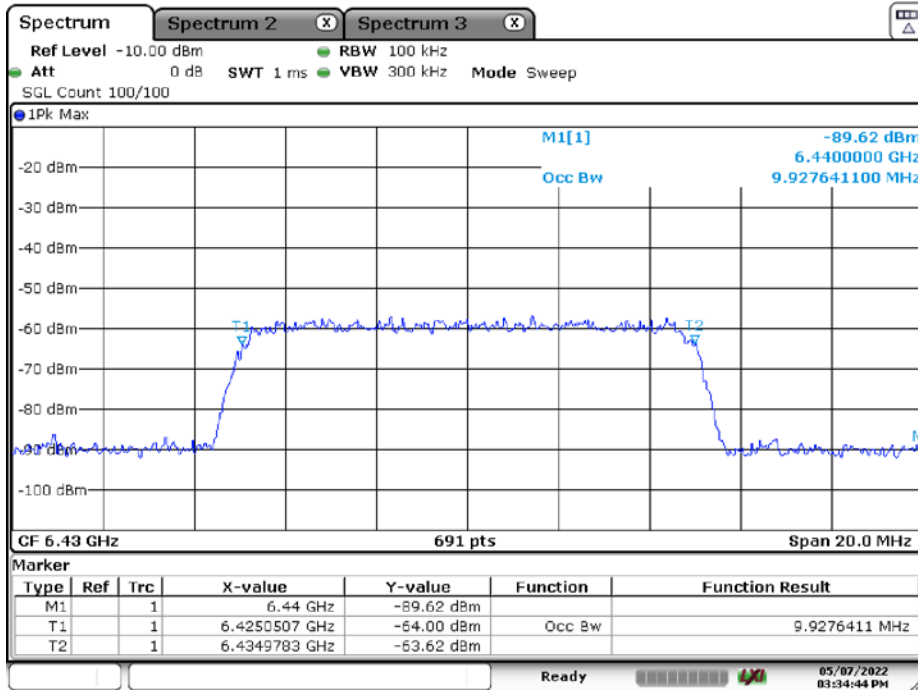


Date: 7.MAY.2022 15:33:06

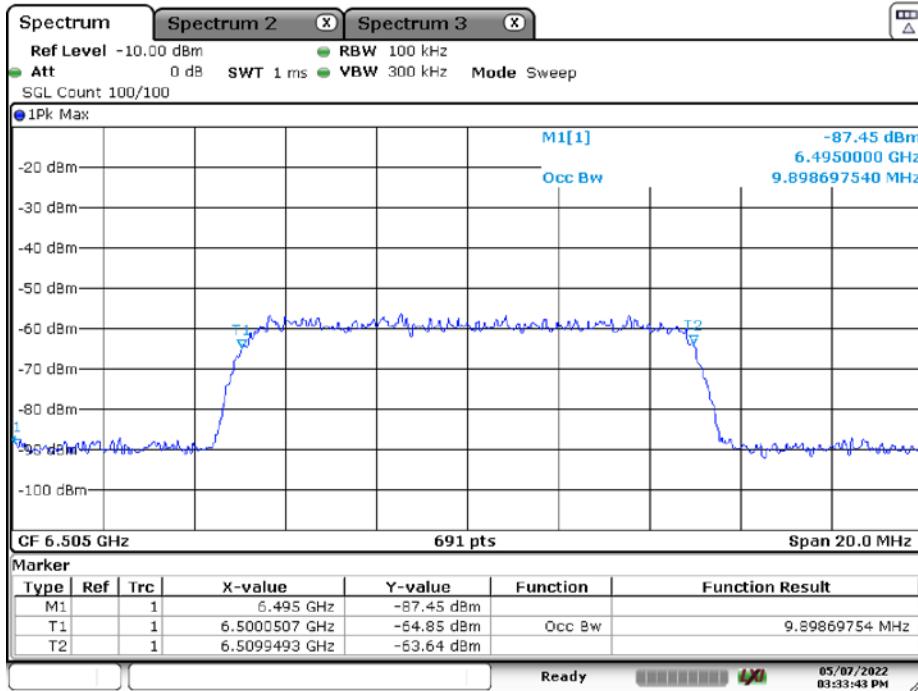
Plot 7-629. AWGN Signal – UNII 6 – 20MHz



Date: 7.MAY.2022 15:34:43

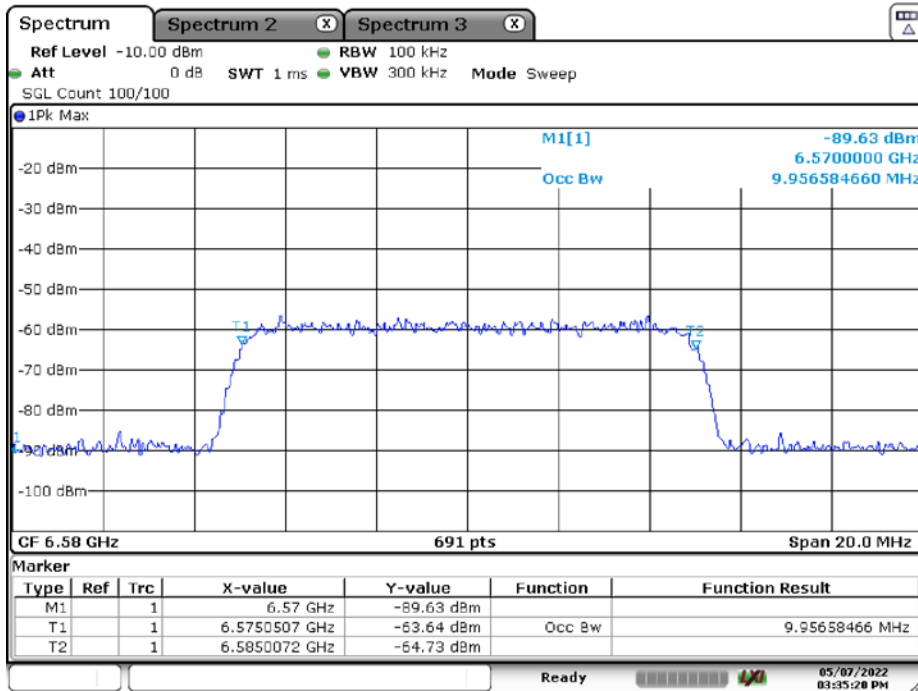
Plot 7-630. AWGN Signal – UNII 6 – 160MHz - Low

