



# ELEMENT WASHINGTON DC LLC

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## WLAN/BT/BLE DATA REFERENCING REPORT

**Applicant Name:**  
Sony Corporation  
1-7-1 Konan  
Minato-ku  
Tokyo, 108-0075, Japan

**Date of Testing:**  
02/08/2023 - 03/03/2023  
**Test Report Issue Date:**  
04/19/2023  
**Test Site/Location:**  
Element Lab. Columbia, MD, USA  
**Test Report Serial No.:**  
1M2302060018-12-R2.PY7

<b>FCC ID:</b>	<b>PY7-25682R</b>
<b>APPLICANT:</b>	<b>Sony Corporation</b>

<b>Application Type:</b>	Certification
<b>EUT Type:</b>	Portable Handset
<b>Frequency Range (WLAN):</b>	2412-2462MHz
<b>Frequency Range (BT/BLE):</b>	2402-2480MHz
<b>Modulation Type (WLAN):</b>	CCK, DSSS, OFDM, OFDMA
<b>Modulation Type (BT)</b>	GFSK, π/4-DQPSK, 8DPSK
<b>FCC Classification (WLAN/BLE):</b>	Digital Transmission System (DTS)
<b>FCC Classification (BT):</b>	FCC Part 15 Spread Spectrum Transmitter (DSS)
<b>FCC Rule Part(s):</b>	Part 15 Subpart C (15.247)
<b>Test Procedure(s):</b>	ANSI C63.10-2013, KDB 484596 D01 v01

Note: This revised Test Report (S/N: 1M2302060018-12-R2.PY7) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

**RJ Ortanez Executive Vice President**



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# 1.0 DATA REFERENCING

## 1.1 Introduction

The test results presented in this filing reference the Certification test results for **FCC ID: PY7-12907W**.

Results are referenced from the following test report S/Ns: R14634918-E2 v2, R14634918-E3 v3, R14634918-E4a v3, R14634918-E4b v3

The applicant takes full responsibility to ensure that all referenced test results represent compliance for the equipment under test in this filing.

## 1.2 Differences Between EUT and Referenced Devices

The equipment under test (EUT) in this filing (**FCC ID: PY7-25682R**) and the reference device certified under **FCC ID: PY7-12907W** share a common design. The EUT differs from the reference device with respect to the components and antennas used for licensed (cellular) bands. The components used for 2.4GHz and 5GHz WiFi and BT, including antennas and output power are identical between the EUT and reference device.

## 1.3 Spot Check Verification Data

In this filing, the worst-case data and spot checks were tested on the EUT as noted below, against the reference device. All the necessary test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2013. Please note that the output power was not compared to the reference device, but to the tune-up to ensure that powers remain within tolerance.

For the EUT in this filing (**FCC ID: PY7-25682R**), spot checks of the following tests were performed:

- Output Power Measurements
- Radiated Spurious Emission Measurements
- Radiated Band Edge Measurements

Each spot check test on the EUT was performed using the same procedures and settings that were used to perform the test on the corresponding reference device.

In instances where the spot-checked test results are higher than the reference test results, these measurements were found to be noise floor. The difference in noise floor readings is due to variation in system and equipment used.

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### 1.3.1 Output Power Measurements (Bluetooth)

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power		Avg Conducted Power	
					[dBm]	[mW]	[dBm]	[mW]
2480	1.0	GFSK	ePA	78	13.81	24.033	13.64	23.115

Table 1-1. Conducted Output Power Measurements (Bluetooth – Chain0)

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Peak Conducted Power		Avg Conducted Power	
					[dBm]	[mW]	[dBm]	[mW]
2480	1.0	GFSK	ePA	78	14.05	25.433	13.82	24.094

Table 1-2. Conducted Output Power Measurements (Bluetooth – Chain1)

### 1.3.2 Output Power Measurements (Bluetooth LE)

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2440	2 Mbps	19	LE	10.55	11.353

Table 1-3. Conducted Output Power Measurements (Bluetooth (LE) – Chain0)

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2480	500 kbps	39	LE	10.50	11.218

Table 1-4. Conducted Output Power Measurements (Bluetooth (LE) – Chain1)

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### 1.3.3 Output Power Measurements (OFDM)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
			ANT1	ANT2	MIMO		
2437	6	AVG	13.84	12.39	16.19	30.00	-13.81
		PEAK	16.77	15.38	19.14	30.00	-10.86

Table 1-5. Conducted Output Power Measurements MIMO (802.11b)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
			ANT1	ANT2	MIMO		
2462	11	AVG	13.39	13.65	16.53	30.00	-13.47
		PEAK	19.49	19.13	22.32	30.00	-7.68

Table 1-6. Conducted Output Power Measurements MIMO (802.11g)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
			ANT1	ANT2	MIMO		
2412	1	AVG	13.35	13.76	16.57	30.00	-13.43
		PEAK	19.40	19.77	22.60	30.00	-7.40

Table 1-7. Conducted Output Power Measurements MIMO (802.11n)

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### 1.3.4 Output Power Measurements (OFDMA)

Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					ANT1	ANT2	MIMO		
2412	1	52T	37	AVG	8.55	8.19	11.38	30.00	-18.62
				PEAK	16.44	16.08	19.27	30.00	-10.73
2462	11	52T	40	AVG	8.83	8.38	11.62	30.00	-18.38
				PEAK	17.09	16.86	19.99	30.00	-10.01

