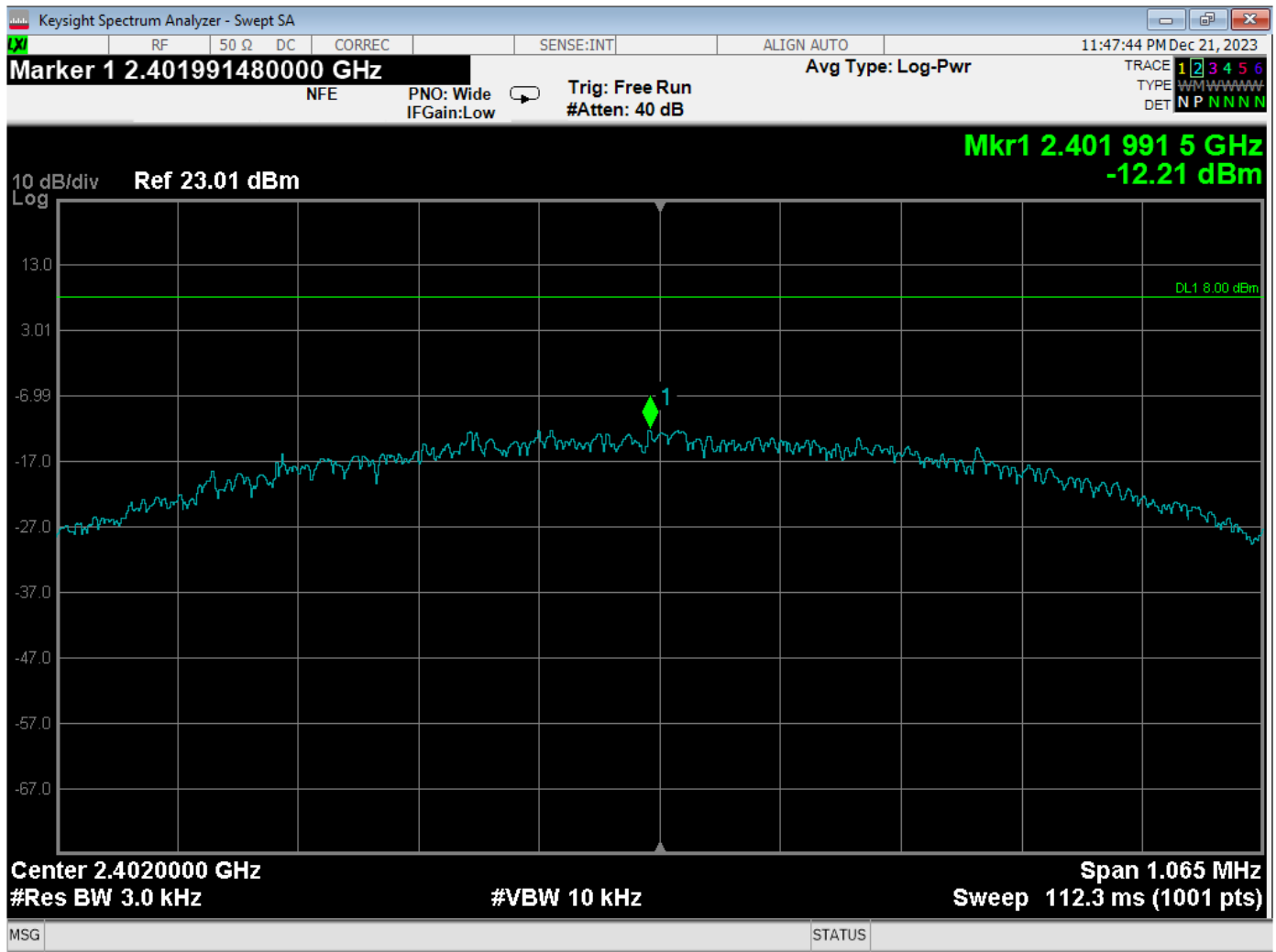
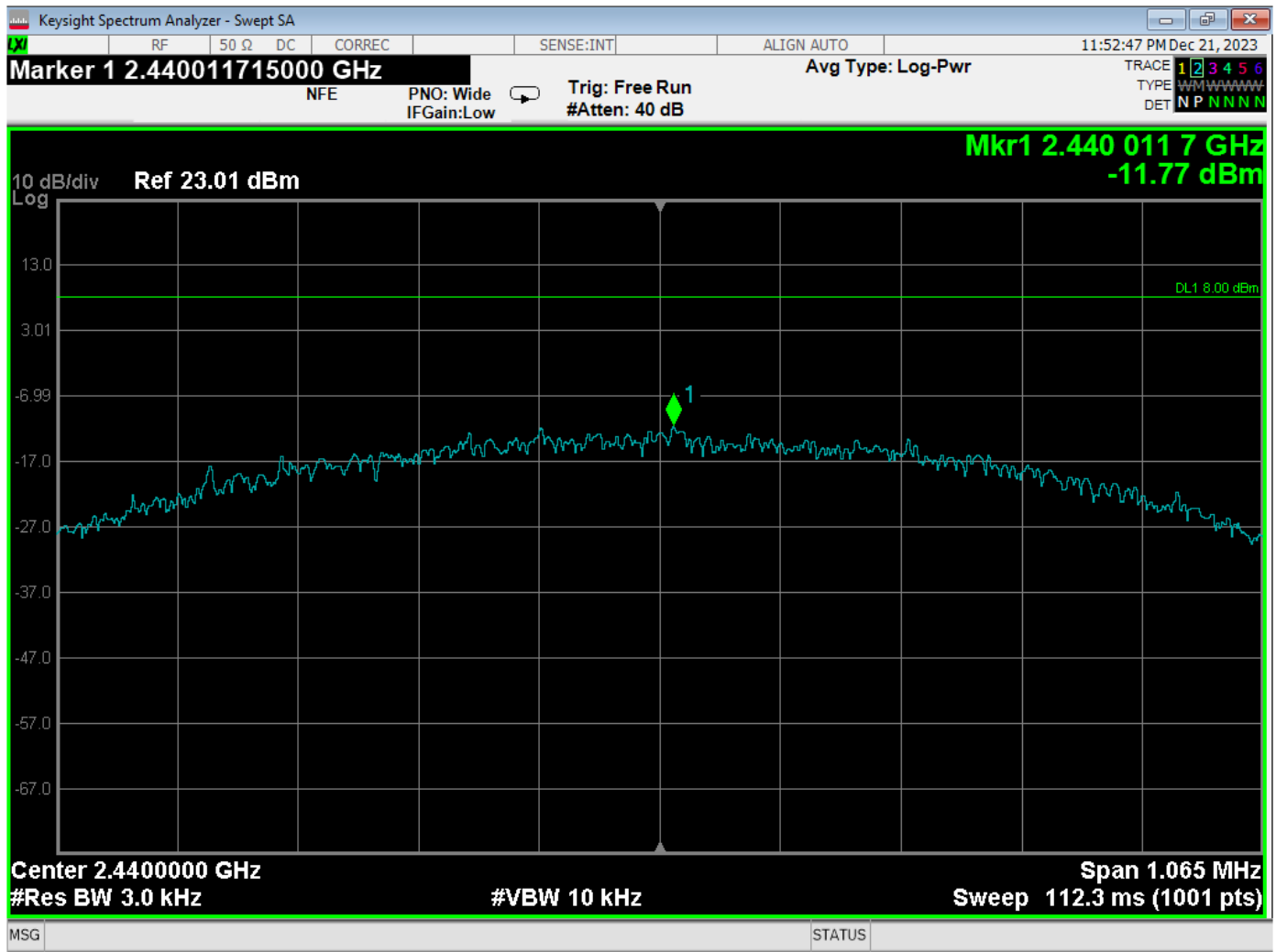




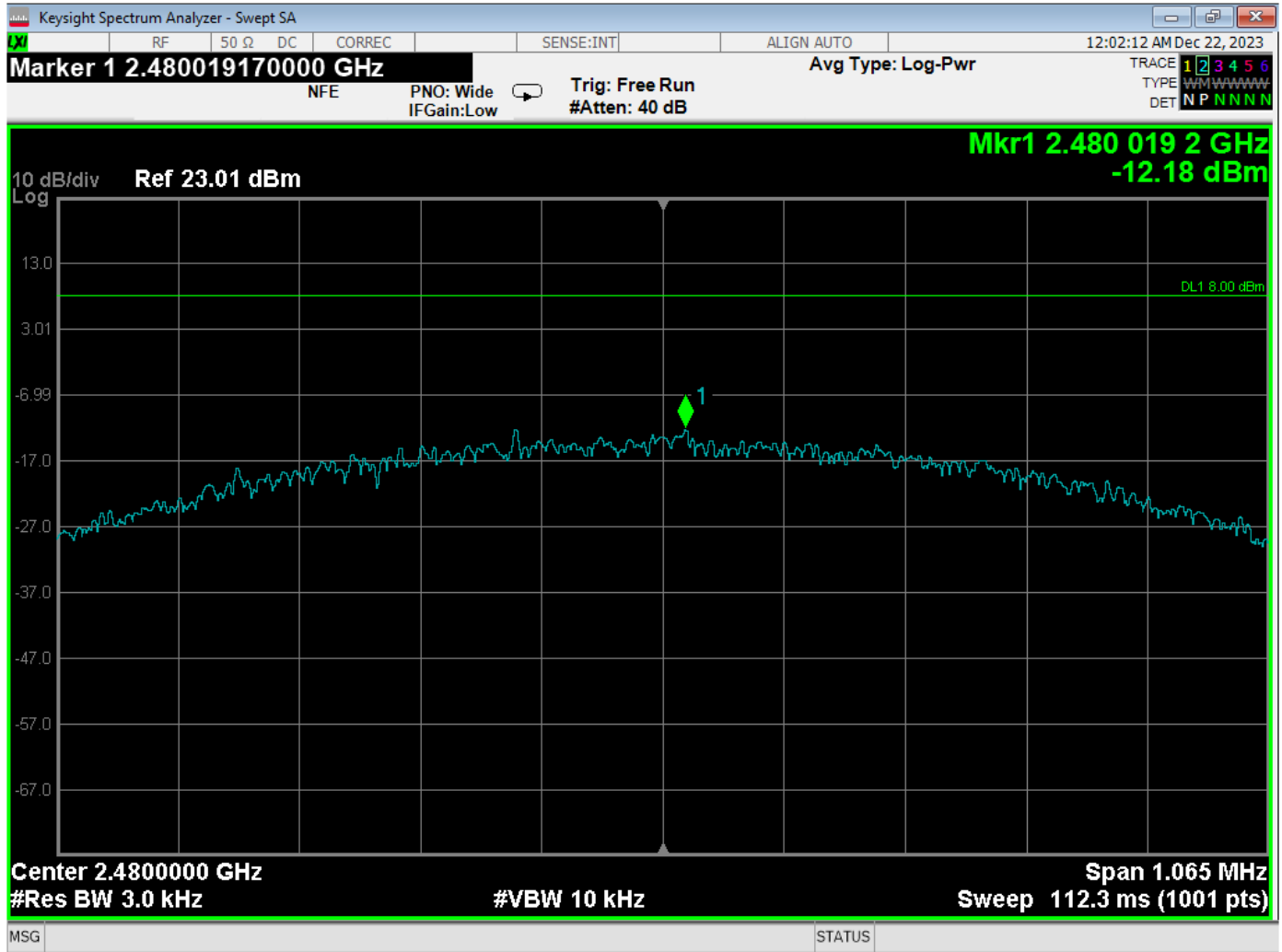
***PEAK POWER SPECTRAL DENSITY  
DATA SHEETS***



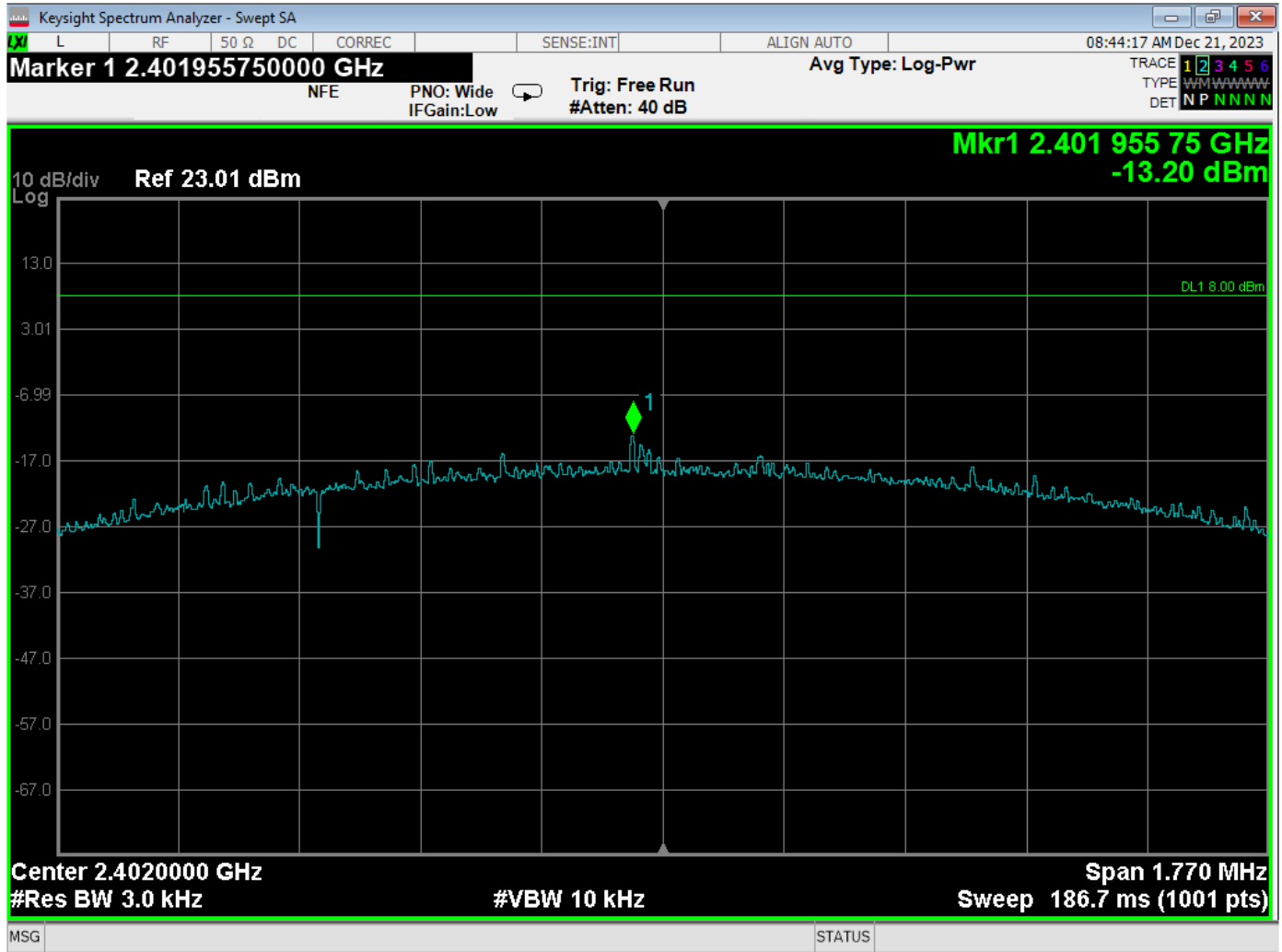
Peak Power Spectral Density – Low Channel – BLE Mode – 1 MBit



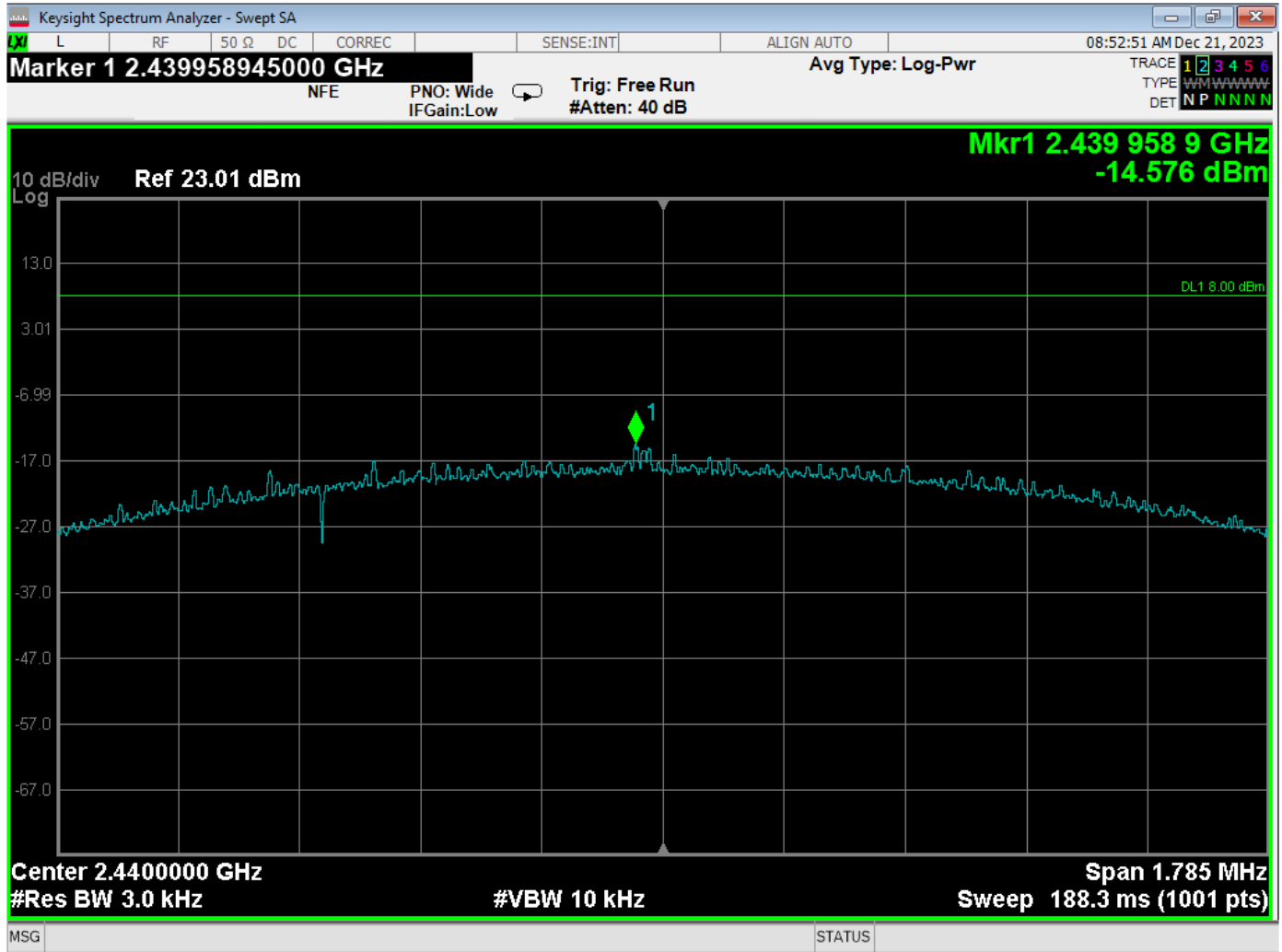
Peak Power Spectral Density – Middle Channel – BLE Mode – 1 Mbit



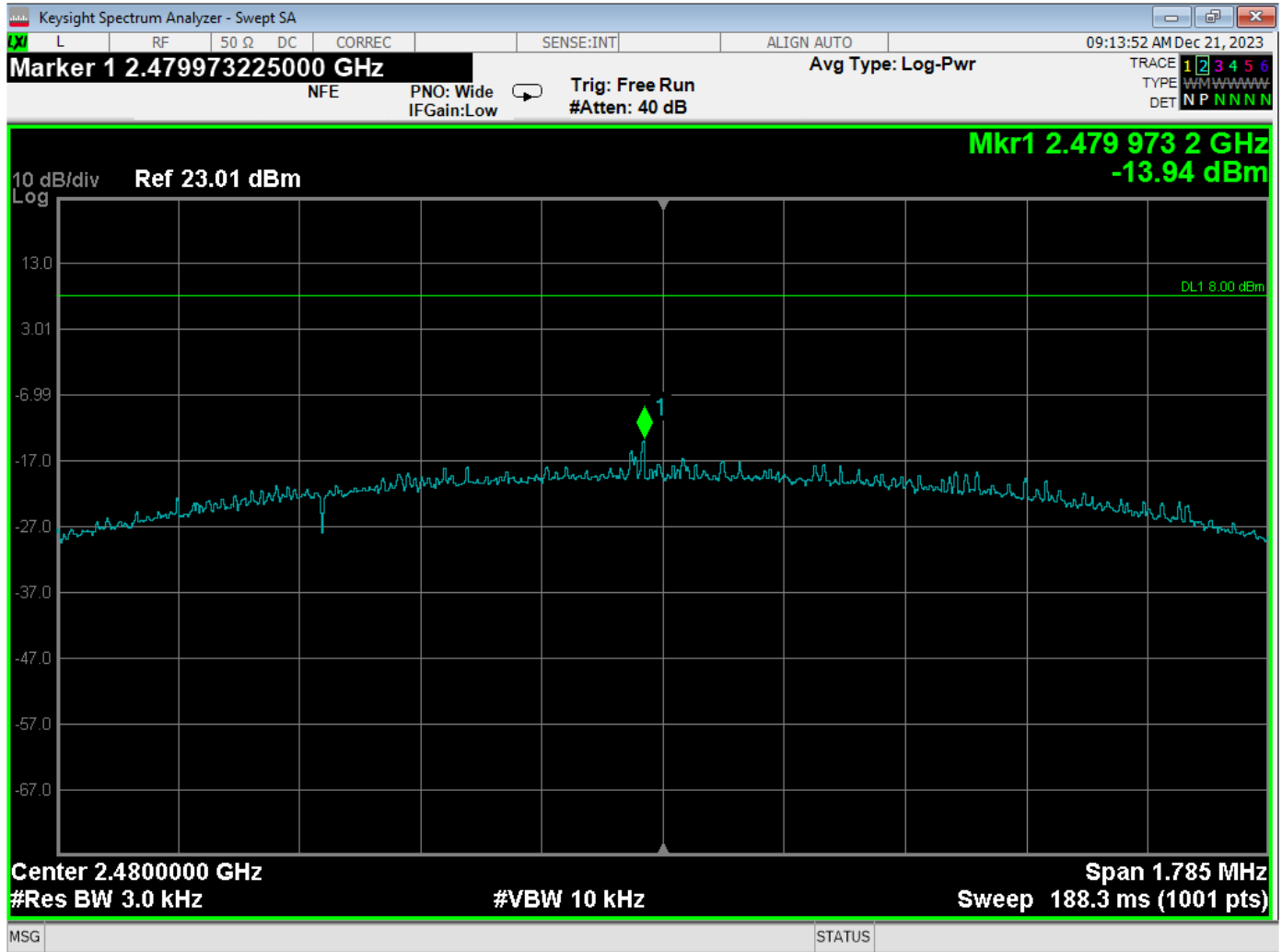
Peak Power Spectral Density – High Channel – BLE Mode – 1 Mbit