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Date: 7.MAY.2022 15:33:43

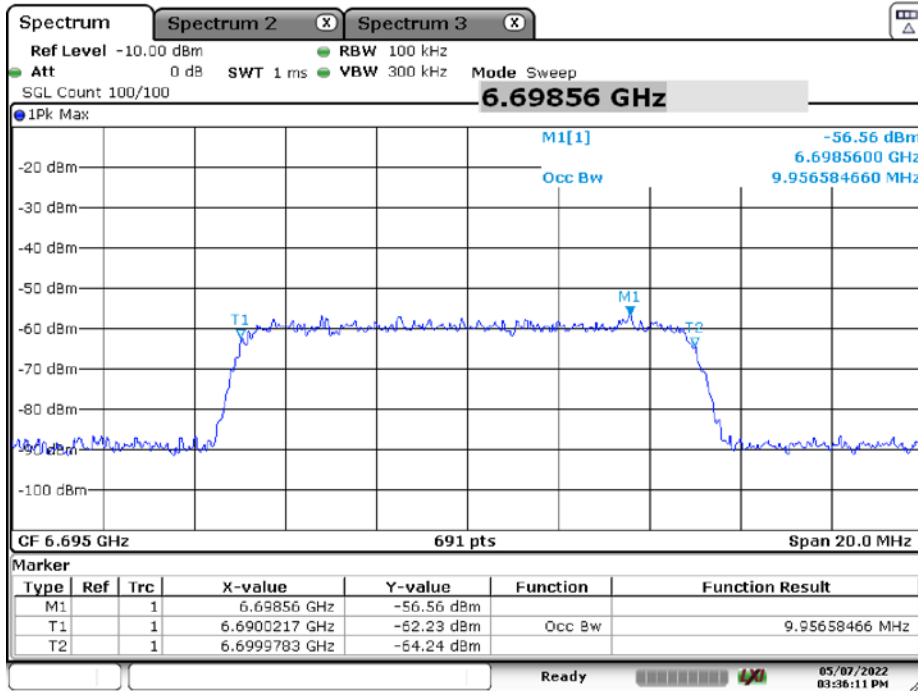
Plot 7-631. AWGN Signal – UNII 6 – 160MHz - Mid



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

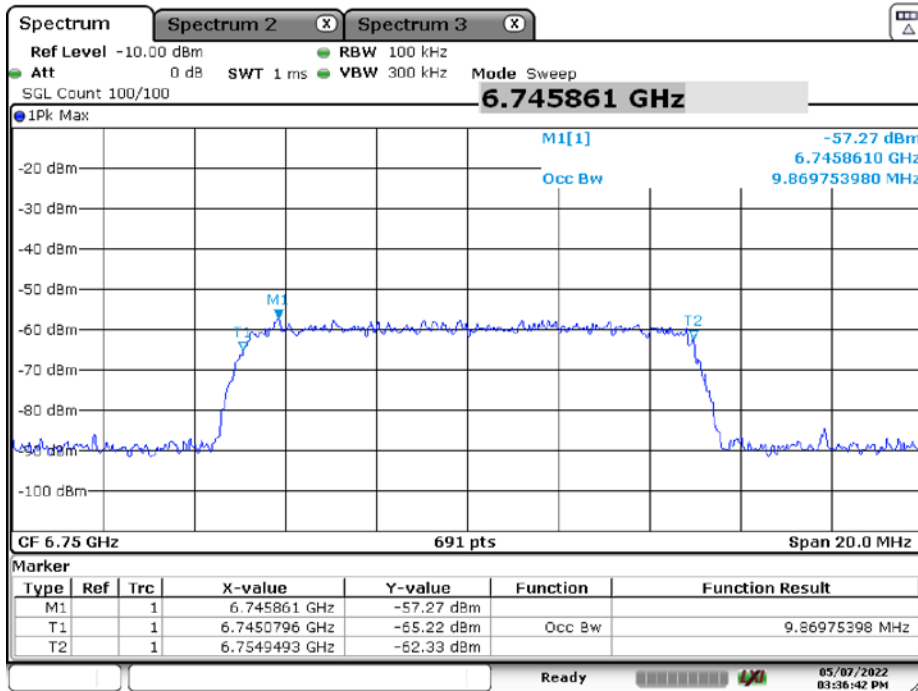
Plot 7-632. AWGN Signal – UNII 6 – 160MHz - High

