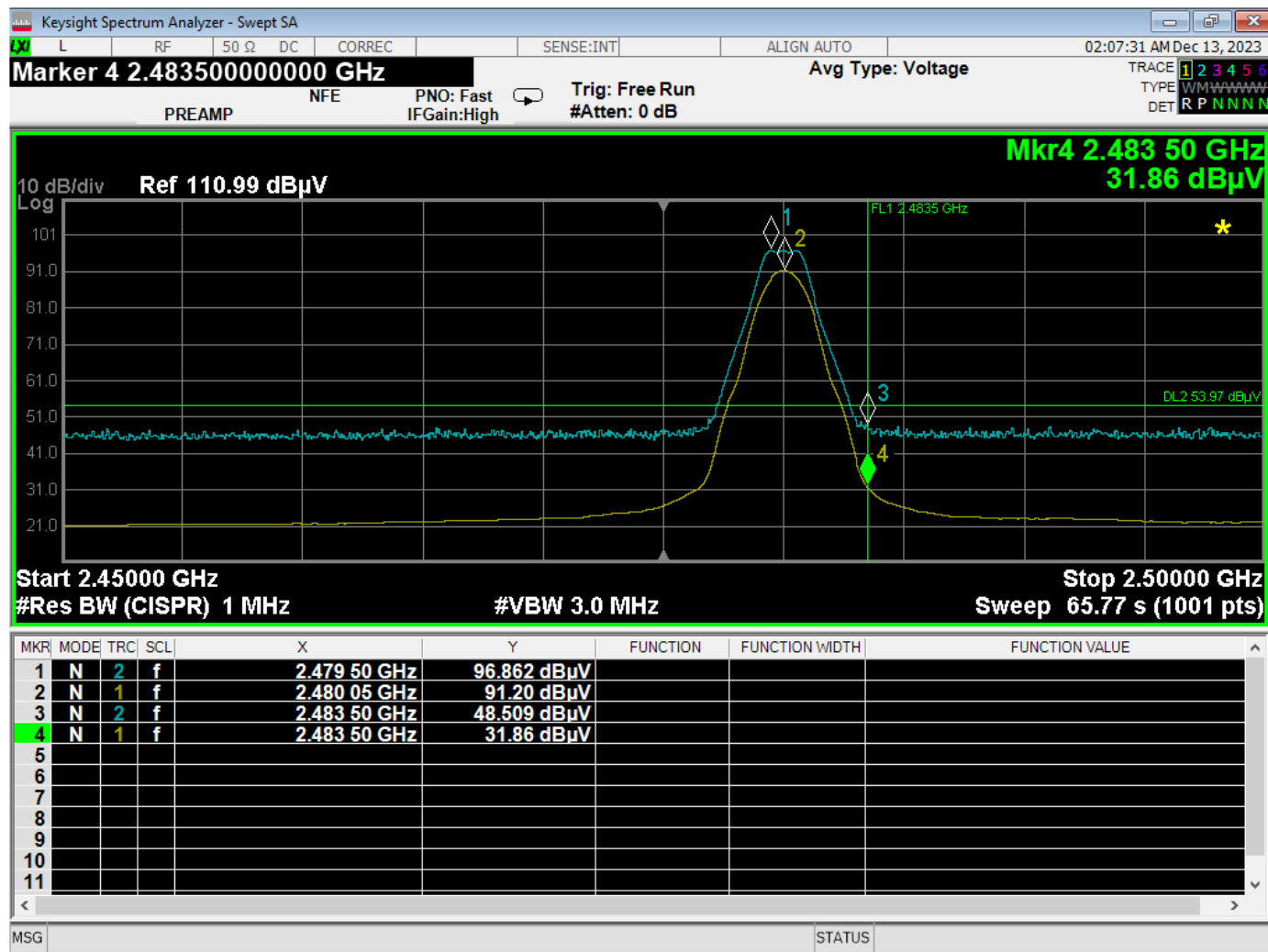
[illegible]



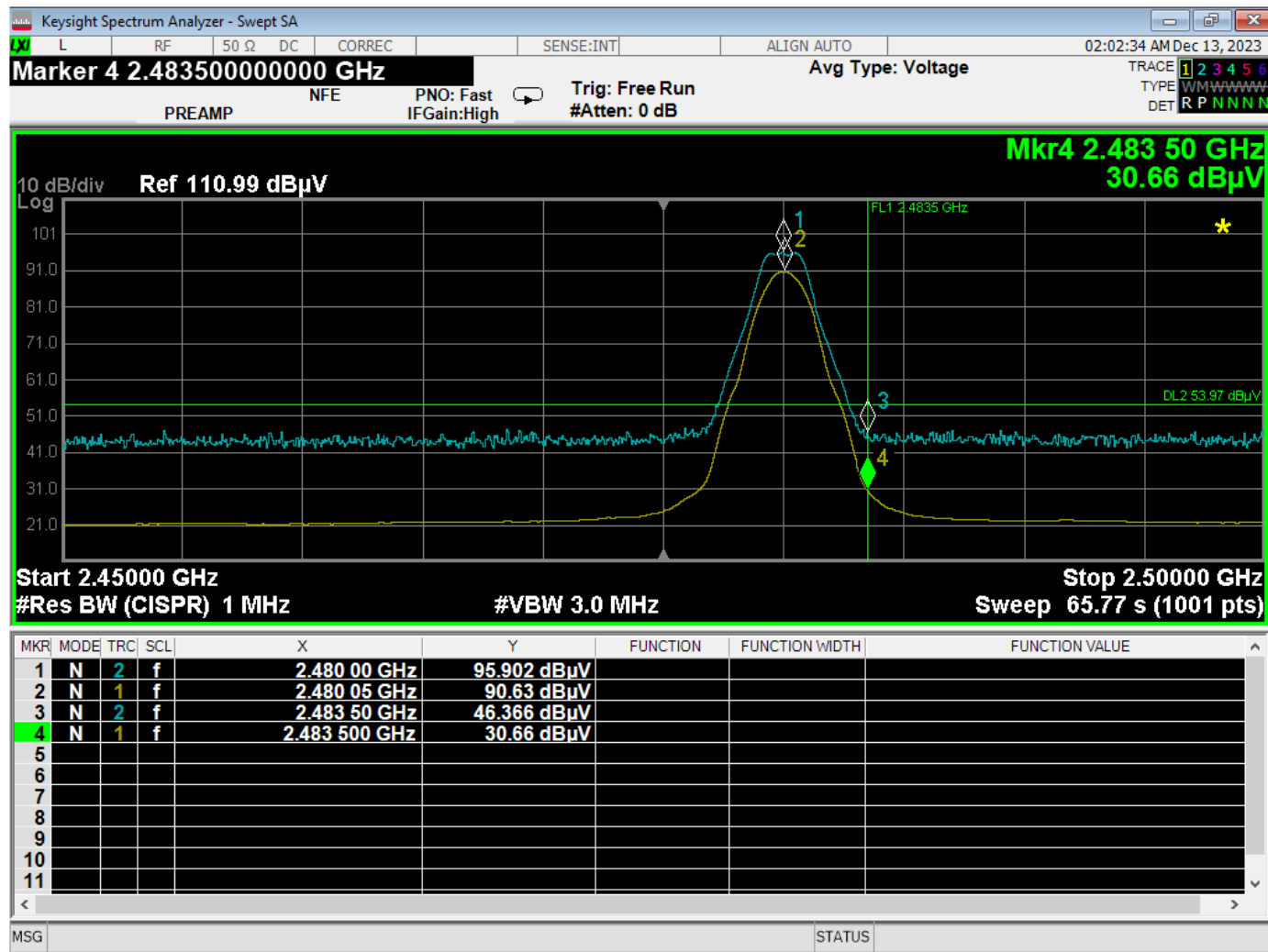
Band Edge – Low Channel – Horizontal Polarization – BLE Mode – 2 MBit



Band Edge – Low Channel – Vertical Polarization – BLE Mode – 2 MBit



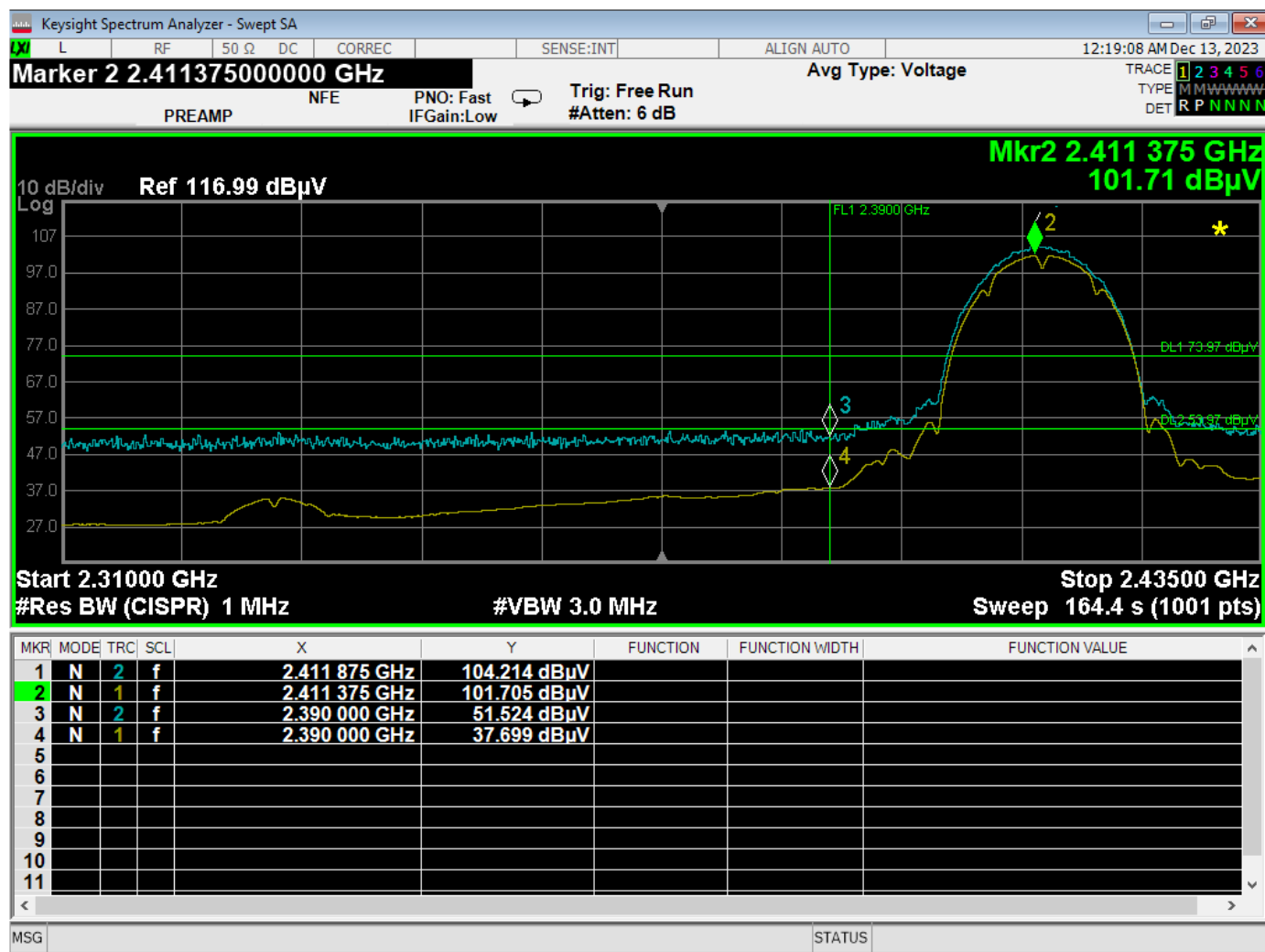
Band Edge – High Channel – Horizontal Polarization – BLE Mode – 2 MBit