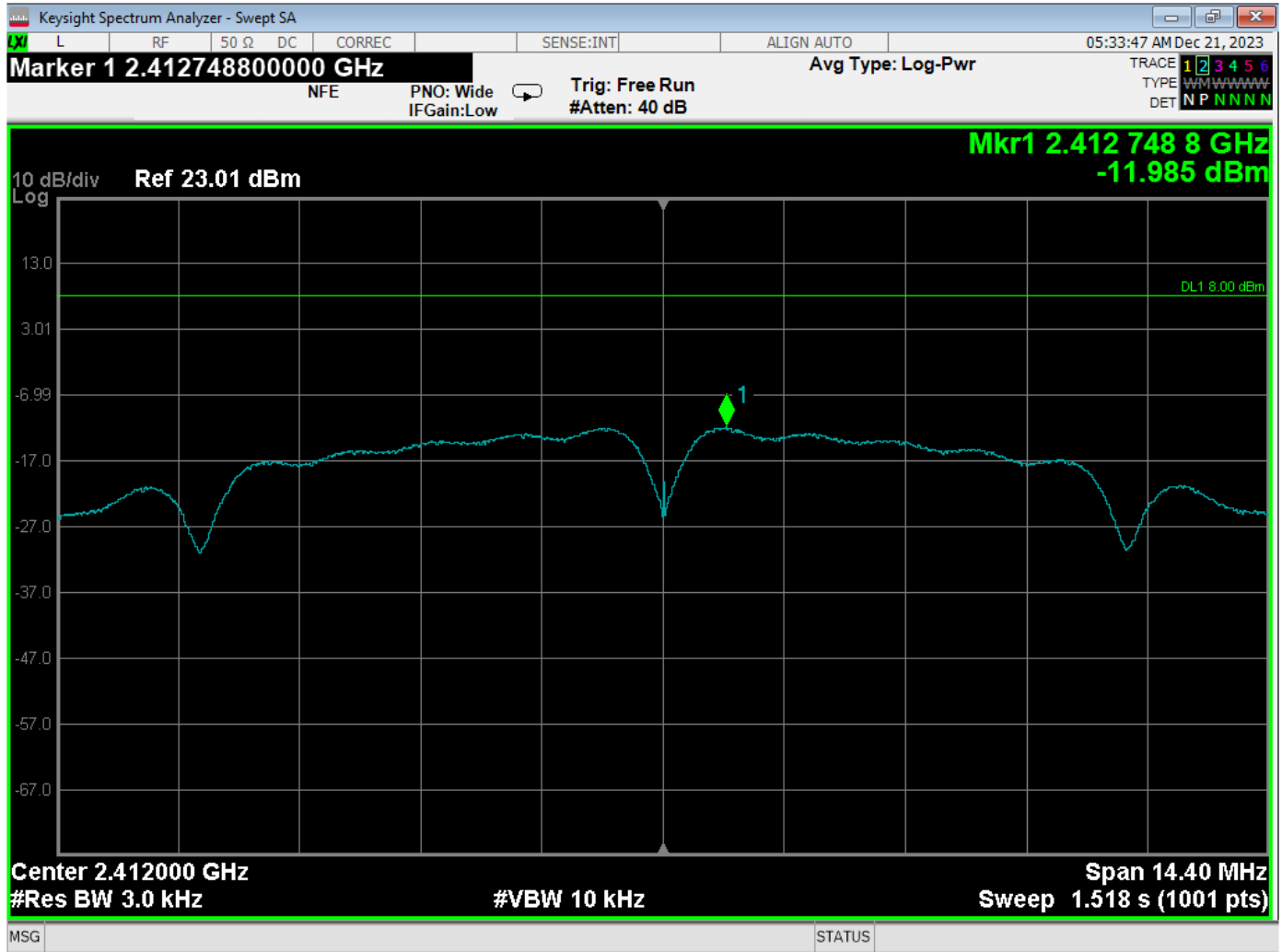
Peak Power Spectral Density – Low Channel – BLE Mode – 2 Mbit



Peak Power Spectral Density – Middle Channel – BLE Mode – 2 Mbit

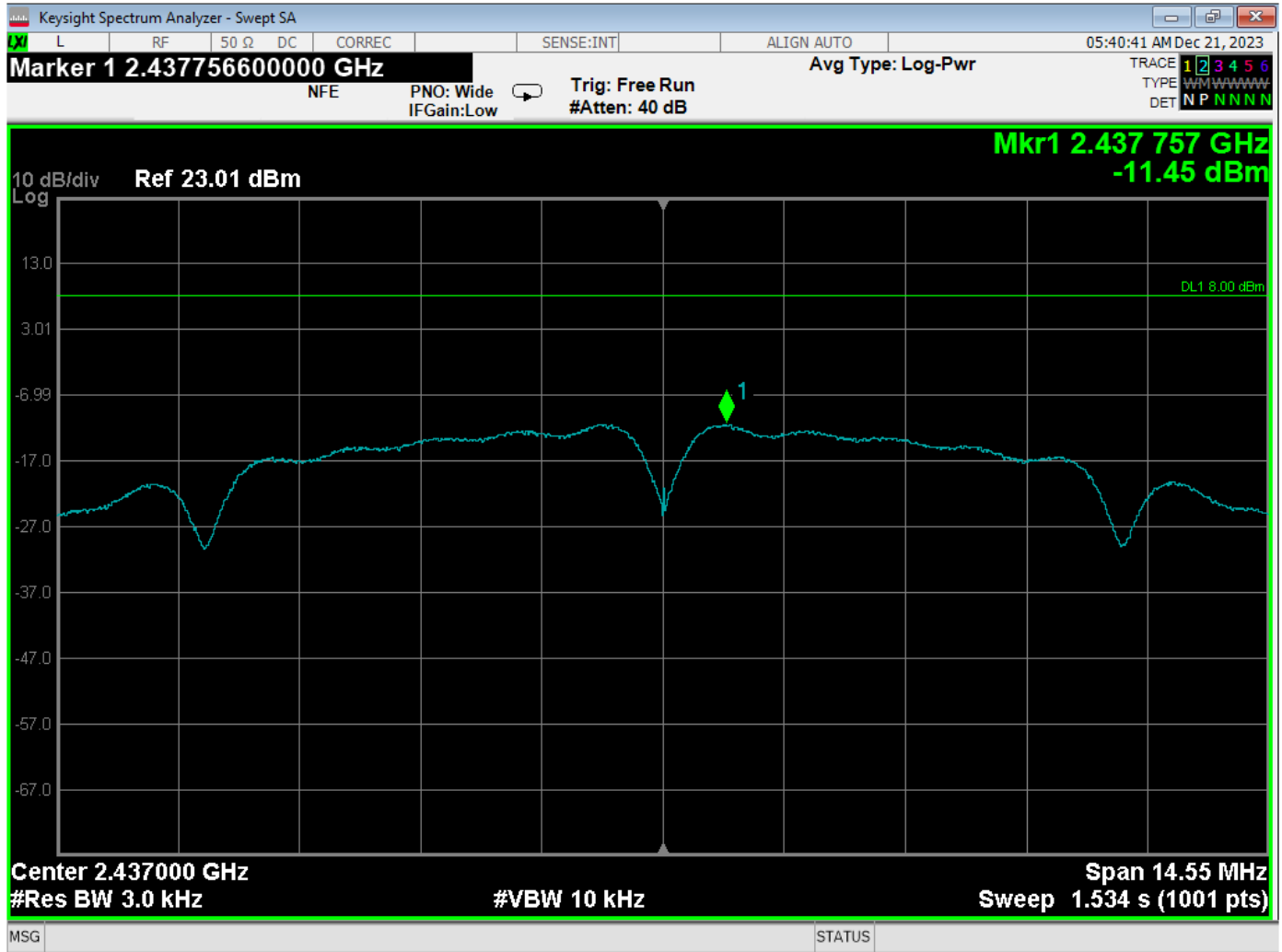


Peak Power Spectral Density – High Channel – BLE Mode – 2 Mbit

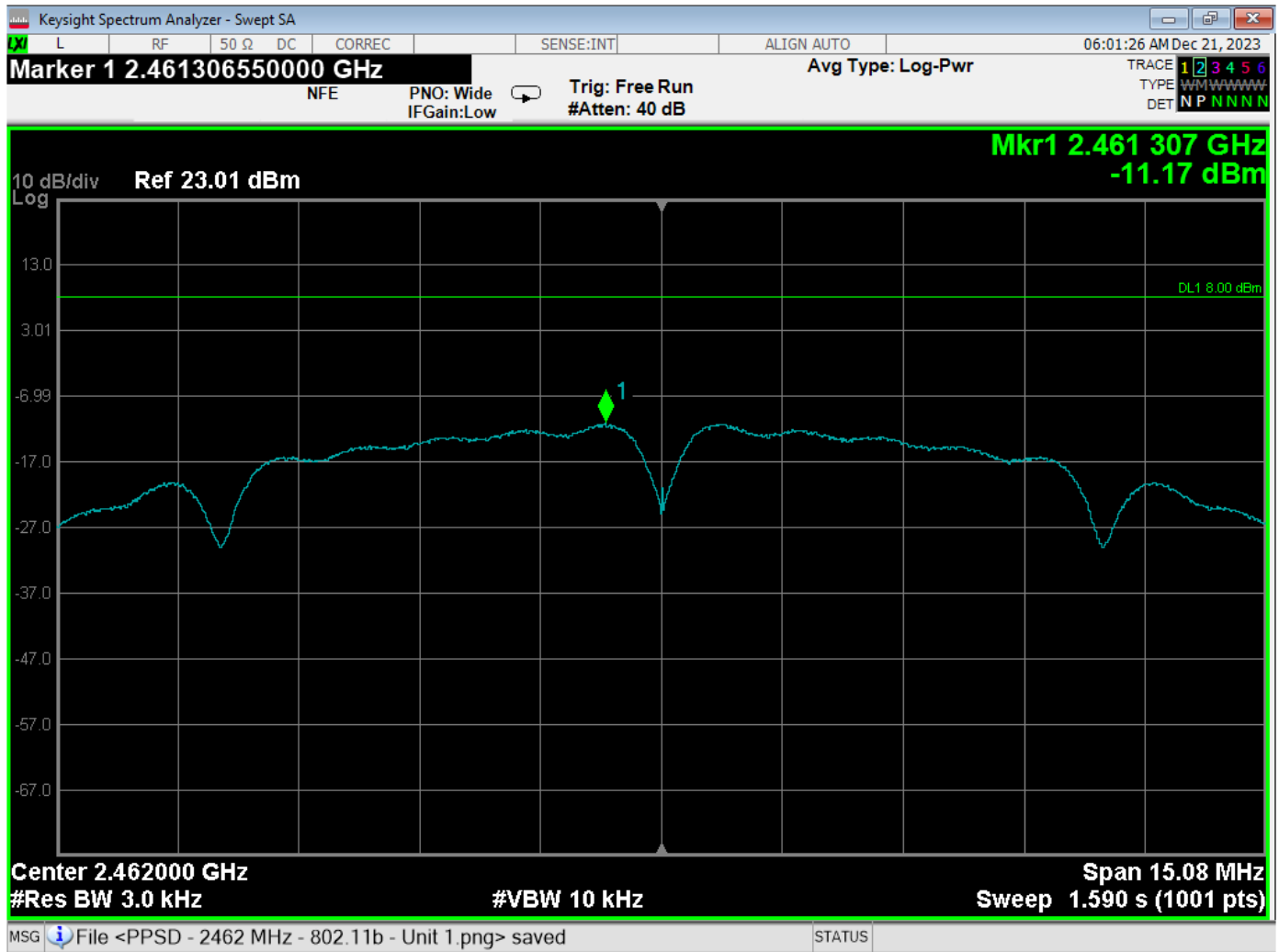


Peak Power Spectral Density – Low Channel – 802.11b Mode

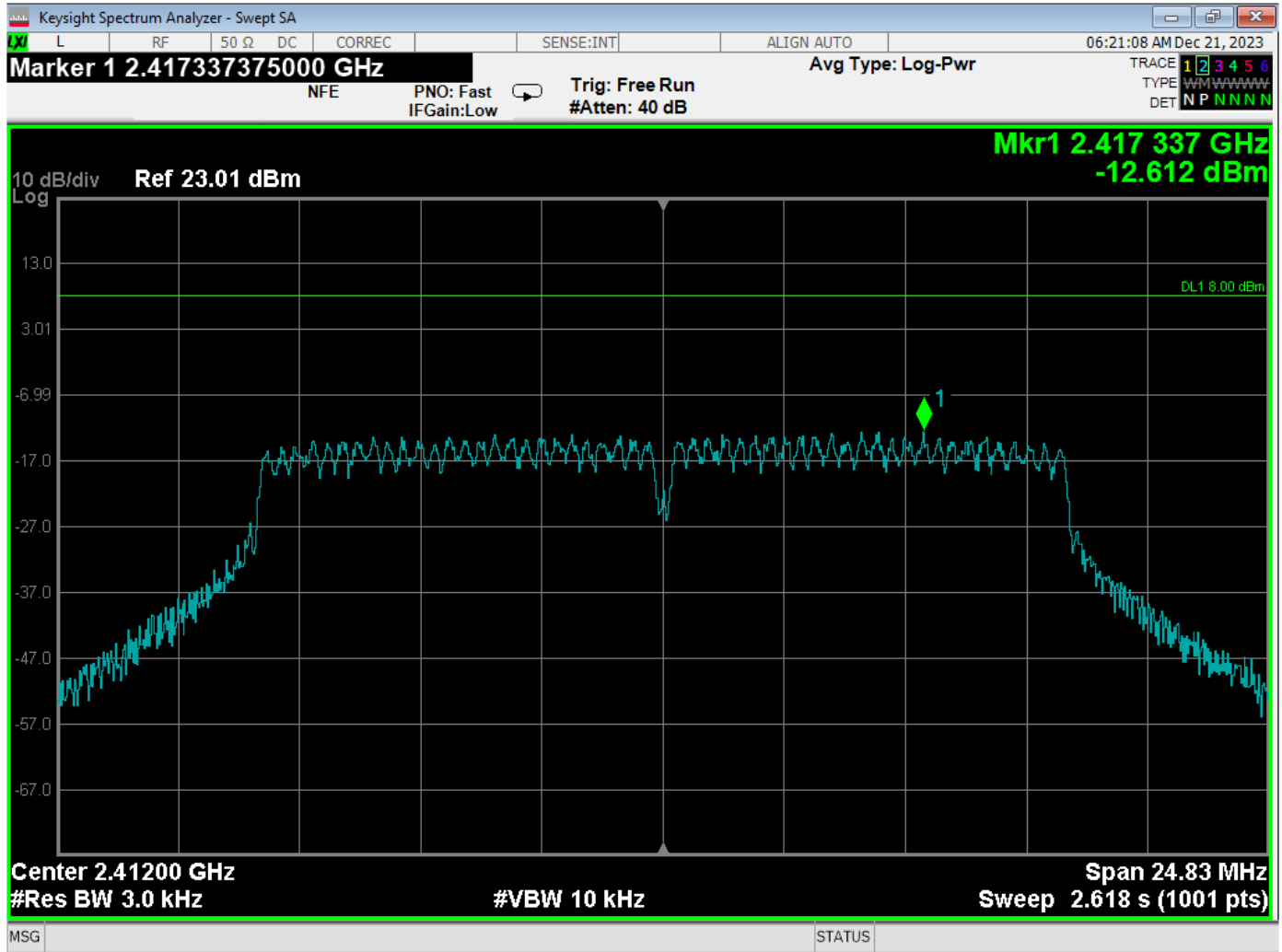




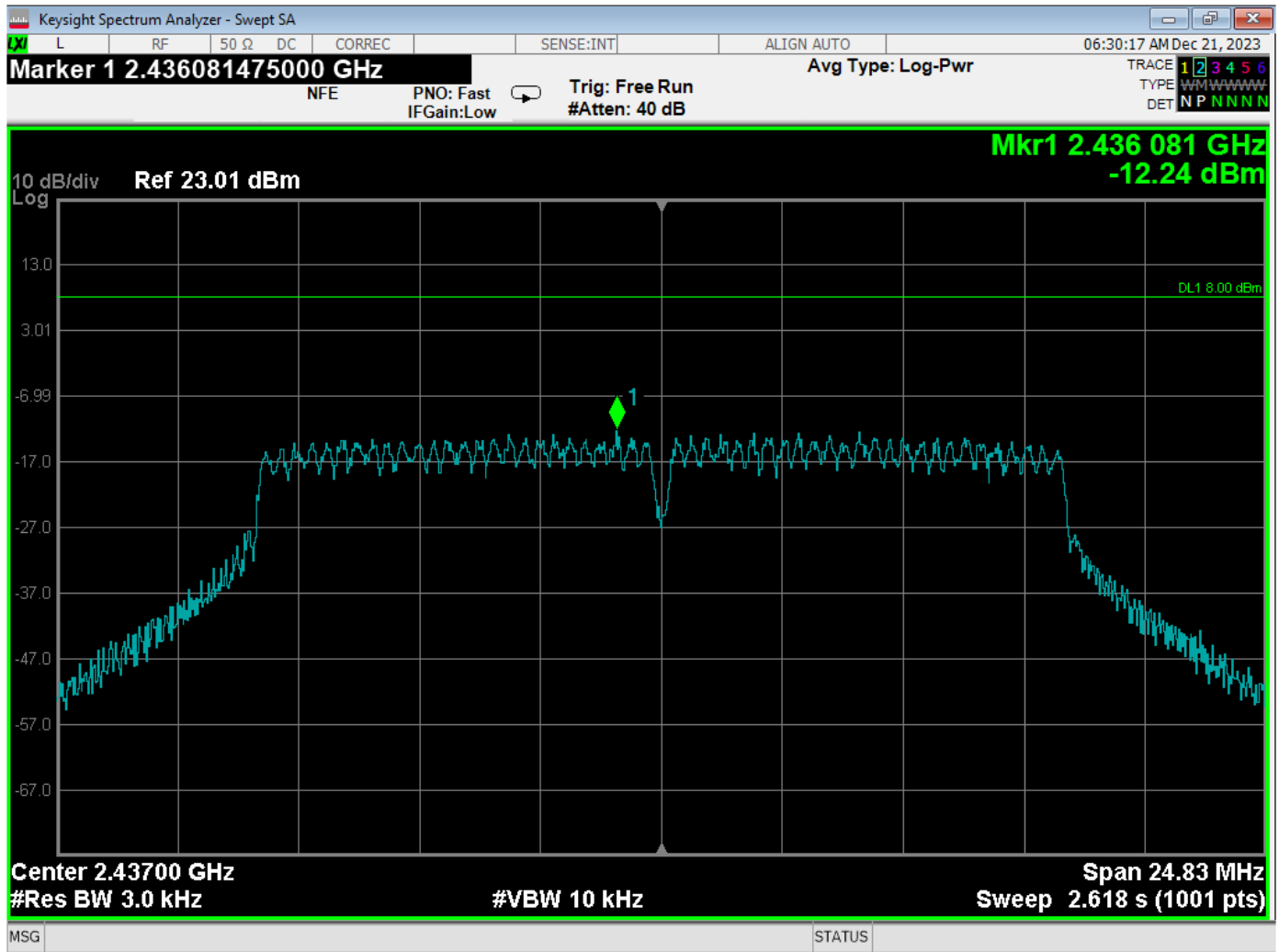
Peak Power Spectral Density – Middle Channel – 802.11b Mode