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 360 of 422



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

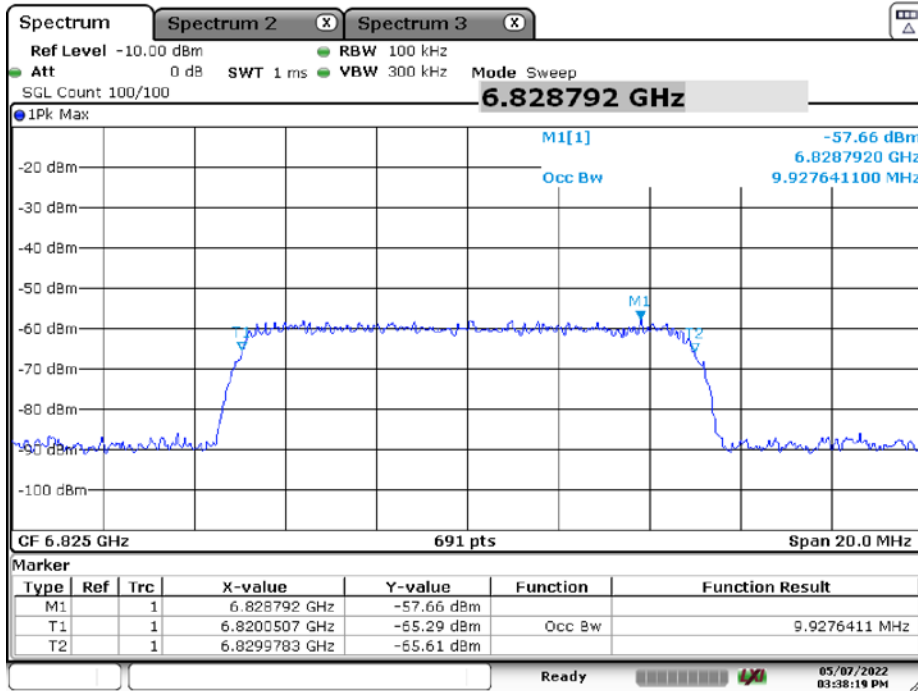
Plot 7-633. AWGN Signal – UNII 7 – 20MHz



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

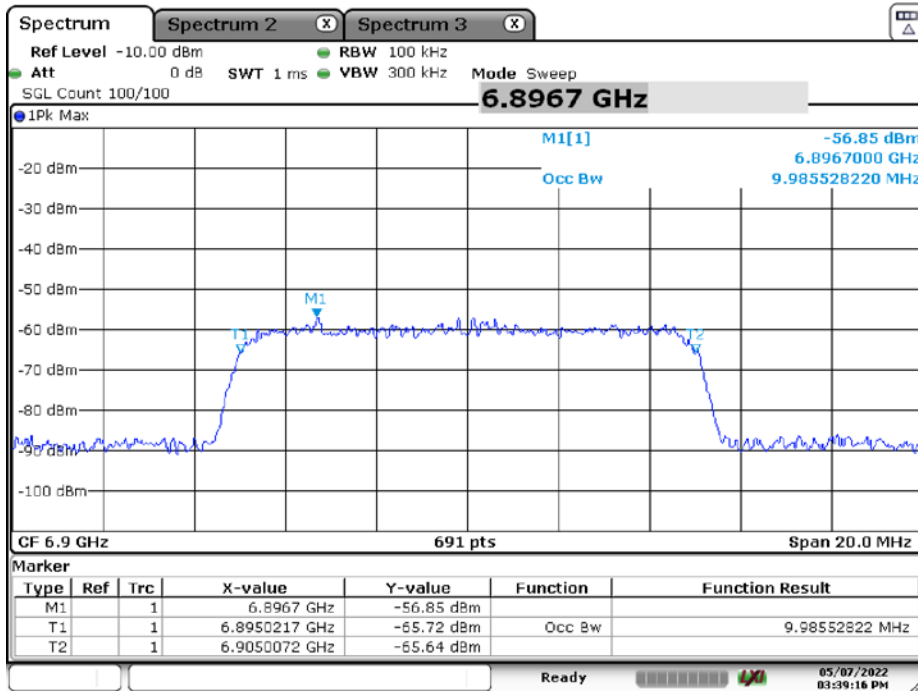
Plot 7-634. AWGN Signal – UNII 7 – 160MHz - Low

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
FCC ID: C3K1997	Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	Page 361 of 422
		EUT Type: Portable Computing Device	



Date: 7.MAY.2022 15:38:18

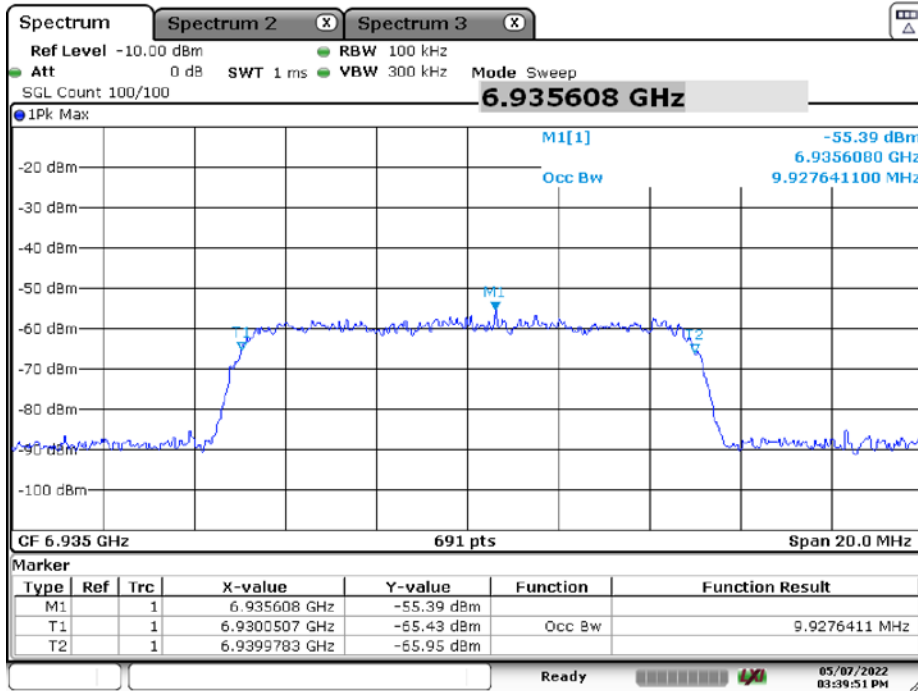
Plot 7-635. AWGN Signal – UNII 7 – 160MHz - Mid