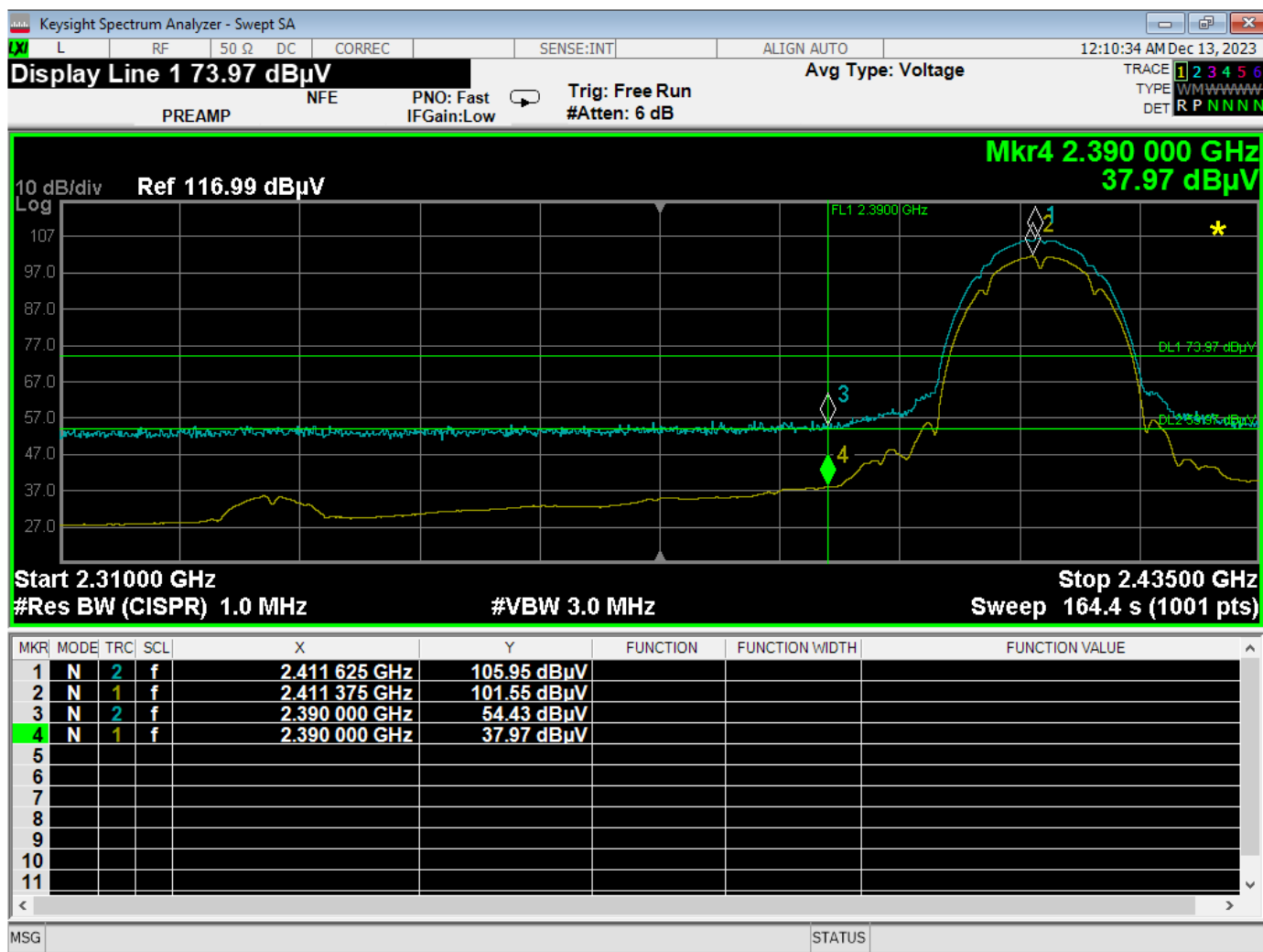
Band Edge – High Channel – Vertical Polarization – 802.11 b Mode – 1 Mbit

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - 802.11b - Unit 4 - Power Setting 102**

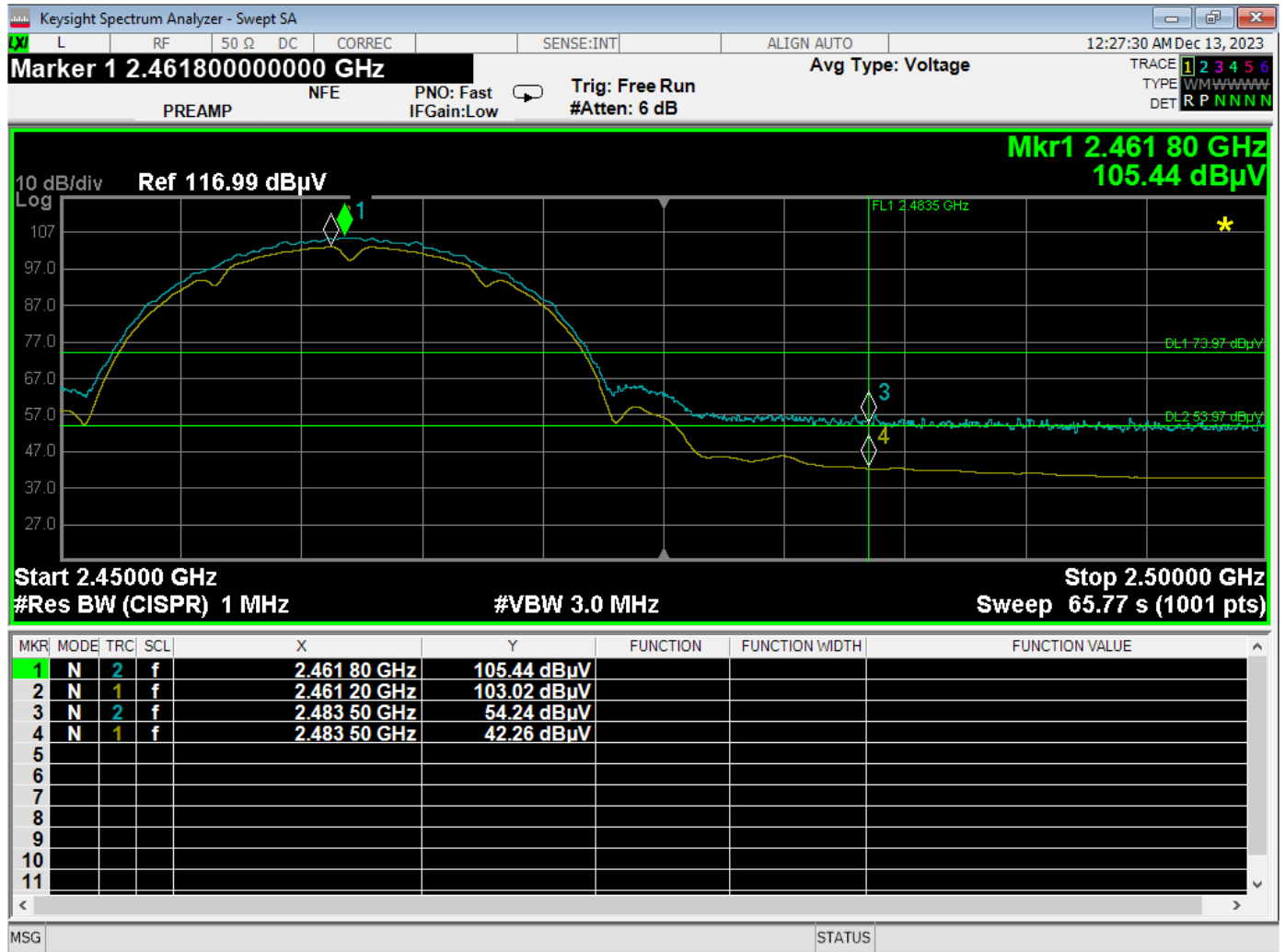
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2412.00	104.21	H	--	--	Peak	191.25	122.86	Fundamental - Low Ch.
2412.00	101.71	H	--	--	Avg	191.25	122.86	Y-Axis - Worst Case
2390.00	51.52	H	73.97	-22.45	Peak	191.25	122.86	Band Edge
2390.00	37.70	H	53.97	-16.27	Avg	191.25	122.86	Y-Axis - Worst Case
2412.00	105.95	V	--	--	Peak	69.75	131.34	Fundamental - Low Ch.
2412.00	101.55	V	--	--	Avg	69.75	131.34	Y-Axis - Worst Case
2390.00	54.43	V	73.97	-19.54	Peak	69.75	131.34	Band Edge
2390.00	37.97	V	53.97	-16.00	Avg	69.75	131.34	Y-Axis - Worst Case



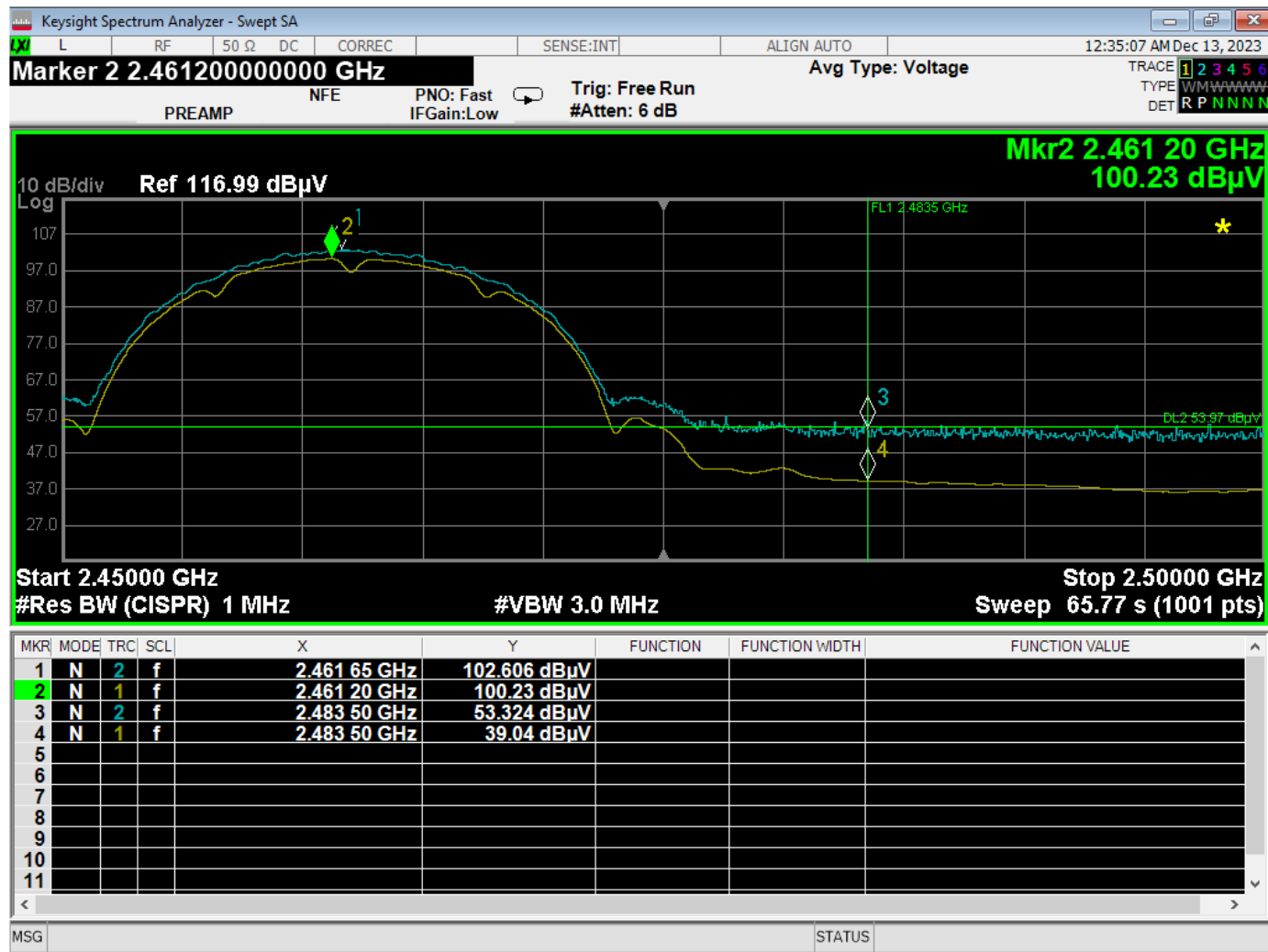
Band Edge – Low Channel – Horizontal Polarization – 802.11b Mode



