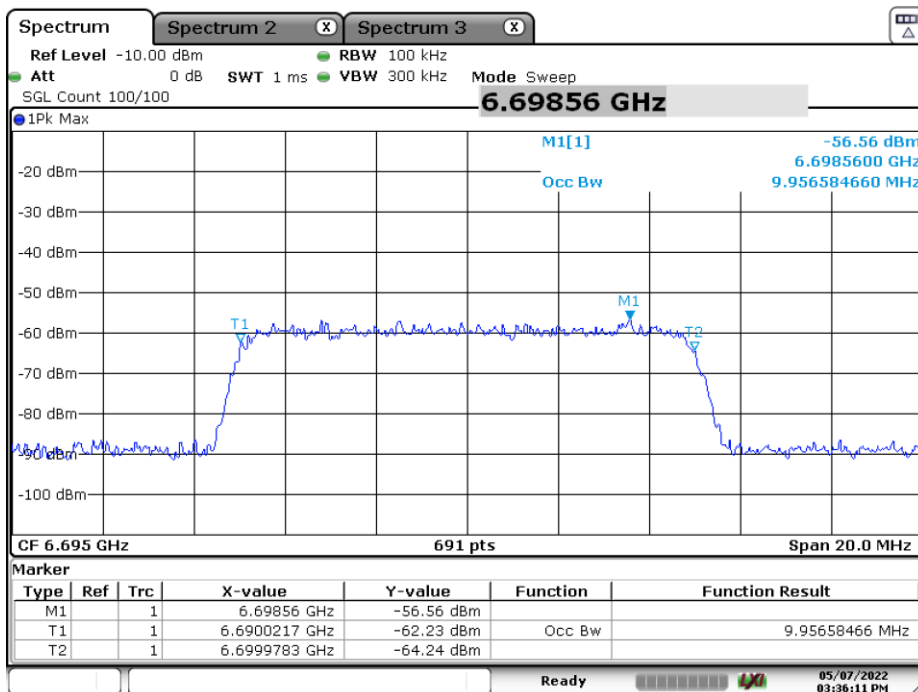


Date: 7.MAY.2022 15:35:20

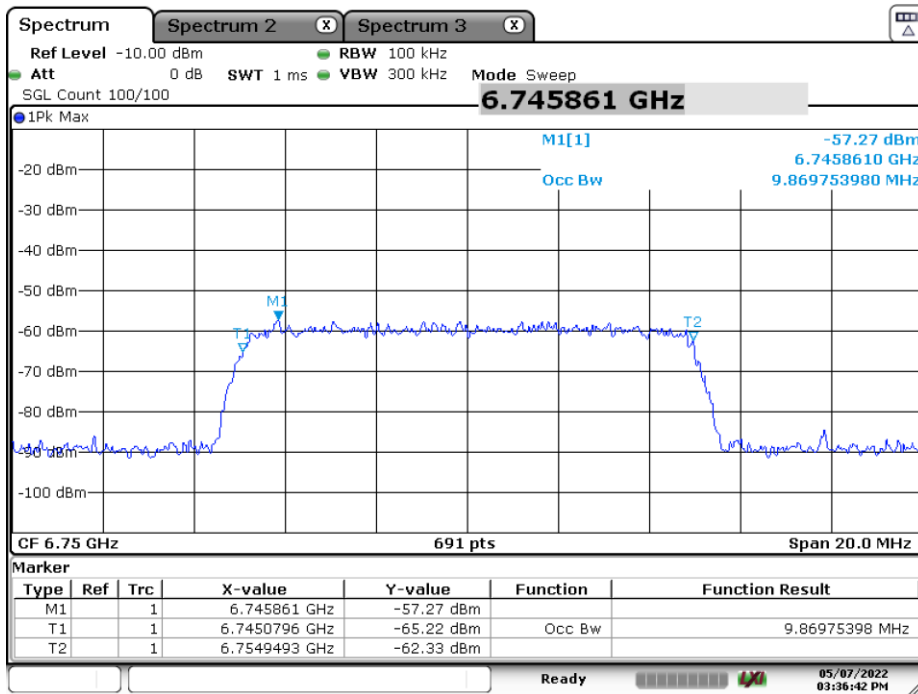
Plot 7-320. AWGN Signal – UNII 6 – 160MHz - High



Date: 7.MAY.2022 15:36:11

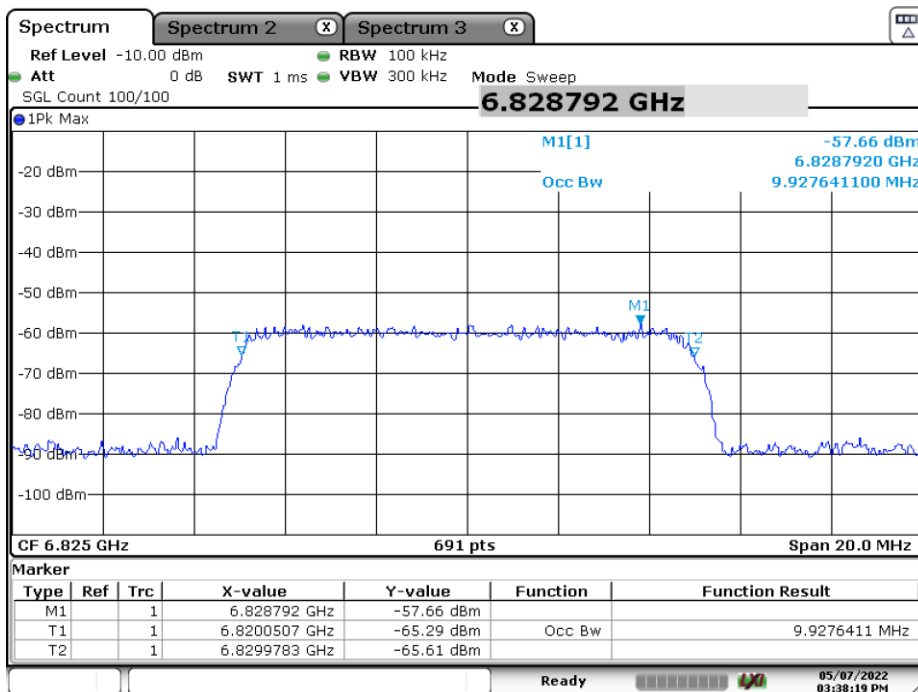
Plot 7-321. AWGN Signal – UNII 7 – 20MHz

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 194 of 236



Date: 7.MAY.2022 15:36:42

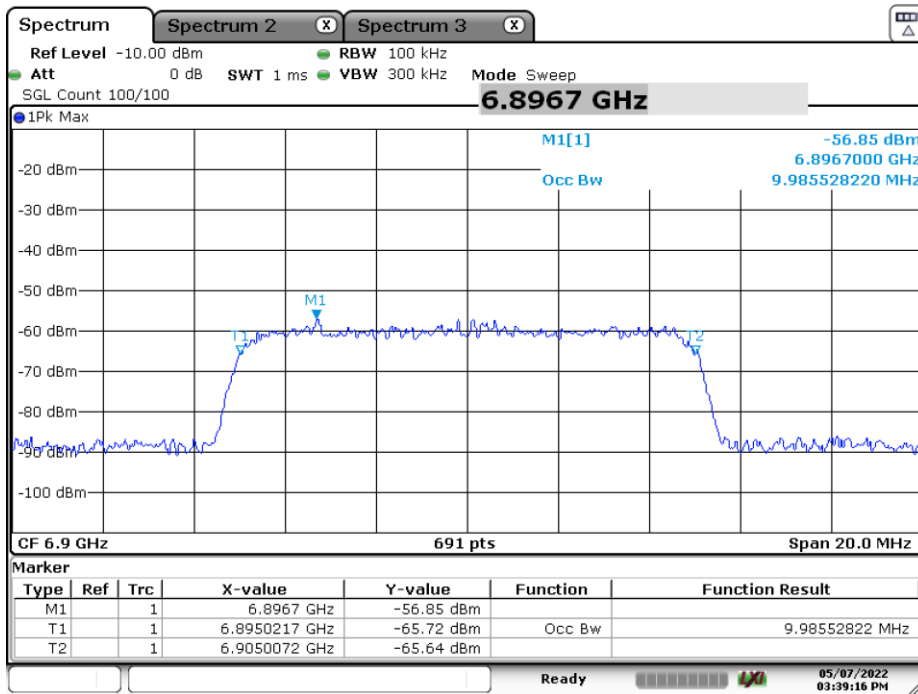
**Plot 7-322. AWGN Signal – UNII 7 – 160MHz - Low**



Date: 7.MAY.2022 15:36:18

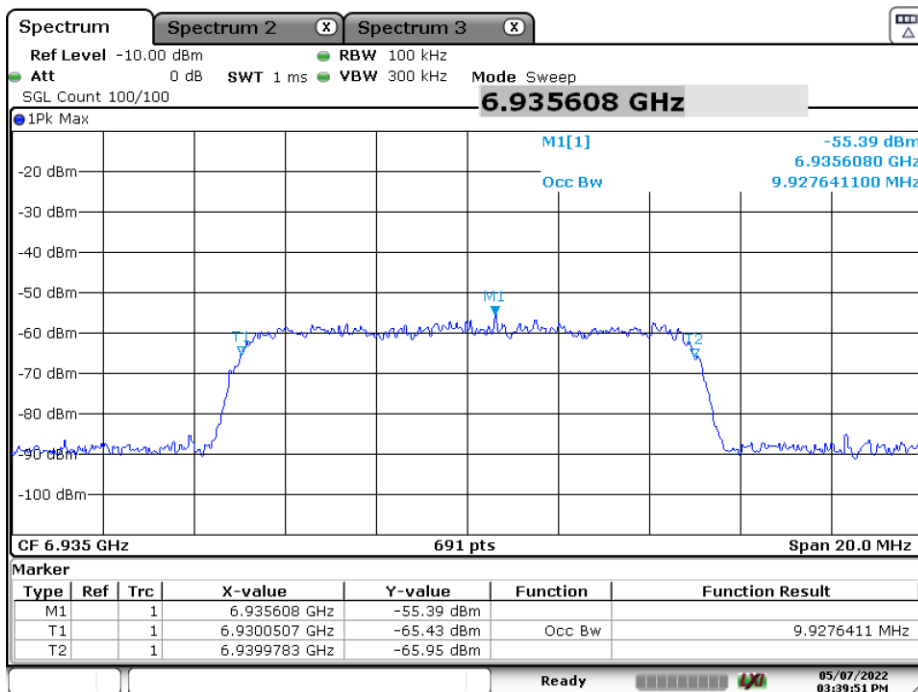
**Plot 7-323. AWGN Signal – UNII 7 – 160MHz - Mid**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 195 of 236



Date: 7.MAY.2022 15:39:16

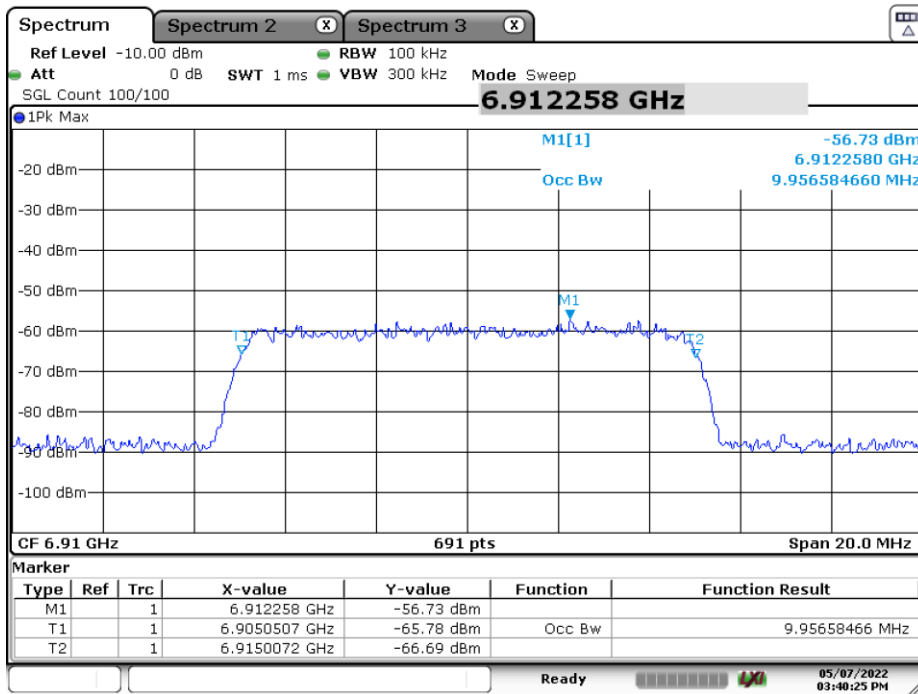
Plot 7-324. AWGN Signal – UNII 7 – 160MHz - High



Date: 7.MAY.2022 15:39:51

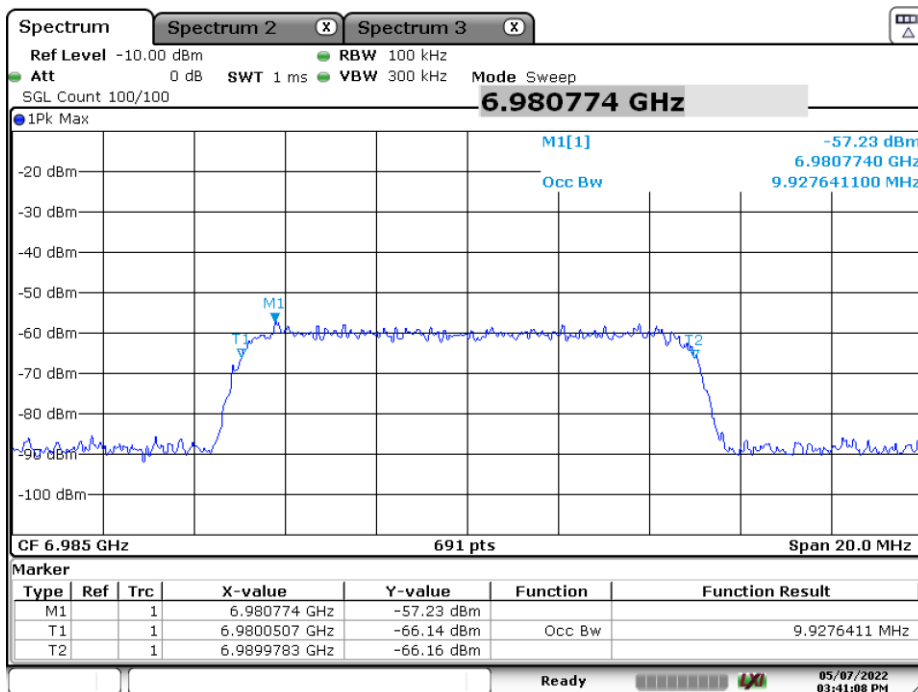
Plot 7-325. AWGN Signal – UNII 8 – 20MHz