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

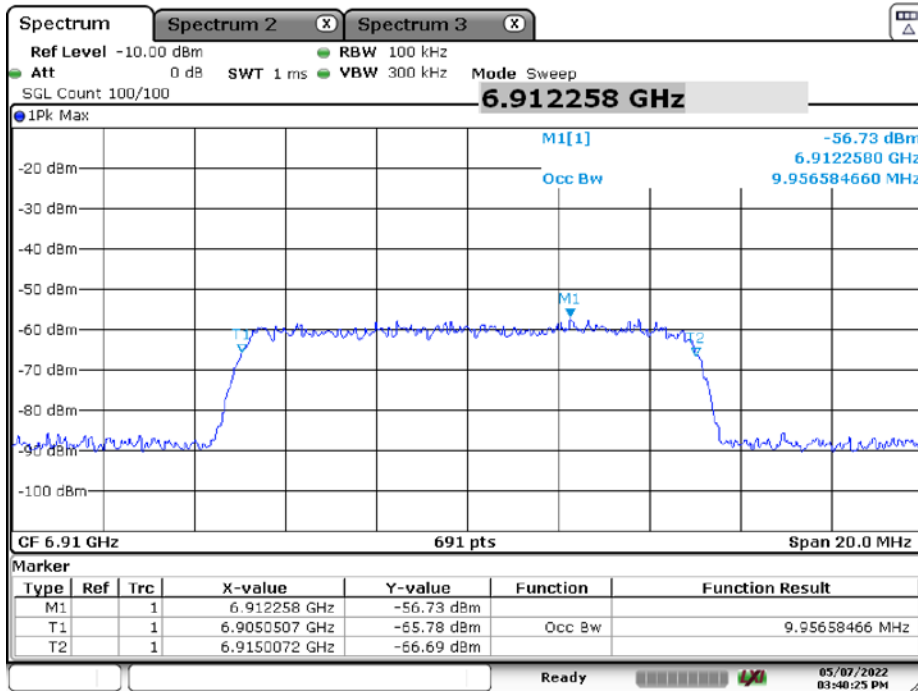
Plot 7-636. AWGN Signal – UNII 7 – 160MHz - High

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Date: 7.MAY.2022 15:39:51

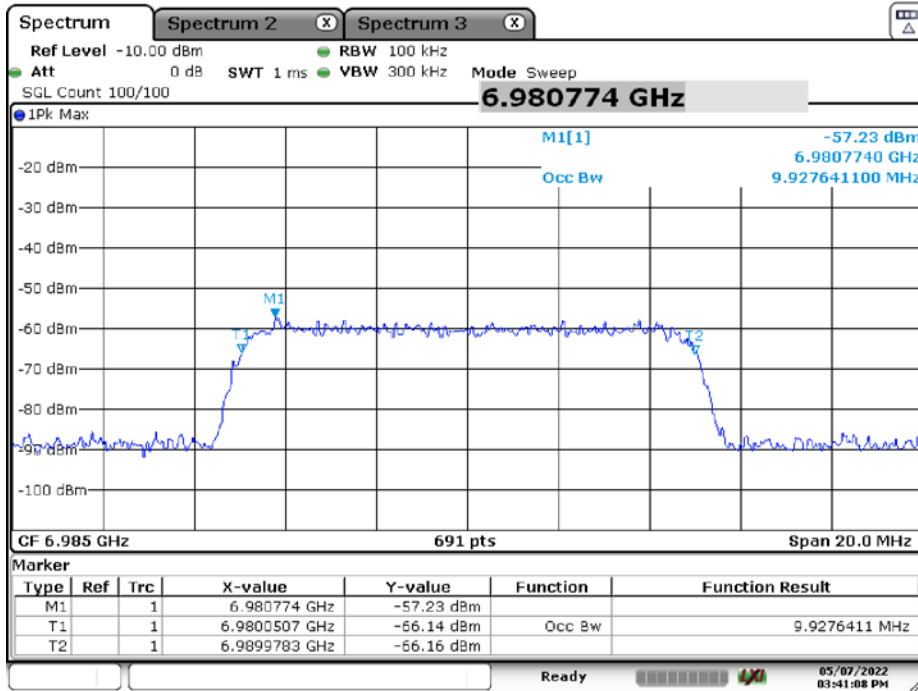
Plot 7-637. AWGN Signal – UNII 8 – 20MHz



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

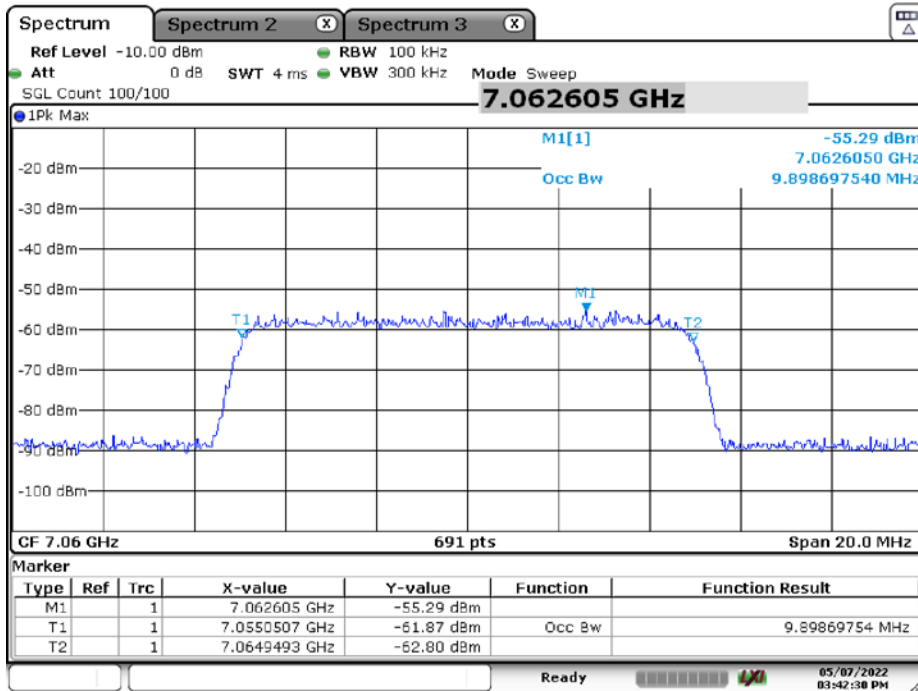
Plot 7-638. AWGN Signal – UNII 8 – 160MHz - Low