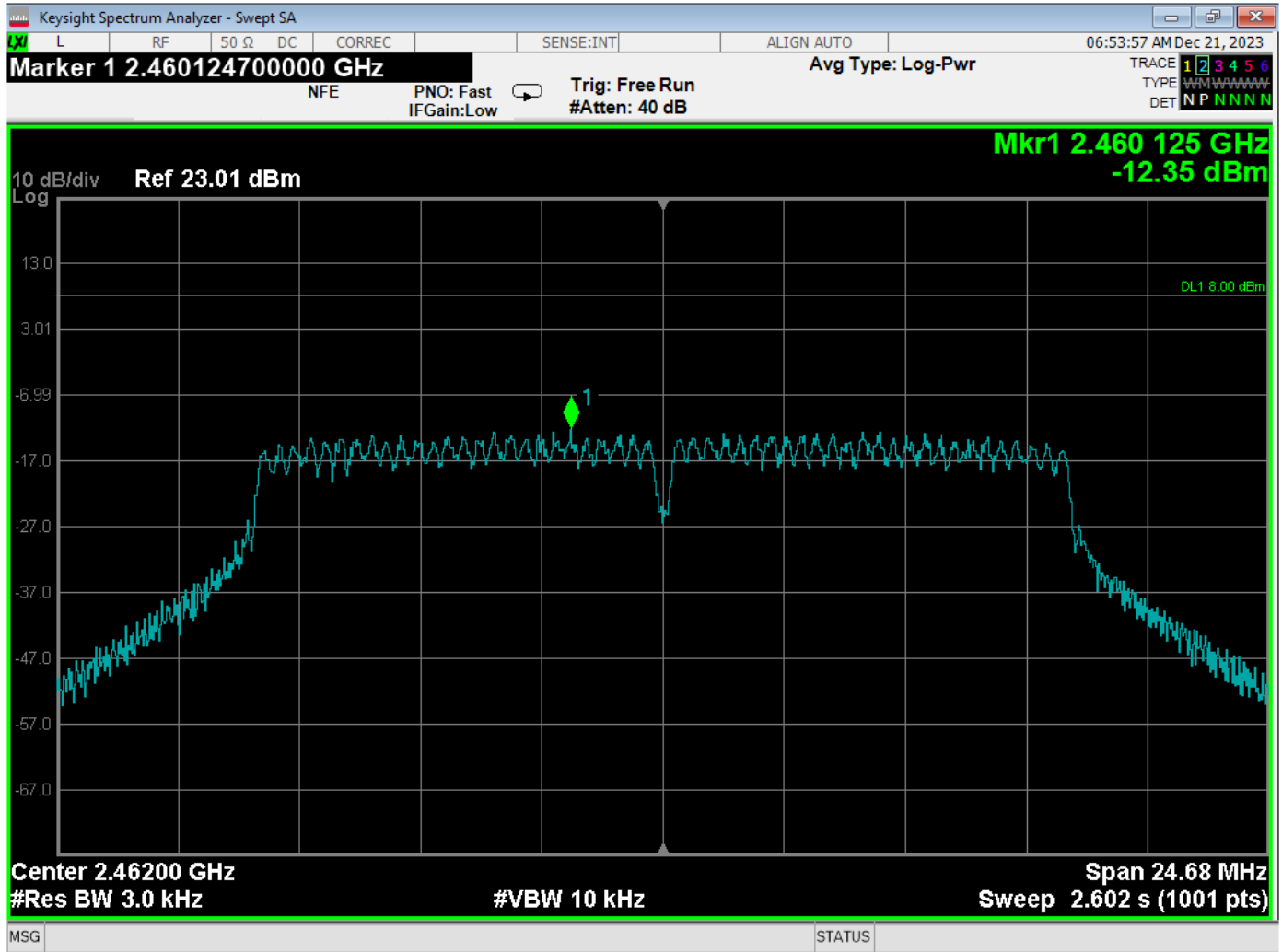
Peak Power Spectral Density – High Channel – 802.11b Mode



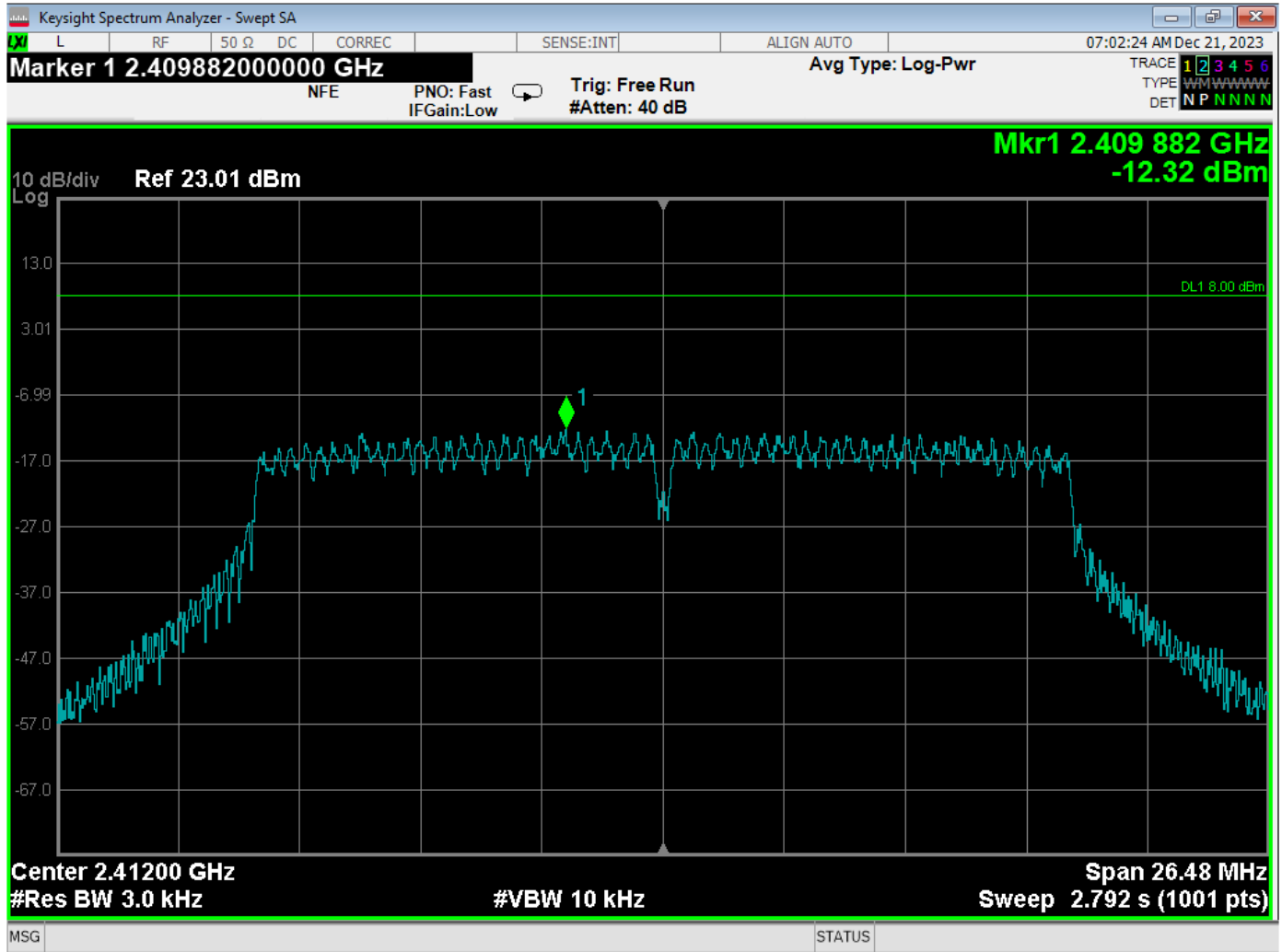
Peak Power Spectral Density – Low Channel – 802.11g Mode



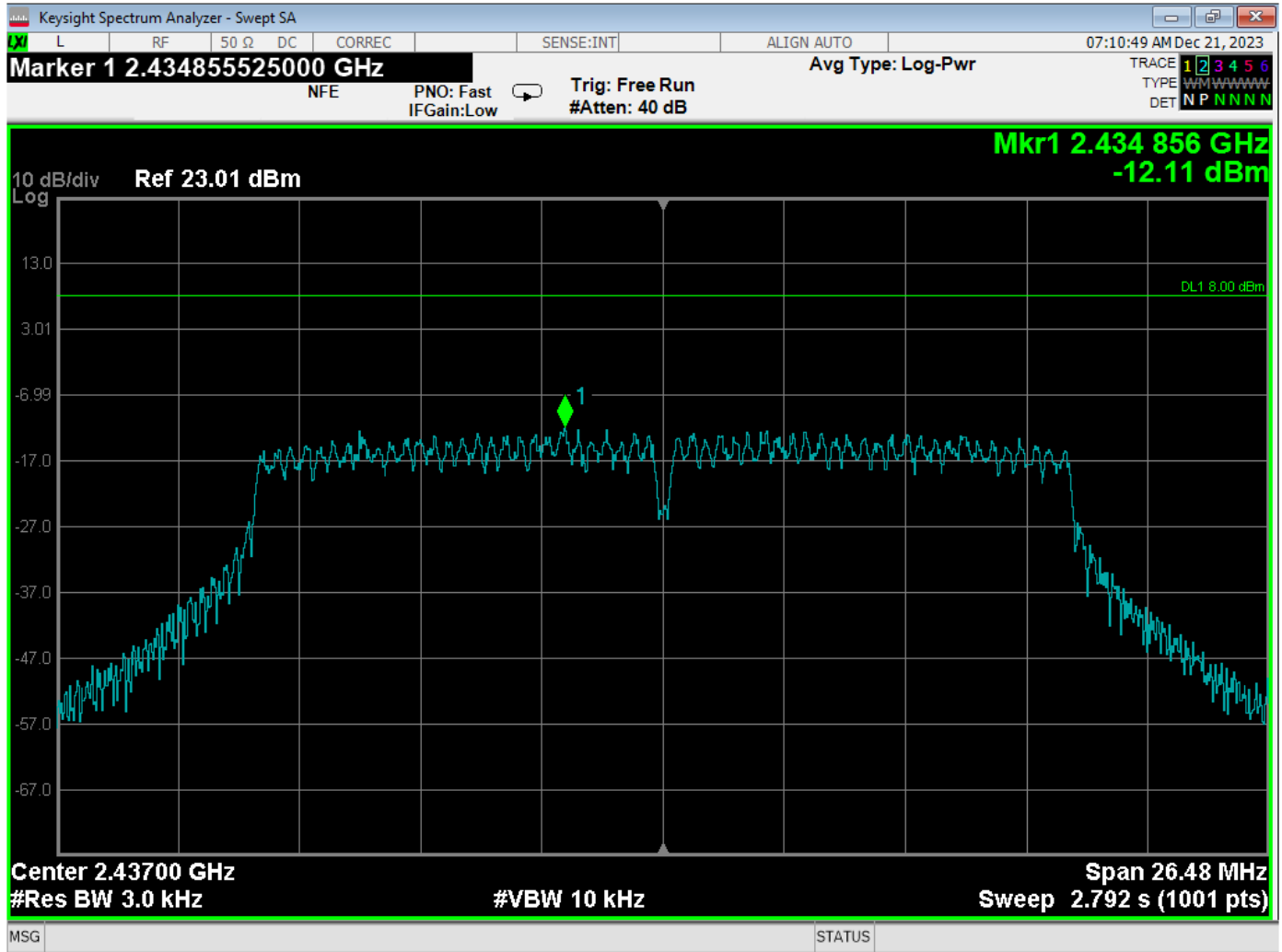
Peak Power Spectral Density – Middle Channel – 802.11g Mode



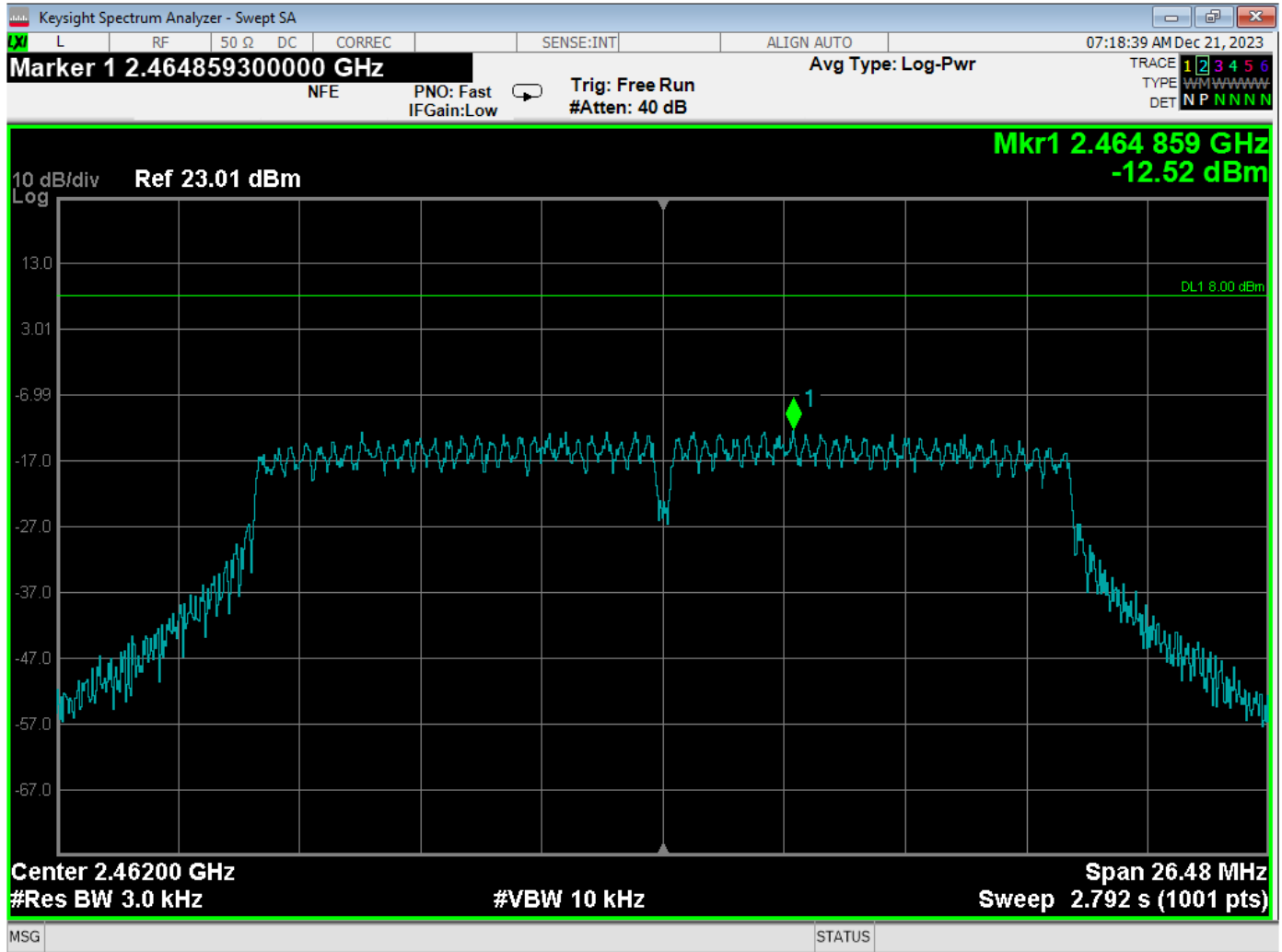
Peak Power Spectral Density – High Channel – 802.11g Mode