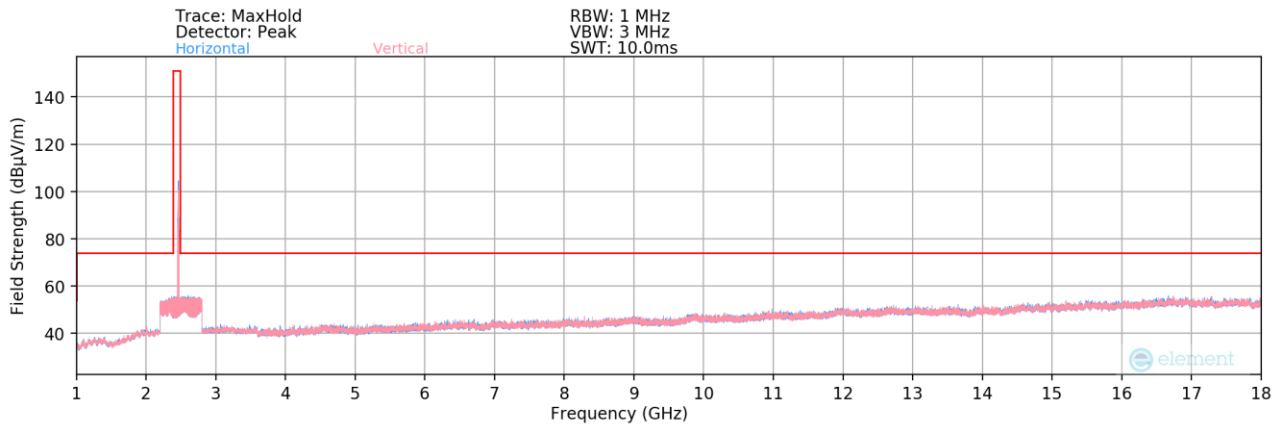
**Table 1-8. Conducted Output Power Measurements MIMO (52 Tones)**

Freq [MHz]	Channel	Tones	RU Index	Detector	Conducted Power [dBm]			Conducted Power Limit [dBm]	Conducted Power Margin [dB]
					ANT1	ANT2	MIMO		
2412	1	242T	61	AVG	8.83	8.69	11.77	30.00	-18.23
				PEAK	17.74	17.16	20.47	30.00	-9.53
2462	11	242T	61	AVG	8.97	8.68	11.84	30.00	-18.16
				PEAK	17.73	17.35	20.55	30.00	-9.45

**Table 1-9. Conducted Output Power Measurements MIMO (242 Tones)**

<b>FCC ID: PY7-25682R</b>	<b>WLAN/BT/BLE DATA REFERENCING REPORT</b>		<b>Approved by:</b> Technical Manager
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### 1.3.5 Worst Case Radiated Spurious Emissions Measurements



**Plot 1-1. Radiated Spurious Plot above 1GHz CDD (802.11b – Ch.6)**

Worst Case Mode: 802.11b  
 Worst Case Transfer Rate: 1Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2437MHz  
 Channel: 6

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
9391.00	Avg	H	-	-	-80.57	8.68	0.00	35.11	53.98	-18.87
9391.00	Peak	H	-	-	-68.26	8.68	0.00	47.42	73.98	-26.56

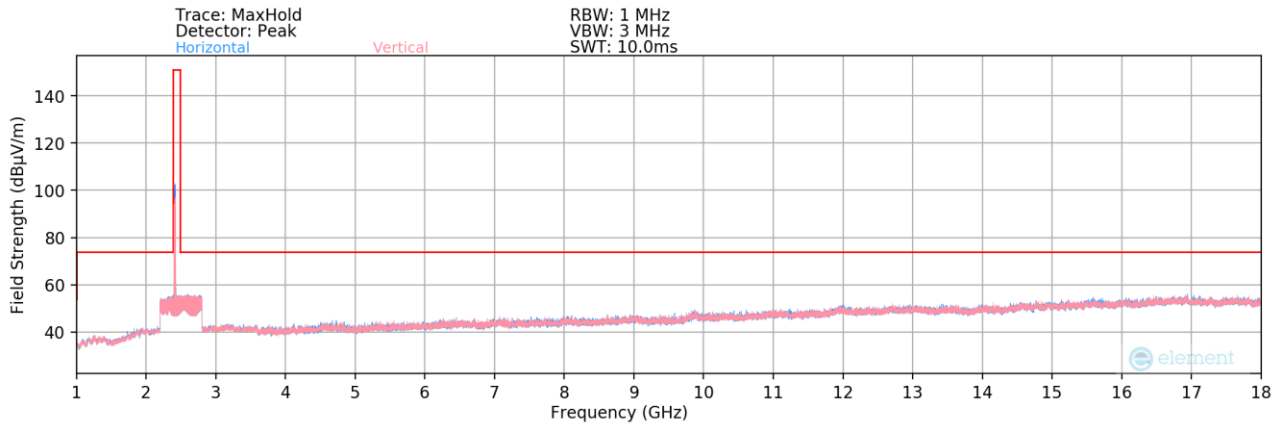
**Table 1-10. Radiated Measurements CDD**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.487	37.56	Pk	32.3	-24.5	45.36	54	-8.64	74	-28.64	0-360	101	H
2	*** 2.669	35.34	Pk	32	-25.6	41.74	54	-12.26	74	-32.26	0-360	199	H
11	*** 1.0005	33.4	Pk	27.3	-24.9	35.8	54	-18.2	74	-38.2	0-360	101	H
6	*** 2.4835	33.33	Pk	32.3	-24.3	41.33	54	-12.67	74	-32.67	0-360	101	V
7	*** 2.6975	33.32	Pk	31.7	-25.9	39.12	54	-14.88	74	-34.88	0-360	101	V
3	*** 4.15688	39.35	Pk	33.3	-31	41.65	54	-12.35	74	-32.35	0-360	101	H
4	*** 8.14031	36.18	Pk	35.7	-26.7	45.18	54	-8.82	74	-28.82	0-360	101	H
5	*** 9.39123	37.16	PK2	36.5	-25.8	47.86	-	-	74	-26.14	288	315	H
	*** 9.38836	24.72	ADV	36.5	-26	35.22	54	-18.78	-	-	288	315	H
8	*** 4.16531	37.9	Pk	33.3	-30.9	40.3	54	-13.7	74	-33.7	0-360	199	V
9	*** 8.25844	36.36	Pk	35.8	-26.8	45.36	54	-8.64	74	-28.64	0-360	199	V
10	*** 9.30094	37.22	Pk	36.4	-25.9	47.72	54	-6.28	74	-26.28	0-360	199	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 PK2 - Maximum Peak  
 ADV - Linear Voltage Average