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 196 of 236



Date: 7.MAY.2022 15:40:24

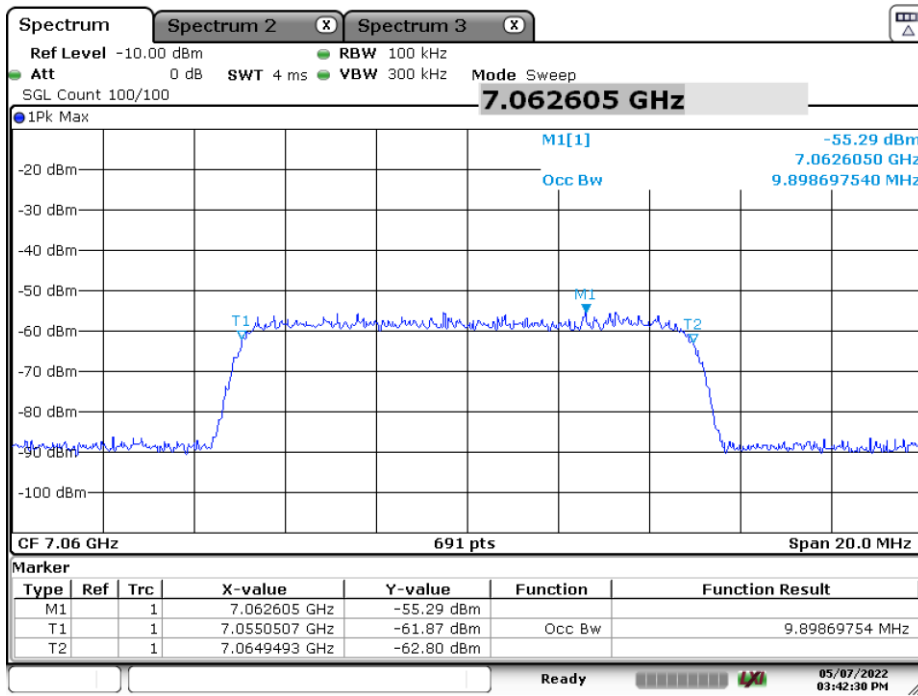
Plot 7-326. AWGN Signal – UNII 8 – 160MHz - Low



Date: 7.MAY.2022 15:41:07

Plot 7-327. AWGN Signal – UNII 8 – 160MHz - Mid

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 197 of 236

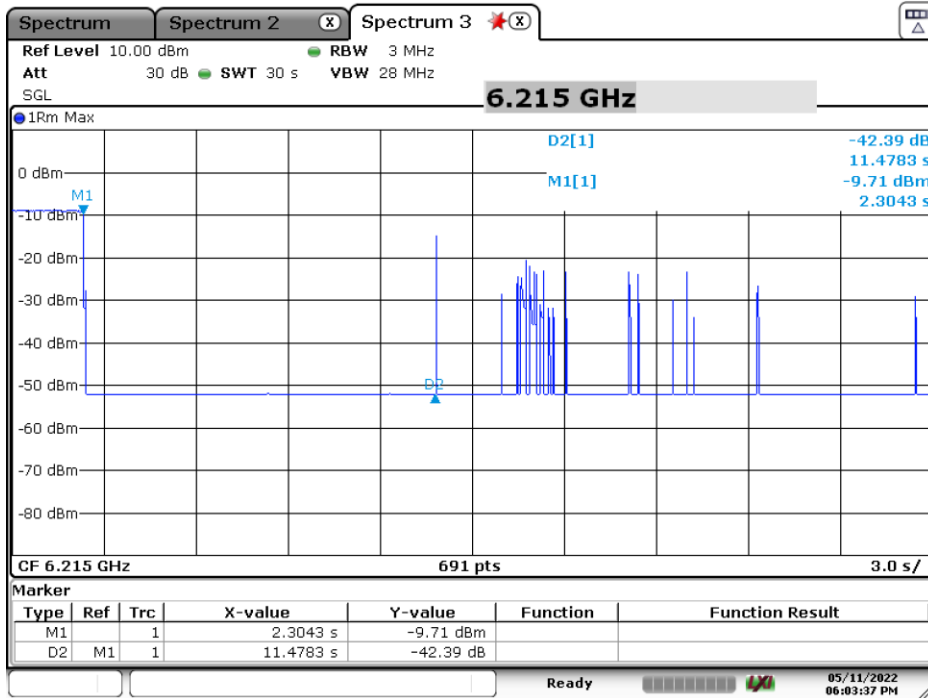


Date: 7.MAY.2022 15:42:30

**Plot 7-328. AWGN Signal – UNII 8 – 160MHz - High**

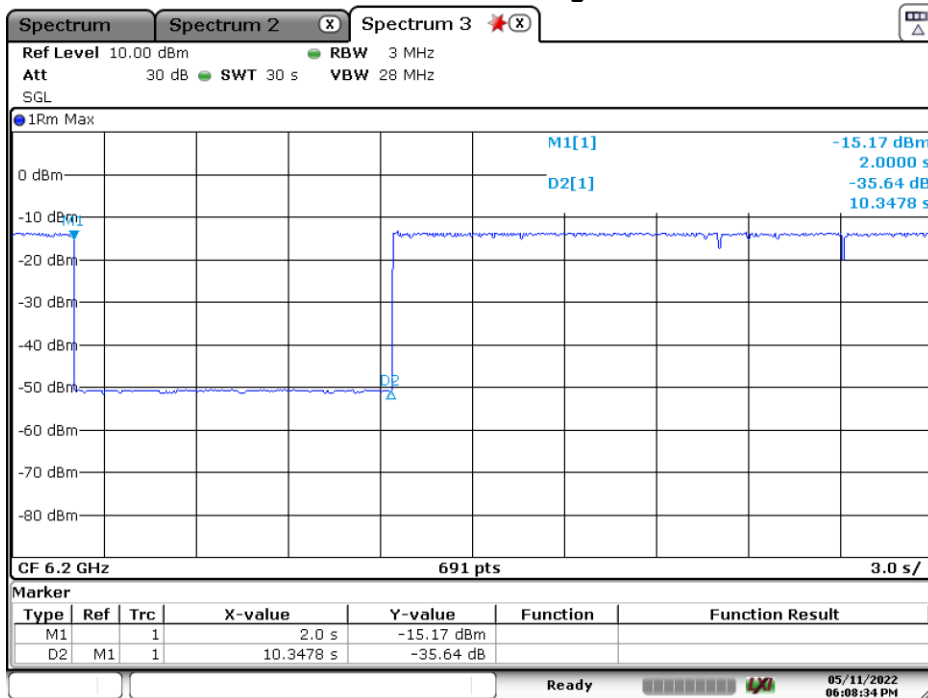
FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 198 of 236

### CBP Timing Plots



Date: 11.MAY.2022 18:03:37

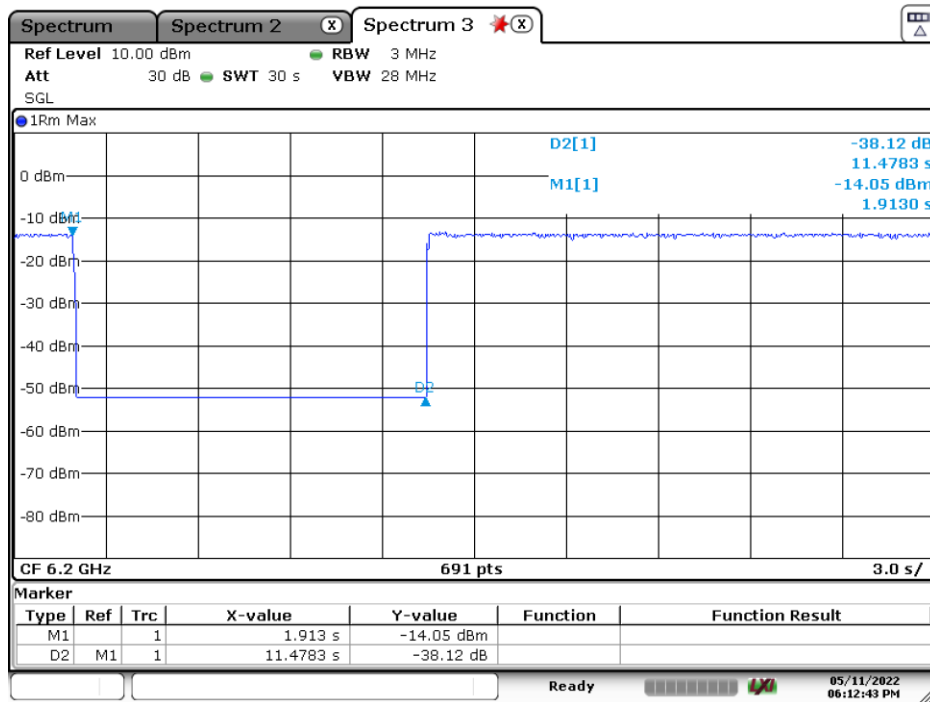
**Plot 7-329. Contention Based Protocol Timing Plot – UNII 5 – 20MHz Ch53**



Date: 11.MAY.2022 18:08:34

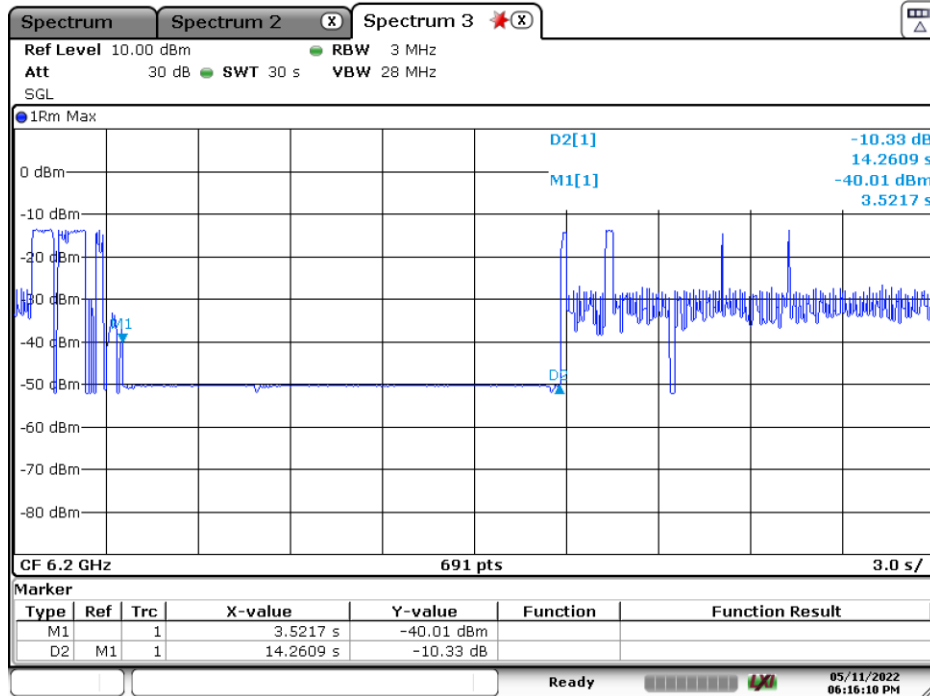
**Plot 7-330. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 – Low**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 199 of 236



Date: 11.MAY.2022 18:12:43

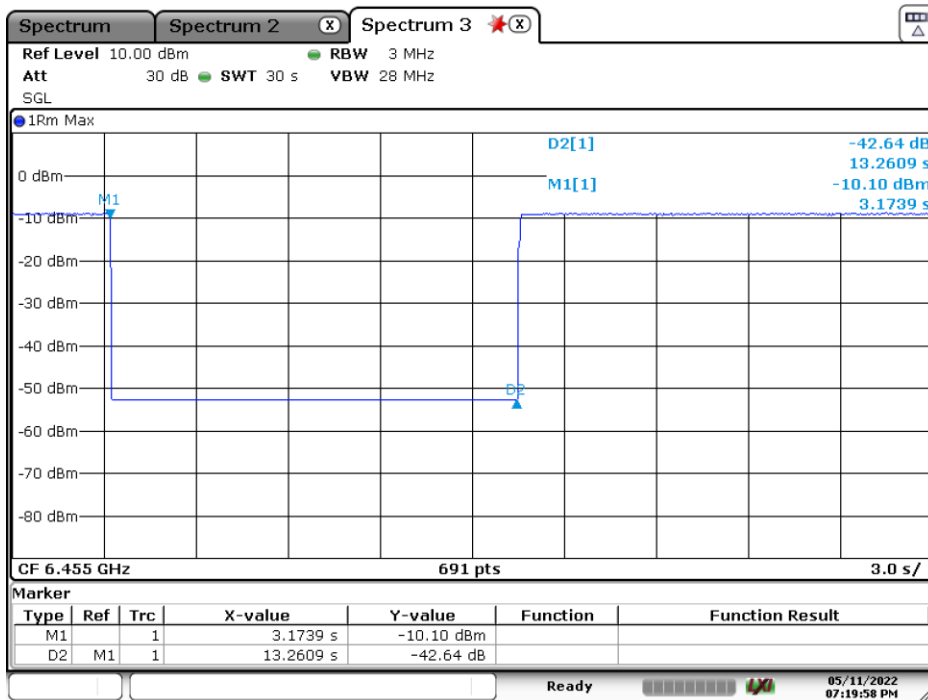
Plot 7-331. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 – Mid



Date: 11.MAY.2022 18:16:10

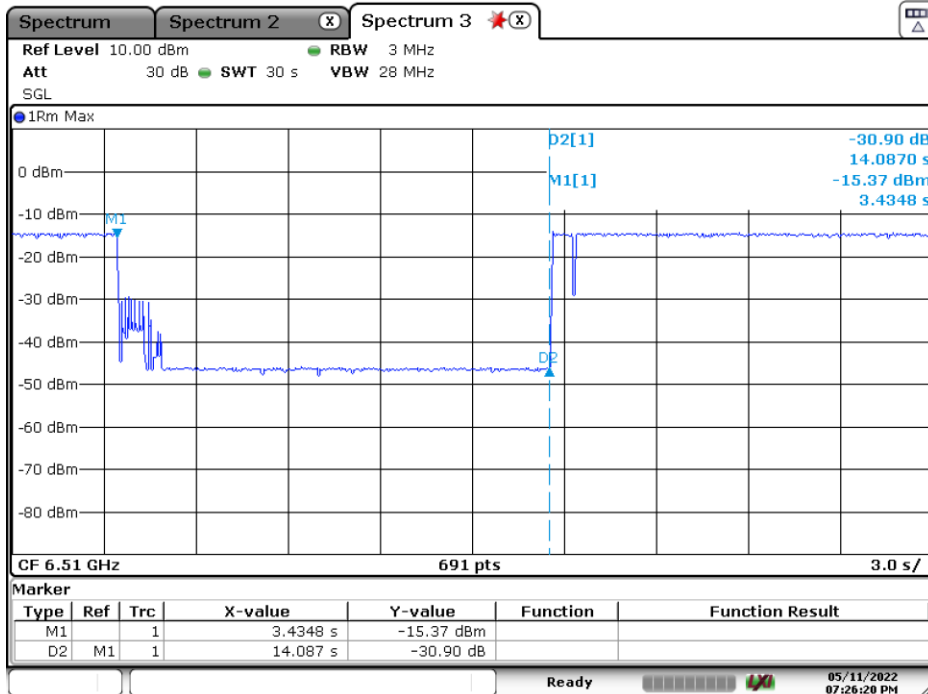
Plot 7-332. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 - High