Peak Power Spectral Density – Low Channel – 802.11n Mode – 20 MHz

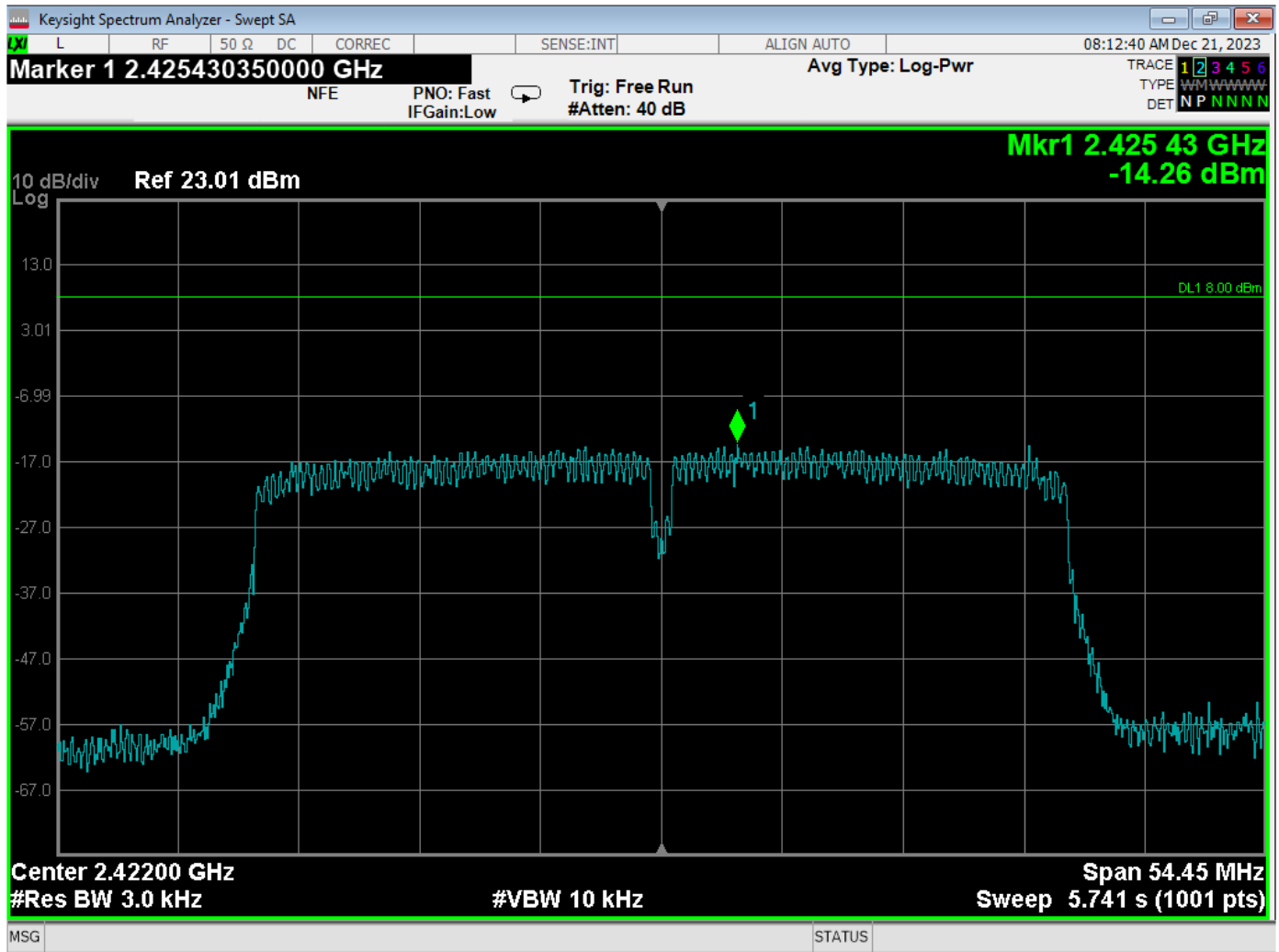


Peak Power Spectral Density – Middle Channel – 802.11n Mode – 20 MHz

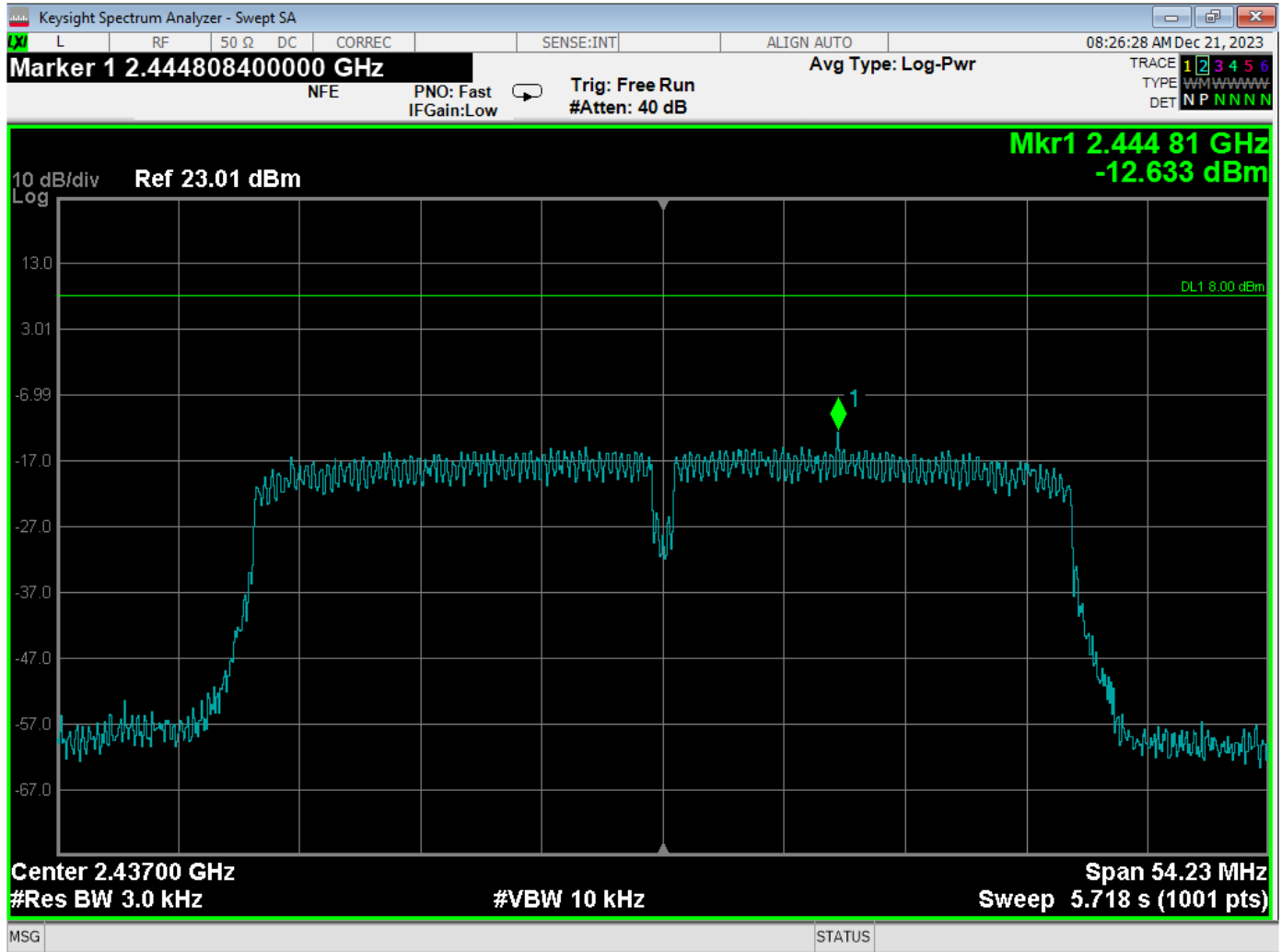


Peak Power Spectral Density – High Channel – 802.11n Mode – 20 MHz

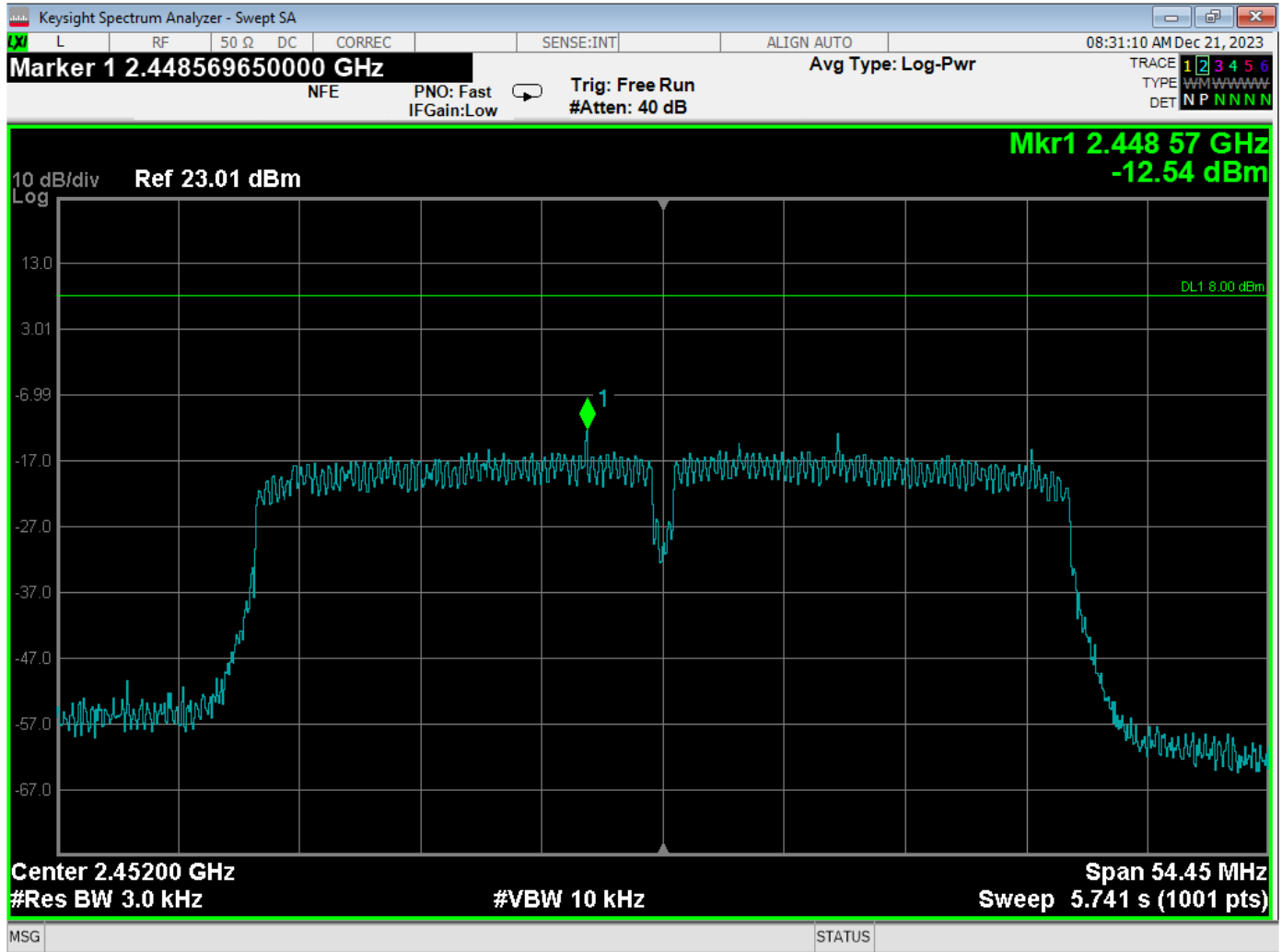




Peak Power Spectral Density – Low Channel – 802.11n Mode – 40 MHz

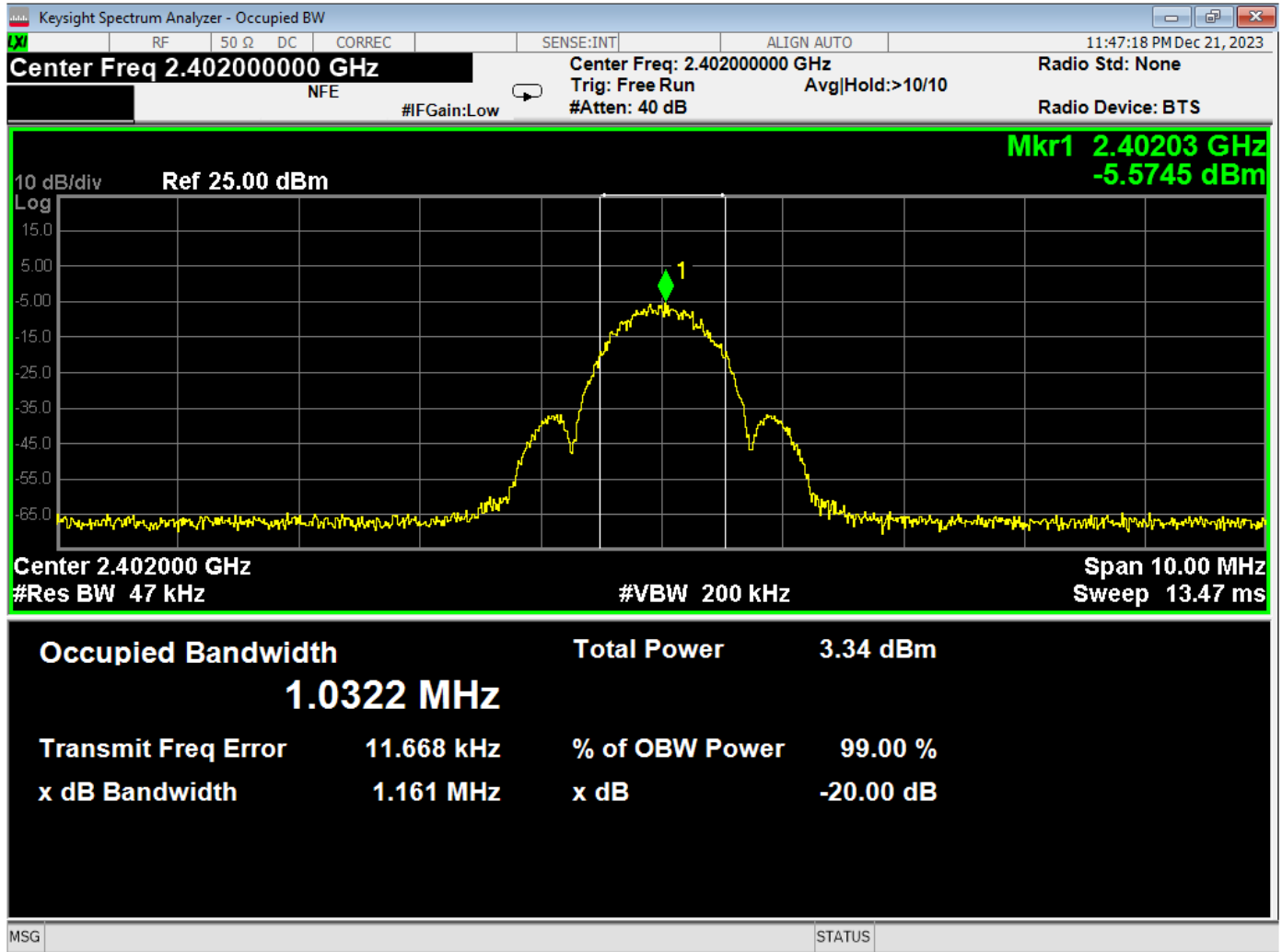


Peak Power Spectral Density – Middle Channel – 802.11n Mode – 40 MHz

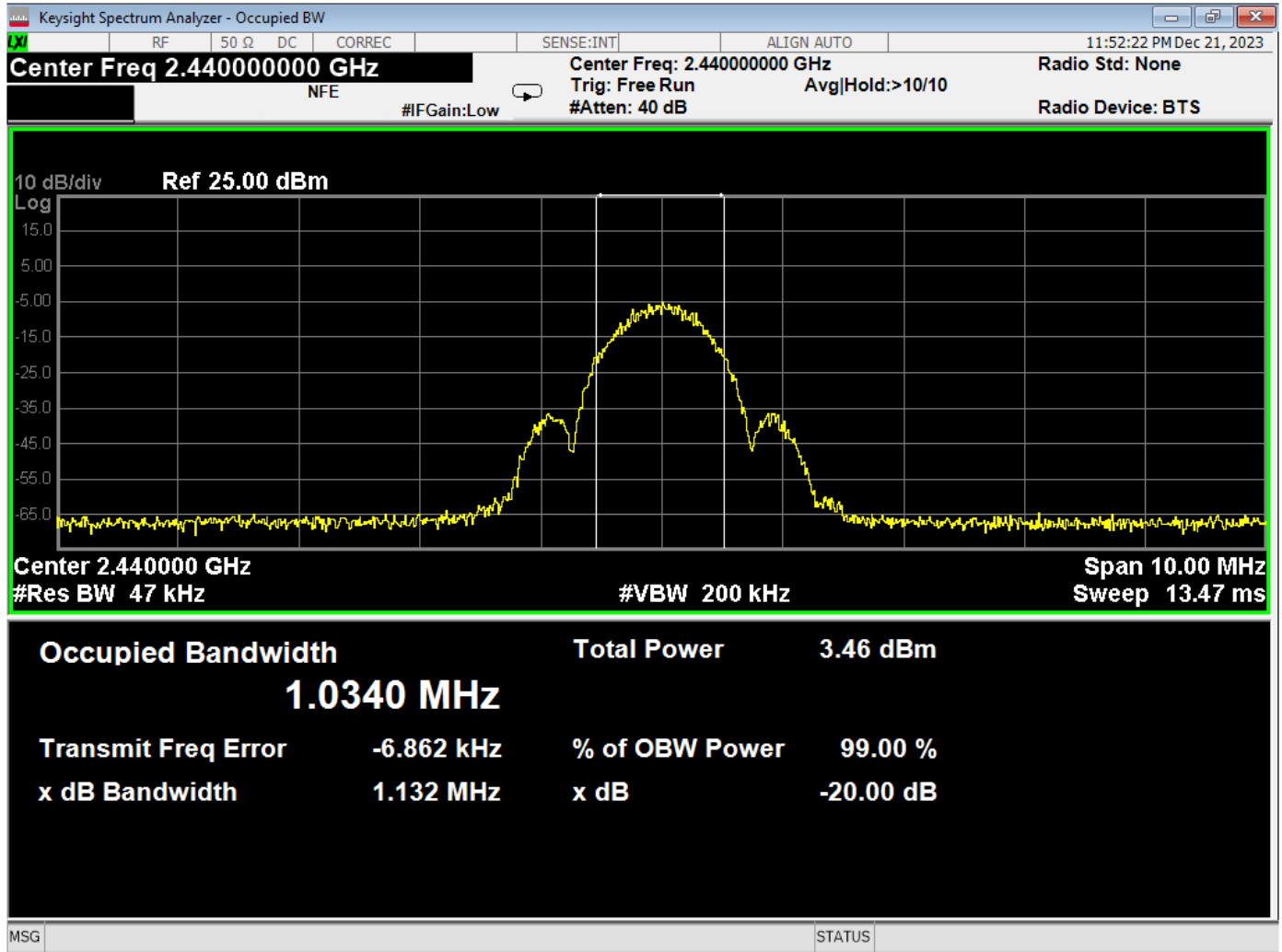


Peak Power Spectral Density – High Channel – 802.11n Mode – 40 MHz

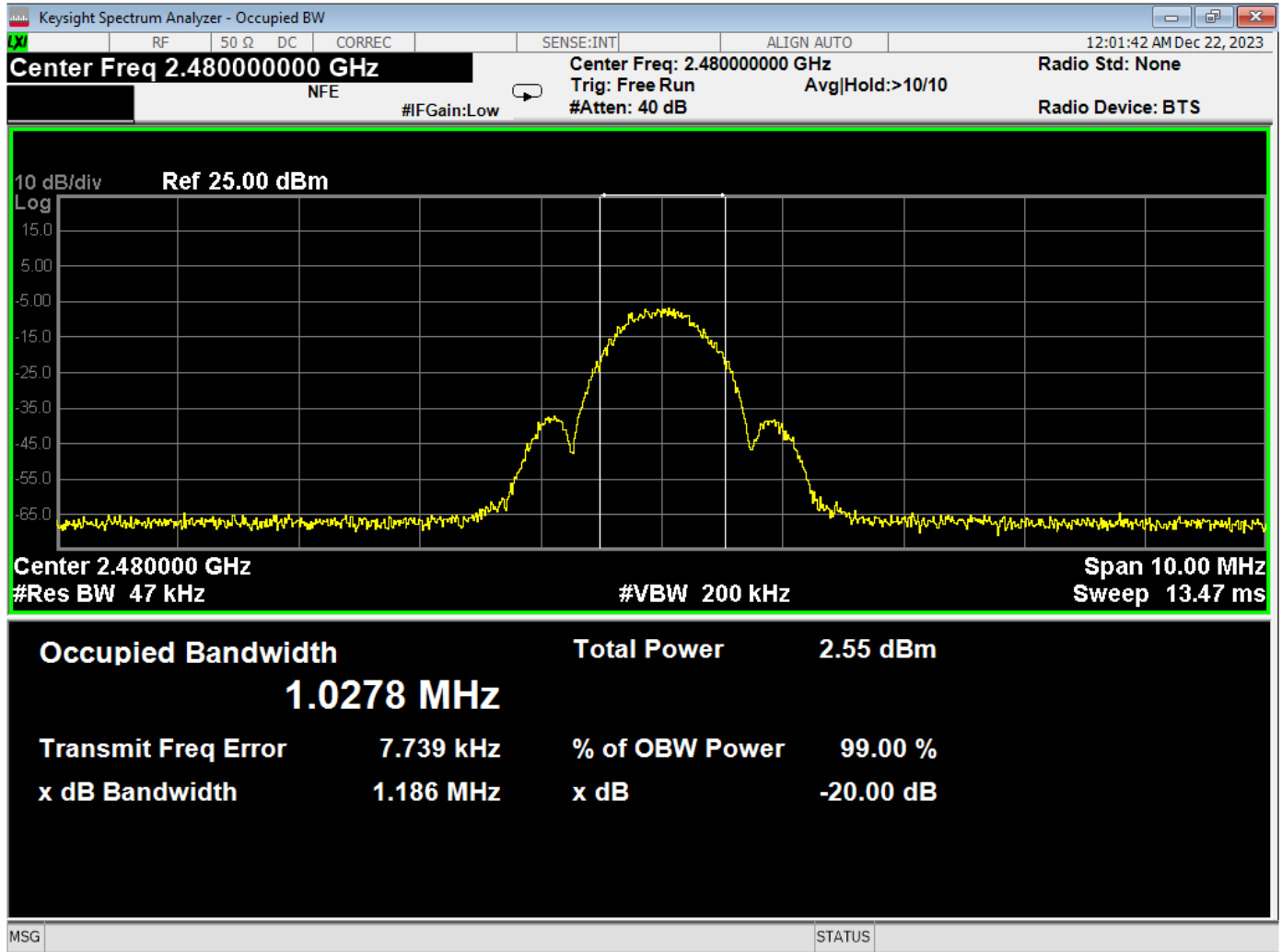
**99% BANDWIDTH**  
**DATA SHEETS**



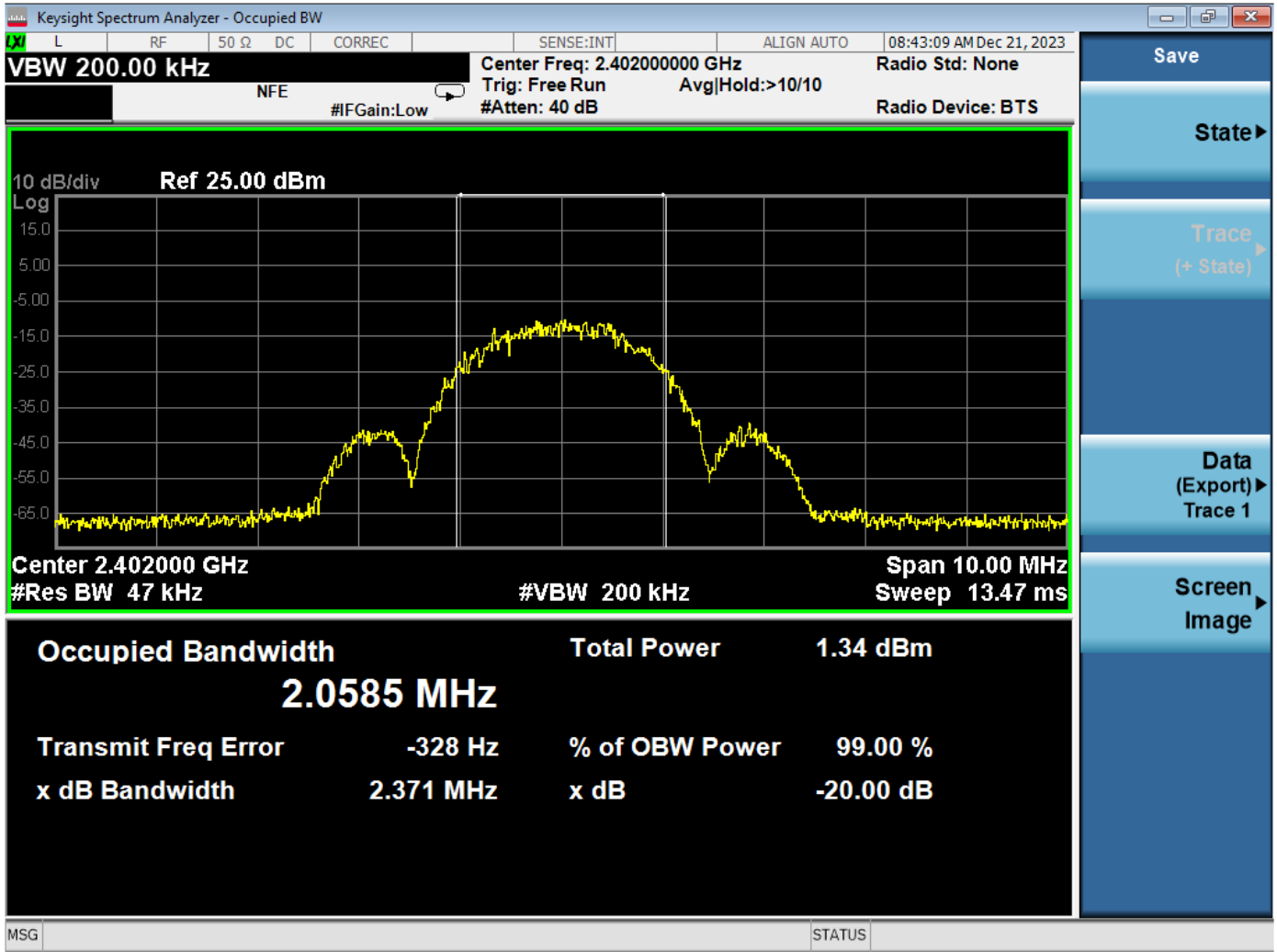
99% Bandwidth – Low Channel – BLE Mode – 1 Mbit