Band Edge – Low Channel – Vertical Polarization – 802.11b Mode



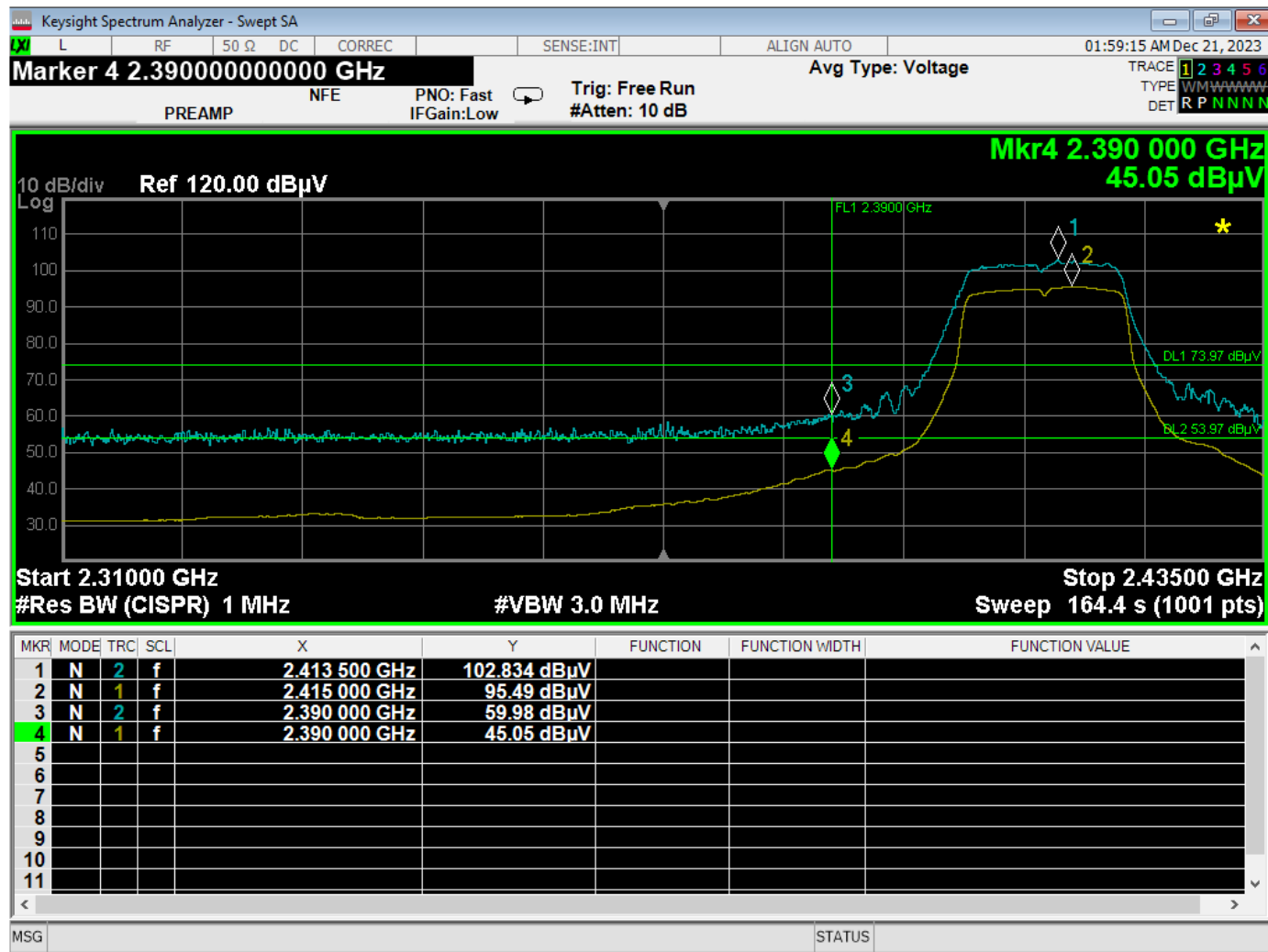
Band Edge – High Channel – Horizontal Polarization – 802.11b Mode



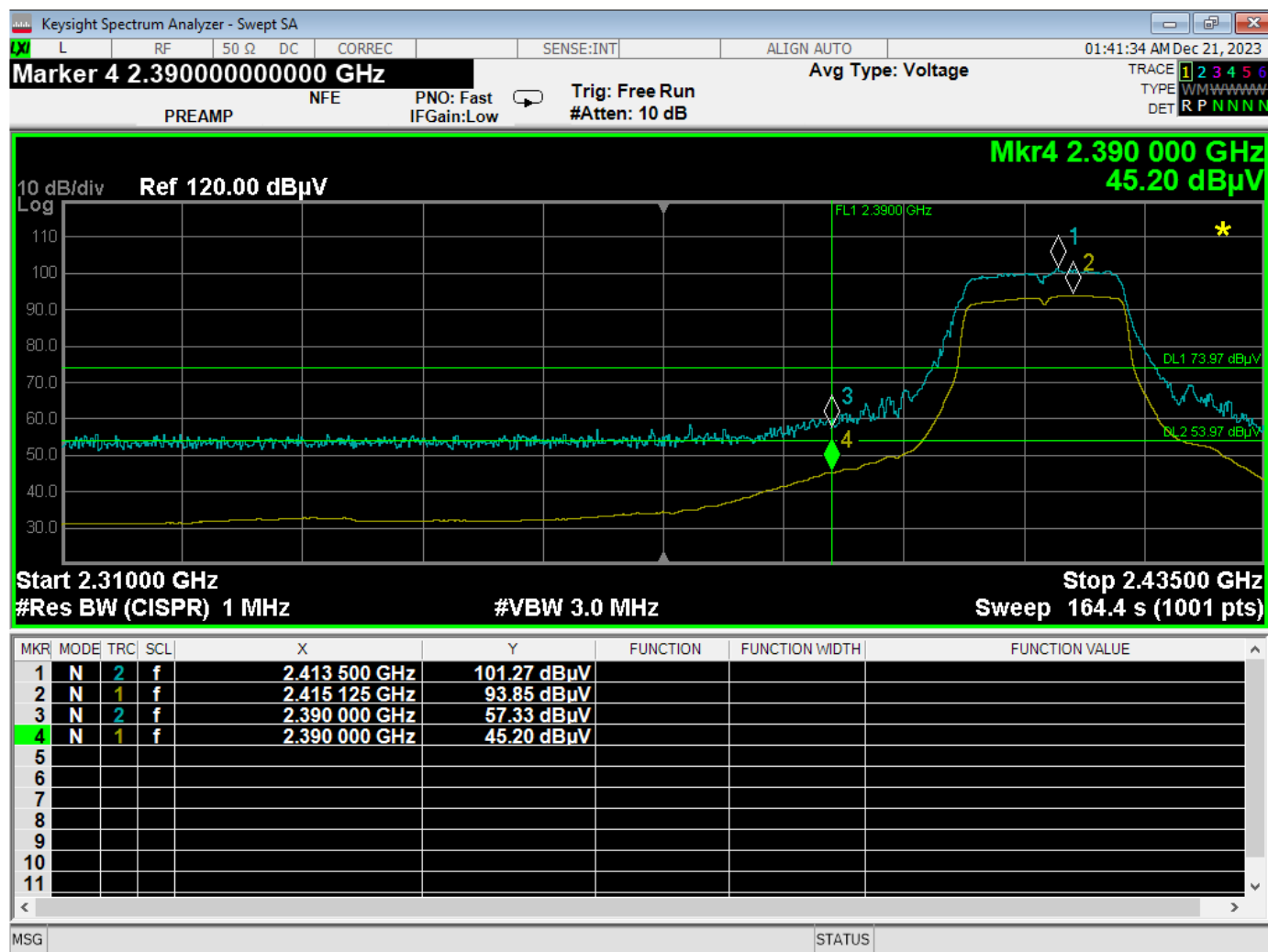
Band Edge – High Channel – Vertical Polarization – 802.11b Mode

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/21/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - 802.11g - Unit 4 - Power Level 92**

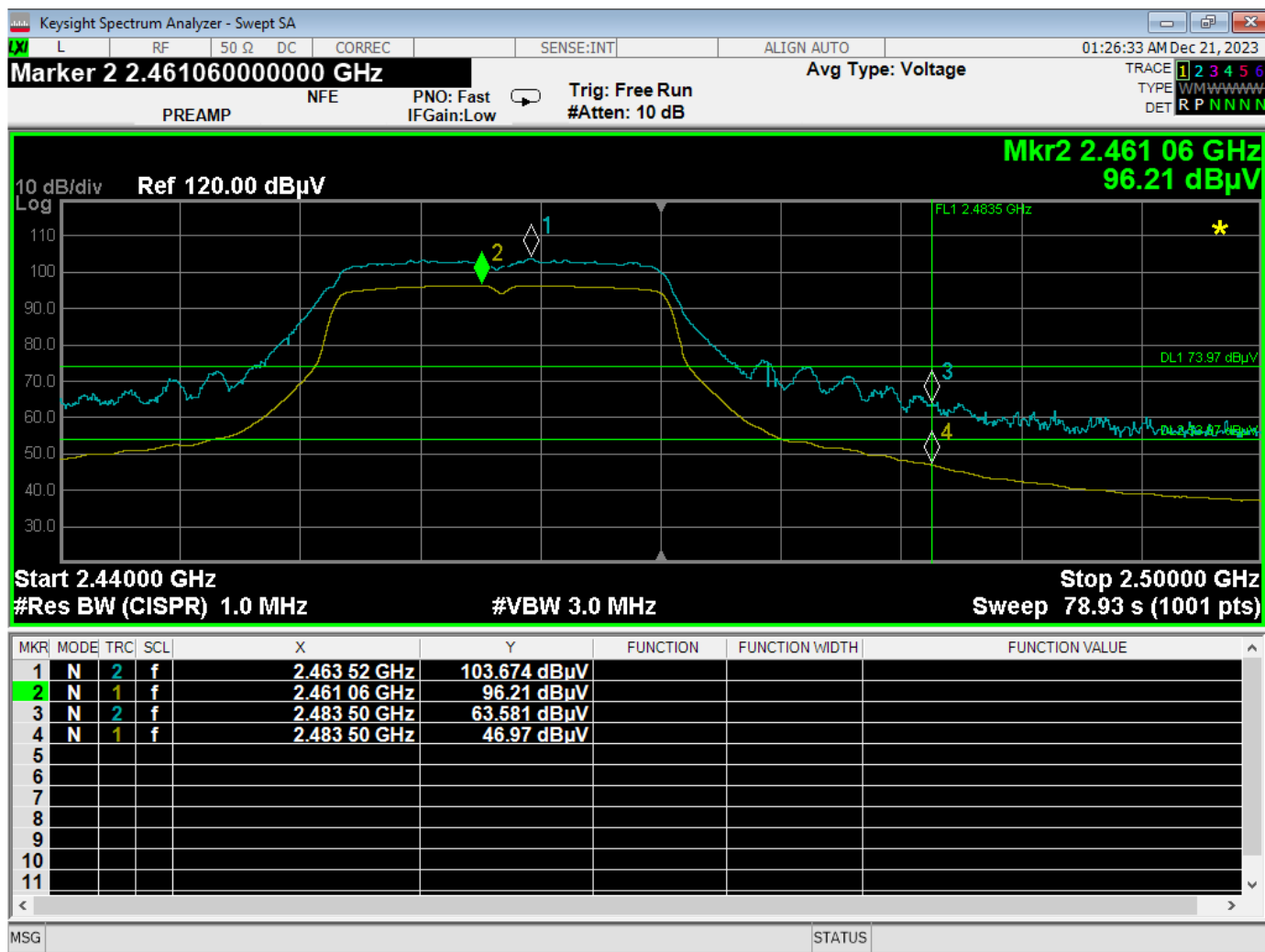
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2412.00	102.83	H	--	--	Peak	204.25	135.56	Fundamental - Low Ch.
2412.00	95.49	H	--	--	Avg	204.25	135.56	Y-Axis - Worst Case
2390.00	59.98	H	73.97	-13.99	Peak	204.25	135.56	Band Edge
2390.00	45.06	H	53.97	-8.91	Avg	204.25	135.56	Y-Axis - Worst Case
2412.00	101.27	V	--	--	Peak	273.00	216.40	Fundamental - Low Ch.
2412.00	93.85	V	--	--	Avg	273.00	216.40	Y-Axis - Worst Case
2390.00	57.33	V	73.97	-16.64	Peak	273.00	216.40	Band Edge
2390.00	45.20	V	53.97	-8.77	Avg	273.00	216.40	Y-Axis - Worst Case