**Figure 1-1. Reference Test Results for Table 1-11 (Report No.: R14634918-E4a v3, Page 54)**

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**Plot 1-2. Radiated Spurious Plot above 1GHz MIMO (802.11ax – Ch.1 – 242 Tones)**

Worst Case Mode: 802.11ax OFDMA  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
9056.00	Avg	H	-	-	-80.24	9.16	0.00	35.92	53.98	-18.06
9056.00	Peak	H	-	-	-67.72	9.16	0.00	48.44	73.98	-25.54

**Table 1-11. Radiated Measurements MIMO (242 Tones)**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.814	35.69	Pk	32.6	-23.3	44.99	54	-9.01	74	-29.01	0-360	200	H
5	*** 2.777	35.88	Pk	32.5	-23.7	44.68	54	-9.32	74	-29.32	0-360	200	V
2	*** 4.87781	38.71	Pk	34	-31.2	41.51	54	-12.49	74	-32.49	0-360	200	H
3	*** 8.39156	38.66	Pk	35.8	-29.4	45.06	54	-8.94	74	-28.94	0-360	101	H
4	*** 9.05625	38.18	Pk	36.2	-28.3	46.08	54	-7.92	74	-27.92	0-360	200	H
6	*** 5.07844	37.79	Pk	34.2	-30.9	41.09	54	-12.91	74	-32.91	0-360	101	V
7	*** 8.39531	38.18	Pk	35.8	-29.5	44.48	54	-9.52	74	-29.52	0-360	101	V
8	*** 9.11906	38.03	Pk	36.3	-29	45.33	54	-8.67	74	-28.67	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector

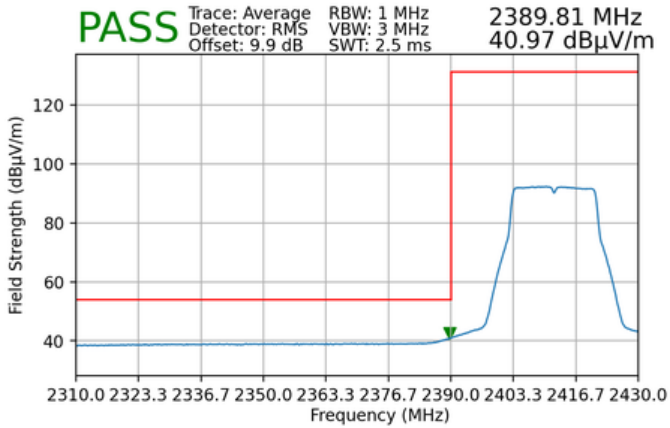
**Figure 1-2. Reference Test Results for Table 1-12 (Report No.: R14634918-E4b v3, Page 77)**

FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
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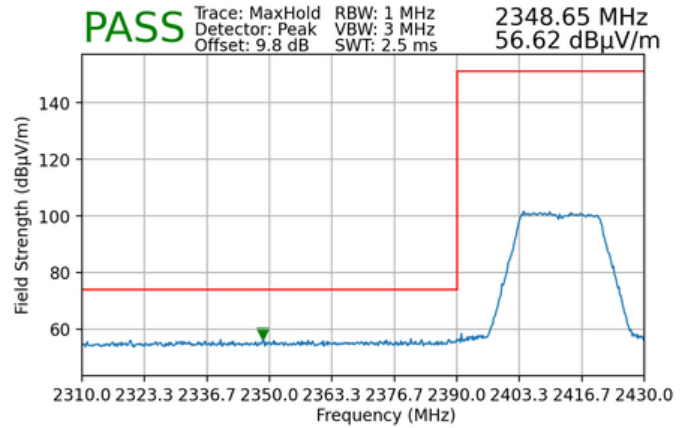