99% Bandwidth – Middle Channel – BLE Mode – 1 Mbit

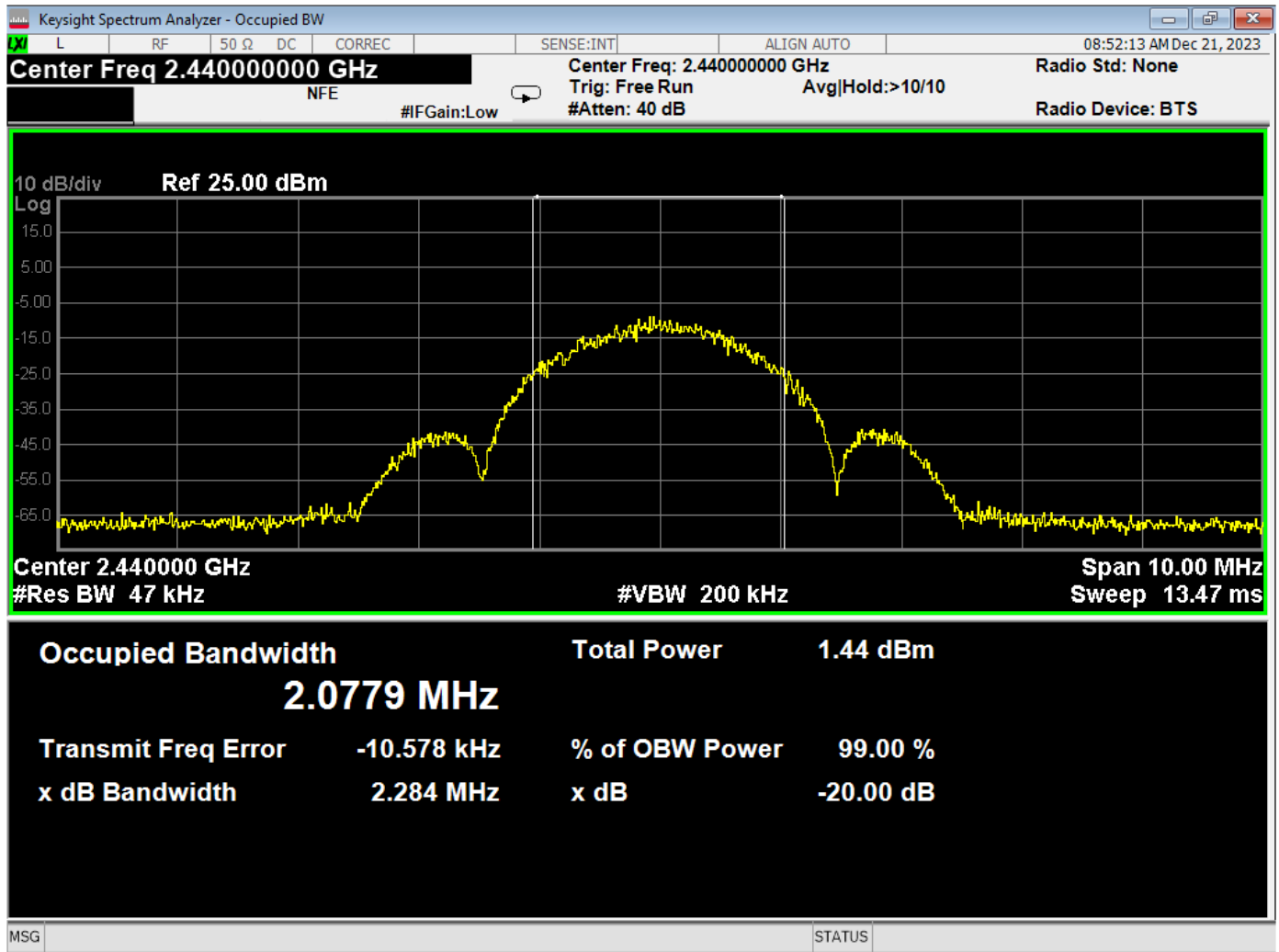


99% Bandwidth – High Channel – BLE Mode – 1 Mbit

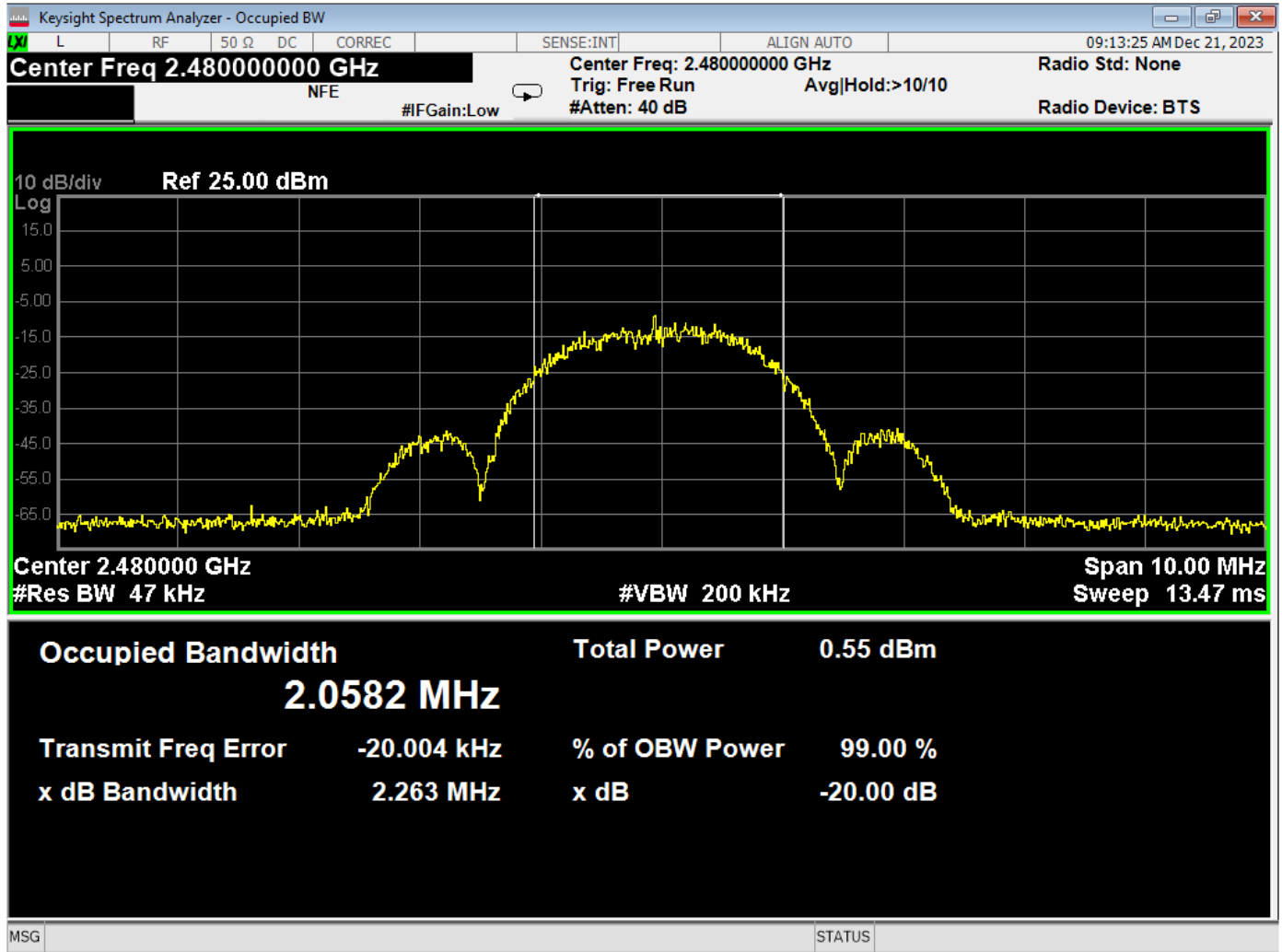


99% Bandwidth – Low Channel – BLE Mode – 2 Mbit

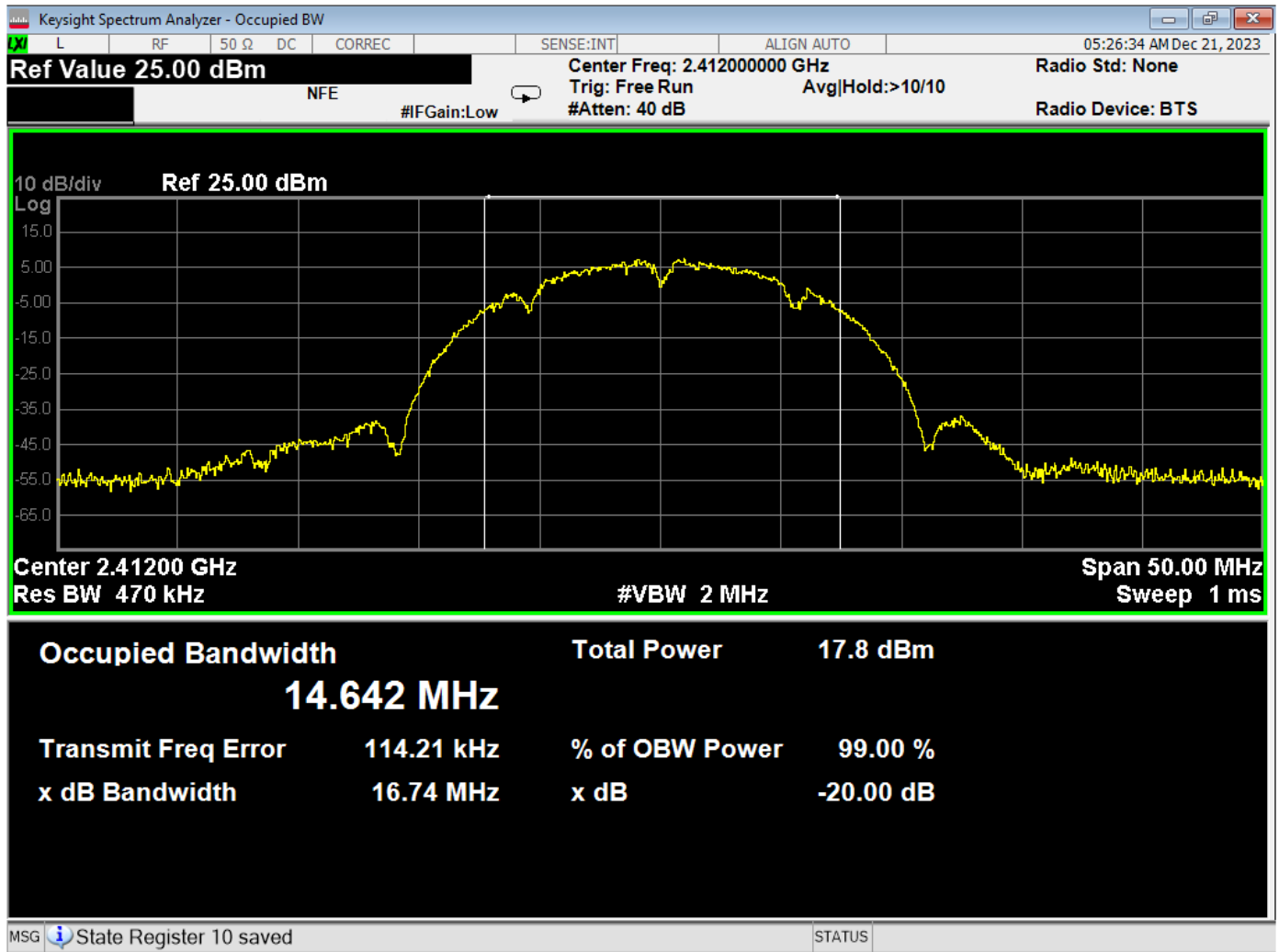




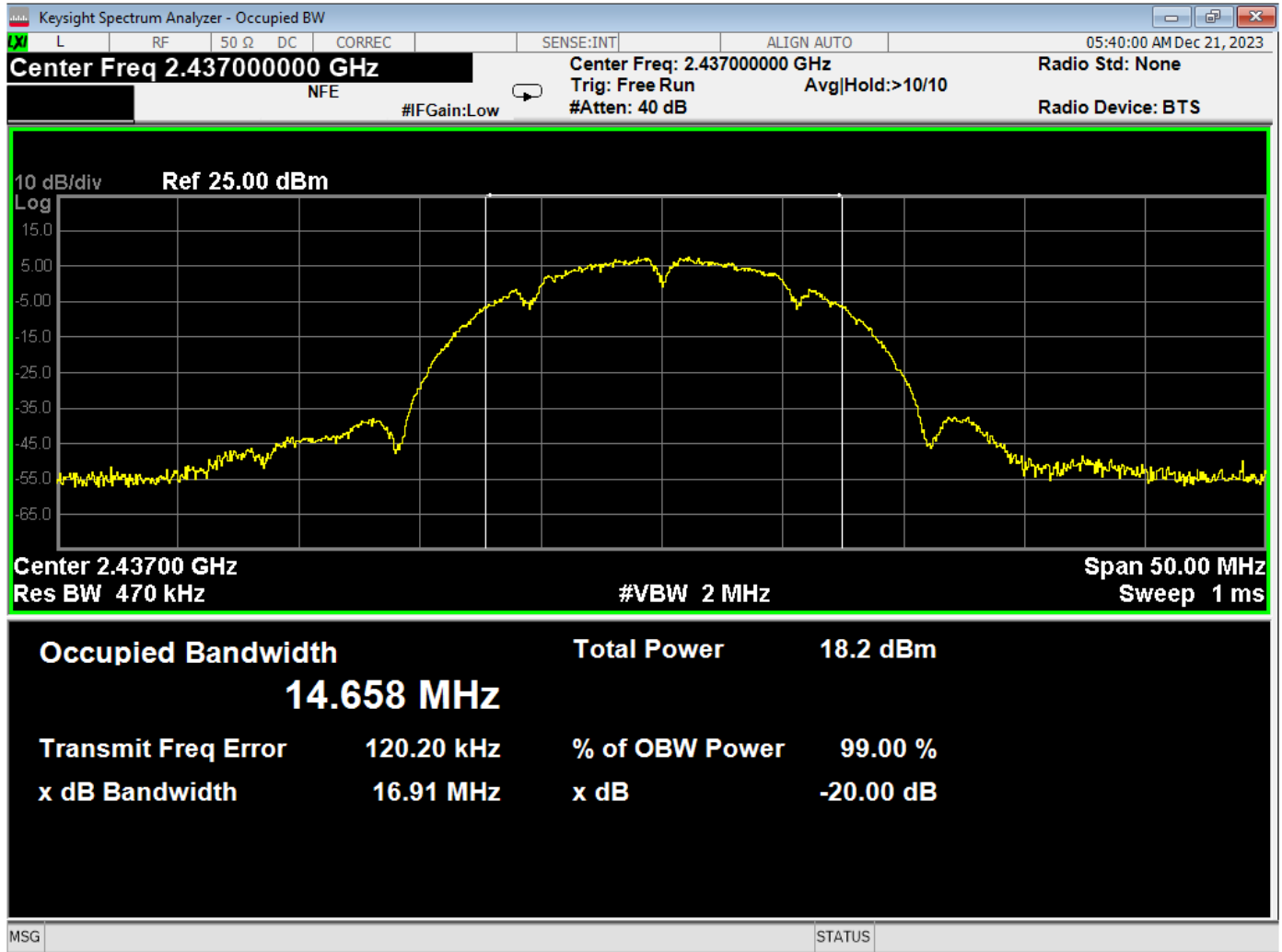
99% Bandwidth – Middle Channel – BLE Mode – 2 Mbit



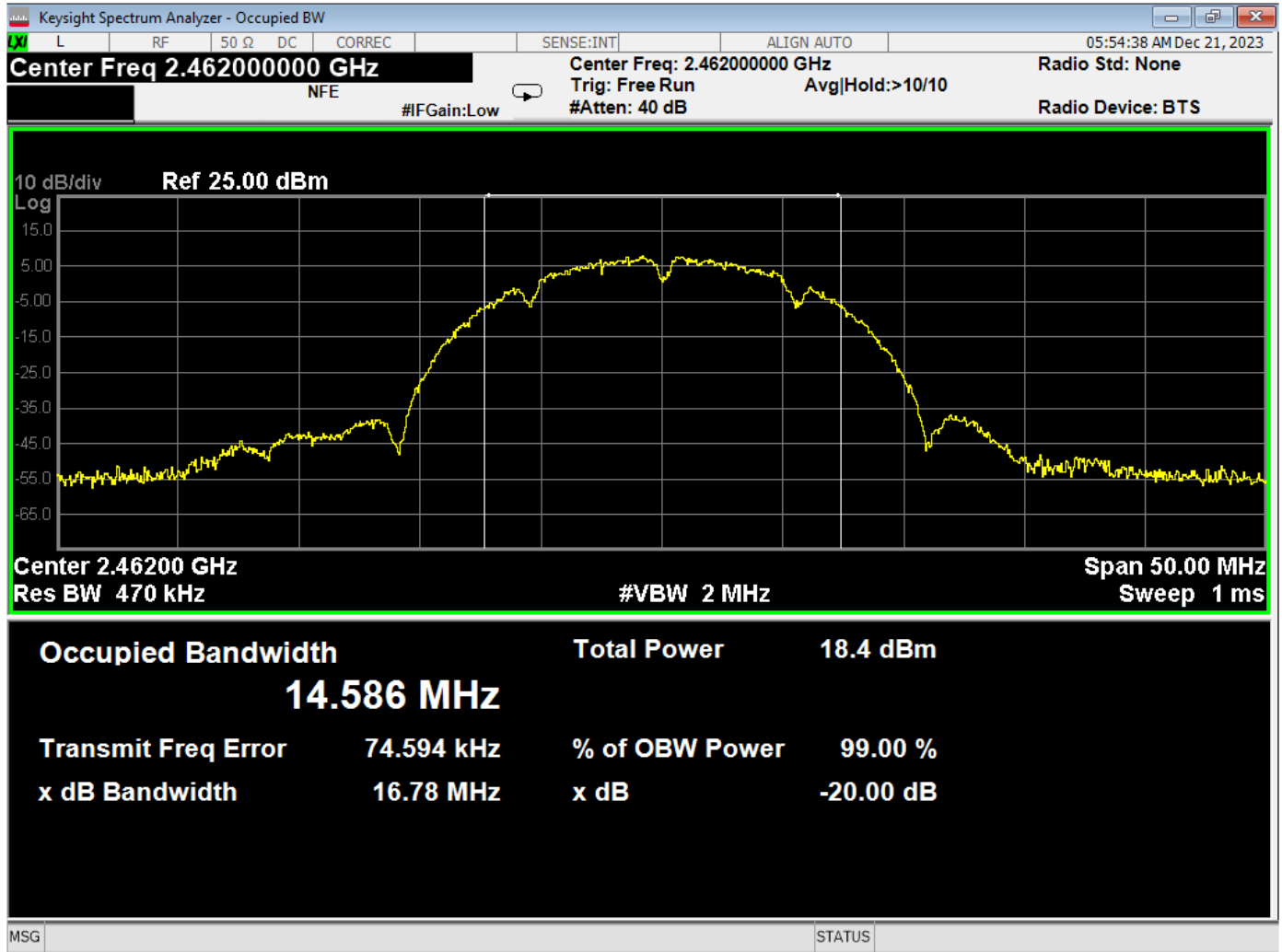
99% Bandwidth – High Channel – BLE Mode – 2 Mbit



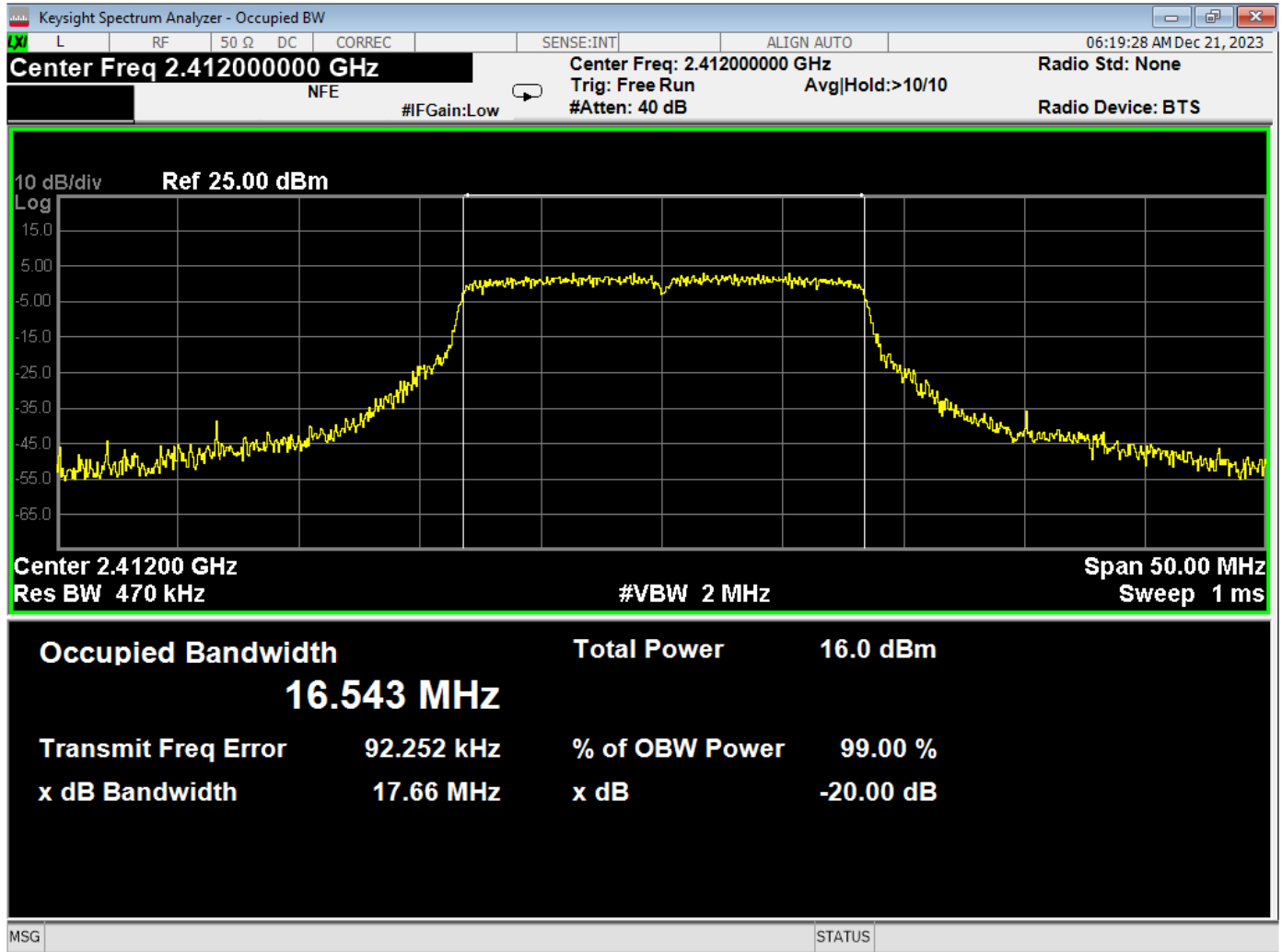
99% Bandwidth – Low Channel – 802.11b Mode