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 200 of 236



Date: 11.MAY.2022 19:19:58

**Plot 7-333. Contention Based Protocol Timing Plot – UNII 6 – 20MHz Ch101**

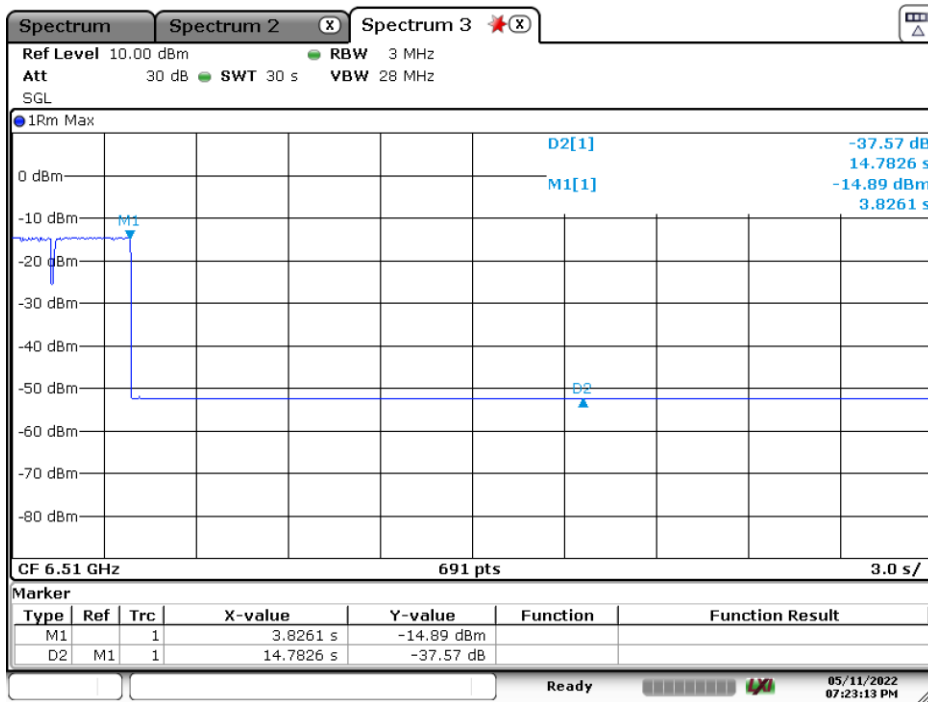


Date: 11.MAY.2022 19:26:20

**Plot 7-334. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Low**

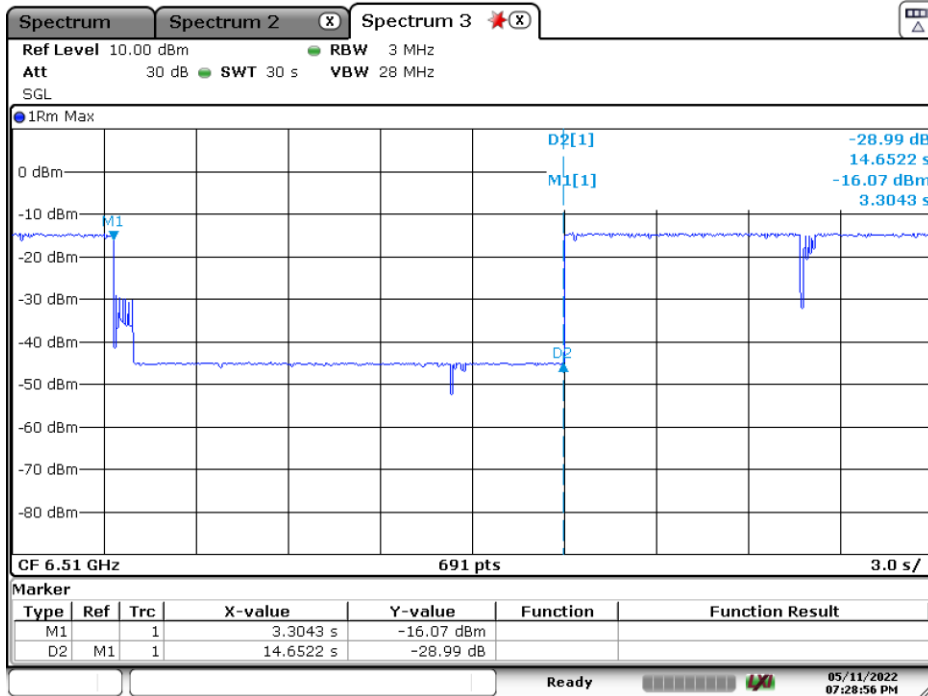
FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 201 of 236





Date: 11.MAY.2022 19:23:13

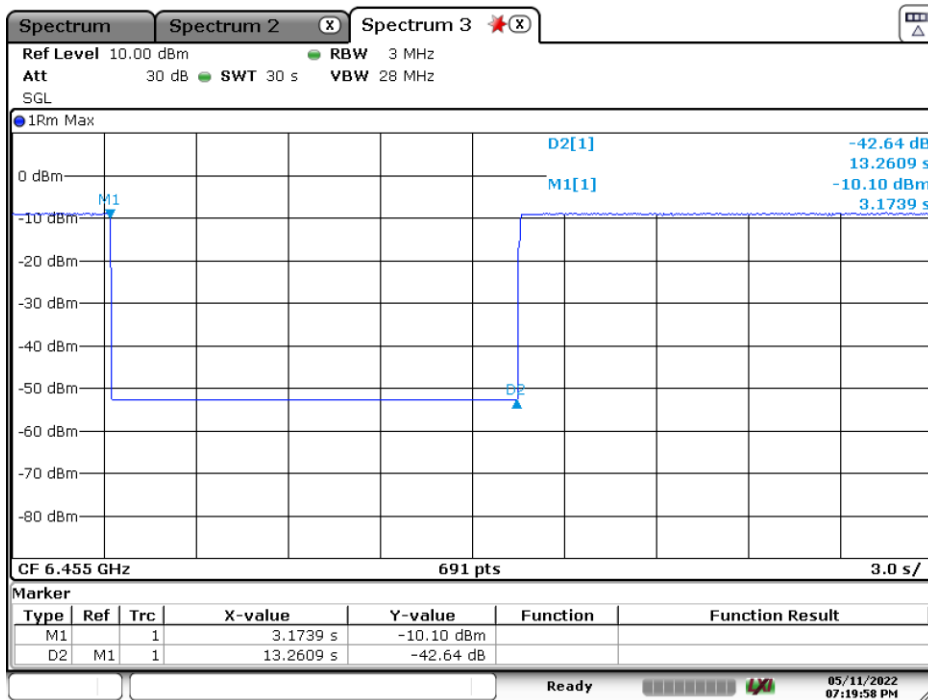
**Plot 7-335. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Mid**



Date: 11.MAY.2022 19:28:56

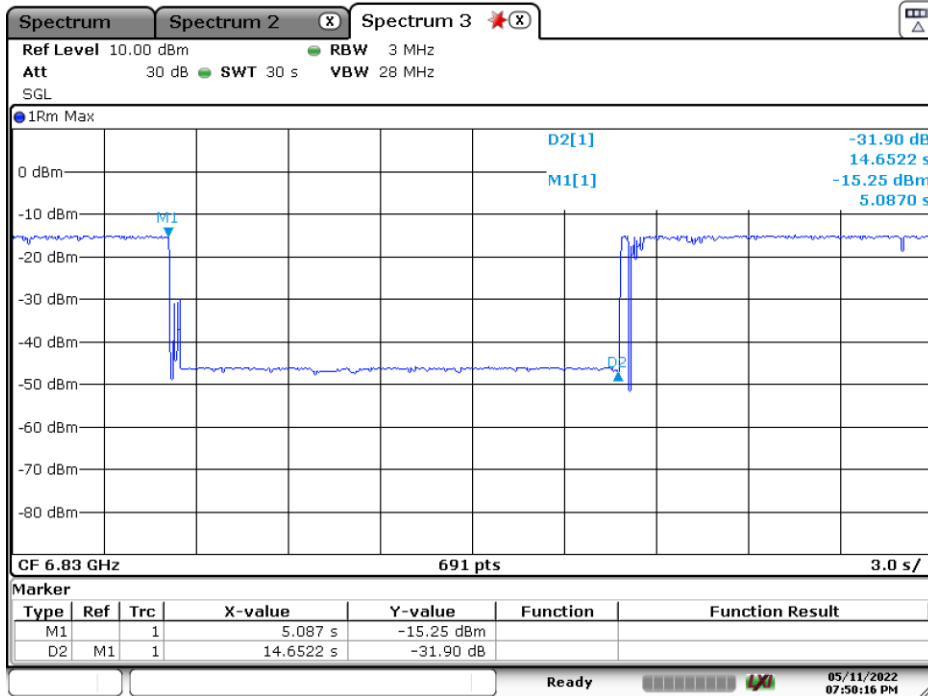
**Plot 7-336. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 - High**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 202 of 236



Date: 11.MAY.2022 19:19:58

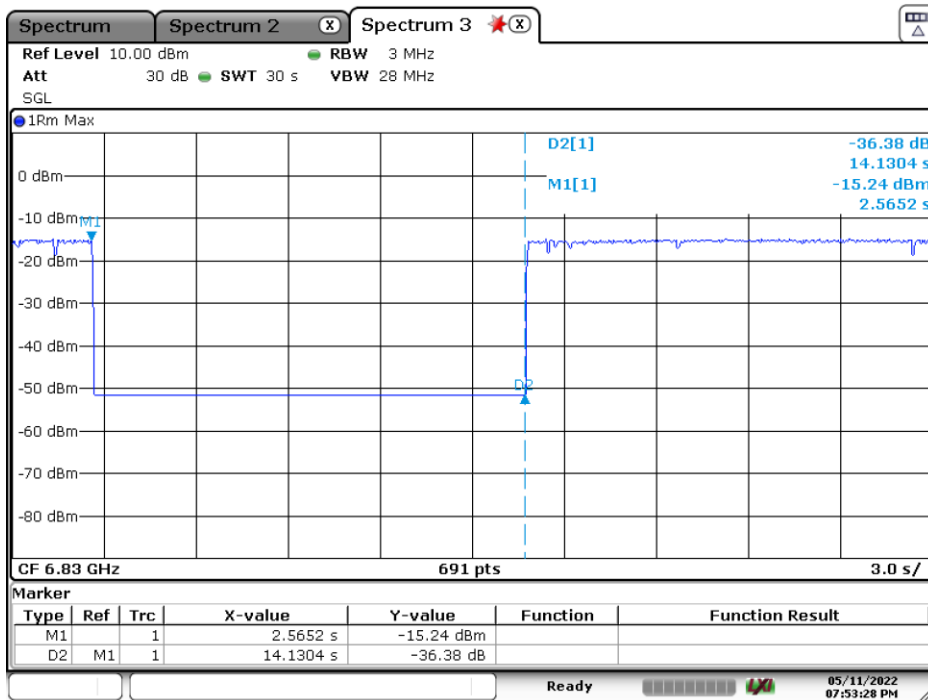
**Plot 7-337. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Ch149**



Date: 11.MAY.2022 19:50:16

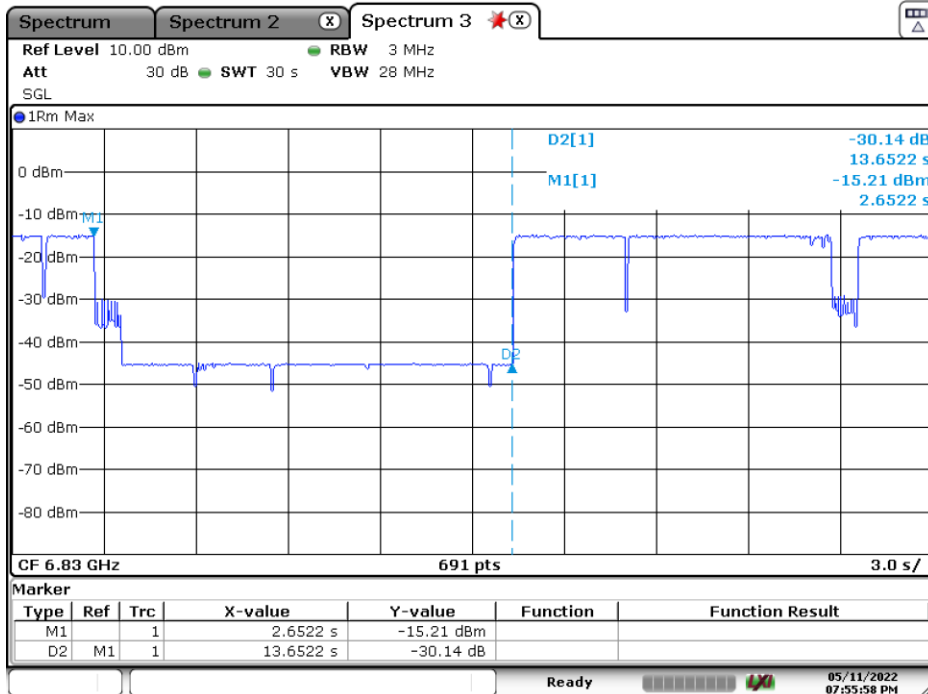
**Plot 7-338. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Low**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 203 of 236



Date: 11.MAY.2022 19:53:28

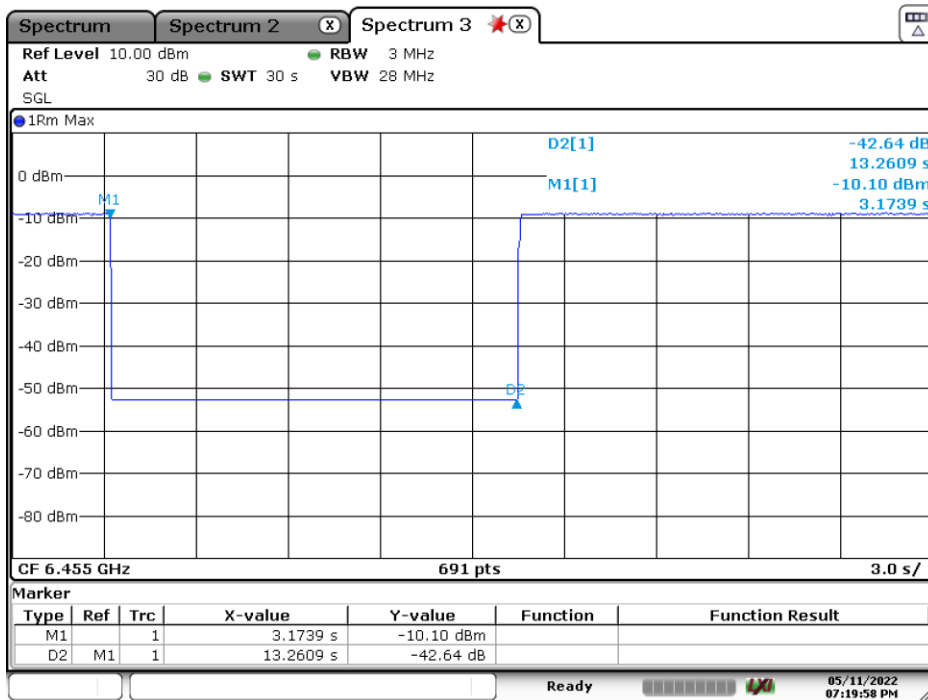
**Plot 7-339. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Mid**