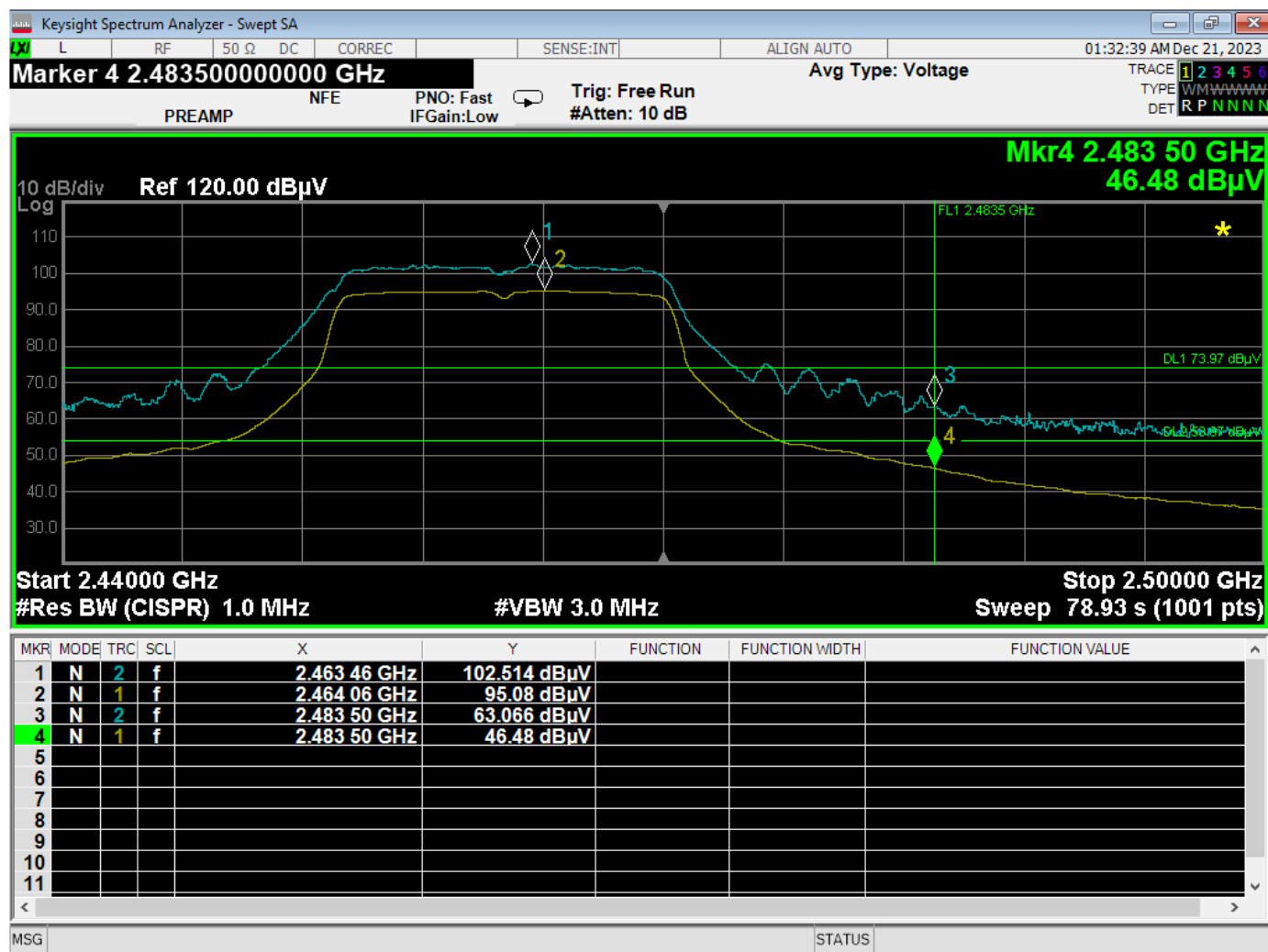
Band Edge – Low Channel – Horizontal Polarization – 802.11g Mode



Band Edge – Low Channel – Vertical Polarization – 802.11g Mode



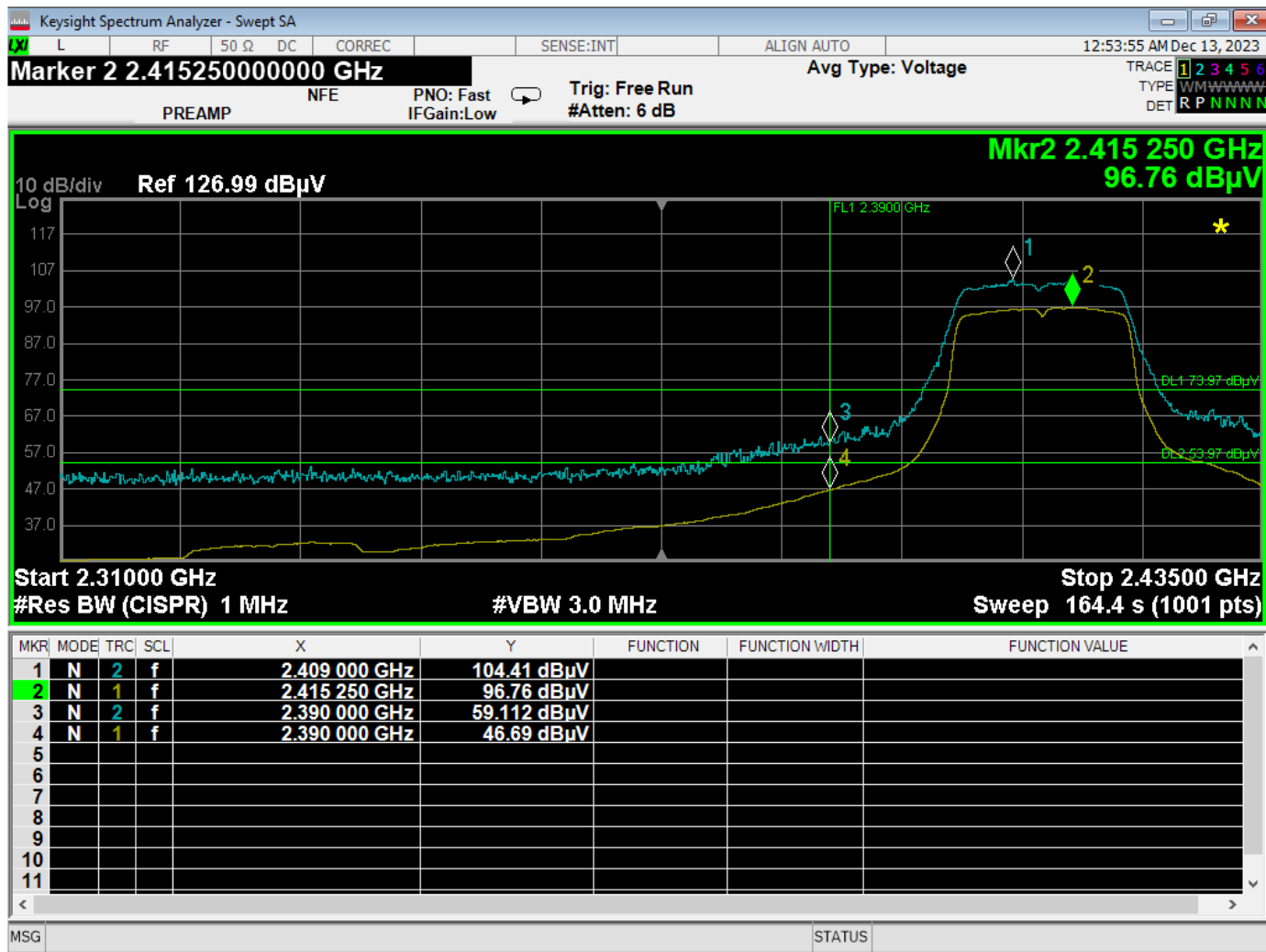
Band Edge – High Channel – Horizontal Polarization – 802.11g Mode



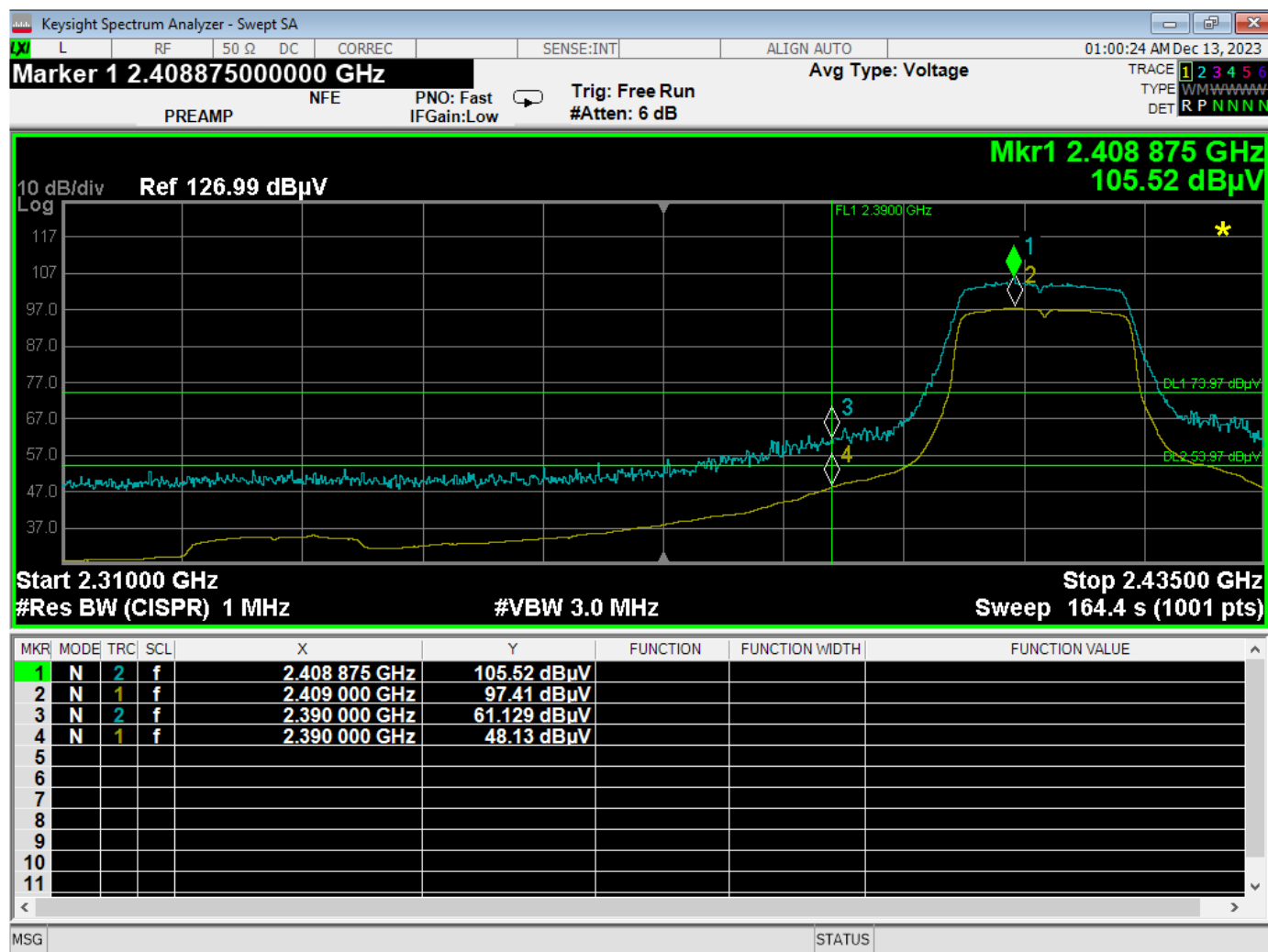
Band Edge – High Channel – Vertical Polarization – 802.11g Mode

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - 802.11n - 20 MHz - Unit 4**
Power Level 92