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
FCC ID: C3K1997	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 363 of 422



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

Plot 7-639. AWGN Signal – UNII 8 – 160MHz - Mid

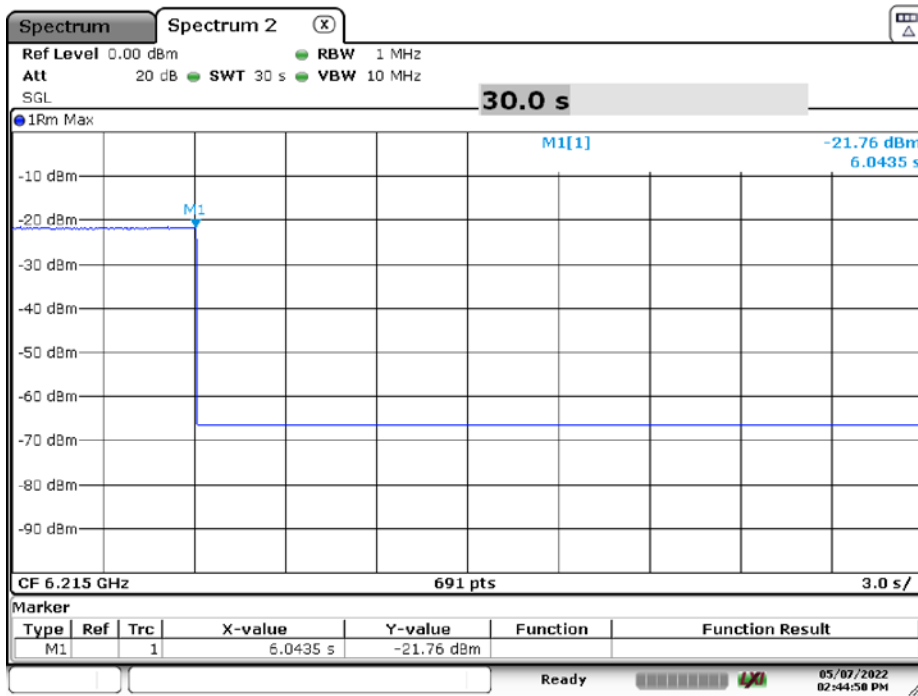


Date: 7.MAY.2022 15:42:30

Plot 7-640. AWGN Signal – UNII 8 – 160MHz - High

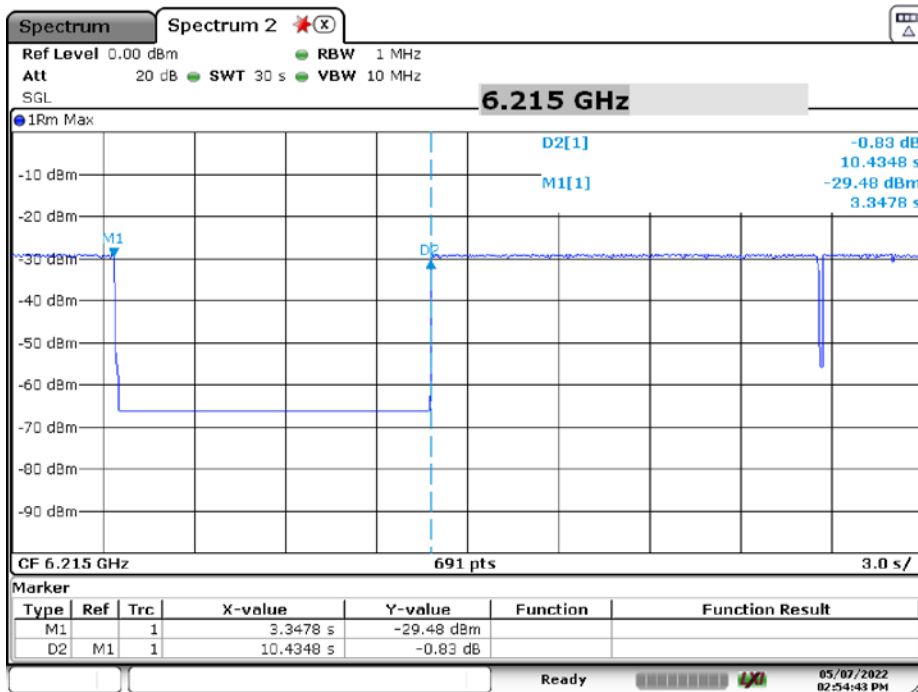
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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CBP Timing Plots