Date: 11.MAY.2022 19:55:58

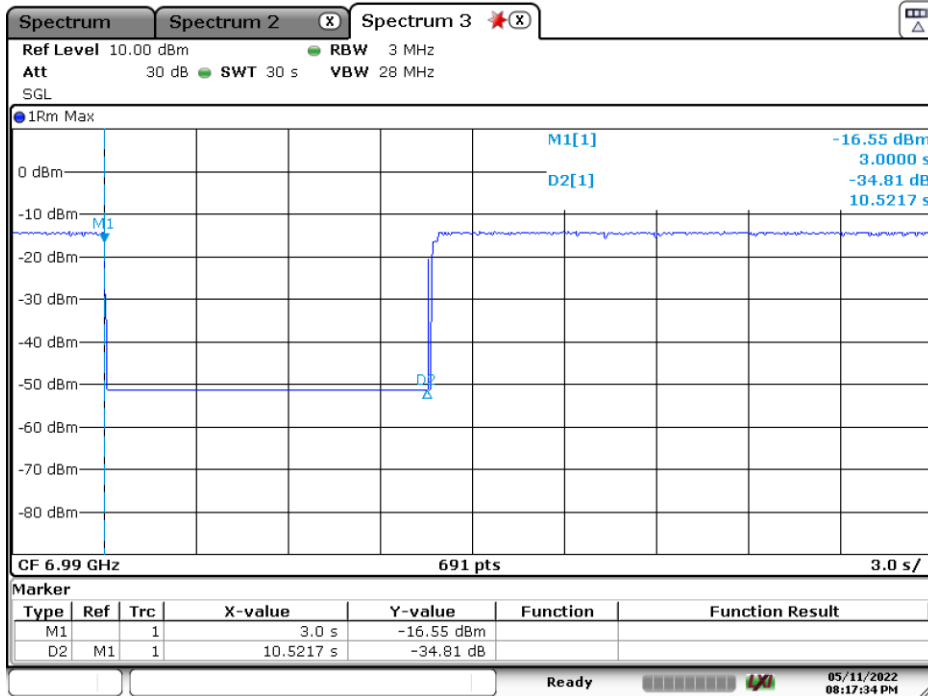
**Plot 7-340. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 - High**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 204 of 236



Date: 11.MAY.2022 19:19:58

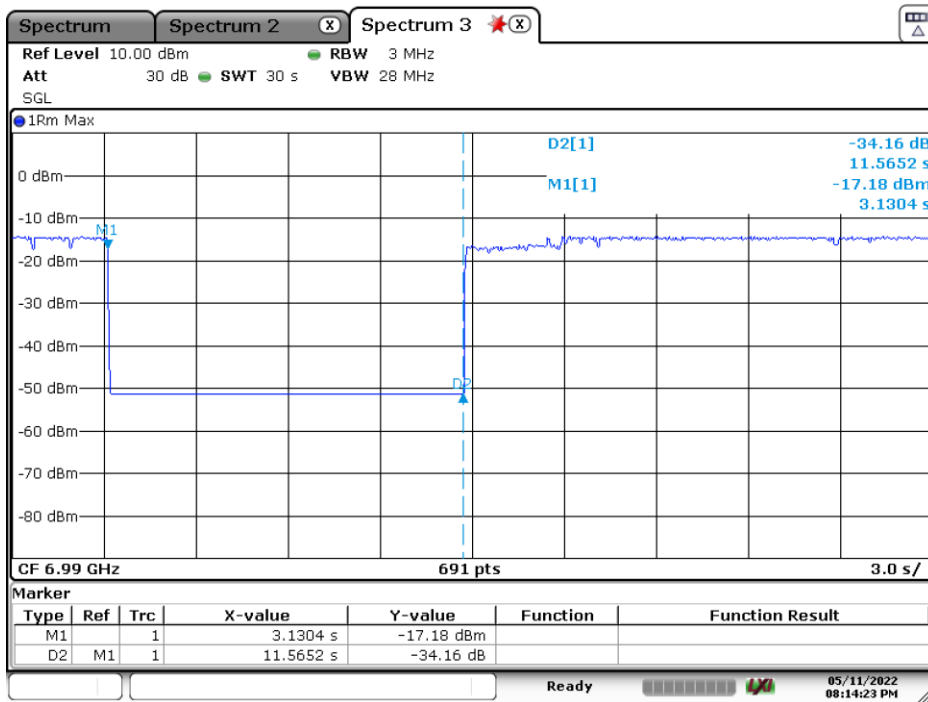
Plot 7-341. Contention Based Protocol Timing Plot – UNII 8 – 20MHz Ch197



Date: 11.MAY.2022 20:17:34

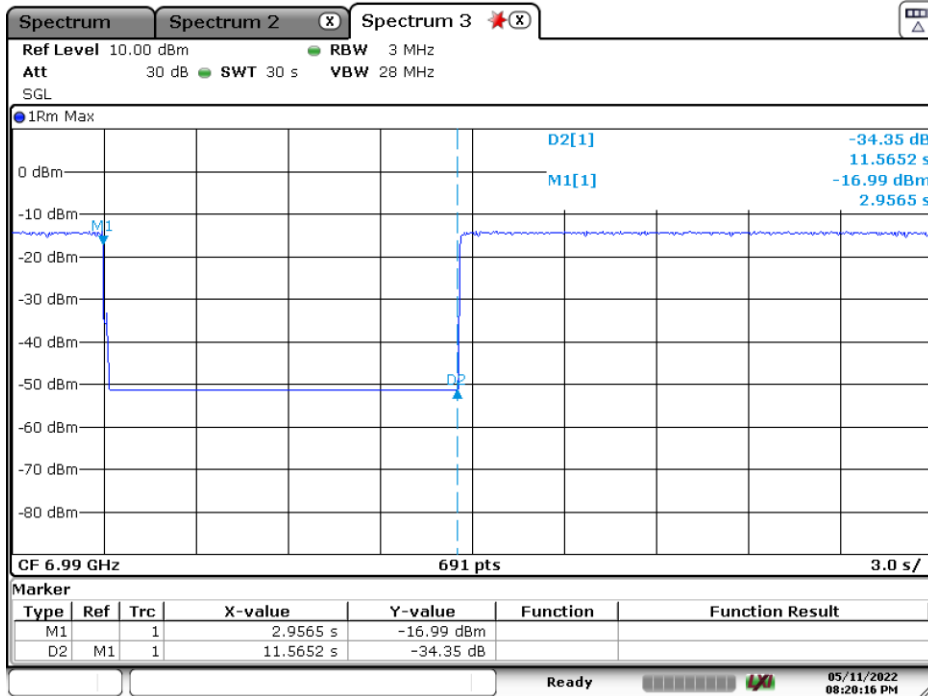
Plot 7-342. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Low

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 205 of 236



Date: 11.MAY.2022 20:14:23

**Plot 7-343. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Mid**



Date: 11.MAY.2022 20:20:16

**Plot 7-344. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 - High**

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset		Page 206 of 236

## 7.7 Radiated Spurious Emission Measurements – Above 1GHz

§15.205, §15.209

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11ax (20/40/80/160MHz), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***For transmitters operating in the 5.925-7.125 GHz band: All emissions outside of the 5.925-7.125 GHz band shall not exceed an EIRP of -27 dBm/MHz.***

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-12. Radiated Limits

### Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5  
KDB 789033 D02 v02r01 – Section G

### Test Settings

#### Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

#### Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

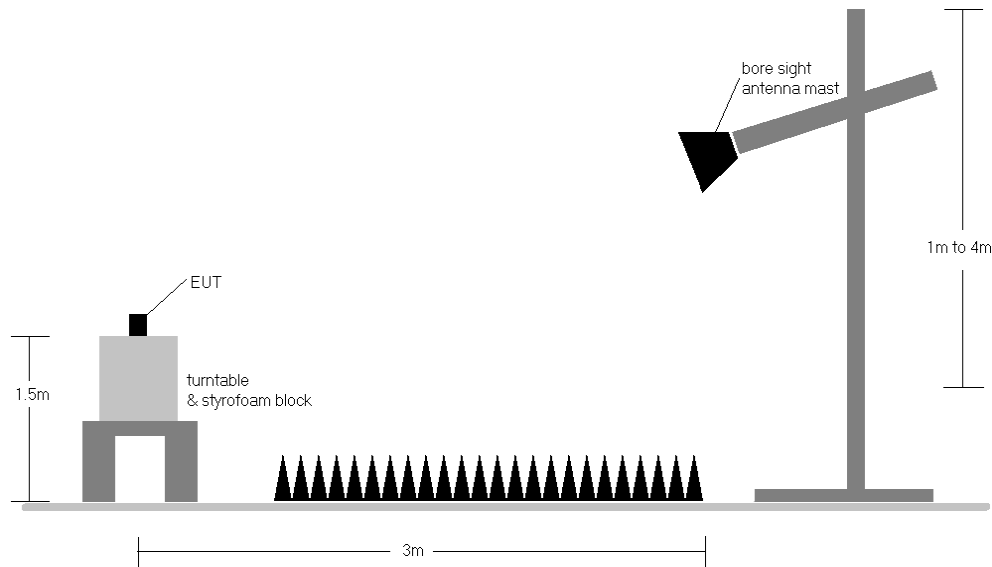
FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 207 of 236

**Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-6. Test Instrument & Measurement Setup**

<b>FCC ID:</b> PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2201200003-22-R1.PY7	<b>Test Dates:</b> 3/25/2022 – 5/19/2022	<b>EUT Type:</b> Portable Handset	Page 208 of 236

**Test Notes**

1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 the limit shown in Table 7-12.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-10. All spurious emissions that do not lie in a restricted band are subject to an average limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB $\mu$ V/m.
3. All spurious emissions that do not lie in a restricted band are subject to a peak limit not to exceed 20dB of the average limit [68.2dB $\mu$ V/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
8. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
10. In the case where a peak-detector measurement passed the given RMS limit it was determined sufficient to demonstrate compliance.

**Sample Calculations**

**Determining Spurious Emissions Levels**

- Field Strength Level [dB $\mu$ V/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dB $\mu$ V/m] – Limit [dB $\mu$ V/m]

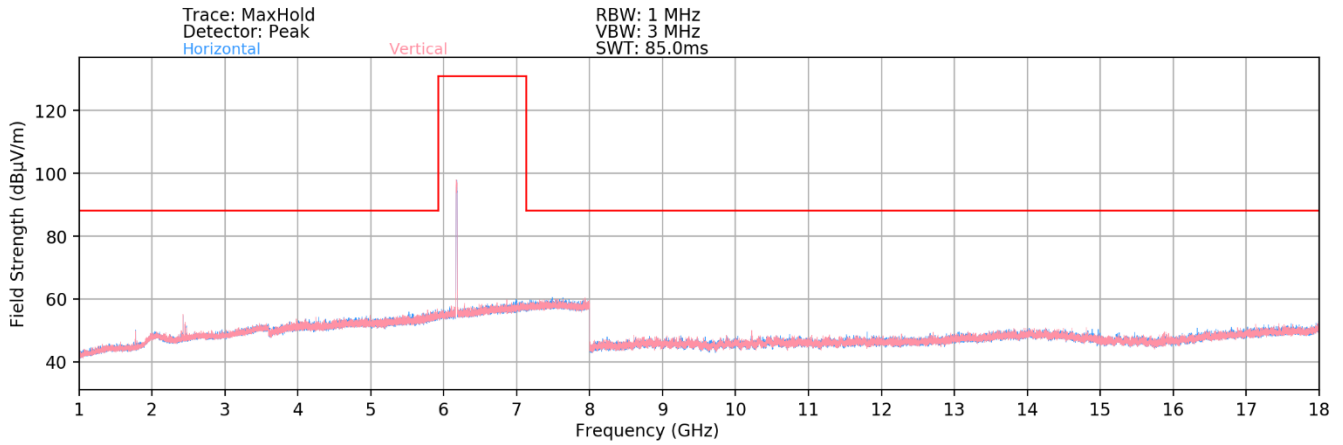
**Radiated Band Edge Measurement Offset**

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:  
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

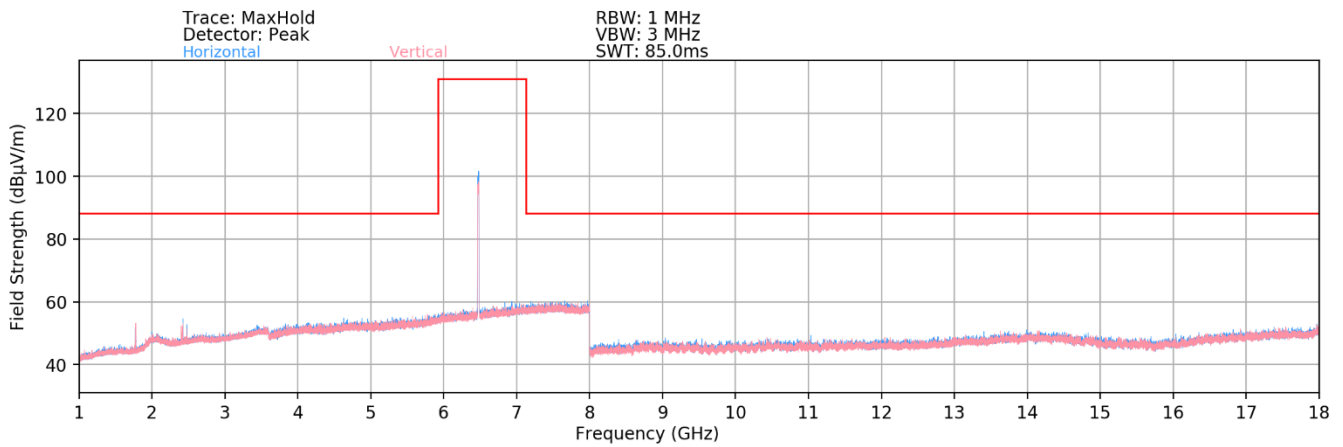
FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 209 of 236



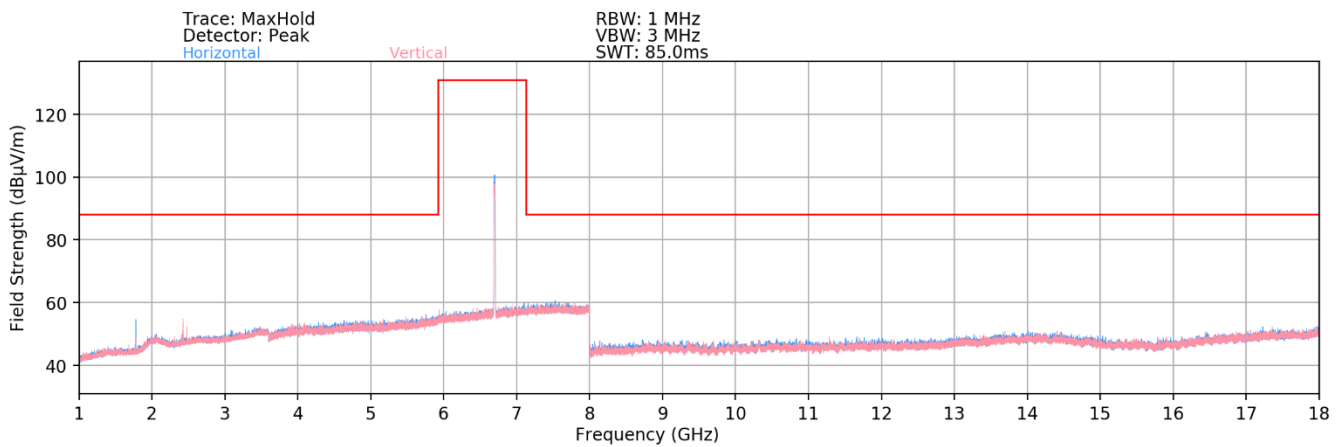
### 7.7.1 MIMO Radiated Spurious Emission Measurements