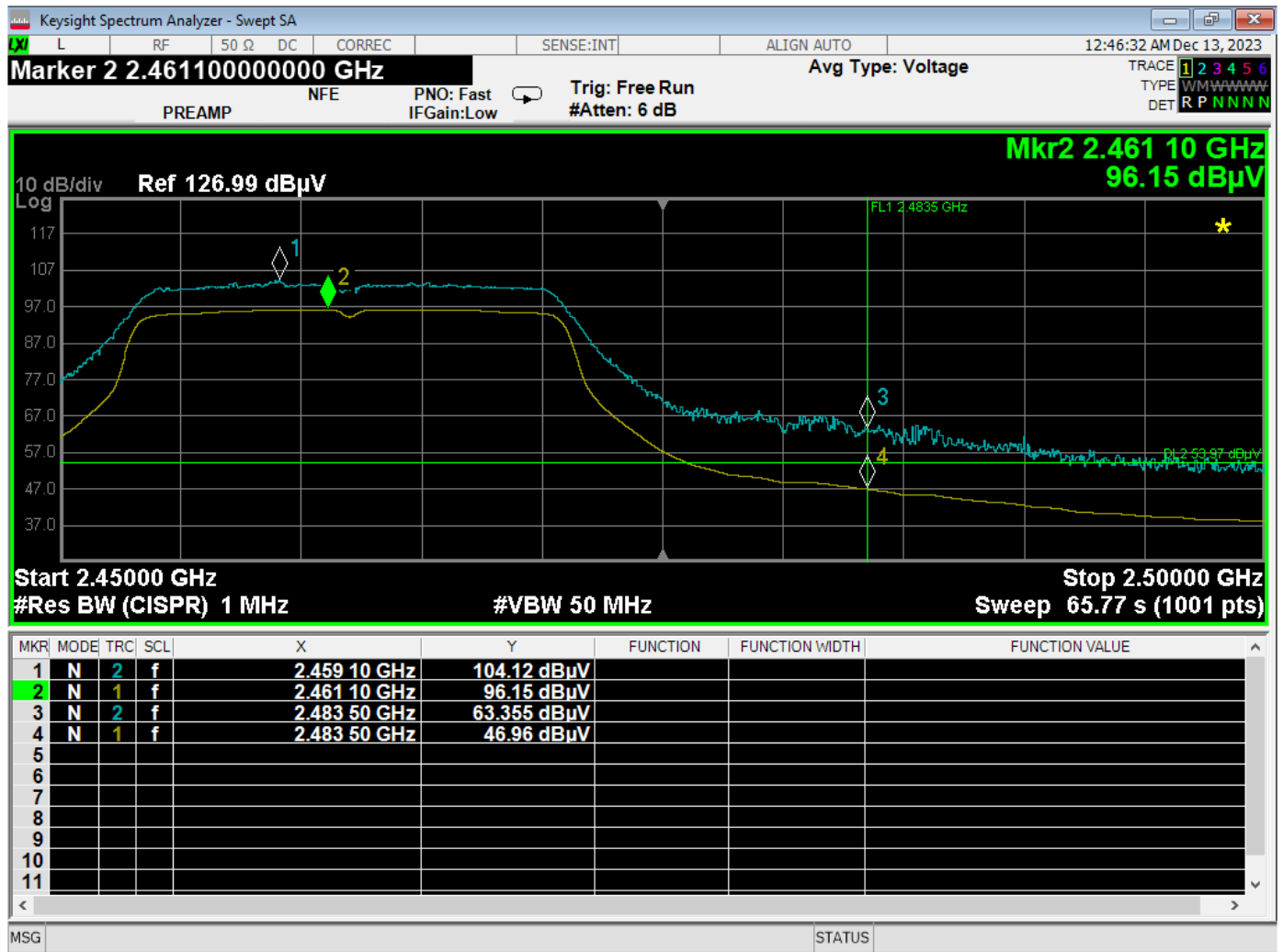
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2412.00	104.41	H	--	--	Peak	195.00	157.13	Fundamental - Low Ch.
2412.00	96.76	H	--	--	Avg	195.00	157.13	Y-Axis - Worst Case
2390.00	59.11	H	73.97	-14.86	Peak	195.00	157.13	Band Edge
2390.00	49.69	H	53.97	-4.28	Avg	195.00	157.13	Y-Axis - Worst Case
2412.00	105.52	V	--	--	Peak	79.50	131.10	Fundamental - Low Ch.
2412.00	97.41	V	--	--	Avg	79.50	131.10	Y-Axis - Worst Case
2390.00	61.13	V	73.97	-12.84	Peak	79.50	131.10	Band Edge
2390.00	48.13	V	53.97	-5.84	Avg	79.50	131.10	Y-Axis - Worst Case



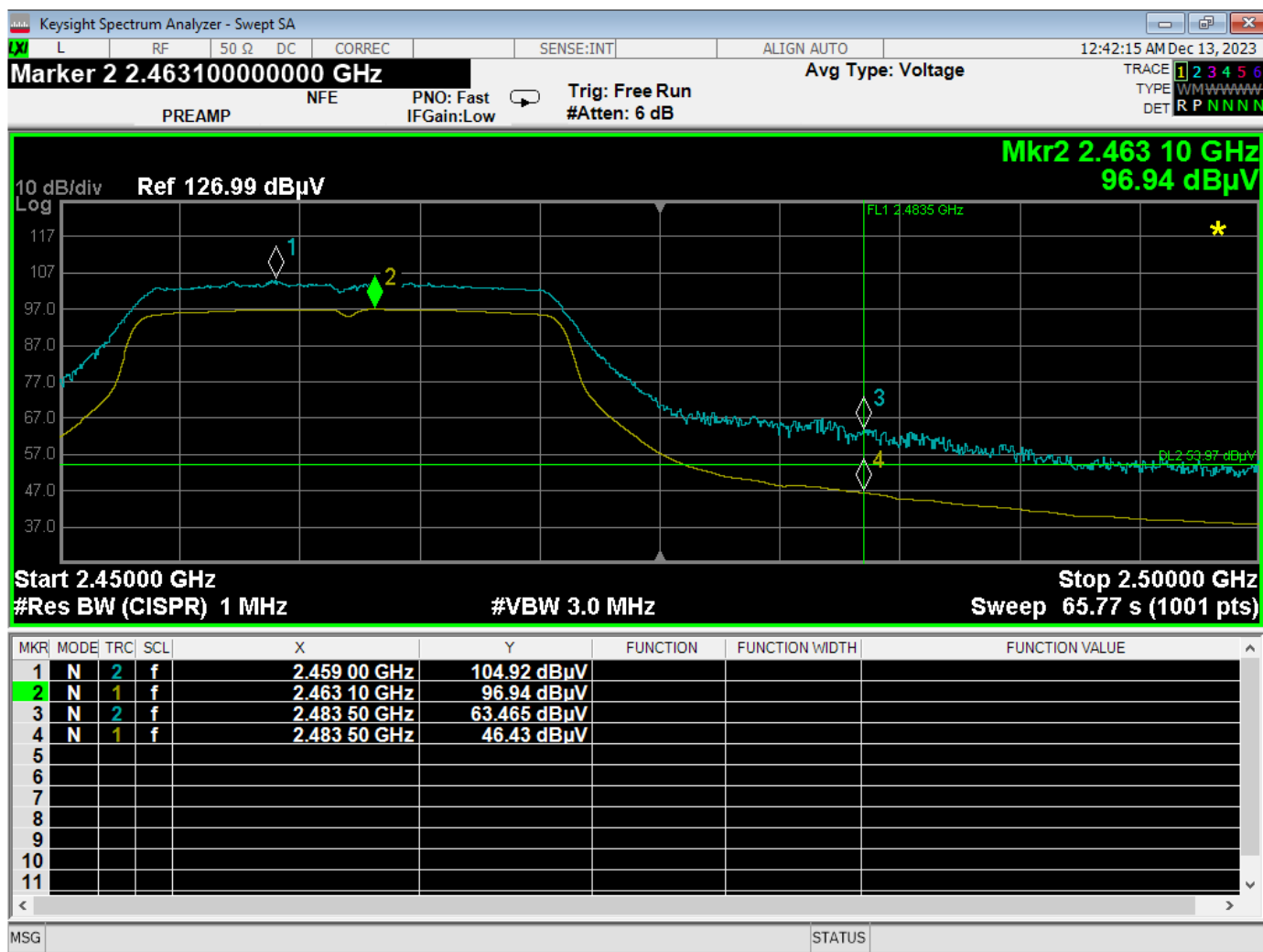
Band Edge – Low Channel – Horizontal Polarization – 802.11n Mode – 20 MHz



Band Edge – Low Channel – Vertical Polarization – 802.11n Mode – 20 MHz



Band Edge – High Channel – Horizontal Polarization – 802.11n Mode – 20 MHz



Band Edge – High Channel – Vertical Polarization – 802.11n Mode – 20 MHz

FCC 15.247Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - 802.11n Mode - 40 MHz - Unit 4**
Power Level 92

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2422.00	100.68	H	--	--	Peak	192.25	181.07	Fundamental - Low Ch.
2422.00	92.07	H	--	--	Avg	192.25	181.07	Y-Axis - Worst Case
2390.00	57.28	H	73.97	-16.69	Peak	192.25	181.07	Band Edge
2390.00	45.07	H	53.97	-8.90	Avg	192.25	181.07	Y-Axis - Worst Case
2422.00	102.29	V	--	--	Peak	81.75	146.50	Fundamental - Low Ch.
2422.00	93.95	V	--	--	Avg	81.75	146.50	Y-Axis - Worst Case
2390.00	60.72	V	73.97	-13.25	Peak	81.75	146.50	Band Edge
2390.00	47.06	V	53.97	-6.91	Avg	81.75	146.50	Y-Axis - Worst Case

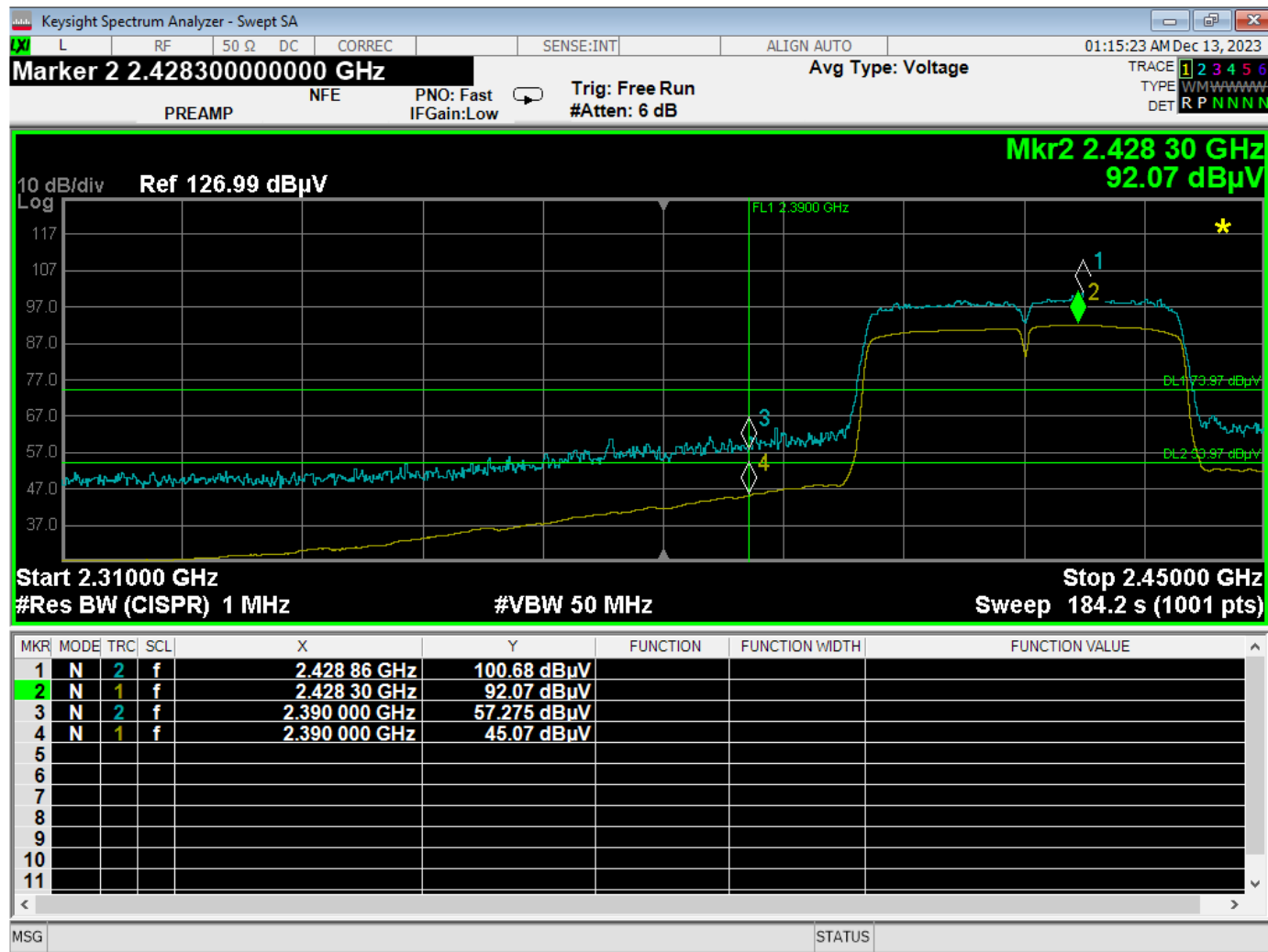
FCC 15.247

Universal Electronics, Inc.
Carrier Entry Level and ICP Thermostat 2024
Model: TSTATCCEWF-01