Date: 7.MAY.2022 14:44:50

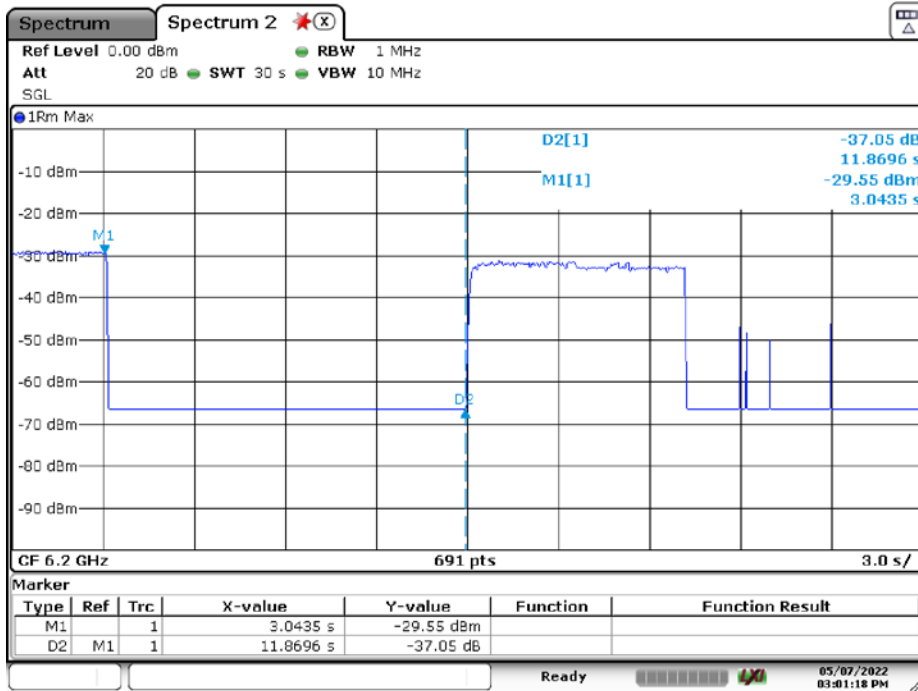
Plot 7-641. Contention Based Protocol Timing Plot – UNII 5 – 20MHz Ch53



Date: 7.MAY.2022 14:54:43

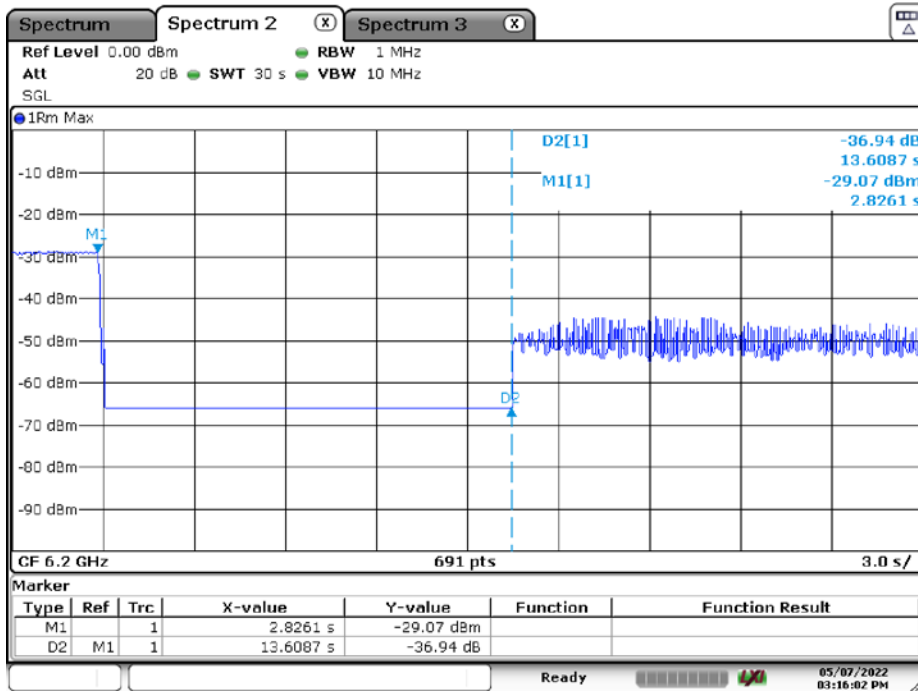
Plot 7-642. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 – Low

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Date: 7.MAY.2022 15:01:18

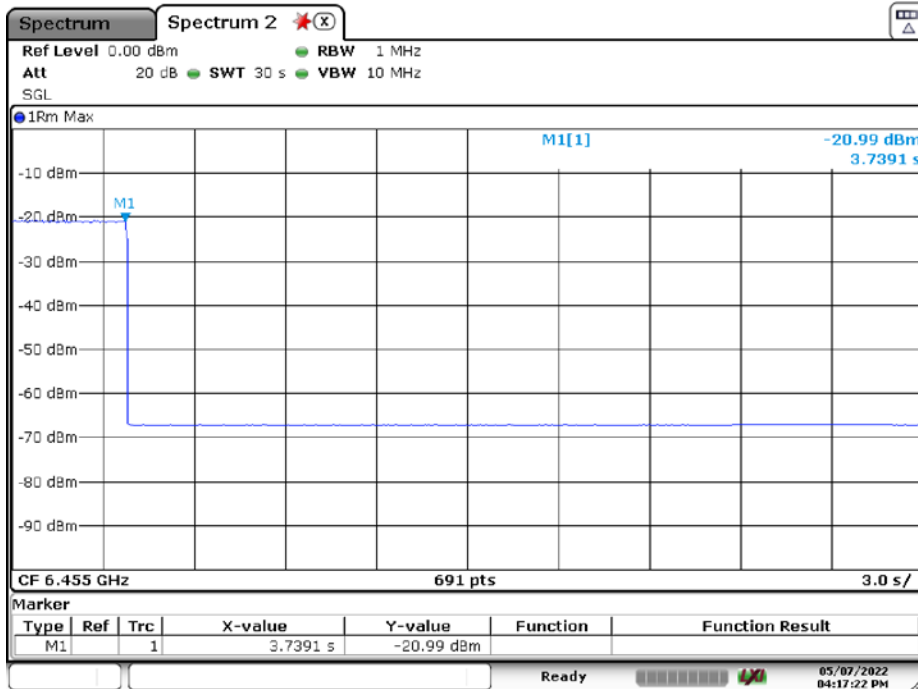
Plot 7-643. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 – Mid