### 1.3.6 Worst Case Radiated Band Edge Measurements (OFDM)

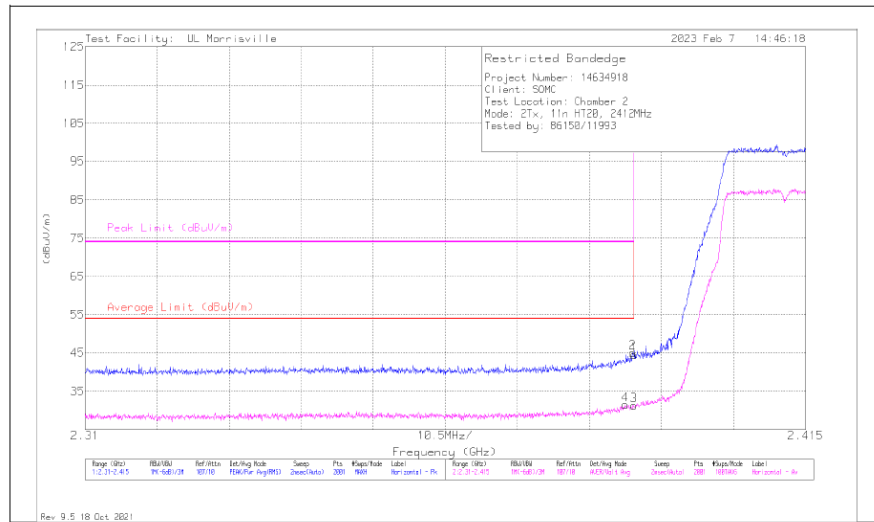
Worst Case Mode: 802.11n  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



**Plot 1-3. Radiated Restricted Upper Band Edge Measurement (Average)**



**Plot 1-4. Radiated Restricted Upper Band Edge Measurement (Peak)**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	36.27	Pk	32	-23.8	44.47	-	-	74	-29.53	51	147	H
2	** 2.3898	36.8	Pk	32	-23.8	45	-	-	74	-29	51	147	H
3	*** 2.38996	23.03	ADV	32	-23.8	31.23	54	-22.77	-	-	51	147	H
4	*** 2.38875	23.25	ADV	32	-23.8	31.45	54	-22.55	-	-	51	147	H

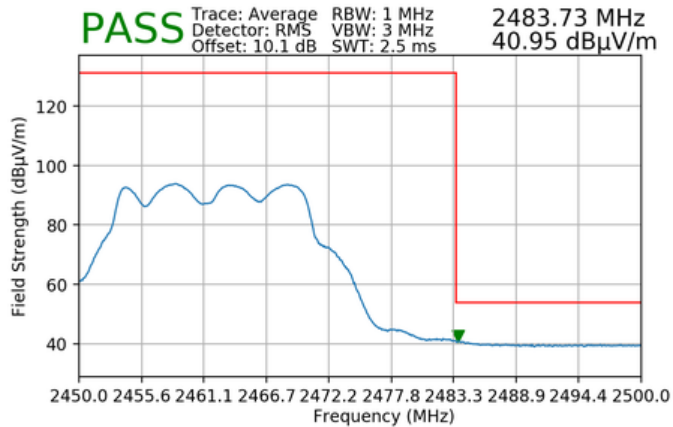
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**Figure 1-3. Reference Test Results for Plots 1-3 and 1-4 (Report No.: R14634918-E4a v3, Page 61)**

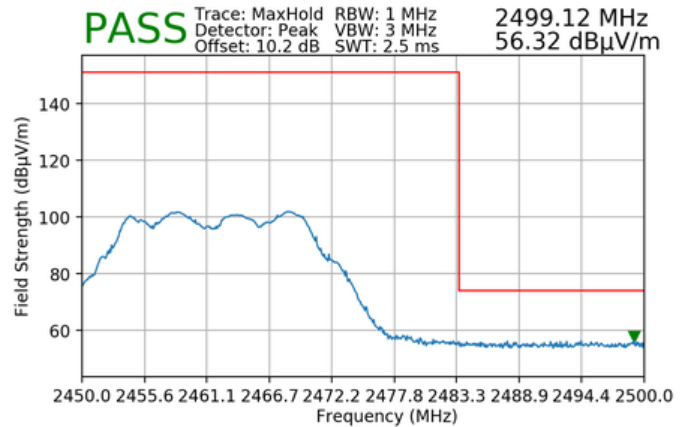
FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
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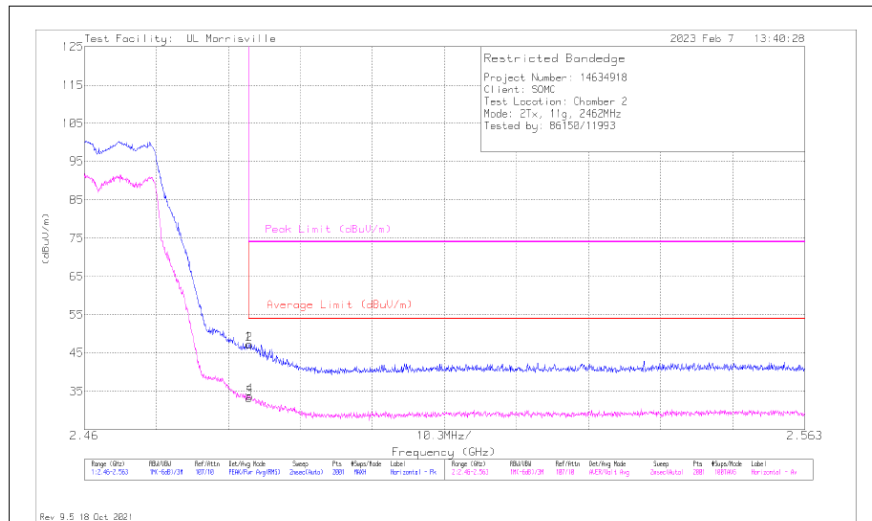
Worst Case Mode: 802.11g  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 1-5. Radiated Restricted Lower Band Edge Measurement (Average)**