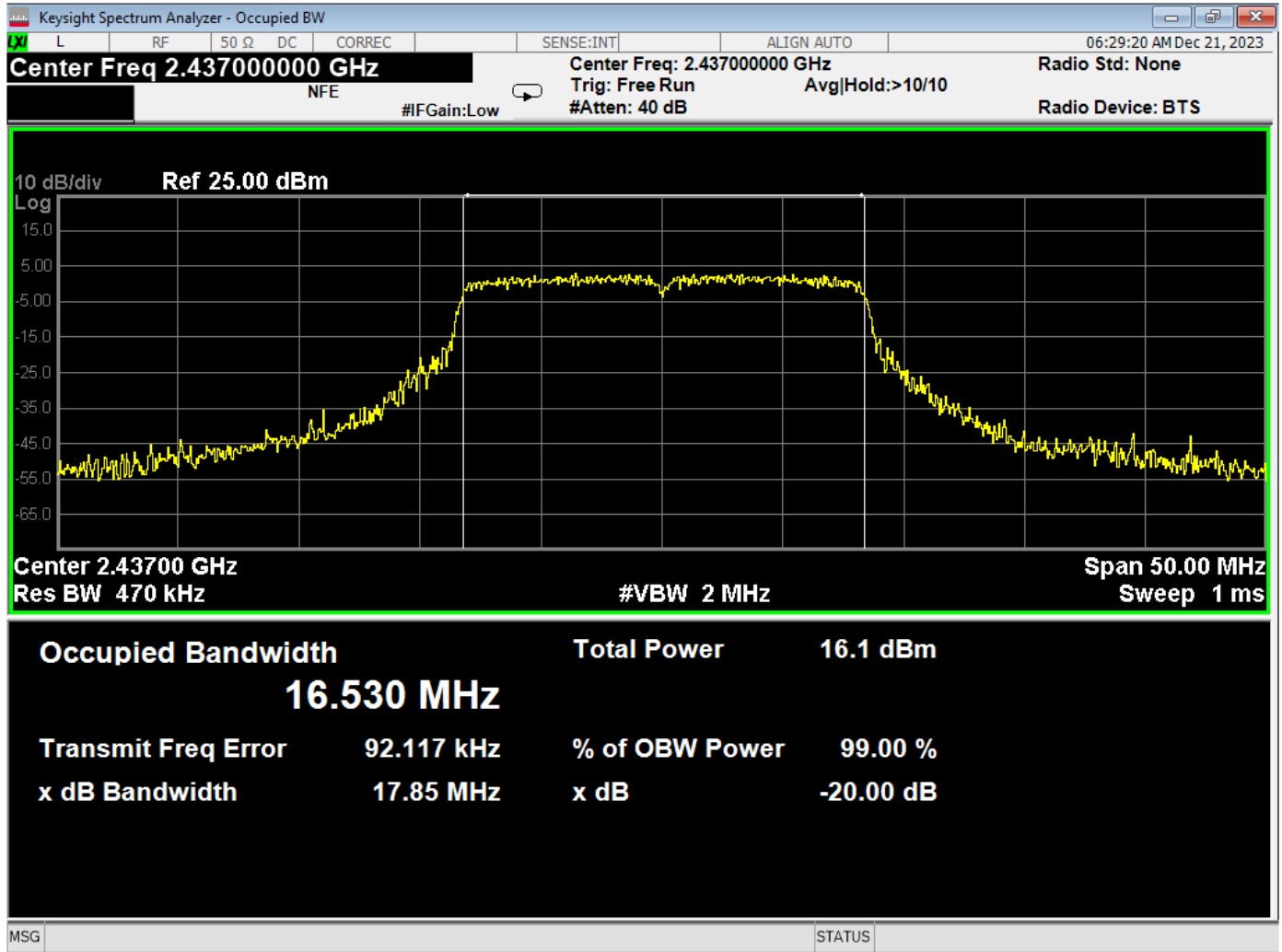
99% Bandwidth – Middle Channel – 802.11b Mode



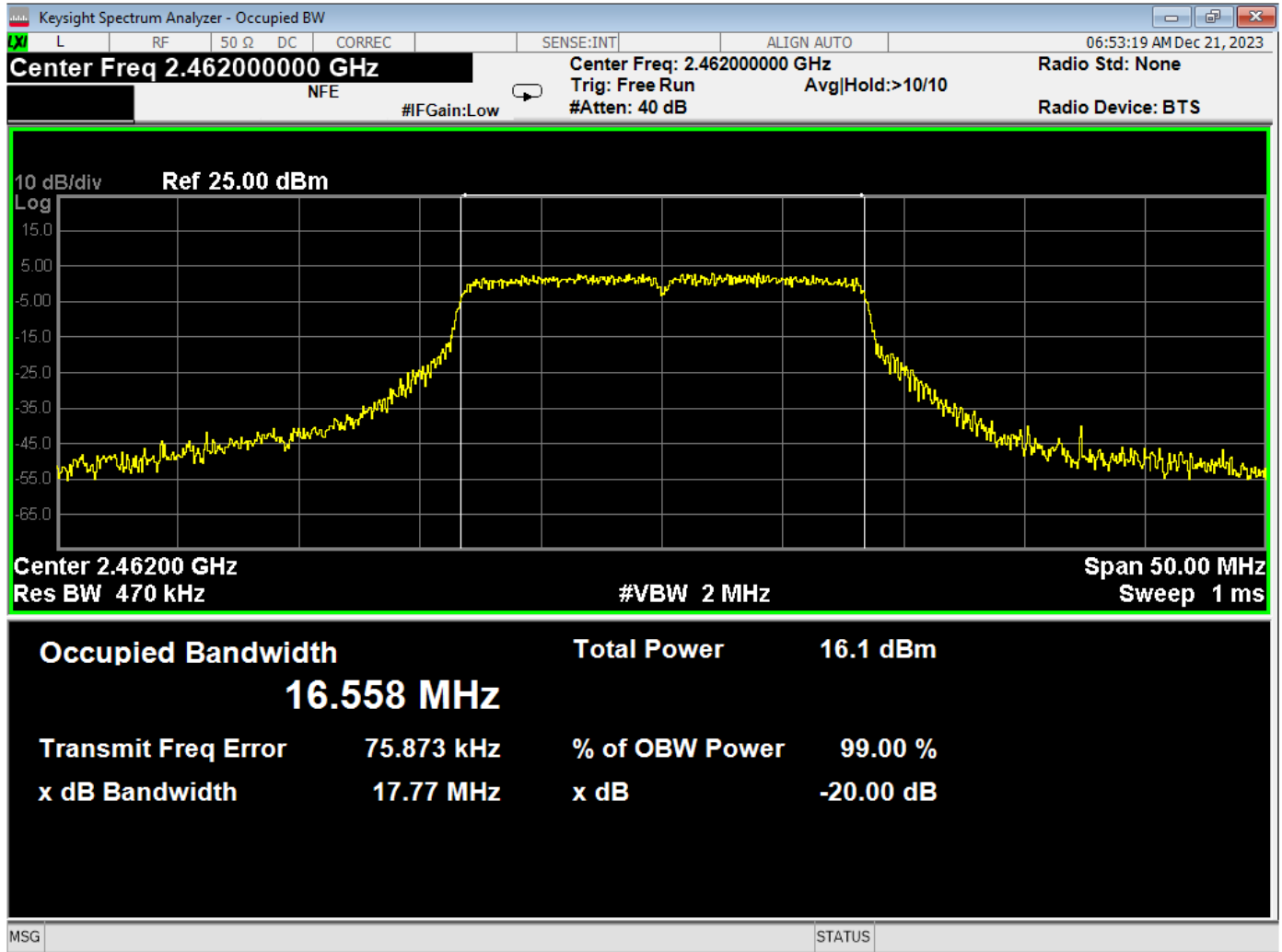
99% Bandwidth – High Channel – 802.11b Mode



99% Bandwidth – Low Channel – 802.11g Mode

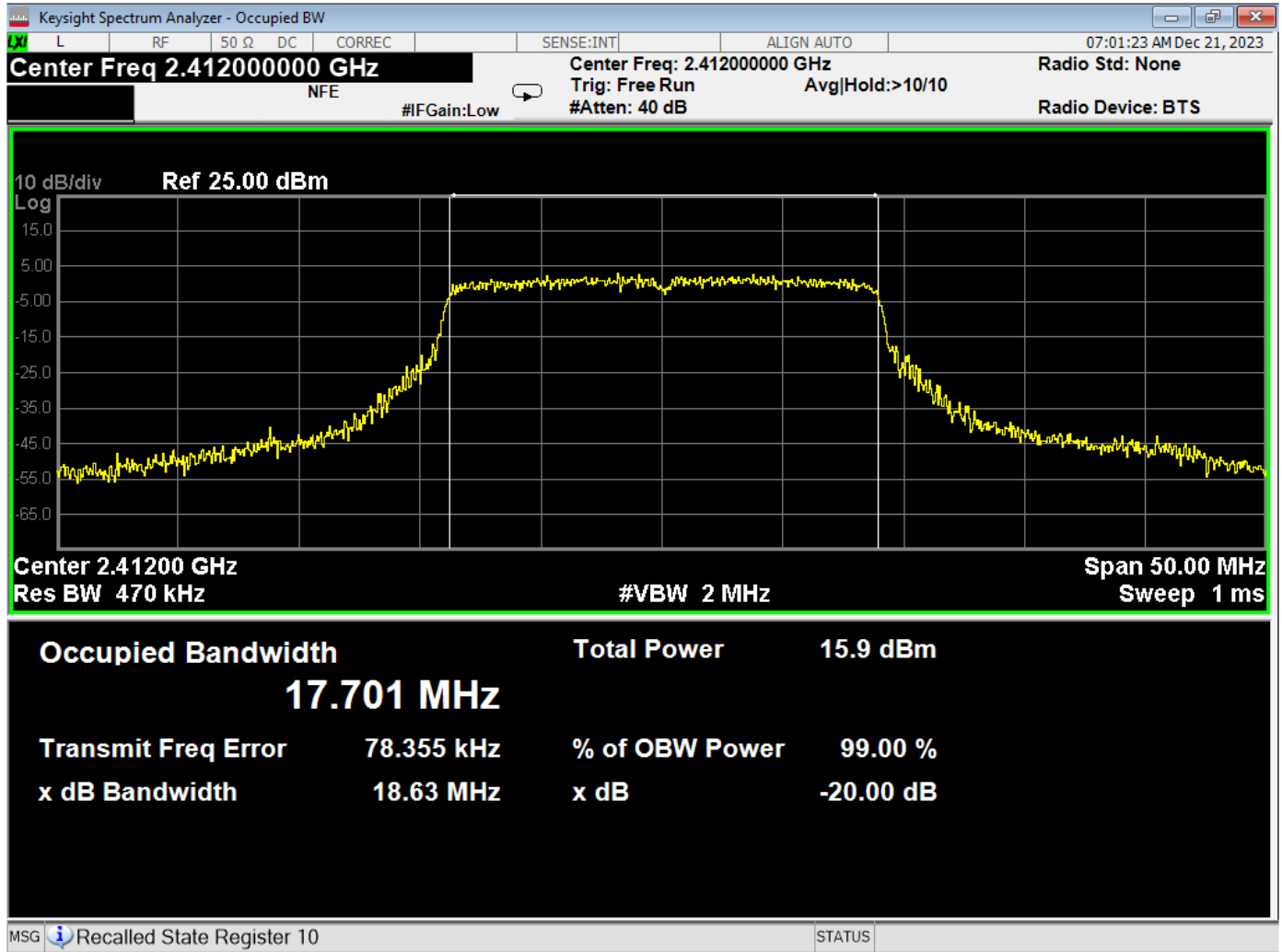


99% Bandwidth – Middle Channel – 802.11g Mode

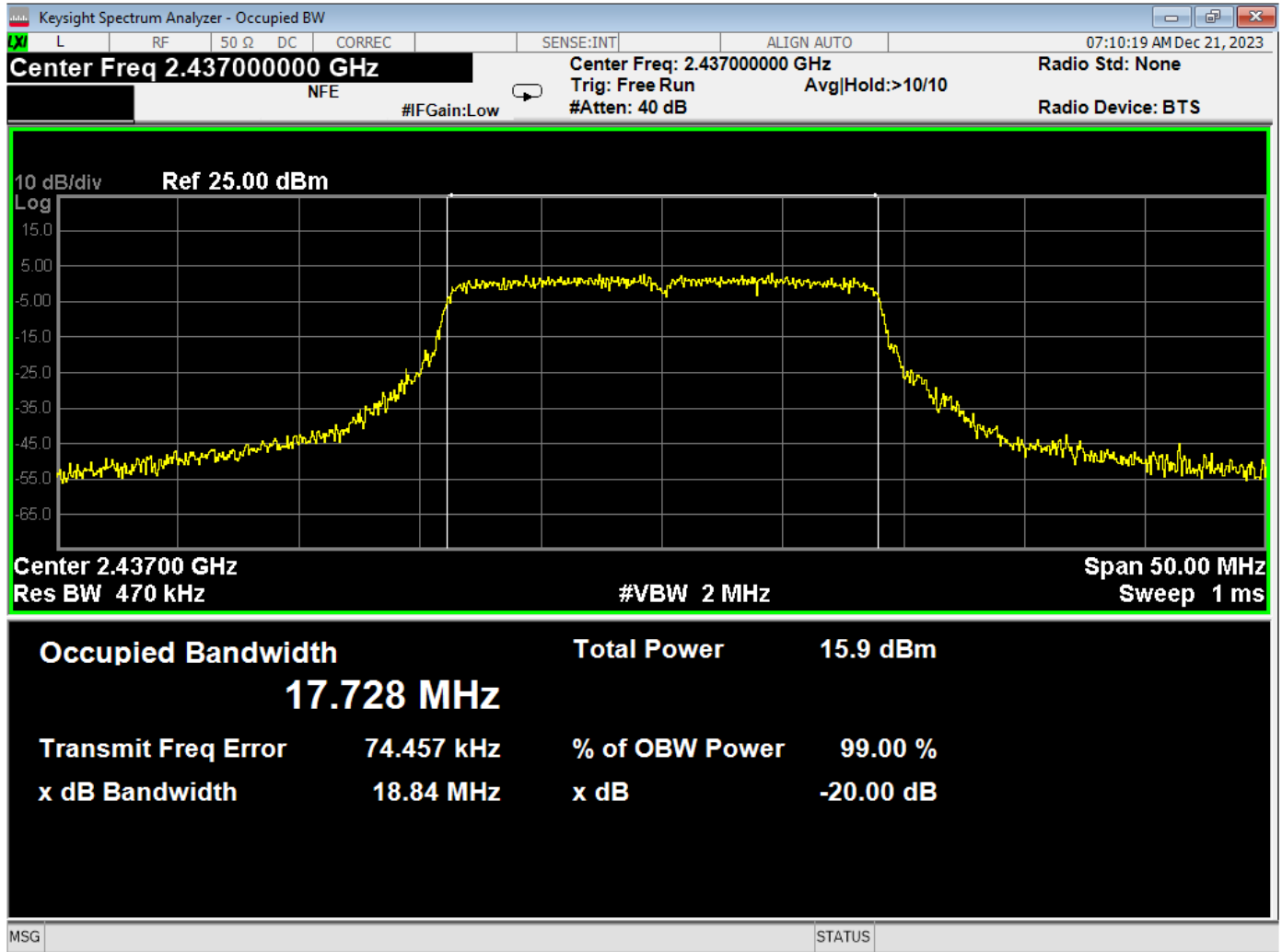


99% Bandwidth – High Channel – 802.11g Mode

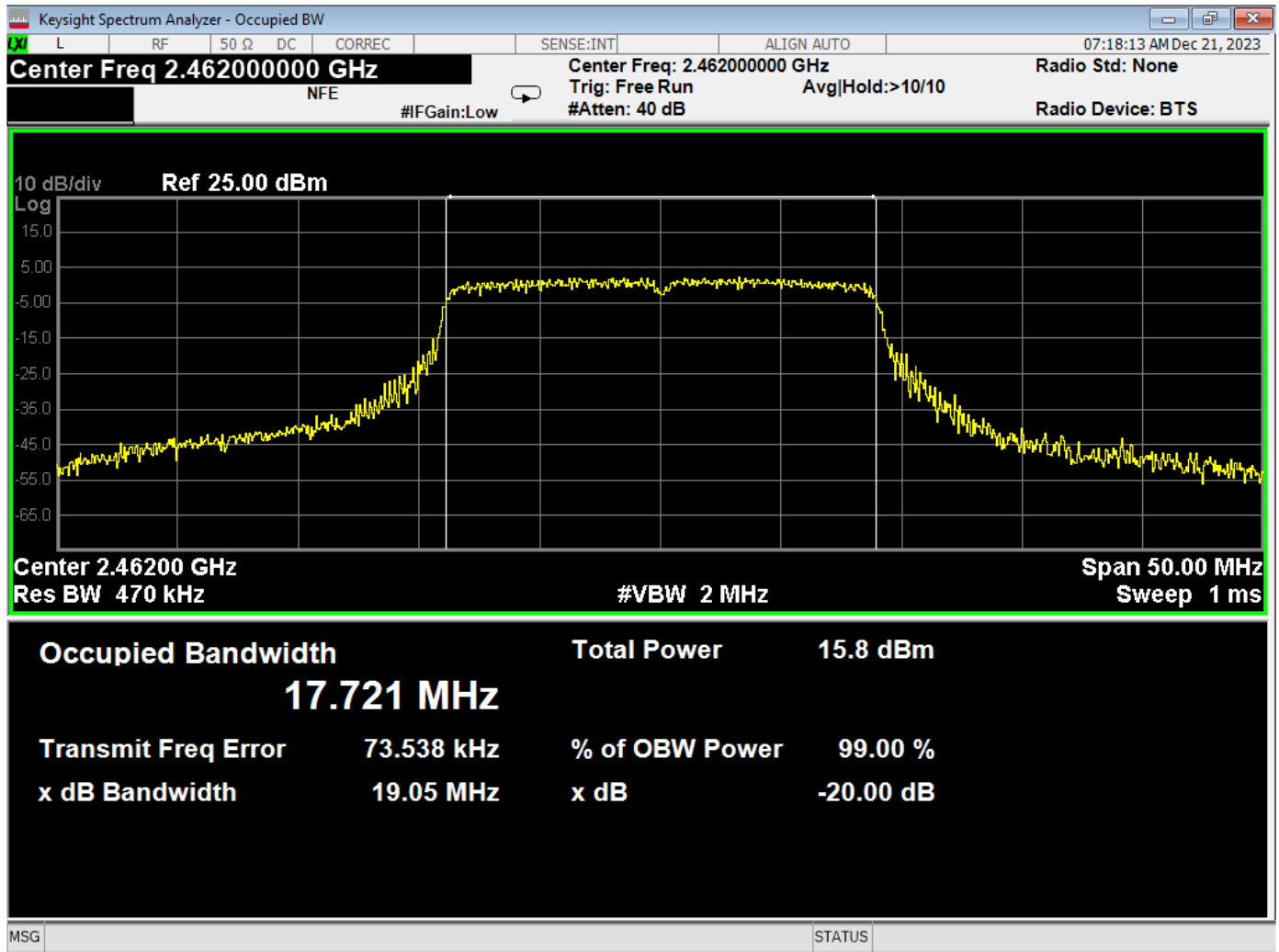




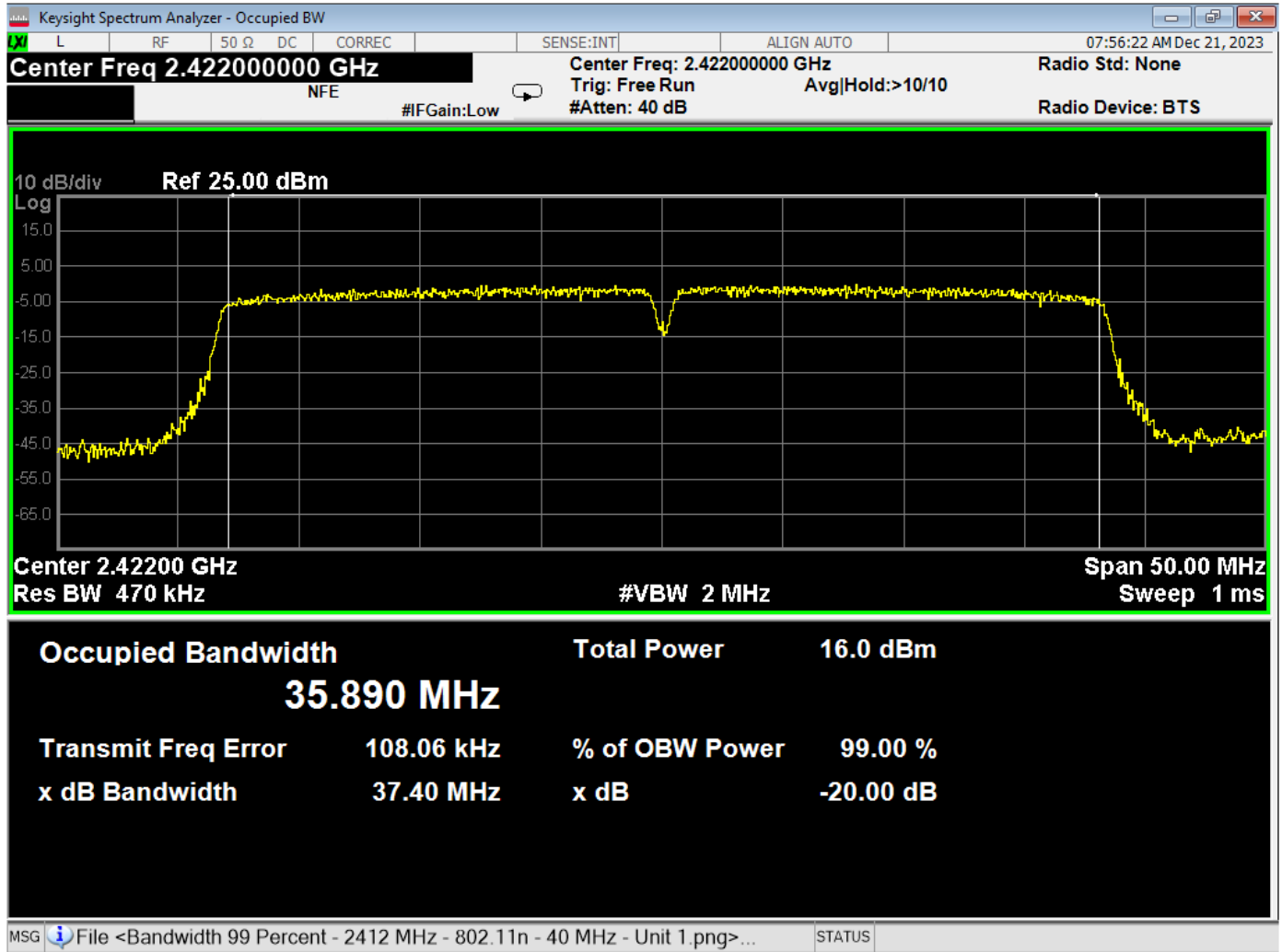
99% Bandwidth – Low Channel – 802.11n Mode – 20 MHz