Date: 7.MAY.2022 15:16:02

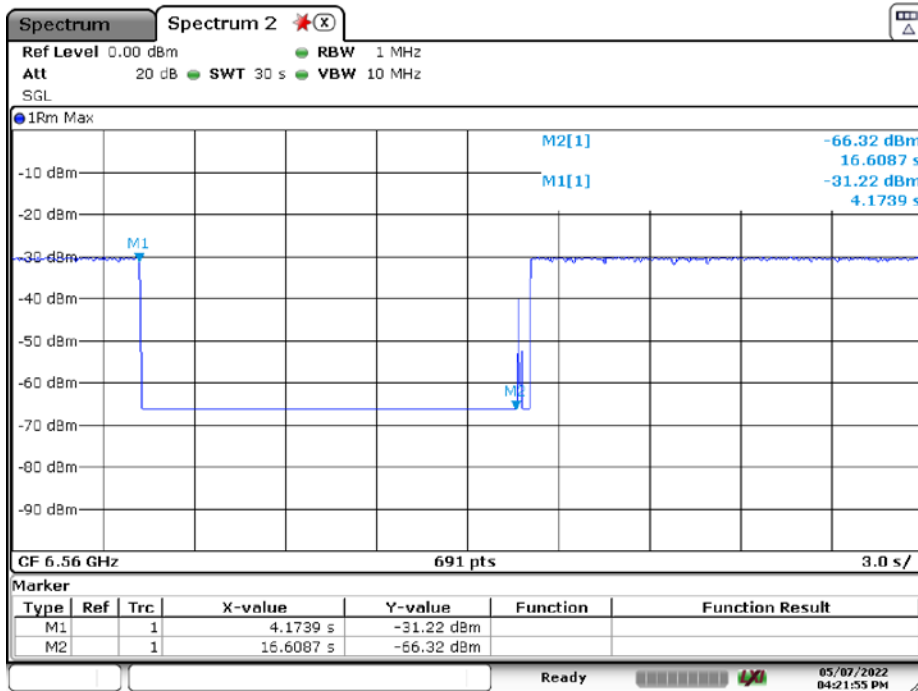
Plot 7-644. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 - High

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Date: 7.MAY.2022 16:17:22

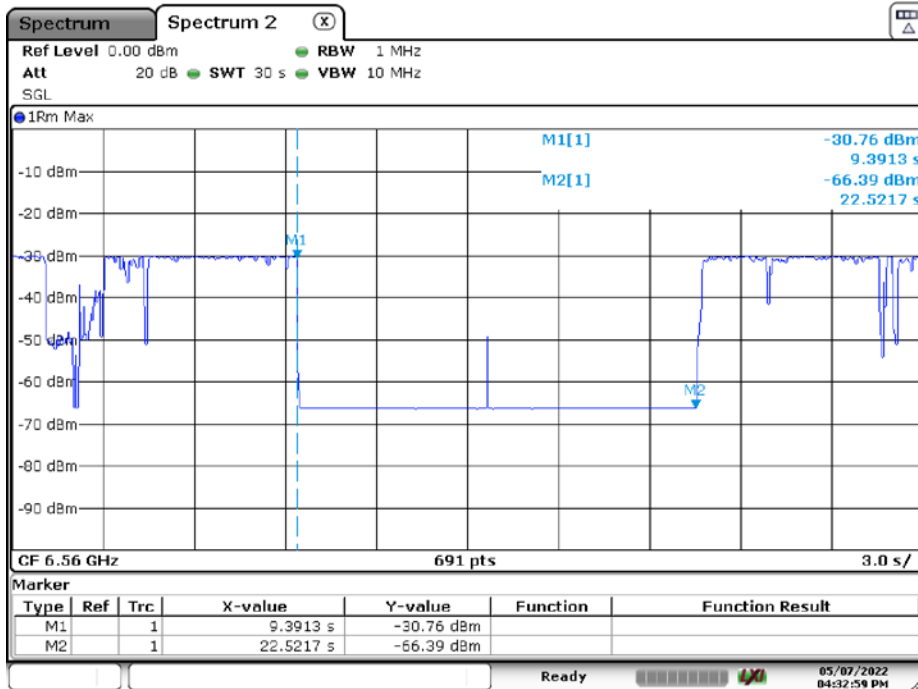
Plot 7-645. Contention Based Protocol Timing Plot – UNII 6 – 20MHz Ch101