**Plot 1-6. Radiated Restricted Lower Band Edge Measurement (Peak)**



Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	39.25	Pk	32.3	-24.3	47.25	-	-	74	-26.75	202	106	H
2	*** 2.48364	39.19	Pk	32.3	-24.3	47.19	-	-	74	-26.81	202	106	H
3	*** 2.48354	25.11	ADV	32.3	-24.3	33.11	54	-20.89	-	-	202	105	H
4	*** 2.48369	25.83	ADV	32.3	-24.3	33.83	54	-20.17	-	-	202	105	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

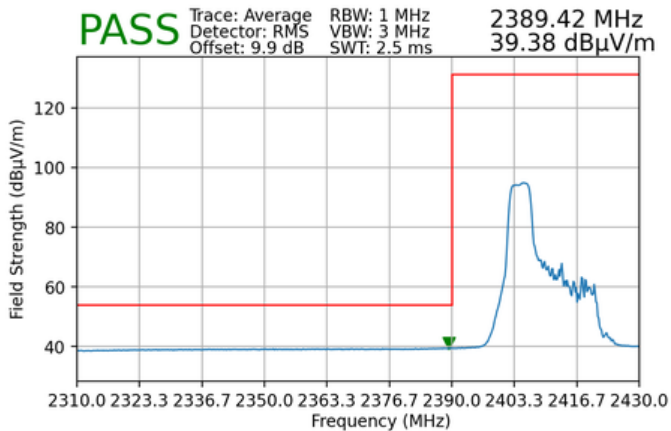
**Figure 1-4. Reference Test Results for Plots 1-5 and 1-6 (Report No.: R14634918-E4a v3, Page 59)**

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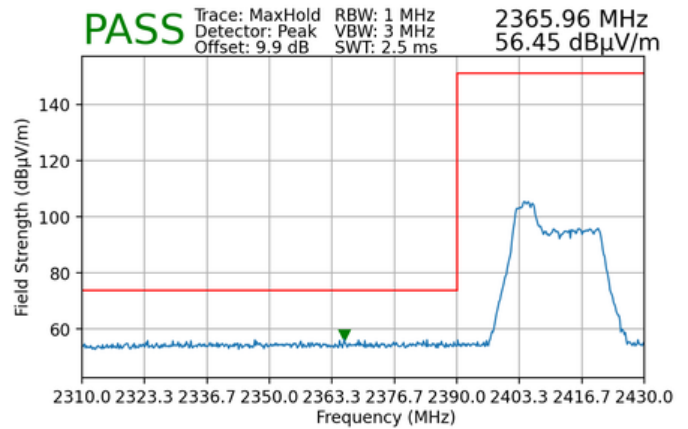
### 1.3.7 Worst Case Radiated Band Edge Measurements for 802.11ax OFDMA

#### 52 Tones

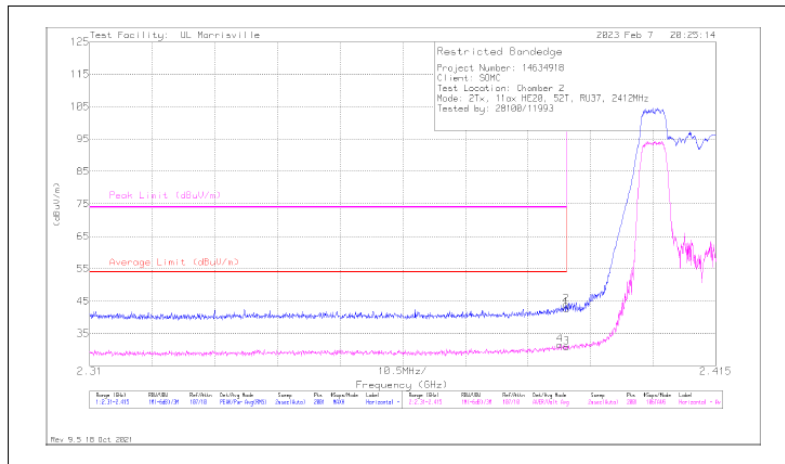
Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	37
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1



Plot 1-7. Radiated Restricted Lower Band Edge Measurement (Average – 52 Tones)



Plot 1-8. Radiated Restricted Lower Band Edge Measurement (Peak – 52 Tones)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	***2.38996	34.5	Pk	32	-23.8	0	42.7	-	-	74	-31.3	200	129	H
2	**2.38991	35.73	Pk	32	-23.8	0	43.93	-	-	74	-30.07	200	129	H
3	***2.38996	22.11	ADV	32	-23.8	.54	30.85	54	-23.15	-	-	200	129	H
4	***2.38886	22.79	ADV	32	-23.8	.54	31.53	54	-22.47	-	-	200	129	H

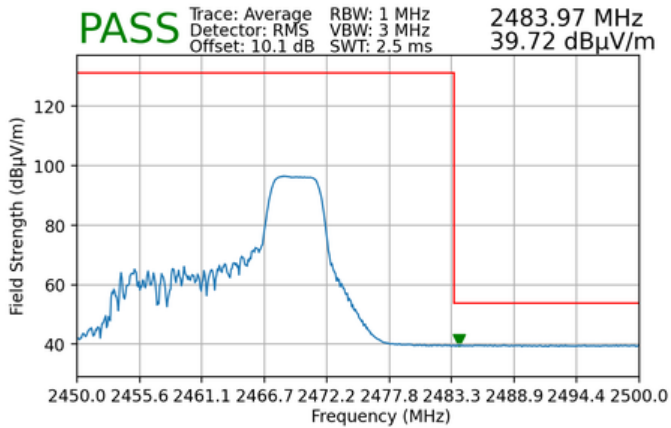
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