**Plot 7-345. Radiated Spurious Plot above 1GHz MIMO (802.11ax – UNII Band 5 – 20MHz – Ch.45)**

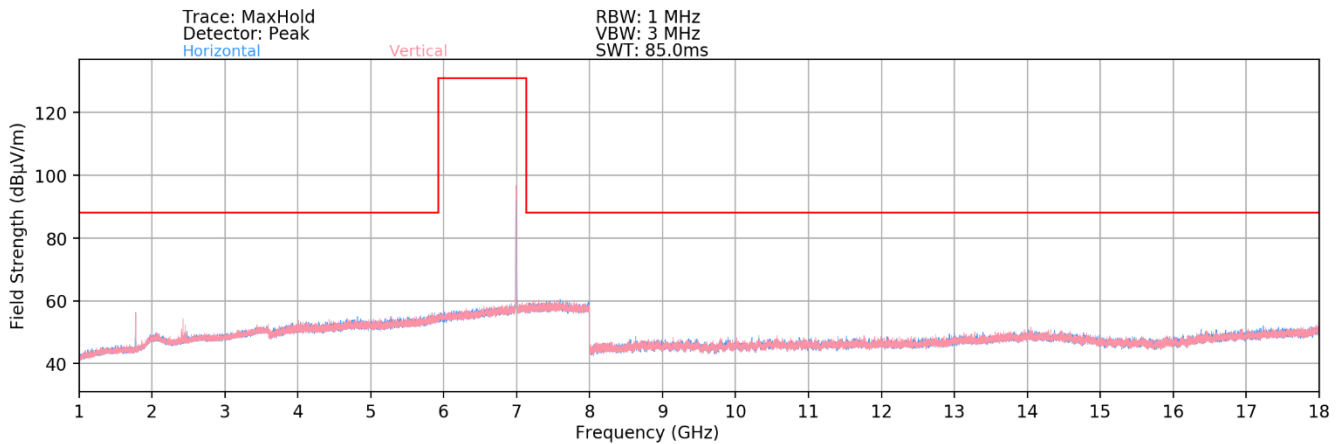


**Plot 7-346. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 6 – 20MHz – Ch.105)**

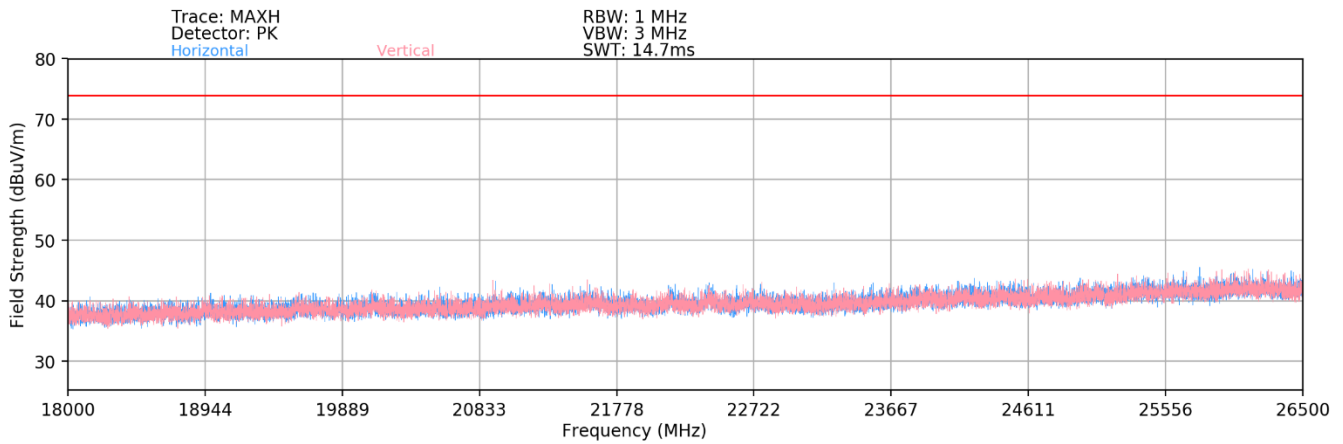


**Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 7 – 20MHz – Ch.149)**

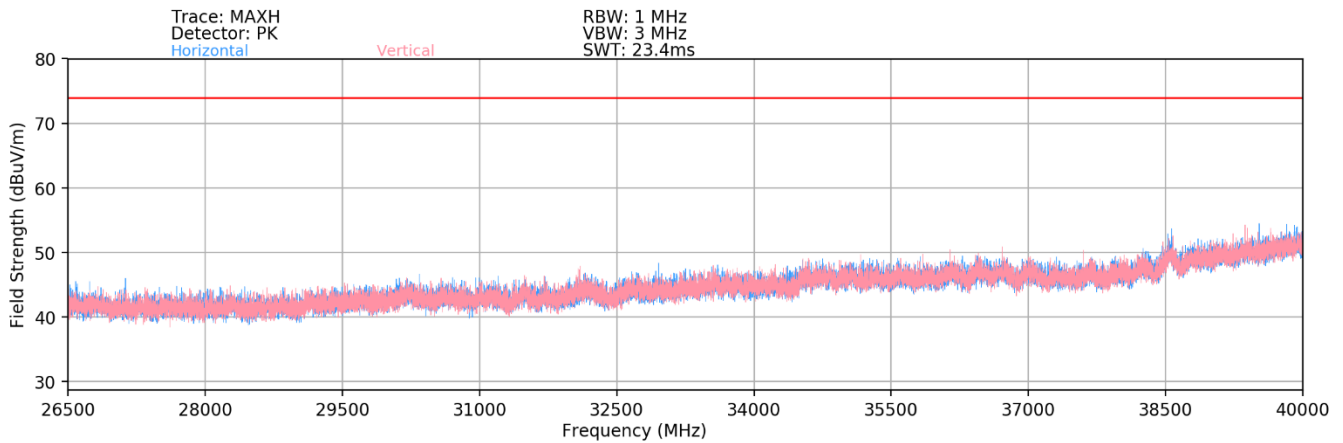
FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 210 of 236



**Plot 7 314. Radiated Spurious Plot above 1GHz MIMO (802.11ax– UNII Band 8 – 20MHz – Ch.209)**



**Plot 7-347. Radiated Spurious Plot above 18GHz - 26.5GHz – CH 117 - MIMO (802.11ax)**



**Plot 7-348. Radiated Spurious Plot 26.5GHz - 40GHz – CH 117 - MIMO (802.11ax)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 211 of 236



**MIMO Radiated Spurious Emission Measurements**  
§15.407(b) §15.205 & §15.209

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5955MHz  
 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]
11910.00	Average	V	-	-	-81.98	11.29	0.00	36.31	53.98	-17.67
* 11910.00	Peak	V	-	-	-68.21	11.29	0.00	50.08	73.98	-23.90
* 17865.00	Average	V	-	-	-82.90	13.58	0.00	37.68	53.98	-16.30
* 17865.00	Peak	V	-	-	-67.69	13.58	0.00	52.89	73.98	-21.09
* 23820.00	Average	V	-	-	-66.67	3.99	-9.54	34.77	53.98	-19.21
* 23820.00	Peak	V	-	-	-57.61	3.99	-9.54	43.84	68.20	-24.36
29775.00	Peak	V	-	-	-56.92	6.33	-9.54	46.87	68.20	-21.33

**Table 7-13. Radiated Measurements MIMO (UNII Band 5 – Low Channel – 20MHz)**

<b>FCC ID:</b> PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2201200003-22-R1.PY7	<b>Test Dates:</b> 3/25/2022 – 5/19/2022	<b>EUT Type:</b> Portable Handset	Page 212 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6175MHz  
 Channel: 45

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]
* 12350.00	Average	V	-	-	-84.28	11.19	0.00	33.91	53.98	-20.07
* 12350.00	Peak	V	-	-	-67.81	11.19	0.00	50.38	73.98	-23.60
* 18525.00	Average	V	-	-	-66.28	1.93	-9.54	33.11	53.98	-20.87
* 18525.00	Peak	V	-	-	-56.09	1.93	-9.54	43.29	73.98	-30.69
24700.00	Peak	V	-	-	-56.94	4.39	-9.54	44.90	68.20	-23.30
30875.00	Peak	V	-	-	-57.07	6.89	-9.54	47.29	68.20	-20.91

**Table 7-14. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz)**

<b>FCC ID:</b> PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2201200003-22-R1.PY7	<b>Test Dates:</b> 3/25/2022 – 5/19/2022	<b>EUT Type:</b> Portable Handset	Page 213 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6415MHz  
 Channel: 93

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]
12830.00	Peak	V	-	-	-82.51	12.03	0.00	36.52	68.20	-31.68
* 19245.00	Average	V	-	-	-66.44	2.30	-9.54	33.31	53.98	-20.67
* 19245.00	Peak	V	-	-	-55.77	2.30	-9.54	43.98	73.98	-30.00
25660.00	Peak	V	-	-	-56.49	4.61	-9.54	45.58	68.20	-22.62
32075.00	Peak	V	-	-	-57.02	7.18	-9.54	47.62	68.20	-20.58

**Table 7-15. Radiated Measurements MIMO (UNII Band 5 – High Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6175MHz  
 Channel: 45

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]
* 12350.00	Average	V	-	-	-85.14	11.19	0.00	33.05	53.98
* 12350.00	Peak	V	-	-	-68.85	11.19	0.00	49.34	73.98
* 18525.00	Average	V	-	-	-66.37	1.93	-9.54	33.02	53.98
* 18525.00	Peak	V	-	-	-56.01	1.93	-9.54	43.38	73.98
24700.00	Peak	V	-	-	-56.73	4.39	-9.54	45.11	68.20
30875.00	Peak	V	-	-	-57.32	6.89	-9.54	47.03	68.20

**Table 7-16. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz - WCP)**

FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 214 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6435MHz  
 Channel: 97

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]
12870.00	Peak	V	-	-	-68.76	12.12	0.00	50.36	68.20	-17.84
* 19305.00	Average	V	-	-	-66.62	2.61	-9.54	33.45	53.98	-20.53
* 19305.00	Peak	V	-	-	-56.65	2.61	-9.54	43.42	73.98	-30.56
25740.00	Peak	V	-	-	-56.71	4.71	-9.54	45.46	68.20	-22.74
32175.00	Peak	V	-	-	-57.03	7.21	-9.54	47.63	68.20	-20.57

**Table 7-17. Radiated Measurements MIMO (UNII Band 6 – Low Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6475MHz  
 Channel: 105

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]
12950.00	Peak	V	-	-	-68.73	12.24	0.00	50.51	68.20	-17.69
* 19425.00	Average	V	-	-	-65.84	2.67	-9.54	34.29	53.98	-19.69
* 19425.00	Peak	V	-	-	-56.09	2.67	-9.54	44.04	73.98	-29.94
25900.00	Peak	V	-	-	-57.06	4.77	-9.54	45.17	68.20	-23.03
32375.00	Peak	V	-	-	-58.30	6.96	-9.54	46.12	68.20	-22.08

**Table 7-18. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz)**

FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 215 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6515MHz  
 Channel: 113

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]
13030.00	Peak	V	-	-	-68.83	12.46	0.00	50.63	68.20	-17.57
* 19545.00	Average	V	-	-	-66.69	2.63	-9.54	33.40	53.98	-20.58
* 19545.00	Peak	V	-	-	-56.12	2.63	-9.54	43.96	73.98	-30.02
26060.00	Peak	V	-	-	-57.16	4.83	-9.54	45.13	68.20	-23.07
32575.00	Peak	V	-	-	-57.47	6.80	-9.54	46.79	68.20	-21.41

**Table 7-19. Radiated Measurements MIMO (UNII Band 6 – High Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6475MHz  
 Channel: 105

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]
12950.00	Peak	V	-	-	-69.62	12.24	0.00	49.62	68.20	-18.58
* 19425.00	Average	V	-	-	-65.79	2.67	-9.54	34.33	53.98	-19.65
* 19425.00	Peak	V	-	-	-56.71	2.67	-9.54	43.41	73.98	-30.57
25900.00	Peak	V	-	-	-56.80	4.77	-9.54	45.43	68.20	-22.77
32375.00	Peak	V	-	-	-57.21	6.96	-9.54	47.21	68.20	-20.99

**Table 7-20. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz - WCP)**

FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 216 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6535MHz  
 Channel: 117

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]
13070.00	Peak	V	-	-	-68.49	12.64	0.00	51.15	68.20	-17.05
* 19605.00	Average	V	-	-	-66.60	2.75	-9.54	33.61	73.98	-40.37
* 19605.00	Peak	V	-	-	-55.82	2.75	-9.54	44.39	68.20	-23.81
26140.00	Peak	V	-	-	-57.36	5.14	-9.54	45.24	68.20	-22.96
32675.00	Peak	V	-	-	-57.99	7.15	-9.54	46.63	68.20	-21.57

**Table 7-21. Radiated Measurements MIMO (UNII Band 7 – Low Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6695MHz  
 Channel: 149

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]
* 13390.00	Average	V	-	-	-82.56	12.90	0.00	37.34	53.98	-16.64
* 13390.00	Peak	V	-	-	-68.24	12.90	0.00	51.66	73.98	-22.32
* 20085.00	Average	V	-	-	-66.44	3.06	-9.54	34.08	68.20	-34.12
* 20085.00	Peak	V	-	-	-55.94	3.06	-9.54	44.58	53.98	-9.40
26780.00	Peak	V	-	-	-57.43	5.33	-9.54	45.36	68.20	-22.84
33475.00	Peak	V	-	-	-56.44	7.51	-9.54	48.53	68.20	-19.67

**Table 7-22. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz)**

FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 217 of 236



Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6875MHz  
 Channel: 185

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]
13750.00	Peak	V	-	-	-66.00	13.70	0.00	54.70	68.20	-13.50
* 20625.00	Average	V	-	-	-67.17	3.32	-9.54	33.61	53.98	-20.37
* 20625.00	Peak	V	-	-	-55.88	3.32	-9.54	44.90	73.98	-29.08
27500.00	Peak	V	-	-	-57.23	4.97	-9.54	45.20	68.20	-23.00
34375.00	Peak	V	-	-	-57.30	7.82	-9.54	47.98	68.20	-20.22

**Table 7-23. Radiated Measurements MIMO (UNII Band 7 – High Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6695MHz  
 Channel: 149

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]
* 13390.00	Average	V	-	-	-81.38	12.90	0.00	38.52	53.98	-15.46
* 13390.00	Peak	V	-	-	-68.86	12.90	0.00	51.04	73.98	-22.94
* 20085.00	Average	V	-	-	-66.41	3.06	-9.54	34.10	53.98	-19.88
* 20085.00	Peak	V	-	-	-56.53	3.06	-9.54	43.99	73.98	-29.99
26780.00	Peak	V	-	-	-57.58	5.33	-9.54	45.20	68.20	-23.00
33475.00	Peak	V	-	-	-57.63	7.51	-9.54	47.34	68.20	-20.86

**Table 7-24. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz - WCP)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 218 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6895MHz  
 Channel: 189

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]
13790.00	Peak	V	-	-	-68.46	13.50	0.00	52.04	68.20	-16.16
* 20685.00	Average	V	-	-	-66.76	3.24	-9.54	33.93	53.98	-20.05
* 20685.00	Peak	V	-	-	-57.00	3.24	-9.54	43.69	73.98	-30.29
27580.00	Peak	V	-	-	-57.44	5.11	-9.54	45.12	68.20	-23.08
34475.00	Peak	V	-	-	-57.64	7.75	-9.54	47.56	68.20	-20.64