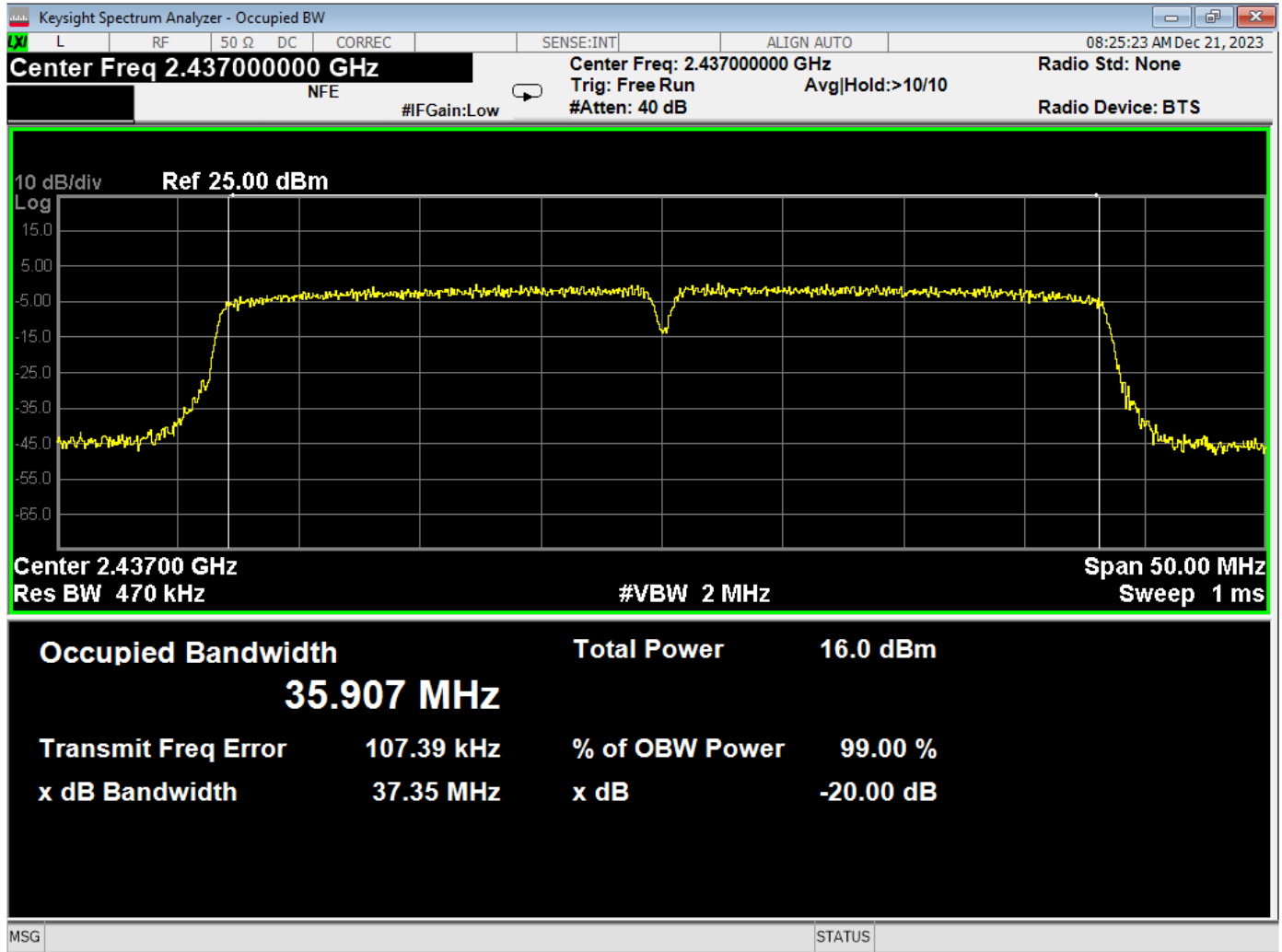
99% Bandwidth – Middle Channel – 802.11n Mode – 20 MHz



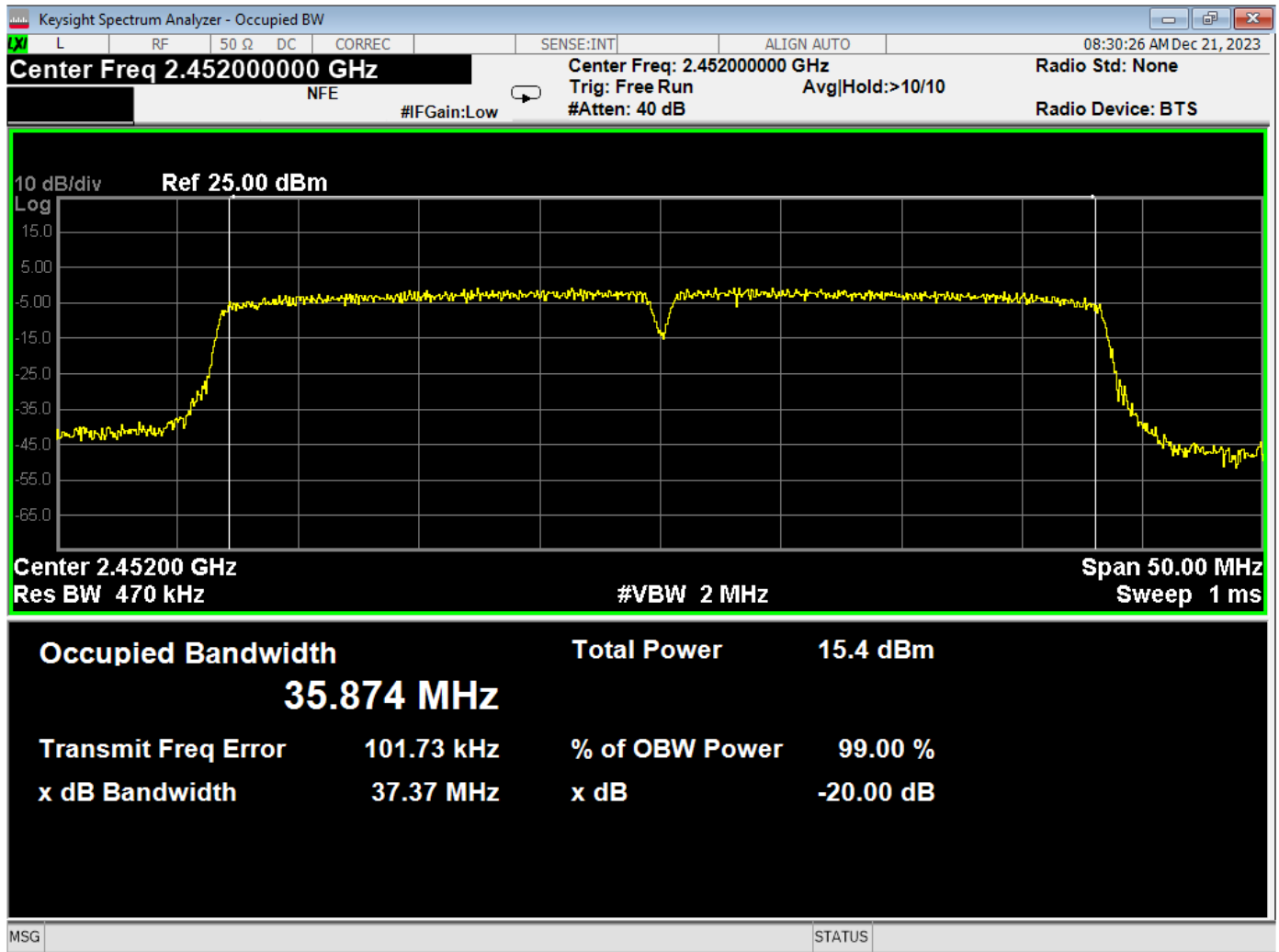
99% Bandwidth – High Channel – 802.11n Mode – 20 MHz



99% Bandwidth – Low Channel – 802.11n Mode – 40 MHz



99% Bandwidth – Middle Channel – 802.11n Mode – 40 MHz



99% Bandwidth – High Channel – 802.11n Mode – 40 MHz

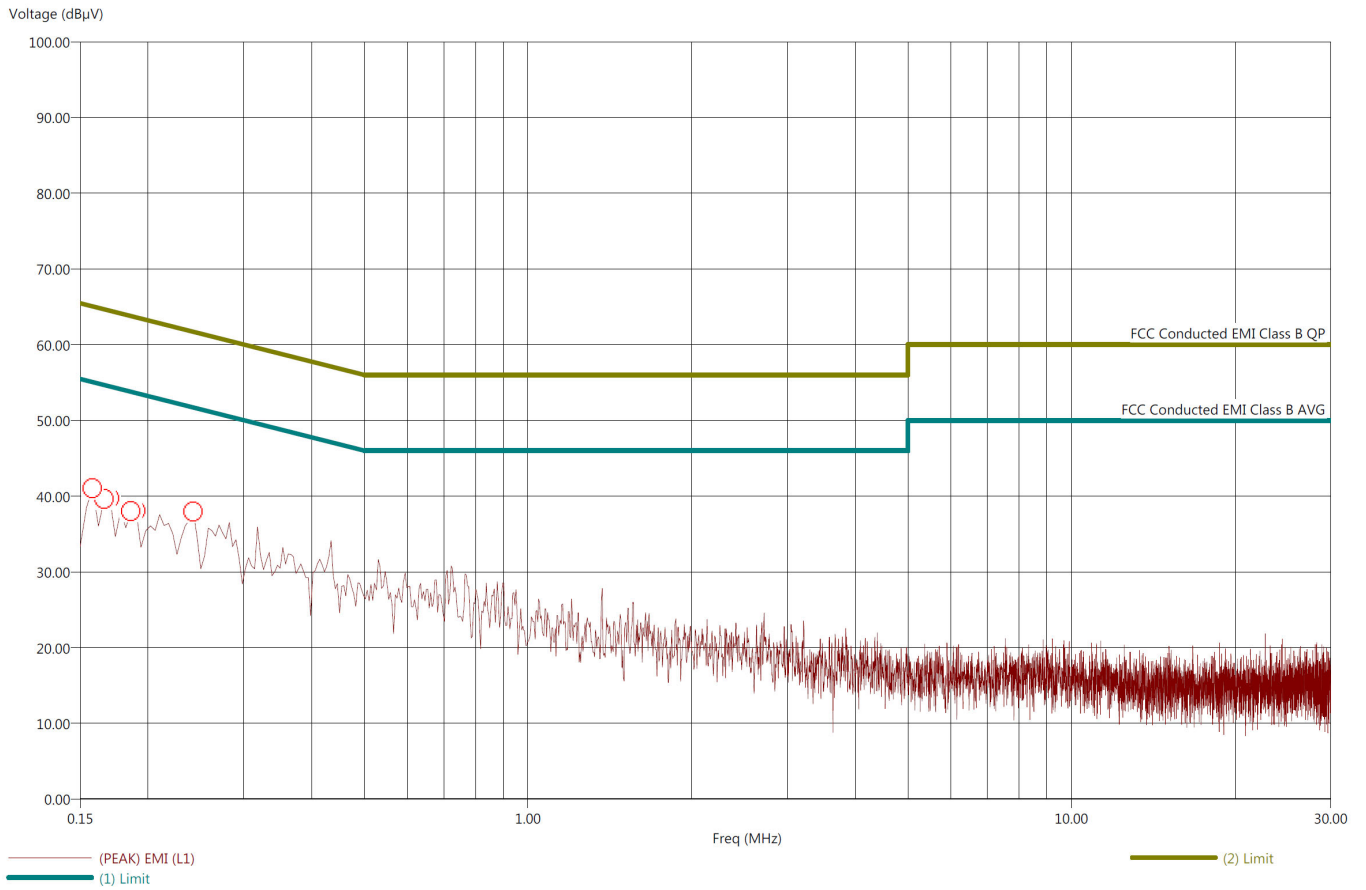


***CONDUCTED EMISSIONS  
DATA SHEETS***

Title: FCC Class B - Black Lead  
File: 1 - Pre-Scan - BL - BLE - 1 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
Operator: Kyle Fujimoto  
EUT Type: Carrier Entry Level and ICP Thermostat 2024  
EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 1 MBit  
Company: Universal Electronics, Inc.  
Model: TSTATCCEWF-01  
S/N: Unit 4  
Y-Axis

12/22/2023 8:13:14 AM  
Sequence: Preliminary Scan

Black Lead





Title: FCC Class B - Black Lead  
 File: 1 - Final Scan - BL - BLE - 1 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 1 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:16:08 AM  
 Sequence: Final Measurements

**Black Lead**

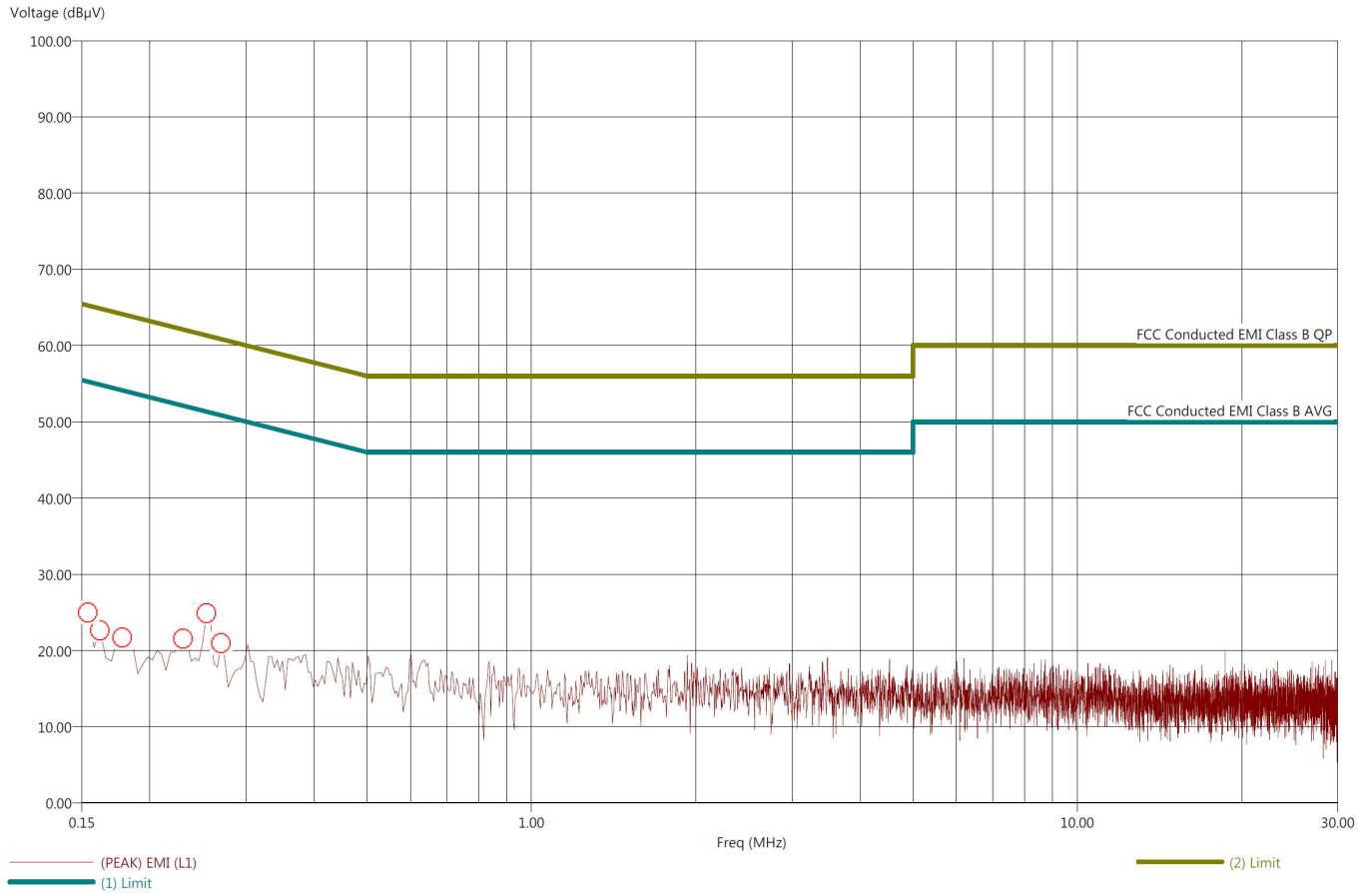
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	(AVG) Limit (dBµV)	(AVG) Margin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)
0.158	45.13	33.40	-10.37	55.50	-22.10	0.28	0.09	10.10
0.166	44.10	32.25	-10.35	54.45	-22.20	0.28	0.08	10.10
0.170	45.37	32.18	-9.04	54.40	-22.23	0.28	0.08	10.10
0.186	43.96	31.46	-9.83	53.79	-22.33	0.28	0.07	10.10
0.190	44.62	31.10	-9.02	53.64	-22.54	0.28	0.07	10.10
0.242	41.69	29.14	-10.02	51.71	-22.57	0.31	0.05	10.10



Title: FCC Class B - White Lead  
File: 1 - Pre-Scan - WL - BLE - 1 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
Operator: Kyle Fujimoto  
EUT Type: Carrier Entry Level and ICP Thermostat 2024  
EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 1 MBit  
Company: Universal Electronics, Inc.  
Model: TSTATCCEWF-01  
S/N: Unit 4  
Y-Axis

12/22/2023 8:19:45 AM  
Sequence: Preliminary Scan

White Lead



Title: FCC Class B - White Lead  
 File: 1 - Final Scan - WL - BLE - 1 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 1 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:20:46 AM  
 Sequence: Final Measurements

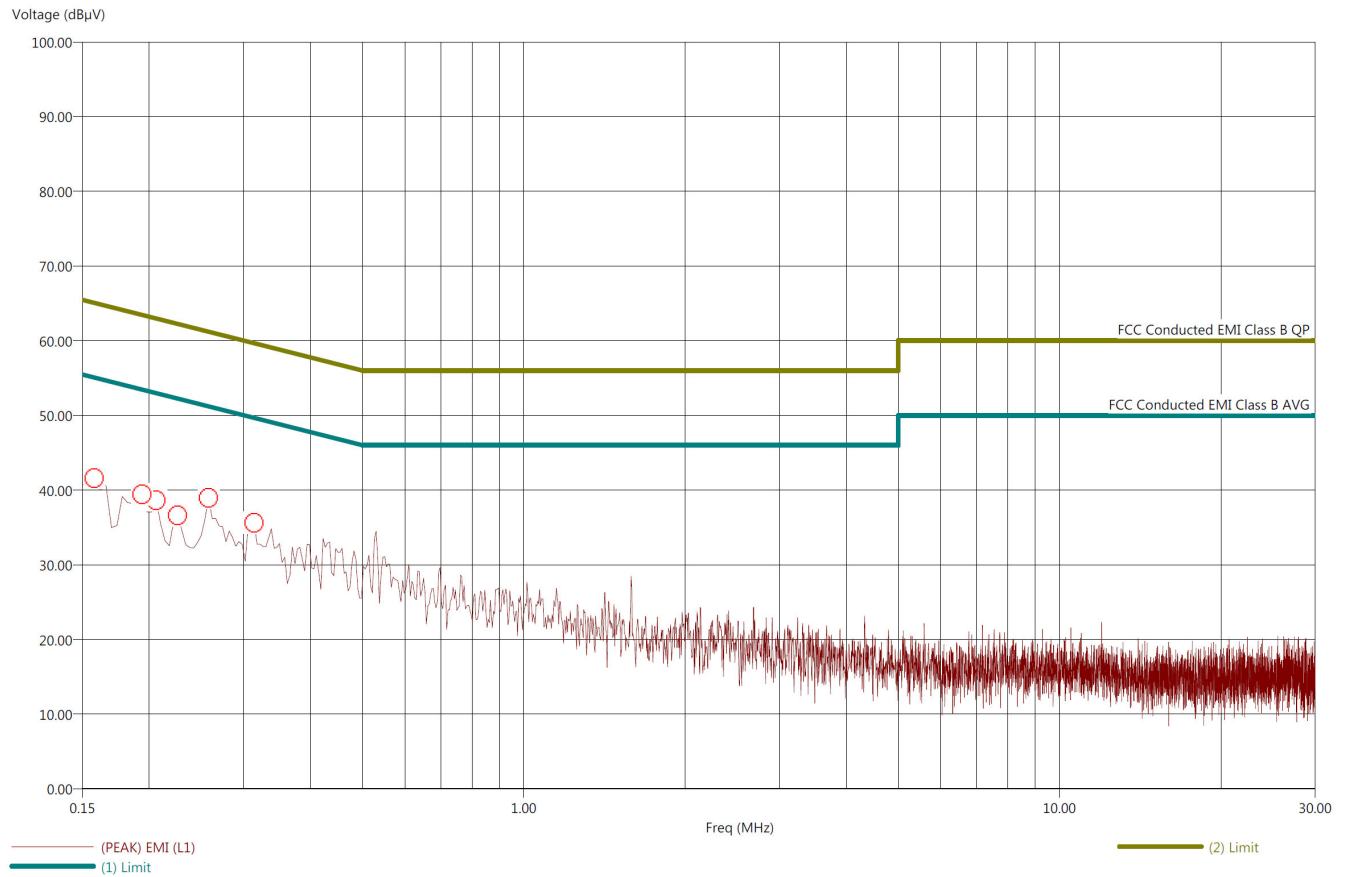
White Lead									
Freq (MHz)	(PEAK) EMI (dBμV)	(AVG) EMI (dBμV)	(PEAK) Margin (AVG) (dB)	(AVG) Limit (dBμV)	(AVG) Margin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.154	36.93	18.57	-18.30	55.23	-36.66	0.28	0.09	10.10	
0.162	36.95	18.40	-18.31	55.26	-36.86	0.28	0.09	10.10	
0.178	35.33	17.55	-19.24	54.57	-37.02	0.28	0.08	10.10	
0.230	29.32	14.89	-22.64	51.96	-37.07	0.30	0.06	10.10	
0.254	29.43	14.25	-21.96	51.39	-37.14	0.31	0.05	10.10	
0.270	27.51	14.11	-23.60	51.11	-37.00	0.32	0.05	10.10	