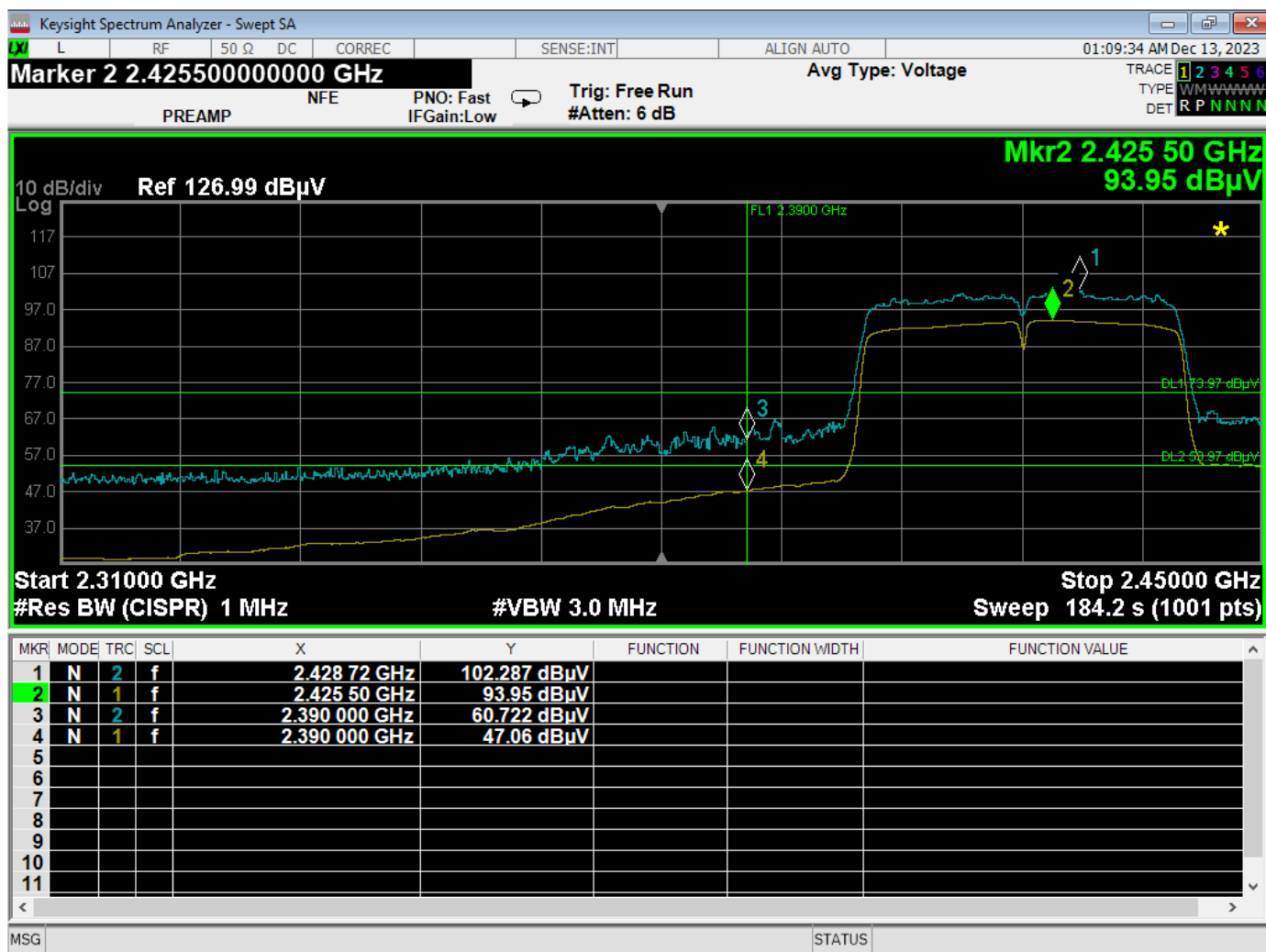
Date: 12/13/2023
Lab: D
Tested By: Kyle Fujimoto

Band Edges - 802.11n Mode - 40 MHz - Unit 4
Power Level 88

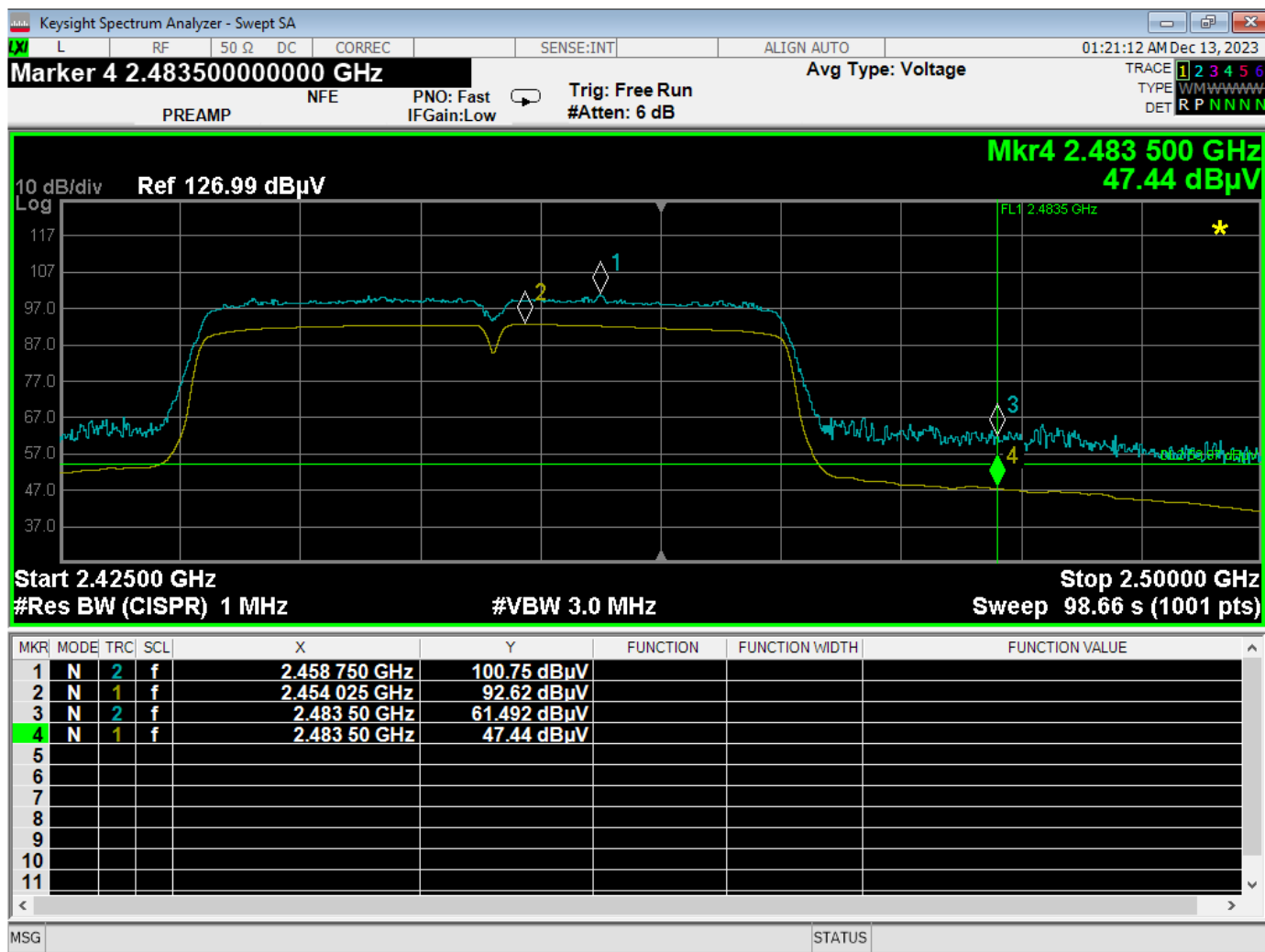
[illegible]



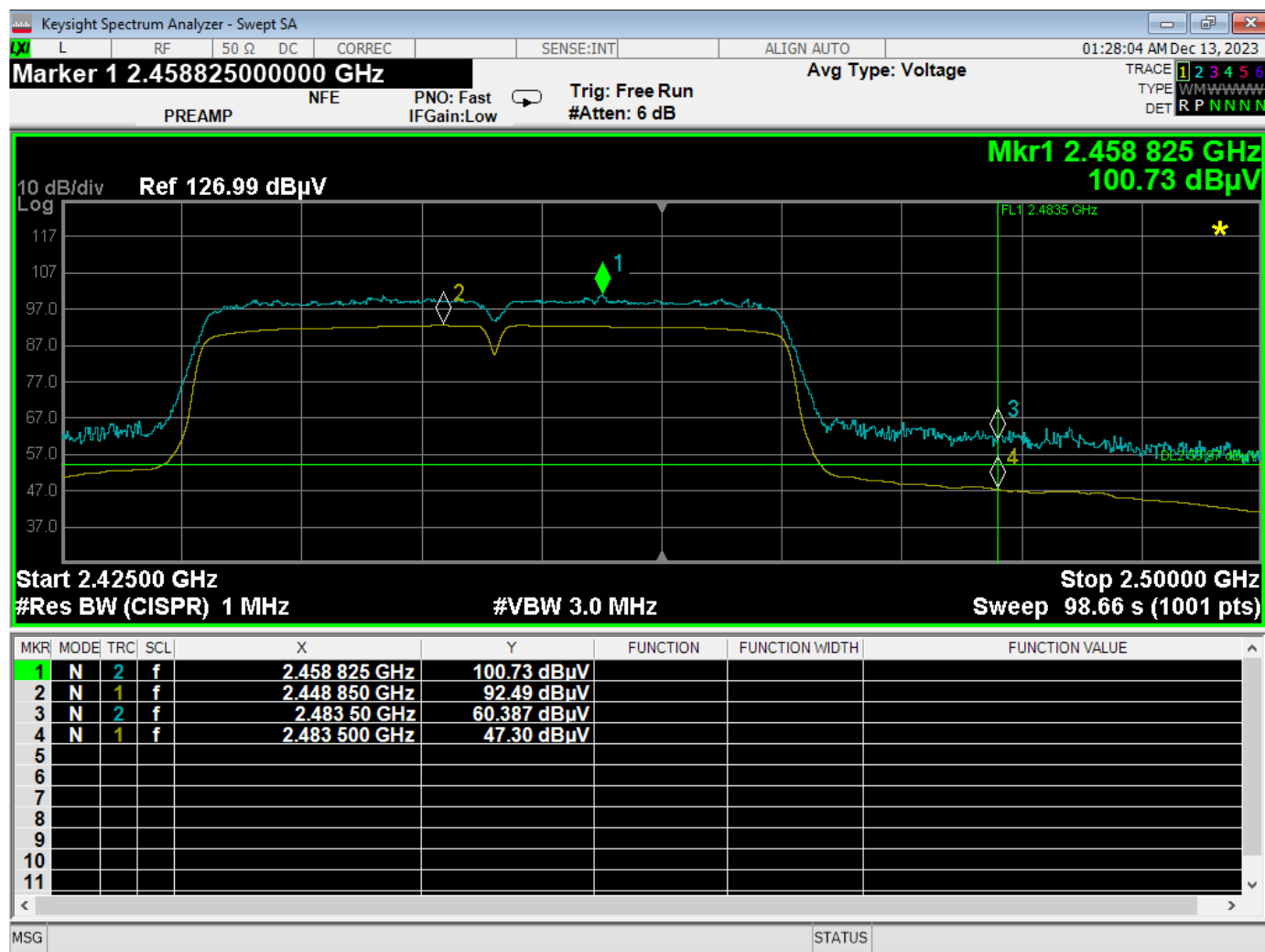
Band Edge – Low Channel – Horizontal Polarization – 802.11n Mode – 40 MHz