**Table 7-25. Radiated Measurements MIMO (UNII Band 8 – Low Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6995MHz  
 Channel: 209

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]
13990.00	Peak	V	-	-	-68.07	13.36	0.00	52.29	68.20	-15.91
* 20985.00	Average	V	-	-	-66.43	3.52	-9.54	34.55	53.98	-19.43
* 20985.00	Peak	V	-	-	-56.47	3.52	-9.54	44.51	73.98	-29.47
27980.00	Peak	V	-	-	-57.83	4.92	-9.54	44.55	68.20	-23.65
34975.00	Peak	V	-	-	-57.29	8.03	-9.54	48.20	68.20	-20.00

**Table 7-26. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 219 of 236

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 7115MHz  
 Channel: 233

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]
14230.00	Peak	V	-	-	-68.82	13.59	0.00	51.77	68.20	-16.43
* 21345.00	Average	V	-	-	-66.79	3.97	-9.54	34.63	73.98	-39.35
* 21345.00	Peak	V	-	-	-56.78	3.97	-9.54	44.64	68.20	-23.56
28460.00	Peak	V	-	-	-57.97	5.18	-9.54	44.66	68.20	-23.54
35575.00	Peak	V	-	-	-57.58	7.82	-9.54	47.70	68.20	-20.50

**Table 7-27. Radiated Measurements MIMO (UNII Band 8 – High Channel – 20MHz)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 6995MHz  
 Channel: 209

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]
13990.00	Peak	V	-	-	-68.18	13.36	0.00	52.18	68.20	-16.02
* 20985.00	Average	V	-	-	-66.81	3.52	-9.54	34.17	53.98	-19.81
* 20985.00	Peak	V	-	-	-56.36	3.52	-9.54	44.62	73.98	-29.36
27980.00	Peak	V	-	-	-57.33	4.92	-9.54	45.06	68.20	-23.14
34975.00	Peak	V	-	-	-57.20	8.03	-9.54	48.29	68.20	-19.91

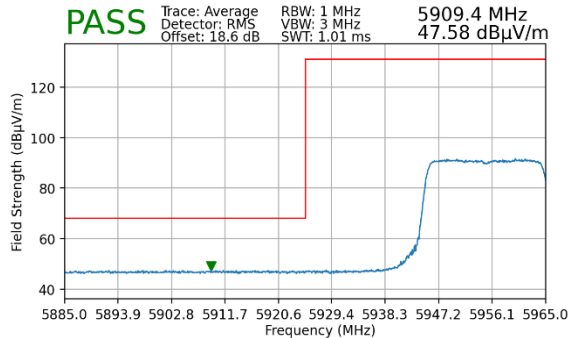
**Table 7-28. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz - WCP)**

FCC ID: PY7-57325M	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M220120003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 220 of 236

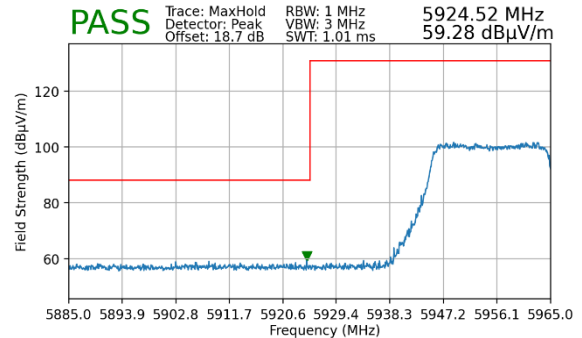
## 7.7.2 MIMO Radiated Band Edge Measurements (20MHz BW)

**§15.407(b)(6) §15.205 §15.209**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1

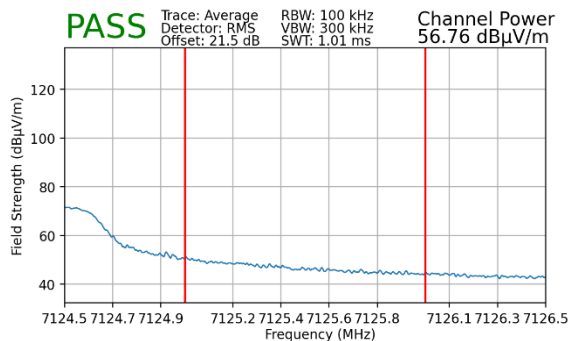


**Plot 7-349. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

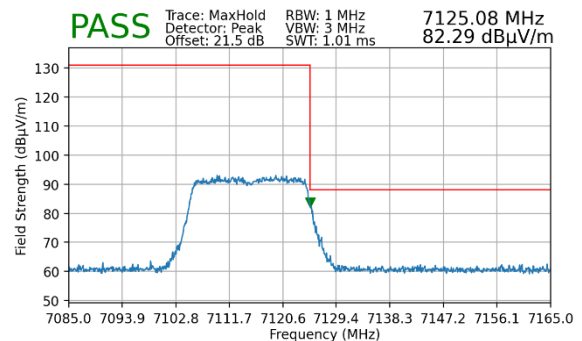


**Plot 7-350. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



**Plot 7-351. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**



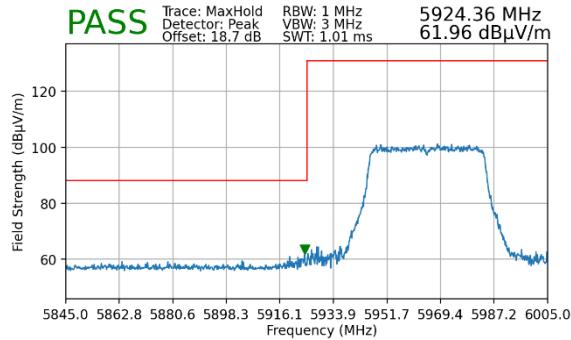
**Plot 7-352. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 221 of 236



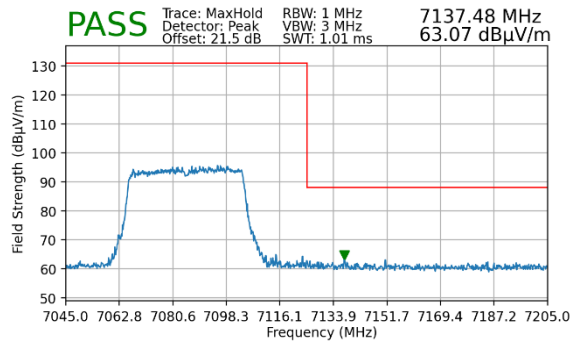
**7.7.3 MIMO Radiated Band Edge Measurements (40MHz BW)**  
**\$15.407(b.5) \$15.205 \$15.209**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5965MHz  
 Channel: 3



**Plot 7-353. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7085MHz  
 Channel: 227

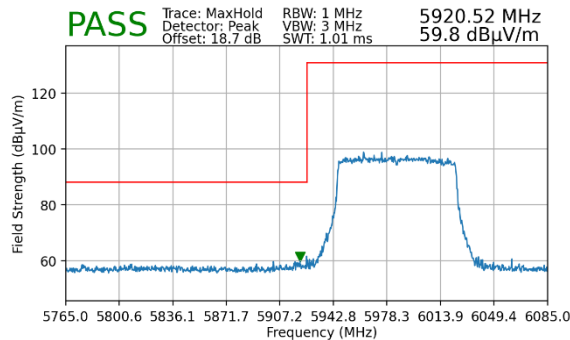


**Plot 7-354. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

<b>FCC ID:</b> PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M2201200003-22-R1.PY7	<b>Test Dates:</b> 3/25/2022 – 5/19/2022	<b>EUT Type:</b> Portable Handset	Page 222 of 236

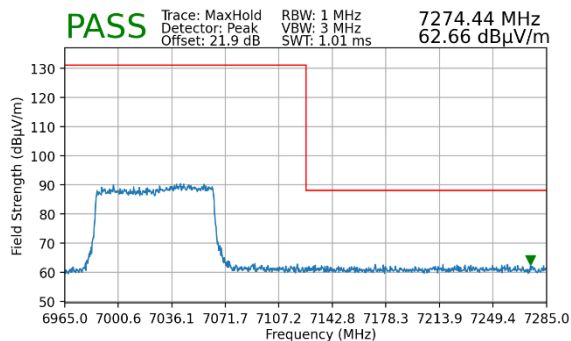
### 7.7.4 MIMO Radiated Band Edge Measurements (80MHz BW) \$15.407(b.5) \$15.205 \$15.209

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 5985MHz  
 Channel: 7



**Plot 7-355. Radiated Lower Band Edge Plot MIMO  
 (Peak – UNII Band 5)**

Worst Case Mode: 802.11ax  
 Worst Case Transfer Rate: MCS0  
 Distance of Measurements: 3 Meters  
 Operating Frequency: 7025MHz  
 Channel: 215



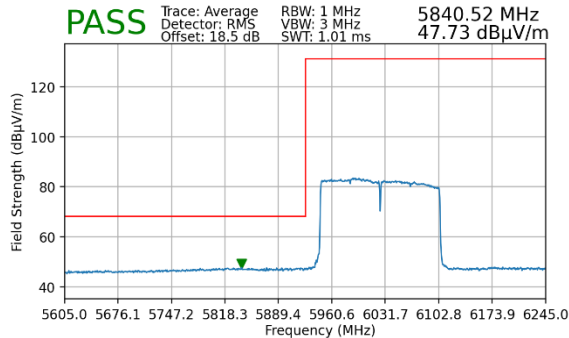
**Plot 7-356. Radiated Upper Band Edge Plot MIMO  
 (Peak – UNII Band 8)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 223 of 236

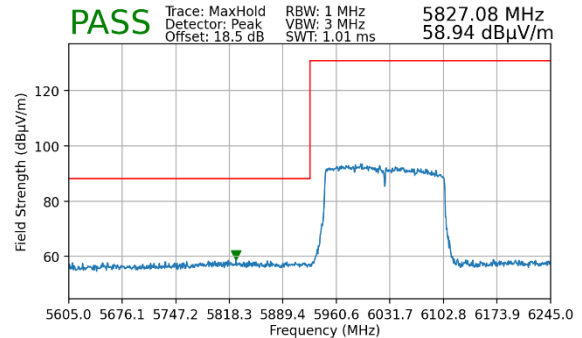
### 7.7.5 MIMO Radiated Band Edge Measurements (160MHz BW)

~~§15.407(b.5)~~ ~~§15.205~~ ~~§15.209~~

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

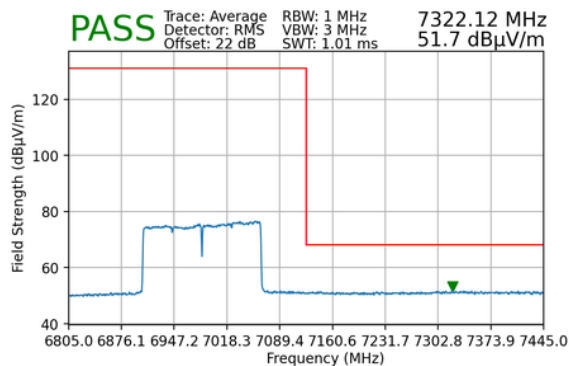


**Plot 7-357. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)**

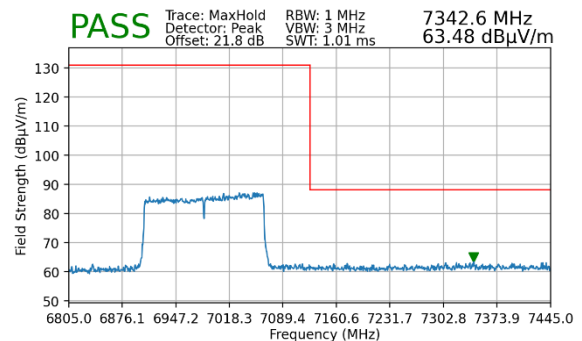


**Plot 7-358. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5)**

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



**Plot 7-359. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)**



**Plot 7-360. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8)**

FCC ID: PY7-57325M	<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M2201200003-22-R1.PY7	Test Dates: 3/25/2022 – 5/19/2022	EUT Type: Portable Handset	Page 224 of 236

## 7.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

**All emissions <1GHz must not exceed the limit shown in Table 7-29 per Section 15.209**

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 7-29. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

#### Quasi-Peak Field Strength Measurements

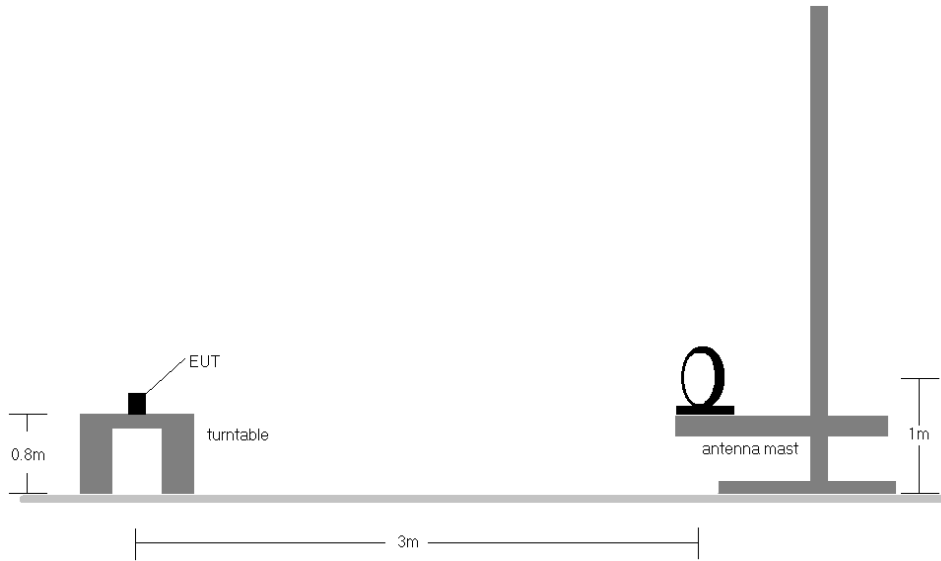
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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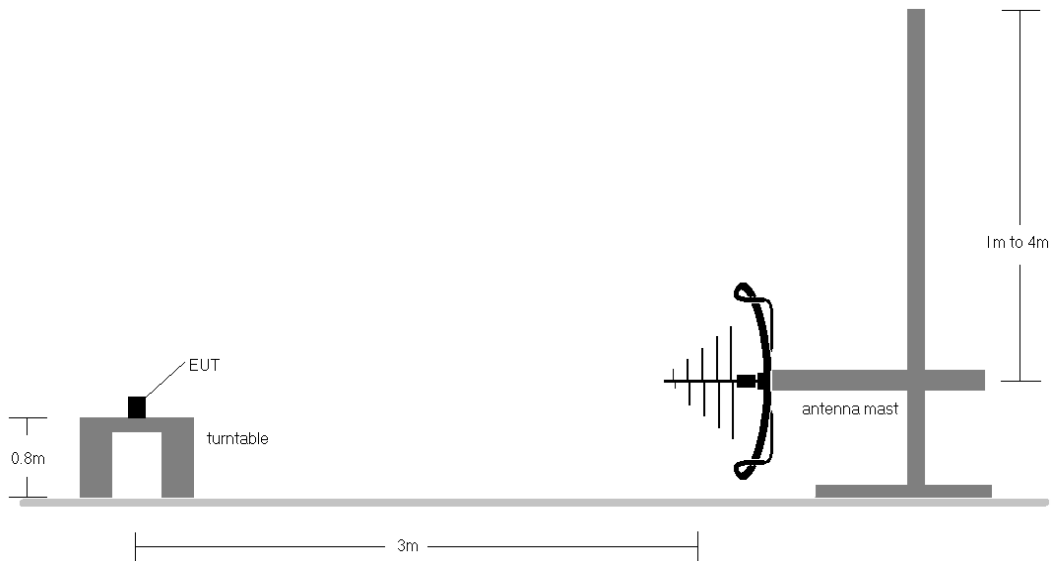