Figure 1-5. Reference Test Results for Plots 1-9 and 1-10 (Report No.: R14634918-E4a v3, Page 70)

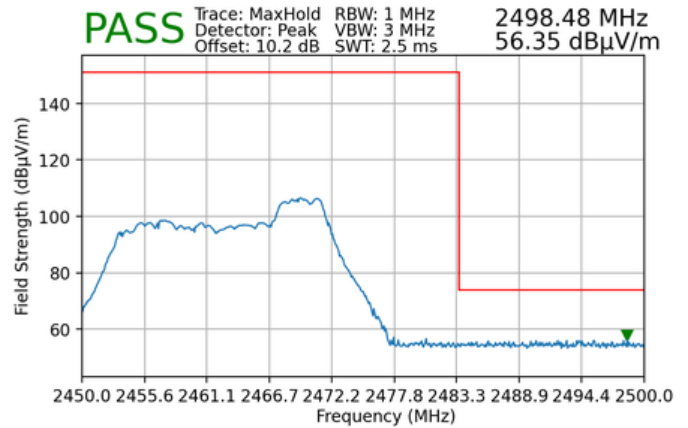
FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
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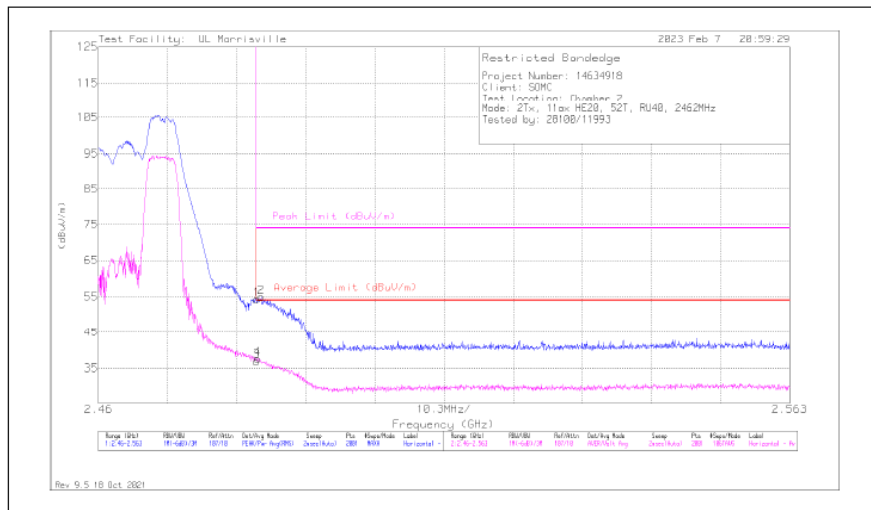
Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	40
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



Plot 1-9. Radiated Restricted Upper Band Edge Measurement (Average – 52 Tones)



Plot 1-10. Radiated Restricted Upper Band Edge Measurement (Peak – 52 Tones)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	46.32	Pk	32.3	-24.3	0	54.32	-	-	74	-19.68	146	101	H
2	** 2.48421	47.01	Pk	32.3	-24.4	0	54.91	-	-	74	-19.09	146	101	H
3	*** 2.48354	28.34	ADV	32.3	-24.3	.54	36.88	54	-17.12	-	-	146	101	H
4	*** 2.48374	29.05	ADV	32.3	-24.3	.54	37.59	54	-16.41	-	-	146	101	H

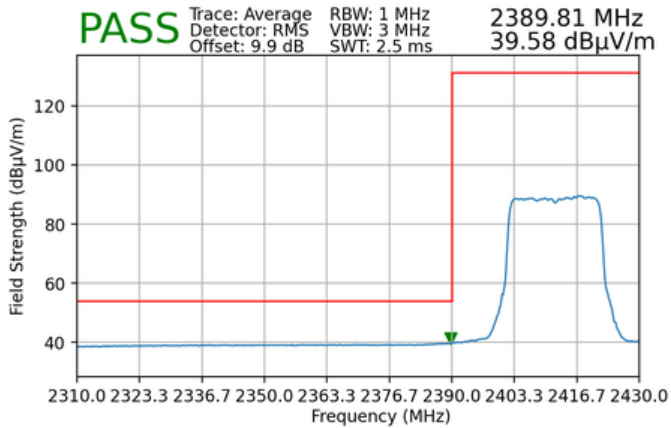
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

Figure 1-6. Reference Test Results for Plots 1-11 and 1-12 (Report No.: R14634918-E4a v3, Page 72)

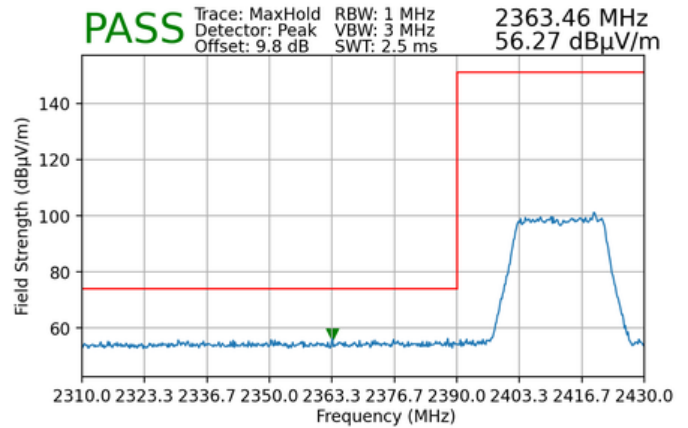
FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060018-12-R2.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 12 of 16