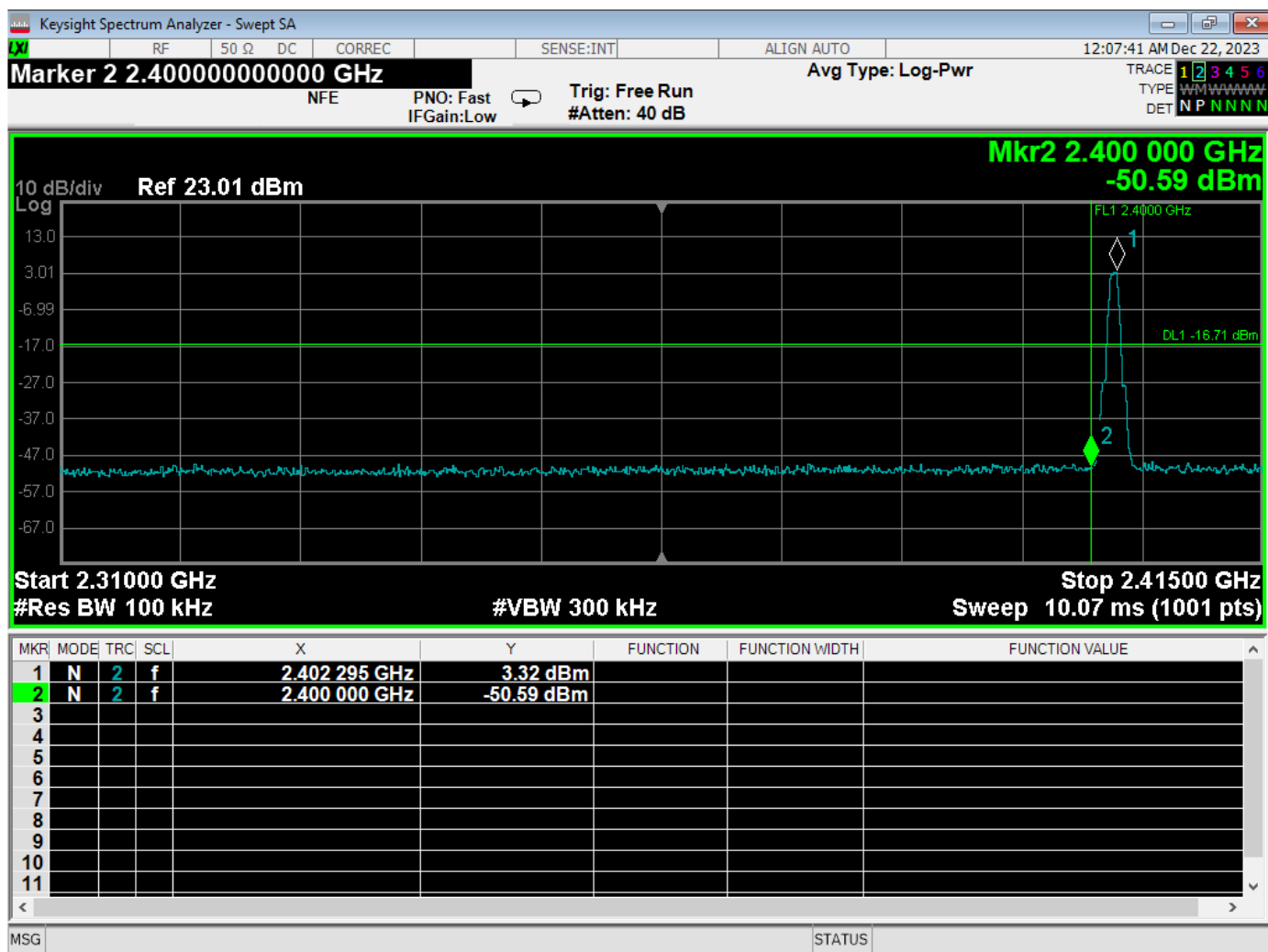
Band Edge – Low Channel – Vertical Polarization – 802.11n Mode – 40 MHz



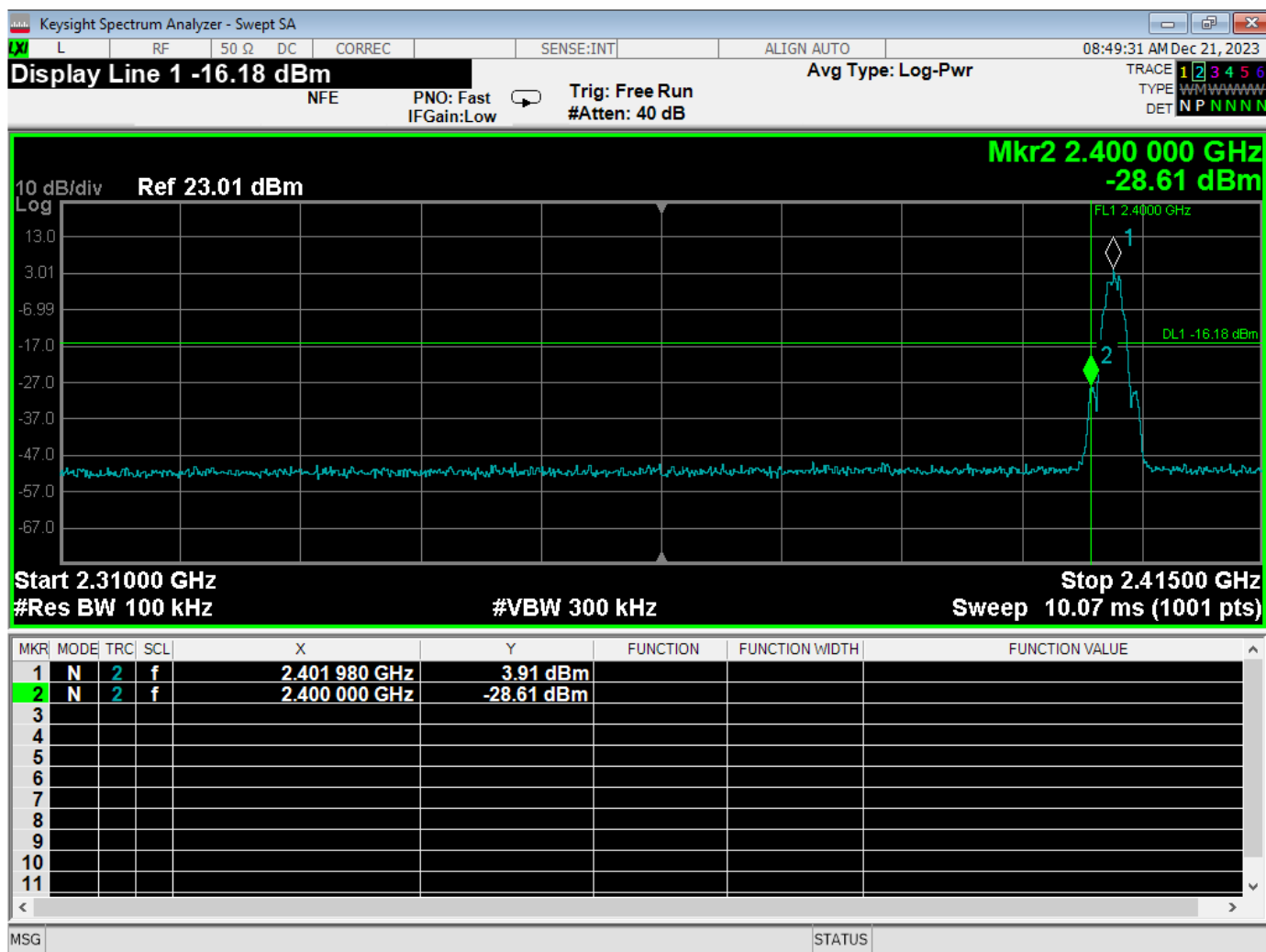
Band Edge – High Channel – Horizontal Polarization – 802.11n Mode – 40 MHz



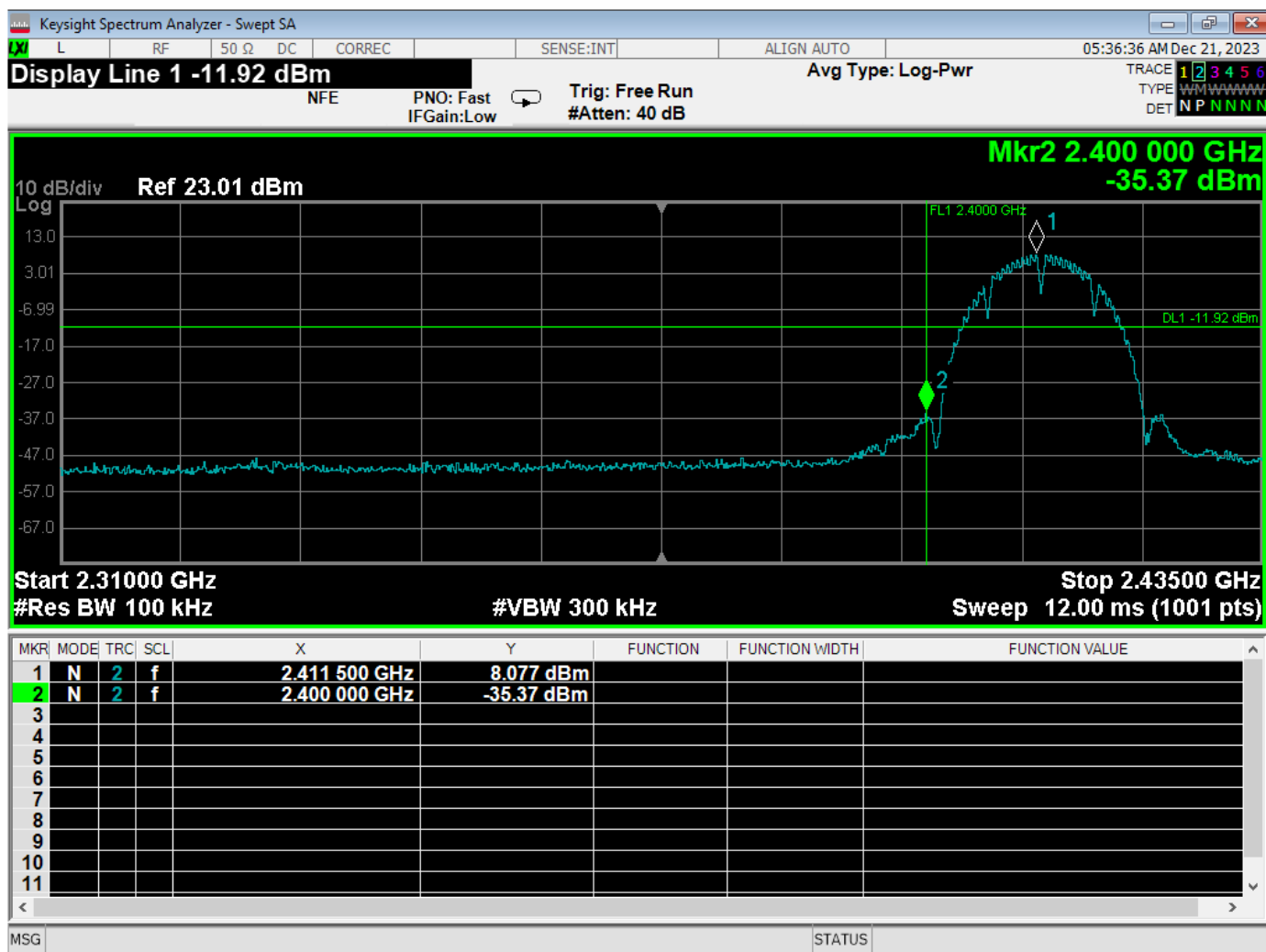
Band Edge – High Channel – Vertical Polarization – 802.11n Mode – 40 MHz