**Test Setup**

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-7. Radiated Test Setup < 30MHz**



**Figure 7-8. Radiated Test Setup < 1GHz**

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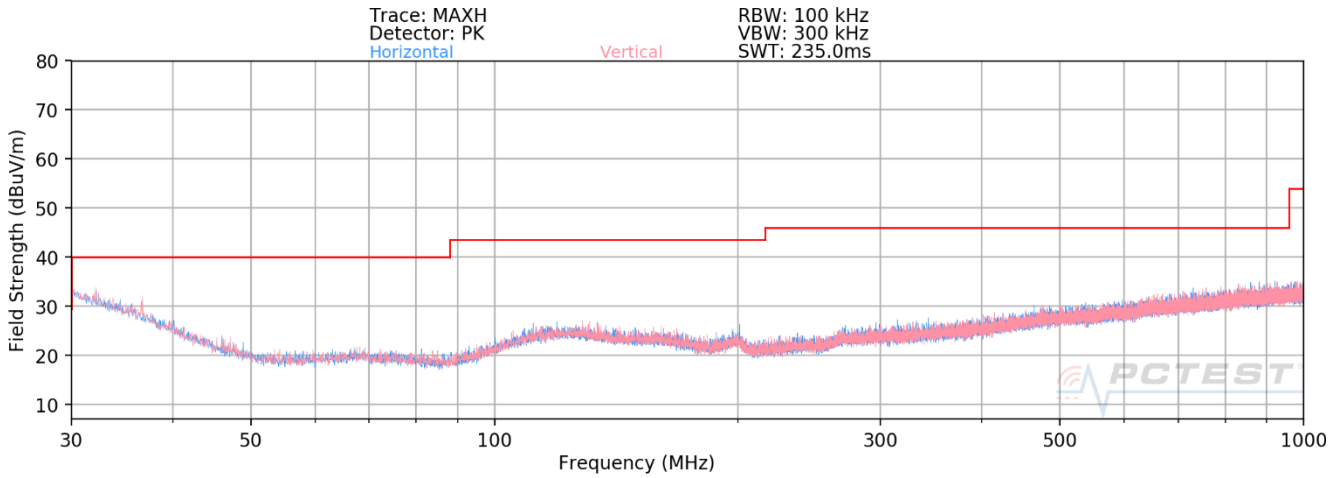
**Test Notes**

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-29.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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## Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



**Plot 7-361. Radiated Spurious Plot below 1GHz**

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## 7.9 Line-Conducted Test Data

### §15.407

#### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

**All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.**

Frequency of emission (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

**Table 7-30. Conducted Limits**

\*Decreases with the logarithm of the frequency.

#### Test Procedures Used

ANSI C63.10-2013, Section 6.2

#### Test Settings

##### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

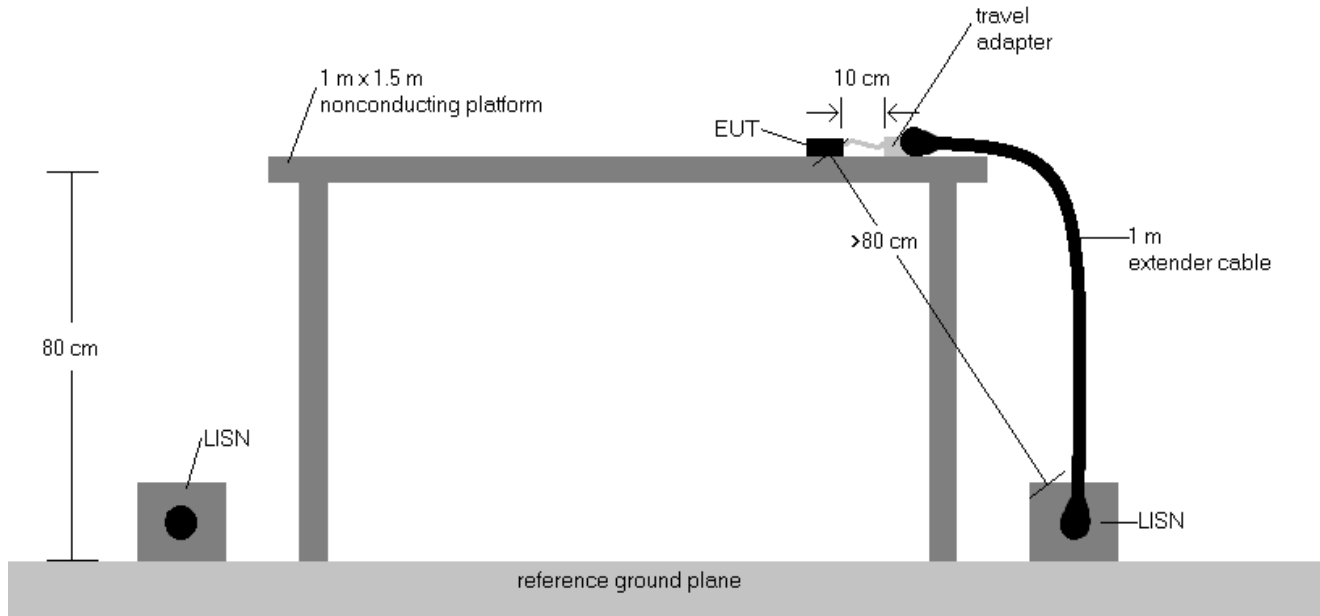
##### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

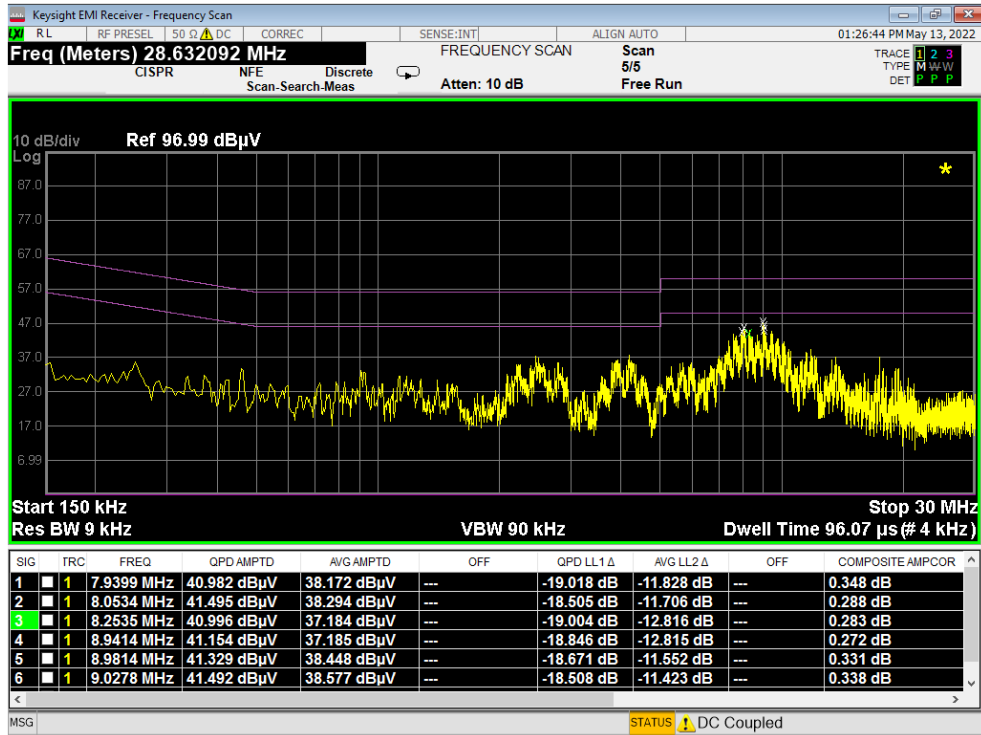


**Figure 7-9. Test Instrument & Measurement Setup**

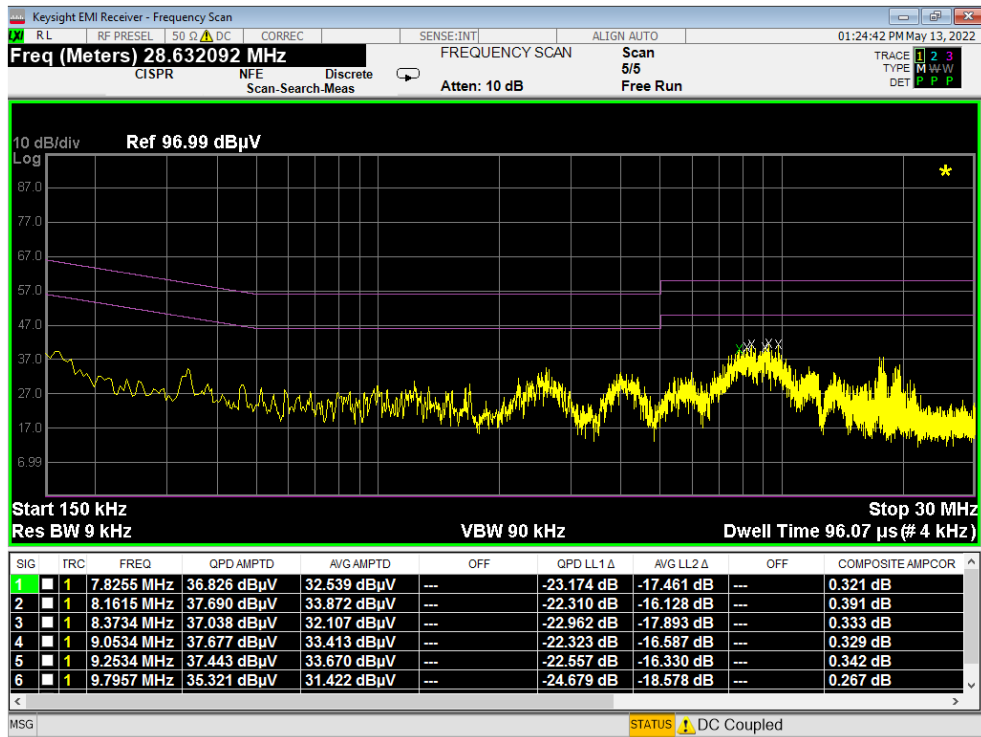
### Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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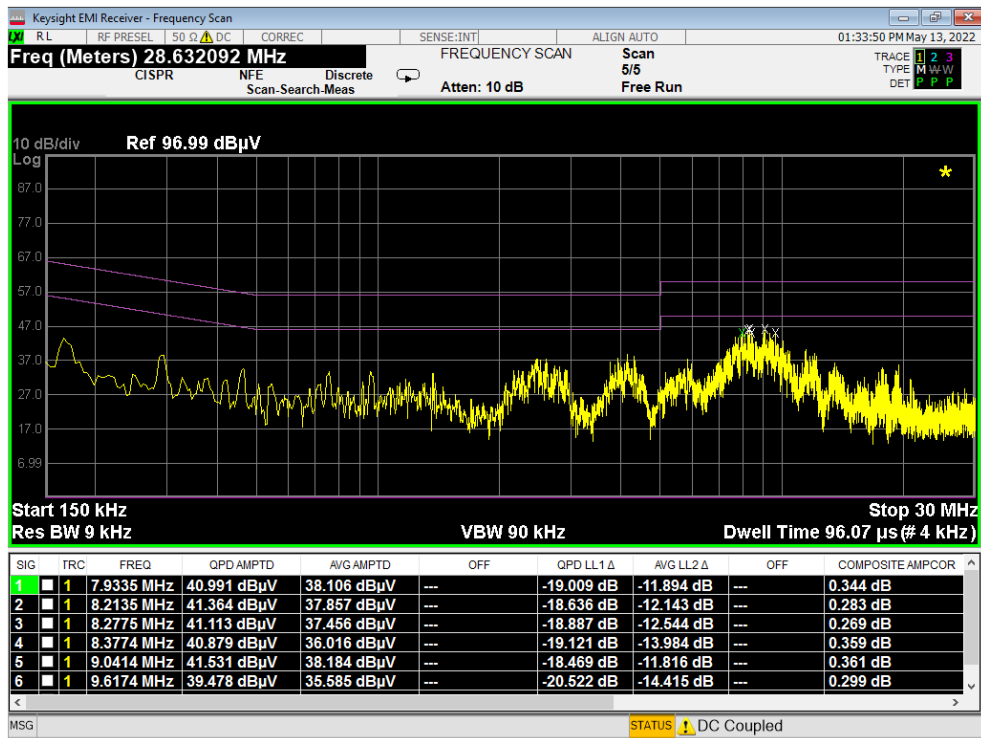


Plot 7-362. Line Conducted Plot with 802.11a UNII Band 5 (L1)

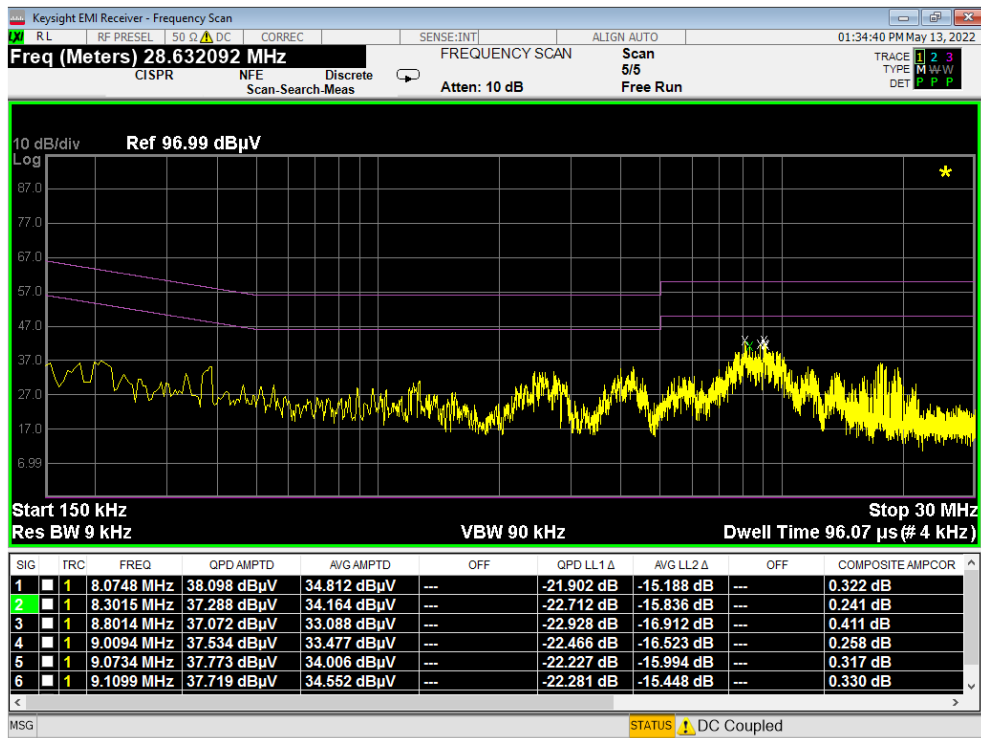


Plot 7-363. Line Conducted Plot with 802.11a UNII Band 5 (N)