## 242 Tones

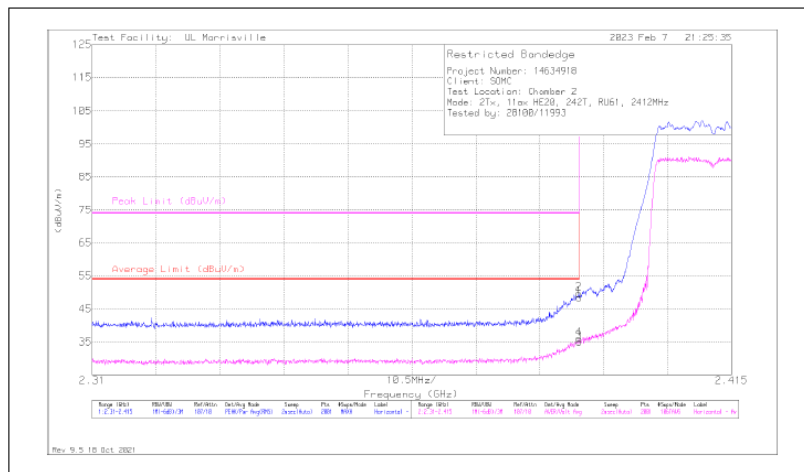
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2412MHz  
 Channel: 1



**Plot 1-11. Radiated Restricted Lower Band Edge Measurement (Average – 242 Tones)**



**Plot 1-12. Radiated Restricted Lower Band Edge Measurement (Peak – 242 Tones)**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.38996	40.2	Pk	32	-23.8	0	48.4	-	-	74	-25.6	143	124	H
2	*** 2.38991	41.52	Pk	32	-23.8	0	49.72	-	-	74	-24.28	143	124	H
3	*** 2.38996	26.18	ADV	32	-23.8	.57	34.95	54	-19.05	-	-	143	124	H
4	*** 2.38991	27.22	ADV	32	-23.8	.57	35.99	54	-18.01	-	-	143	124	H

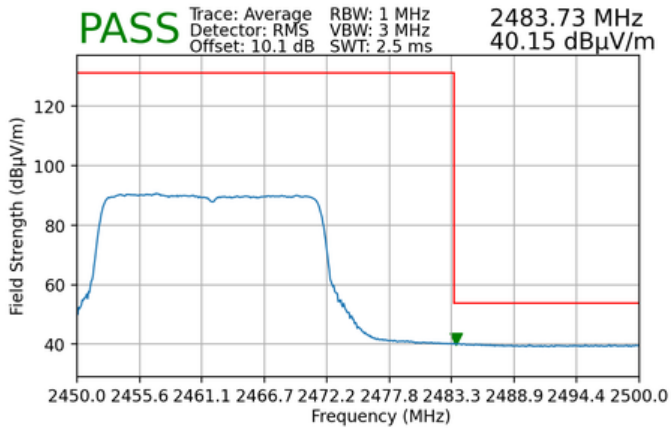
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**Figure 1-7. Reference Test Results for Plots 1-13 and 1-14 (Report No.: R14634918-E4a v3, Page 84)**

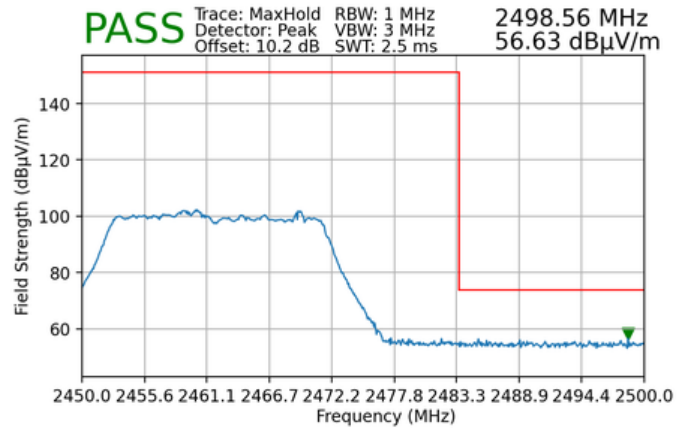
FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060018-12-R2.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 13 of 16



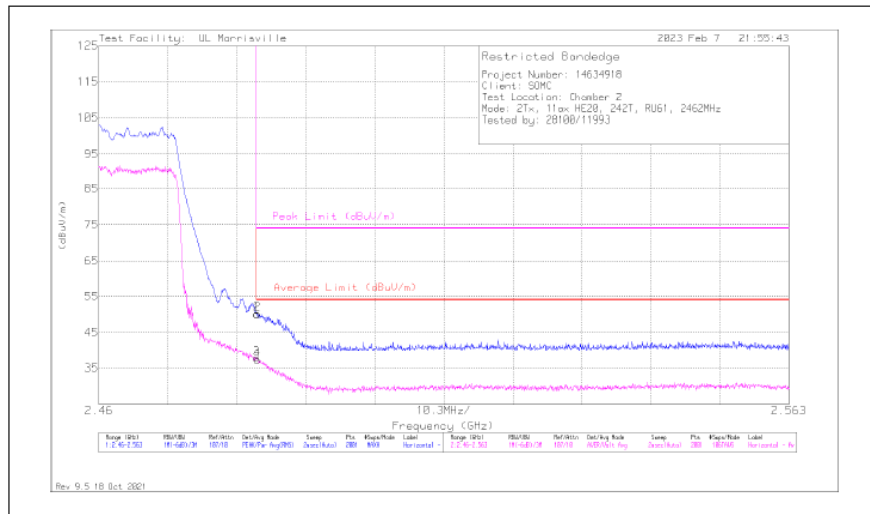
Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 RU Index: 61  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 2462MHz  
 Channel: 11