Title: FCC Class B - Black Lead  
 File: 2 - Pre-Scan - BL - BLE - 2 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 2 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:24:51 AM  
 Sequence: Preliminary Scan

Black Lead



Title: FCC Class B - Black Lead  
 File: 2 - Final Scan - BL - BLE - 2 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 2 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:25:52 AM  
 Sequence: Final Measurements

## Black Lead

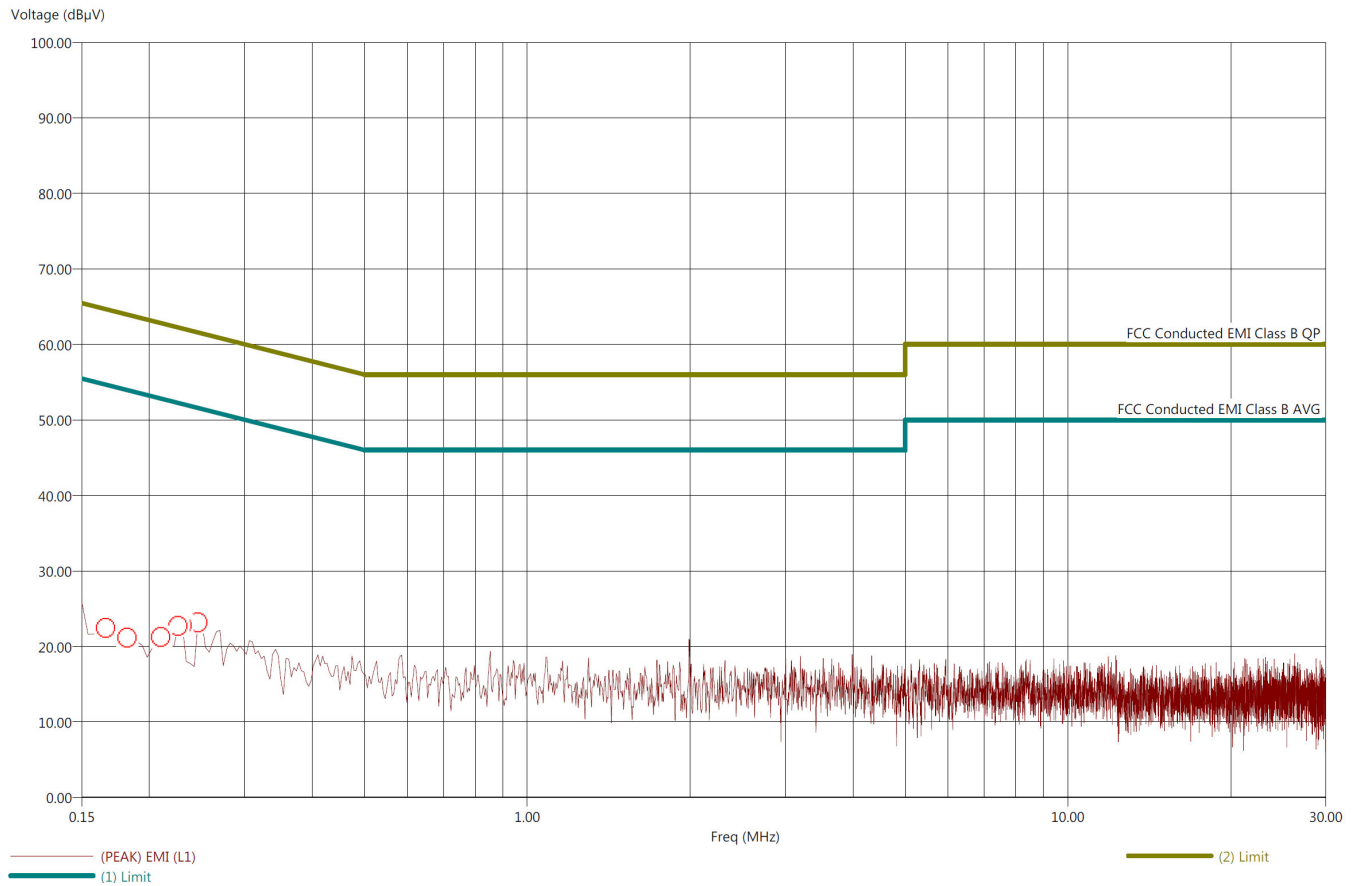
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	(AVG) Limit (dBµV)	(AVG) Margin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)
0.158	45.47	33.08	-9.50	54.98	-21.89	0.28	0.09	10.10
0.194	43.71	31.46	-9.94	53.65	-22.19	0.28	0.07	10.10
0.206	43.37	30.01	-9.31	52.67	-22.67	0.29	0.06	10.10
0.226	42.80	29.54	-9.32	52.13	-22.58	0.30	0.05	10.10
0.258	41.31	28.67	-10.06	51.37	-22.70	0.31	0.05	10.10
0.314	38.87	26.56	-10.64	49.50	-22.95	0.35	0.04	10.10



Title: FCC Class B - White Lead  
 File: 2 - Pre-Scan - WL - BLE - 2 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 2 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:29:06 AM  
 Sequence: Preliminary Scan

White Lead



Title: FCC Class B - White Lead  
 File: 2 - Final Scan - WL - BLE - 2 MBit - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting BLE at 2402 MHz at 2 MBit  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis

12/22/2023 8:30:09 AM  
 Sequence: Final Measurements

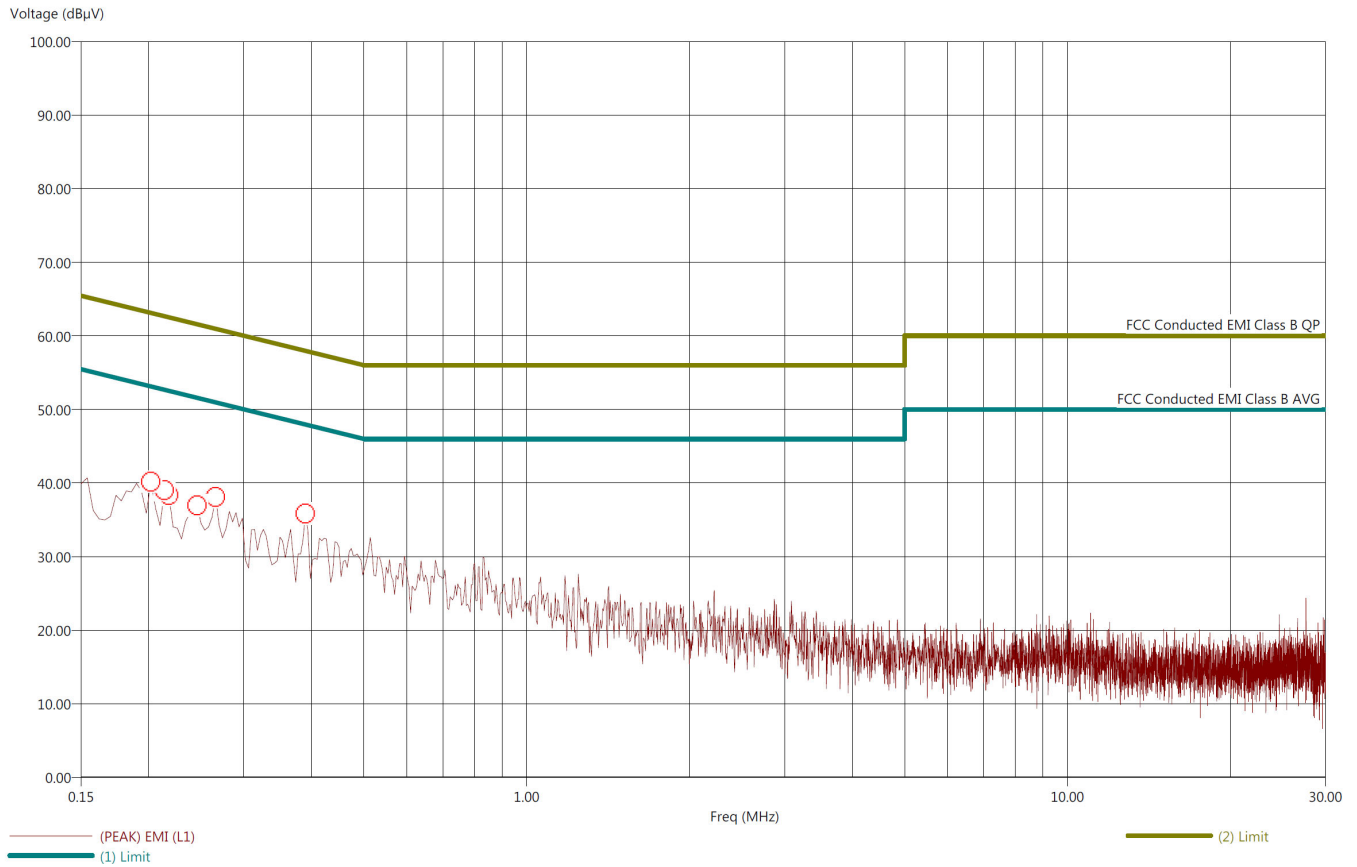
White Lead									
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	(AVG) Limit (dBµV)	(AVG) Margin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.166	35.16	18.12	-19.79	54.95	-36.83	0.28	0.09	10.10	
0.182	34.25	17.35	-19.98	54.23	-36.88	0.28	0.08	10.10	
0.210	31.42	15.76	-21.50	52.92	-37.16	0.28	0.06	10.10	
0.226	28.78	14.87	-23.16	51.94	-37.07	0.30	0.06	10.10	
0.230	28.82	14.66	-22.98	51.80	-37.14	0.31	0.06	10.10	
0.246	28.56	14.70	-23.08	51.64	-36.94	0.31	0.06	10.10	



Title: FCC Class B - Black Lead  
File: 3 - Pre-Scan - BL - 802.11b - Y-Axis - FCC Class B - 12-22-2023.set  
Operator: Kyle Fujimoto  
EUT Type: Carrier Entry Level and ICP Thermostat 2024  
EUT Condition: The EUT is continuously transmitting 802.11b at 2412 MHz  
Company: Universal Electronics, Inc.  
Model: TSTATCCEWF-01  
S/N: Unit 4  
Y-Axis  
Power Level 102

12/22/2023 8:39:19 AM  
Sequence: Preliminary Scan

Black Lead





Title: FCC Class B - Black Lead  
 File: 3 - Final Scan - BL - 802.11b - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting 802.11b at 2412 MHz  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis  
 Power Level 102

12/22/2023 8:40:43 AM  
 Sequence: Final Measurements

## Black Lead

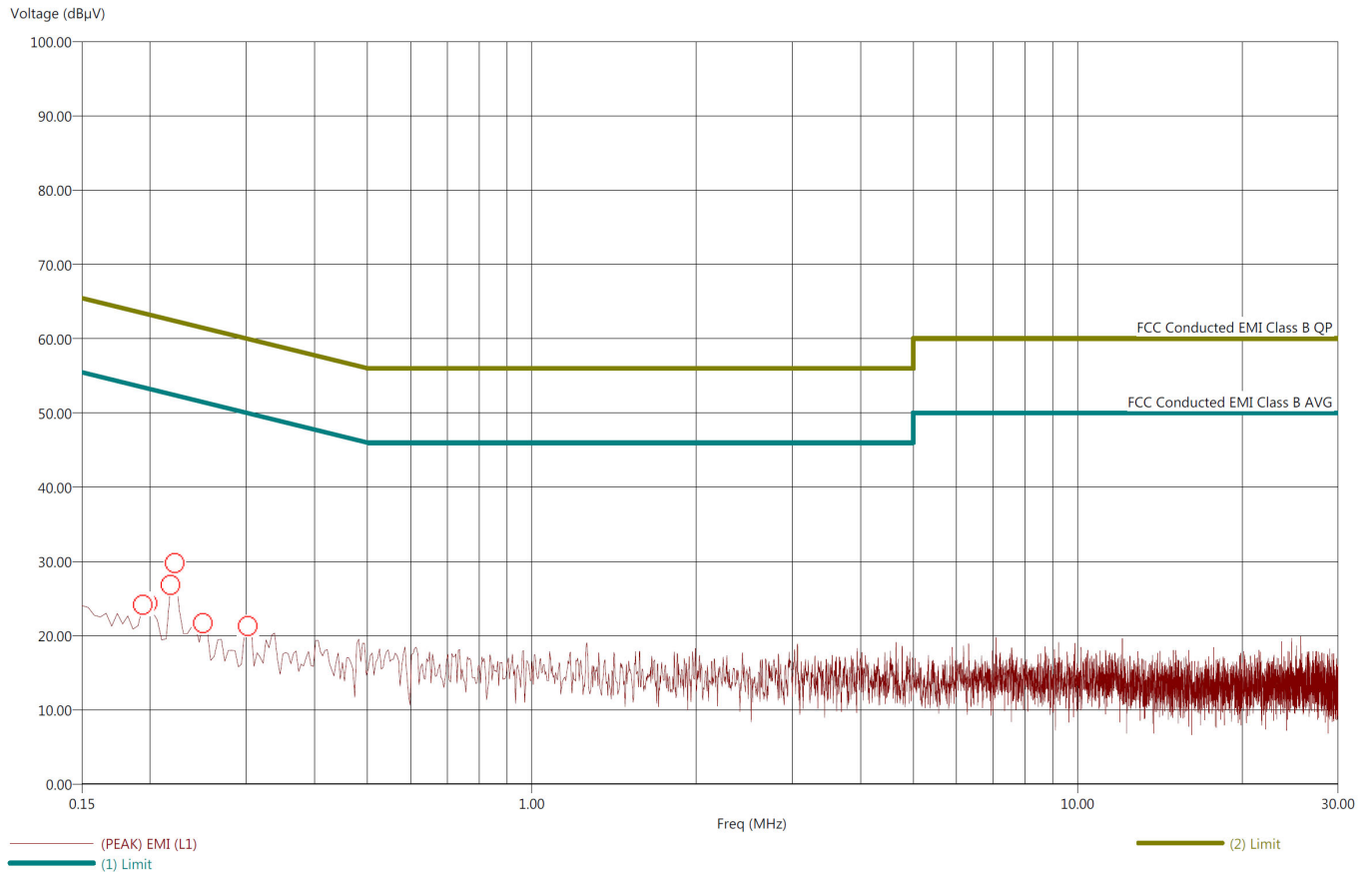
Freq (MHz)	(PEAK) EMI (dBμV)	(AVG) EMI (dBμV)	(PEAK) Margin (AVG) (dB)	(AVG) Limit (dBμV)	(AVG) Margin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)
0.202	43.74	30.70	-9.34	53.08	-22.38	0.28	0.06	10.10
0.214	42.82	29.72	-9.52	52.34	-22.62	0.30	0.05	10.10
0.218	41.86	29.35	-10.36	52.22	-22.87	0.30	0.05	10.10
0.246	40.61	28.75	-10.97	51.58	-22.83	0.31	0.05	10.10
0.266	40.64	28.20	-10.31	50.94	-22.75	0.32	0.05	10.10
0.390	38.26	24.99	-9.70	47.96	-22.97	0.37	0.03	10.10



Title: FCC Class B - White Lead  
 File: 3 - Pre-Scan - WL - 802.11b - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting 802.11b at 2412 MHz  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis  
 Power Level 102

12/22/2023 8:44:15 AM  
 Sequence: Preliminary Scan

White Lead



Title: FCC Class B - White Lead  
 File: 3 - Final Scan - WL - 802.11b - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting 802.11b at 2412 MHz  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis  
 Power Level 102

12/22/2023 8:45:25 AM  
 Sequence: Final Measurements

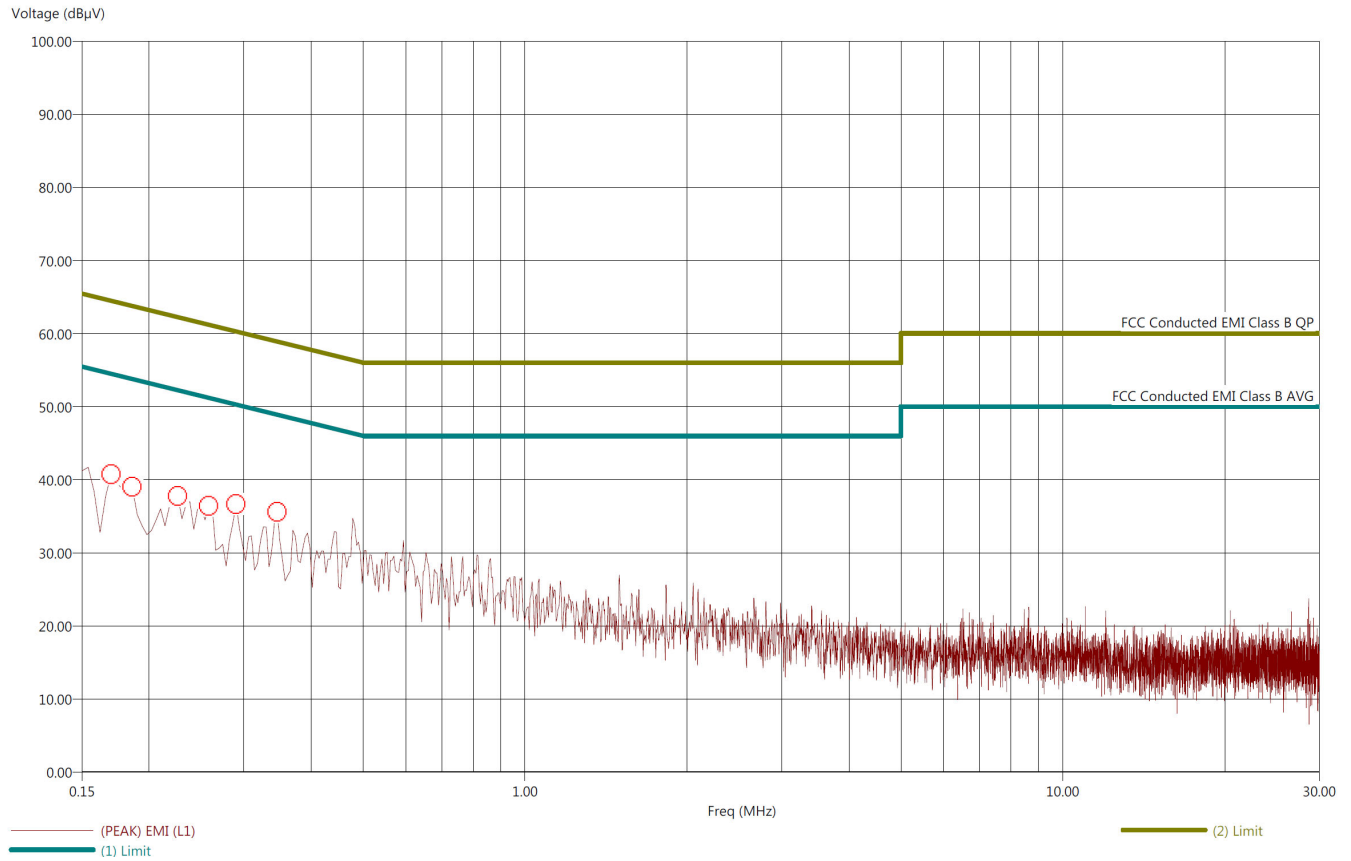
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	White Lead		Cable (dB)	Transducer (dB)	Filter (dB)
				(AVG) Limit (dBµV)	(AVG) Margin (AVG) (dB)			
0.194	35.42	17.48	-18.35	53.77	-36.29	0.28	0.07	10.10
0.198	33.93	16.38	-19.24	53.17	-36.79	0.28	0.06	10.10
0.218	32.71	16.76	-20.15	52.85	-36.10	0.29	0.06	10.10
0.222	33.08	15.90	-19.41	52.50	-36.59	0.29	0.06	10.10
0.250	30.04	14.85	-21.47	51.50	-36.66	0.31	0.05	10.10
0.302	30.81	13.43	-19.39	50.21	-36.77	0.33	0.05	10.10



Title: FCC Class B - Black Lead  
 File: 4 - Pre-Scan - BL - 802.11g - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting 802.11g at 2412 MHz  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis  
 Power Level 92

12/22/2023 8:49:26 AM  
 Sequence: Preliminary Scan

Black Lead



Title: FCC Class B - Black Lead  
 File: 4 - Final Scan - BL - 802.11g - Y-Axis - FCC Class B - 12-22-2023.set  
 Operator: Kyle Fujimoto  
 EUT Type: Carrier Entry Level and ICP Thermostat 2024  
 EUT Condition: The EUT is continuously transmitting 802.11g at 2412 MHz  
 Company: Universal Electronics, Inc.  
 Model: TSTATCCEWF-01  
 S/N: Unit 4  
 Y-Axis  
 Power Level 92

12/22/2023 8:51:42 AM  
 Sequence: Final Measurements

## Black Lead

Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Marqin (AVG) (dB)	(AVG) Limit (dBµV)	(AVG) Marqin (AVG) (dB)	Cable (dB)	Transducer (dB)	Filter (dB)
0.170	44.93	32.46	-9.63	54.55	-22.10	0.28	0.08	10.10
0.186	45.39	32.23	-9.04	54.43	-22.20	0.28	0.08	10.10
0.226	42.80	29.52	-9.30	52.11	-22.58	0.30	0.05	10.10
0.258	40.82	28.80	-10.60	51.43	-22.62	0.31	0.05	10.10
0.290	39.98	27.50	-10.38	50.36	-22.86	0.33	0.04	10.10
0.346	39.15	25.95	-9.95	49.10	-23.15	0.35	0.04	10.10