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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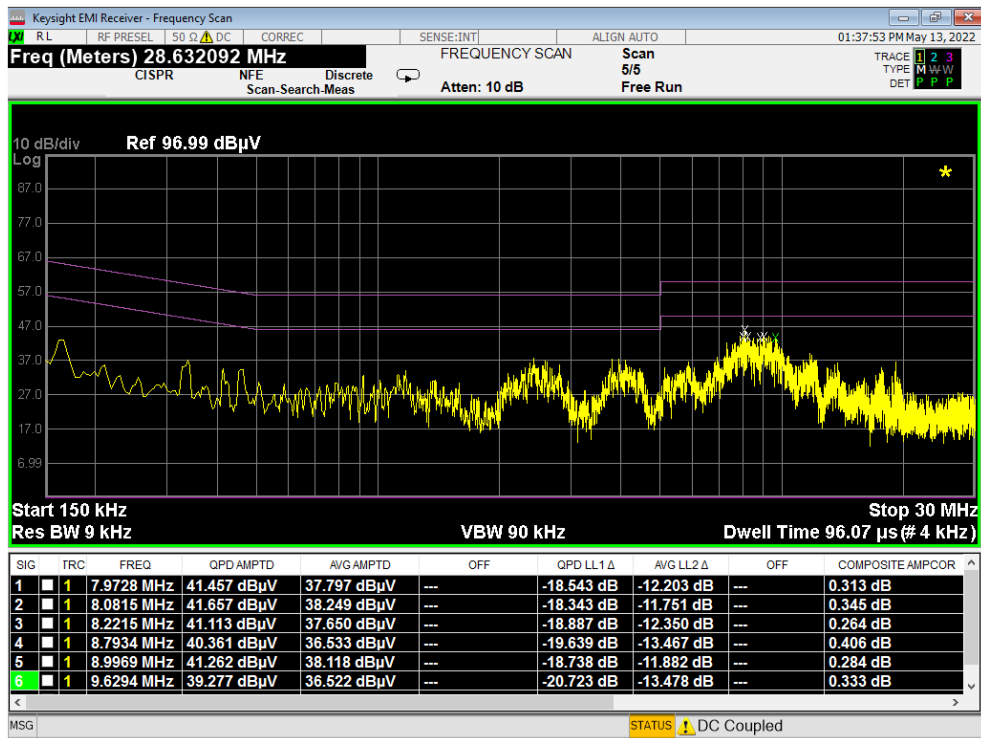


Plot 7-364. Line Conducted Plot with 802.11a UNII Band 6 (L1)

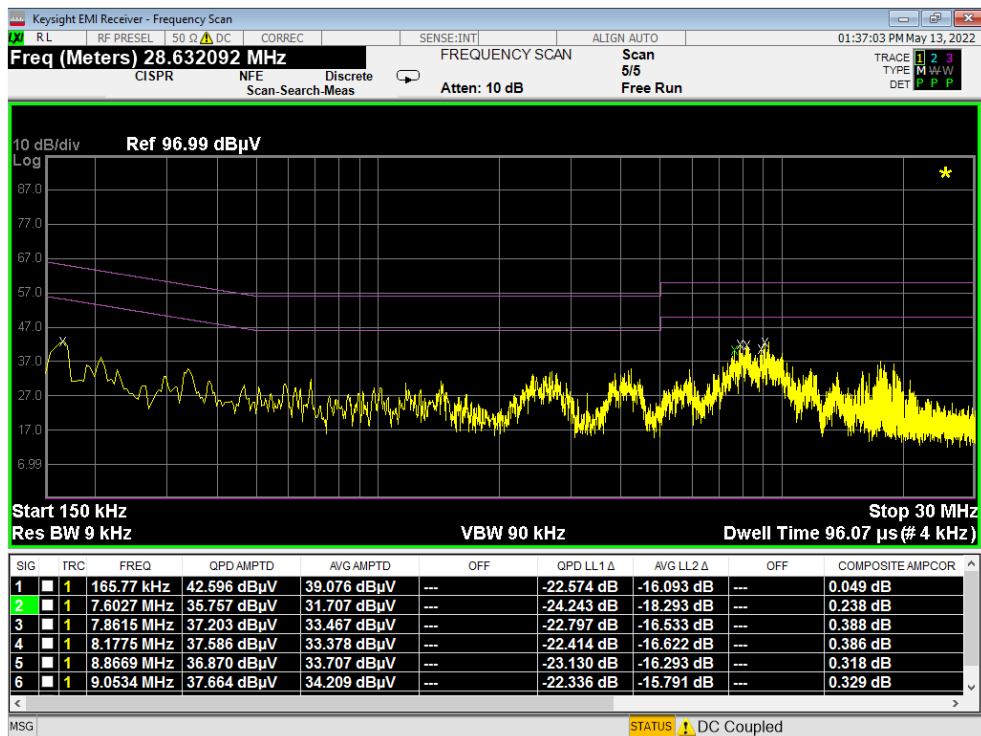


Plot 7-365. Line Conducted Plot with 802.11a UNII Band 6 (N)

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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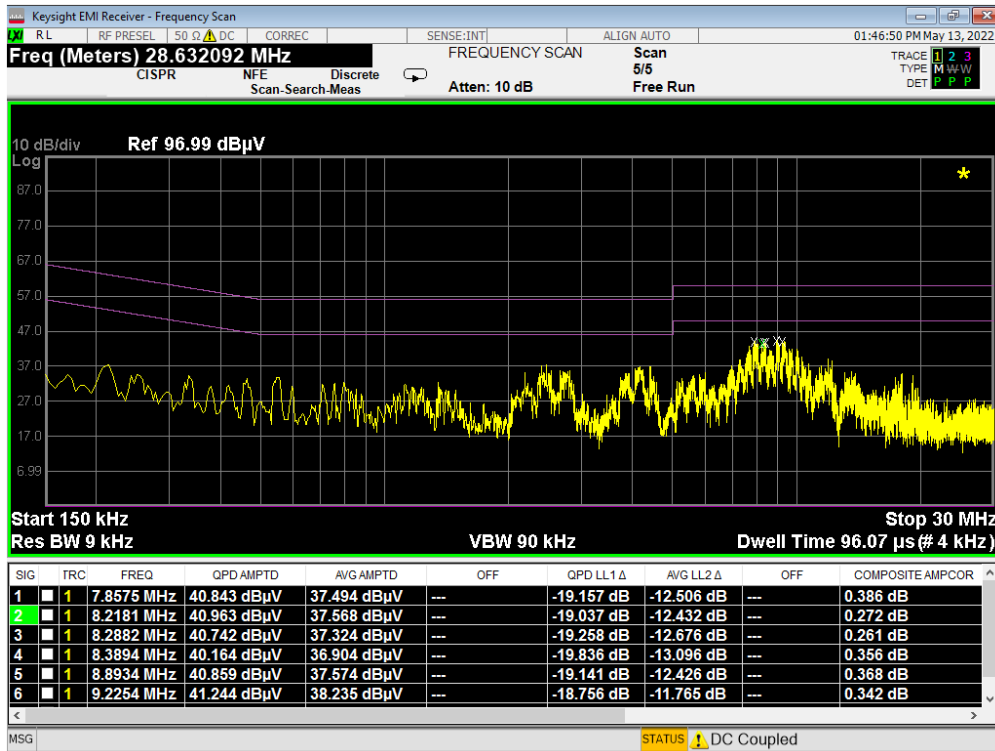
Plot 7-366. Line Conducted Plot with 802.11a UNII Band 7 (L1)



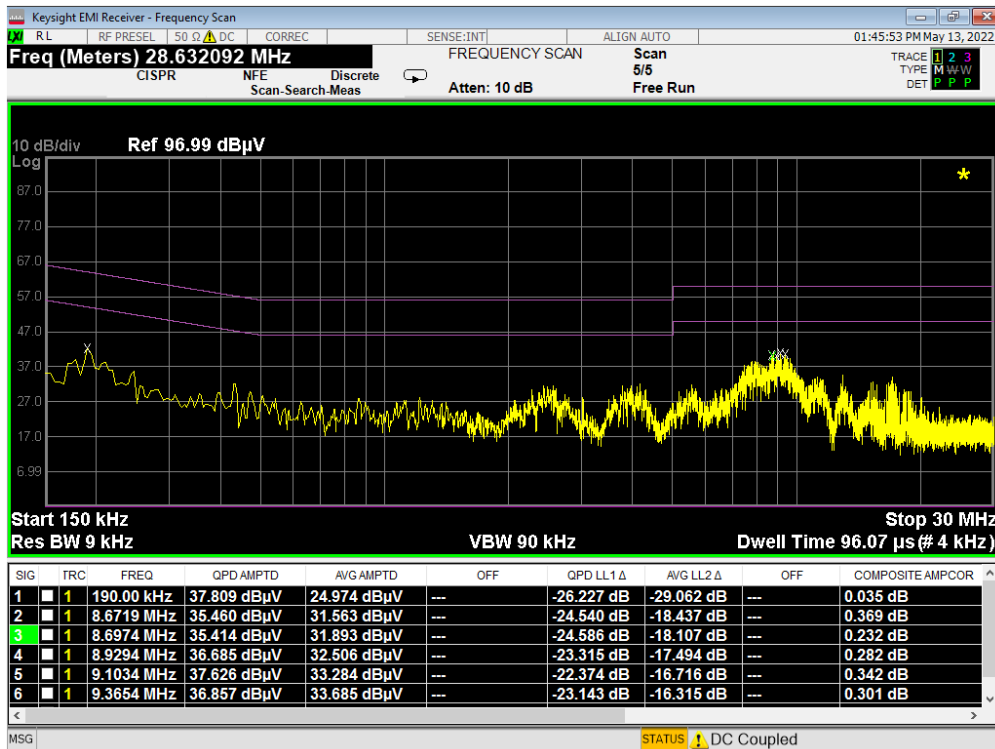
Plot 7-367. Line Conducted Plot with 802.11a UNII Band 7 (N)

FCC ID: PY7-57325M		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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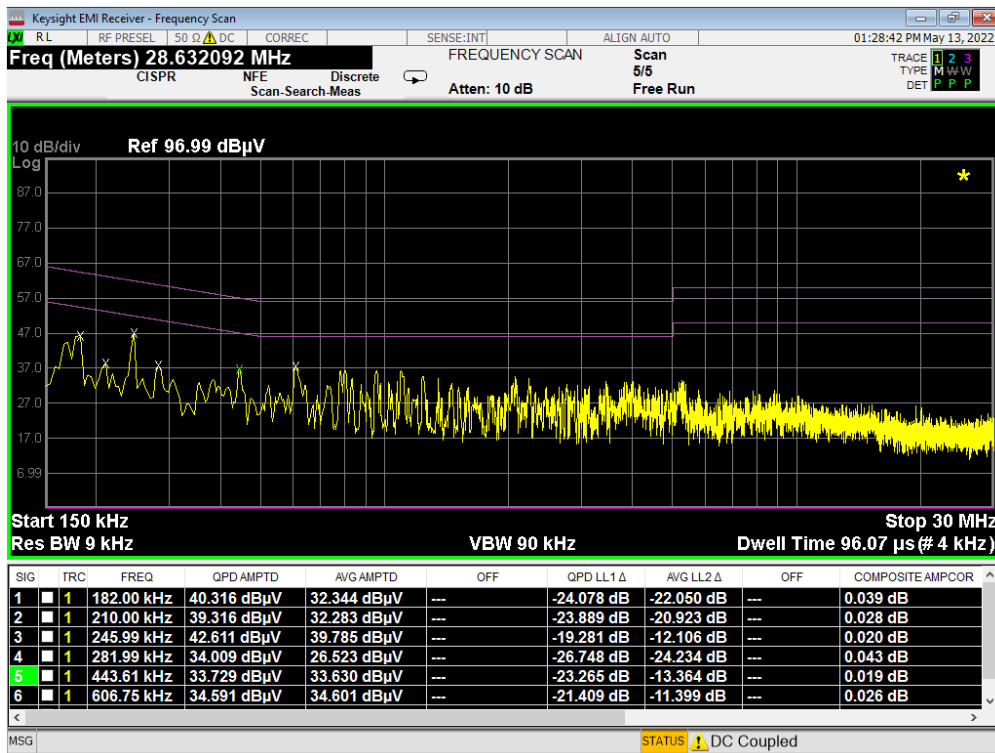


Plot 7-368. Line Conducted Plot with 802.11a UNII Band 8 (L1)

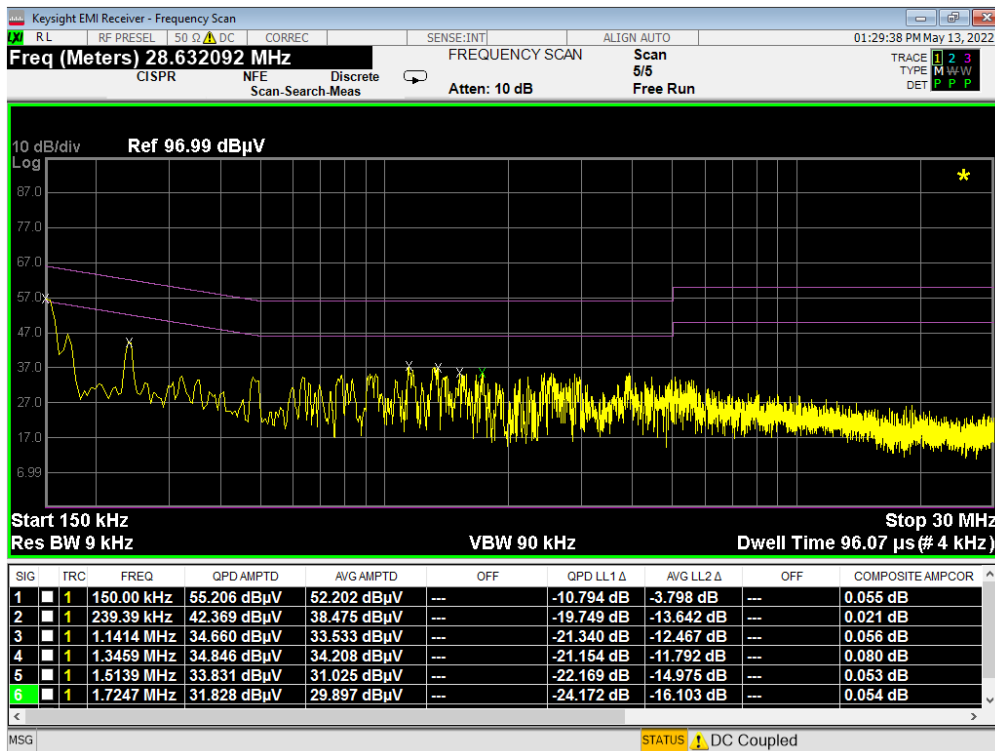


Plot 7-369. Line Conducted Plot with 802.11a UNII Band 8 (N)

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Plot 7-370. Line Conducted Plot with 802.11a UNII Band 5 (L1) with WCP



Plot 7-371. Line Conducted Plot with 802.11a UNII Band 5 (N) with WCP

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **SONY Corporation Portable Handset FCC ID: PY7-57325M** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

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