**Plot 1-13. Radiated Restricted Upper Band Edge Measurement (Average – 242 Tones)**



**Plot 1-14. Radiated Restricted Upper Band Edge Measurement (Peak – 242 Tones)**



Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	206211 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.48354	42.07	Pk	32.3	-24.3	0	50.07	-	-	74	-23.93	147	116	H
2	*** 2.48364	42.15	Pk	32.3	-24.3	0	50.15	-	-	74	-23.85	147	116	H
3	*** 2.48354	29.24	ADV	32.3	-24.3	.57	37.81	54	-16.19	-	-	147	116	H
4	*** 2.48369	28.76	ADV	32.3	-24.3	.57	37.33	54	-16.67	-	-	147	116	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**Figure 1-8. Reference Test Results for Plots 1-15 and 1-16 (Report No.: R14634918-E4a v3, Page 86)**

FCC ID: PY7-25682R	WLAN/BT/BLE DATA REFERENCING REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060018-12-R2.PY7	Test Dates: 02/08/2023 - 03/03/2023	EUT Type: Portable Handset	Page 14 of 16

## 1.4 Reference Section

This section displays the source of referenced data presented for the filing of this EUT.

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.247(a)(1)(iii)	20dB Bandwidth	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.2
15.247(b)(1)	Peak Transmitter Output Power	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.6, 9.7
15.247(a)(1)	Channel Separation	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.3
15.247(a)(1)(iii)	Number of Channels	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.4
15.247(a)(1)(iii)	Time Occupancy	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.5
15.247(d)	Band Edge / Out-of-band Emissions	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	9.8
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	2402-2480	Bluetooth	PY7-12907W	R14634918-E2 v2	10

**Table 1-12. Cross-Referenced Data for Bluetooth**

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.247(a)(2)	6dB Bandwidth	2402-2480	Bluetooth LE	PY7-12907W	R14634918-E3 v3	9.2
15.247(b)(3)	Transmitter Output Power	2402-2480	Bluetooth LE	PY7-12907W	R14634918-E3 v3	9.3, 9.4
15.247(e)	Transmitter Power Spectral Density	2402-2480	Bluetooth LE	PY7-12907W	R14634918-E3 v3	9.5
15.247(d)	Band Edge / Out-of-band Emissions	2402-2480	Bluetooth LE	PY7-12907W	R14634918-E3 v3	9.6
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	2402-2480	Bluetooth LE	PY7-12907W	R14634918-E3 v3	10

**Table 1-13. Cross-Referenced Data for Bluetooth LE**

<b>FCC ID: PY7-25682R</b>	<b>WLAN/BT/BLE DATA REFERENCING REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2302060018-12-R2.PY7	<b>Test Dates:</b> 02/08/2023 - 03/03/2023	<b>EUT Type:</b> Portable Handset	Page 15 of 16

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.247(a)(2)	6dB Bandwidth	2402-2482	802.11b/g/n	PY7-12907W	R14634918-E4a v3	9.2
15.247(b)(3)	Transmitter Output Power	2402-2482	802.11b/g/n	PY7-12907W	R14634918-E4a v3	9.3, 9.4
15.247(e)	Transmitter Power Spectral Density	2402-2482	802.11b/g/n	PY7-12907W	R14634918-E4a v3	9.5
15.247(d)	Band Edge / Out-of-band Emissions	2402-2482	802.11b/g/n	PY7-12907W	R14634918-E4a v3	9.6
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	2402-2482	802.11b/g/n	PY7-12907W	R14634918-E4a v3	10.1

**Table 1-14. Cross-Referenced Data for WLAN OFDM**

FCC Part Section(s)	Test Description	Frequency Range(s) [MHz]	Mode(s)	FCC ID of Referenced Device	Test Report S/N (Referenced Device)	Section (Referenced Device)
15.247(a)(2)	6dB Bandwidth	2402-2482	802.11ax	PY7-12907W	R14634918-E4b v3	9.2
15.247(b)(3)	Transmitter Output Power	2402-2482	802.11ax	PY7-12907W	R14634918-E4b v3	9.5, 9.6
15.247(e)	Transmitter Power Spectral Density	2402-2482	802.11ax	PY7-12907W	R14634918-E4b v3	9.3
15.247(d)	Band Edge / Out-of-band Emissions	2402-2482	802.11ax	PY7-12907W	R14634918-E4b v3	9.4
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	2402-2482	802.11ax	PY7-12907W	R14634918-E4b v3	10

**Table 1-15. Cross-Referenced Data for WLAN OFDMA**

<b>FCC ID: PY7-25682R</b>	<b>WLAN/BT/BLE DATA REFERENCING REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2302060018-12-R2.PY7	<b>Test Dates:</b> 02/08/2023 - 03/03/2023	<b>EUT Type:</b> Portable Handset	Page 16 of 16