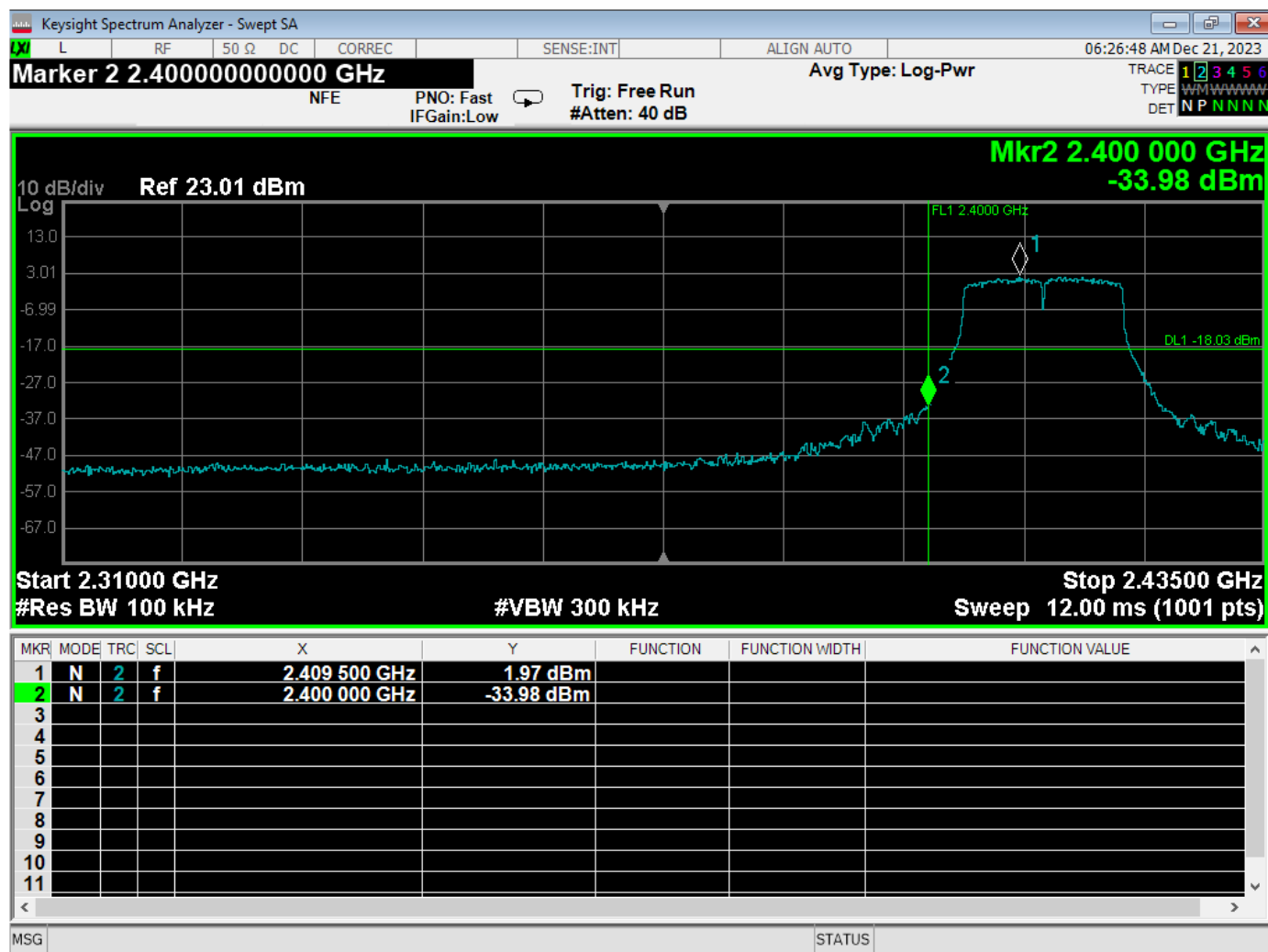
Band Edge – Conducted Measurement at 2400 MHz – BLE Mode – 1 Mbit



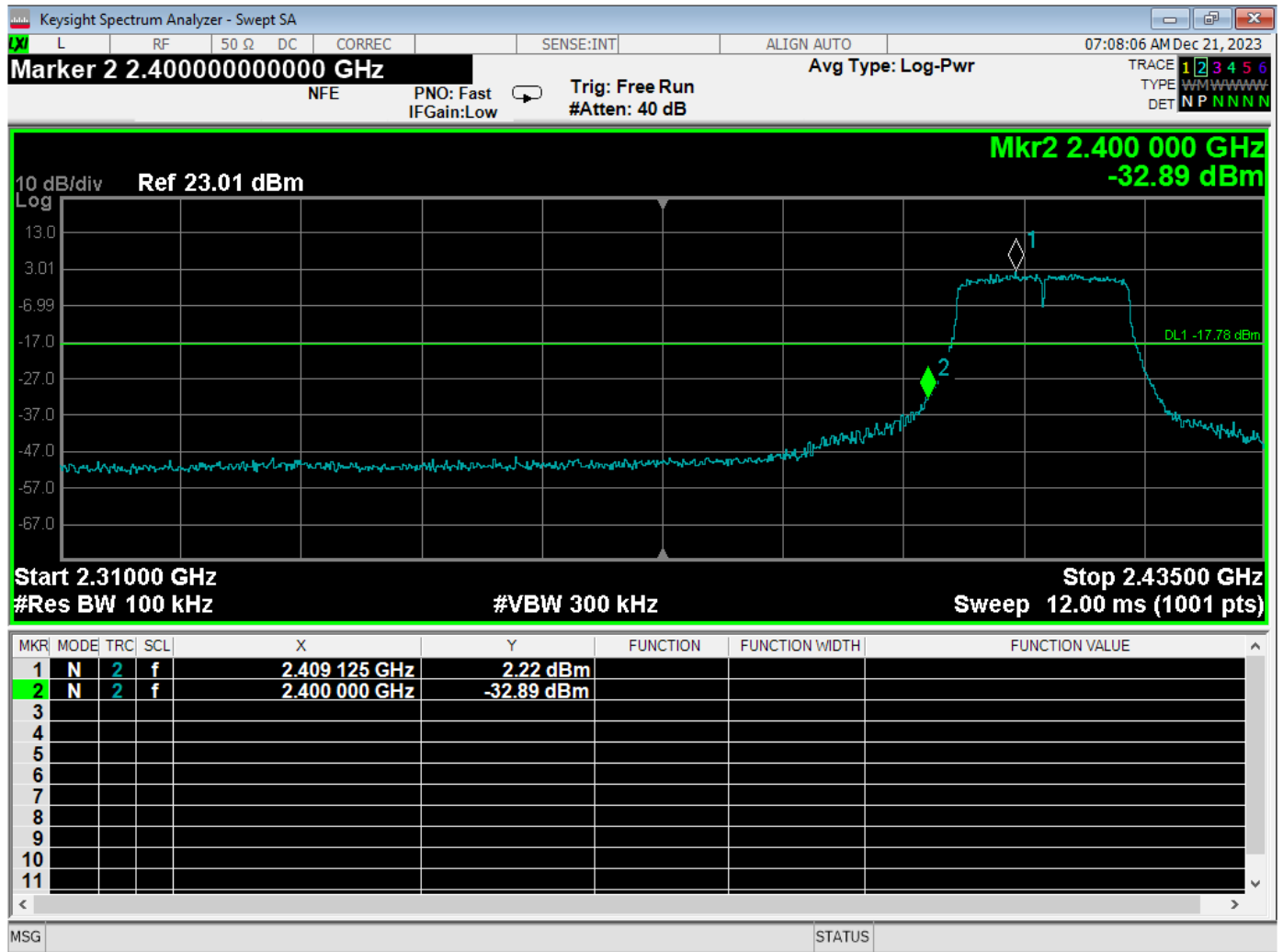
Band Edge – Conducted Measurement at 2400 MHz – BLE Mode – 2 Mbit



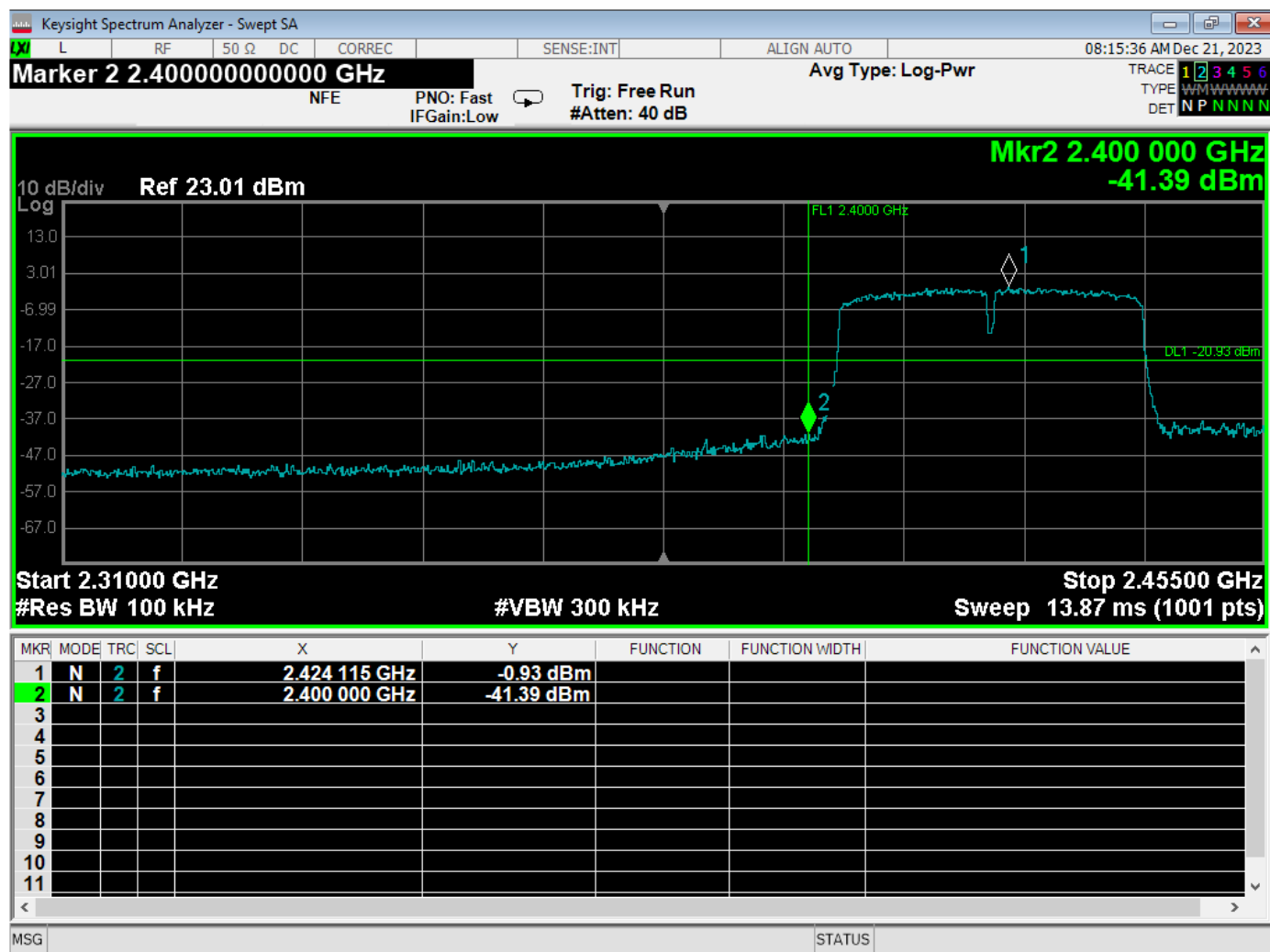
Band Edge – Conducted Measurement at 2400 MHz – 802.11b Mode



Band Edge – Conducted Measurement at 2400 MHz – 802.11g Mode



Band Edge – Conducted Measurement at 2400 MHz – 802.11n Mode – 20 MHz



Band Edge – Conducted Measurement at 2400 MHz – 802.11n Mode – 40 MHz