Date: 7.MAY.2022 16:21:54

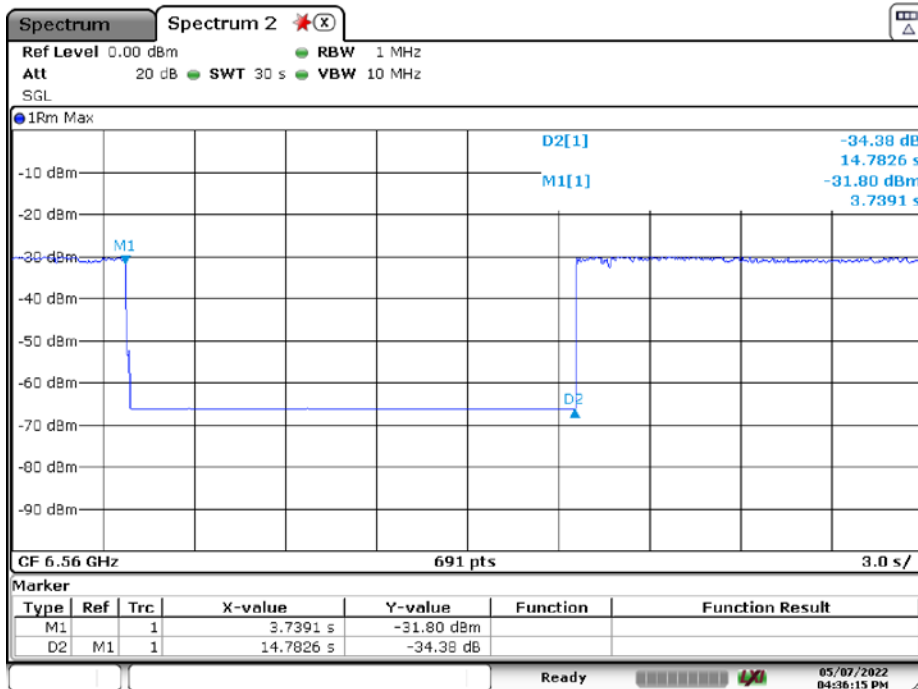
Plot 7-646. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Low

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device		Page 367 of 422



Date: 7.MAY.2022 16:32:58

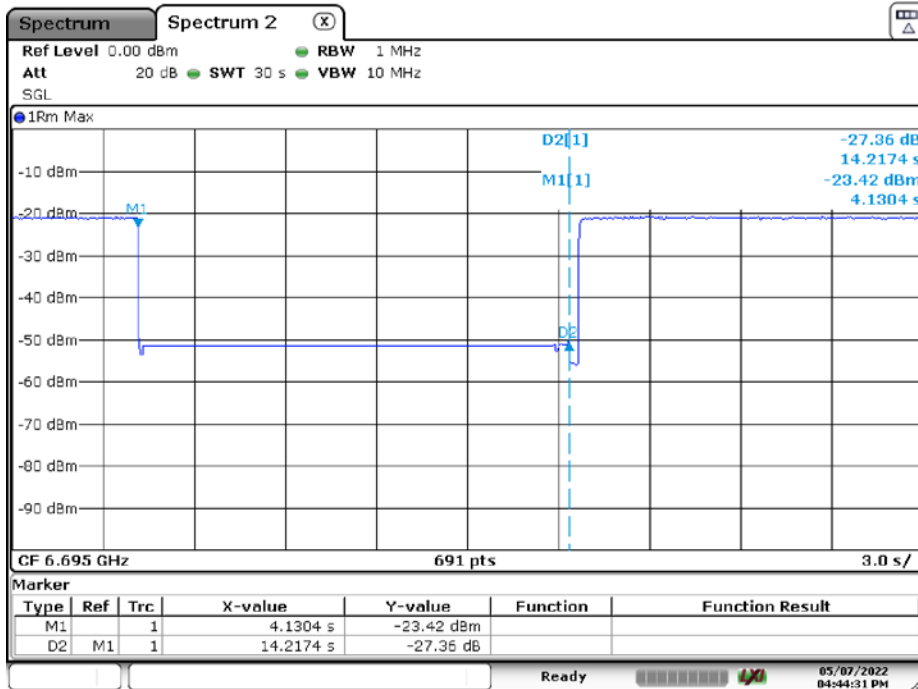
Plot 7-647. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 – Mid



Date: 7.MAY.2022 16:36:15

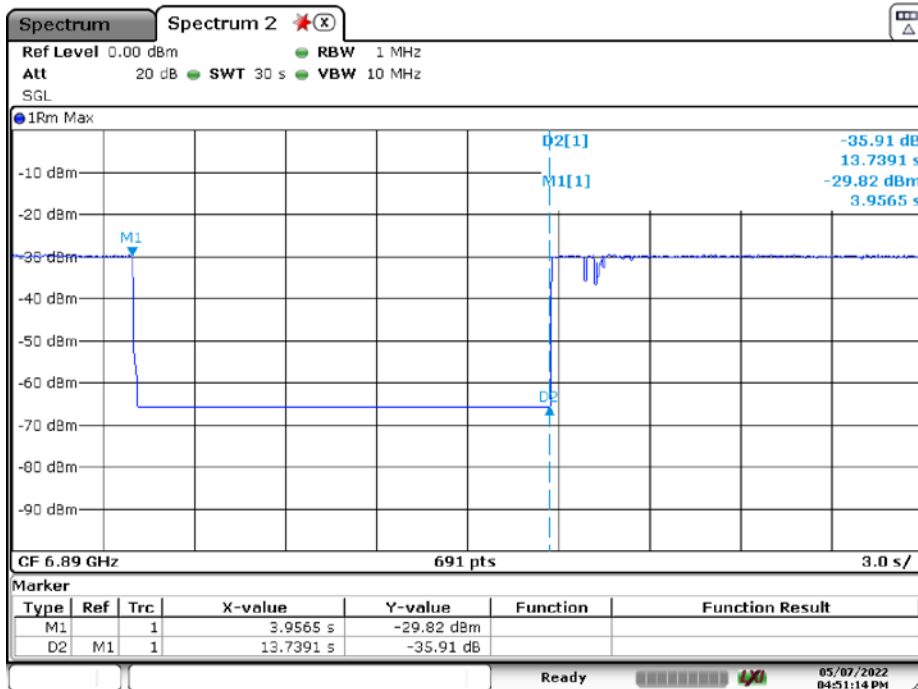
Plot 7-648. Contention Based Protocol Timing Plot – UNII 6 – 160MHz Ch111 - High

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Date: 7.MAY.2022 16:44:31

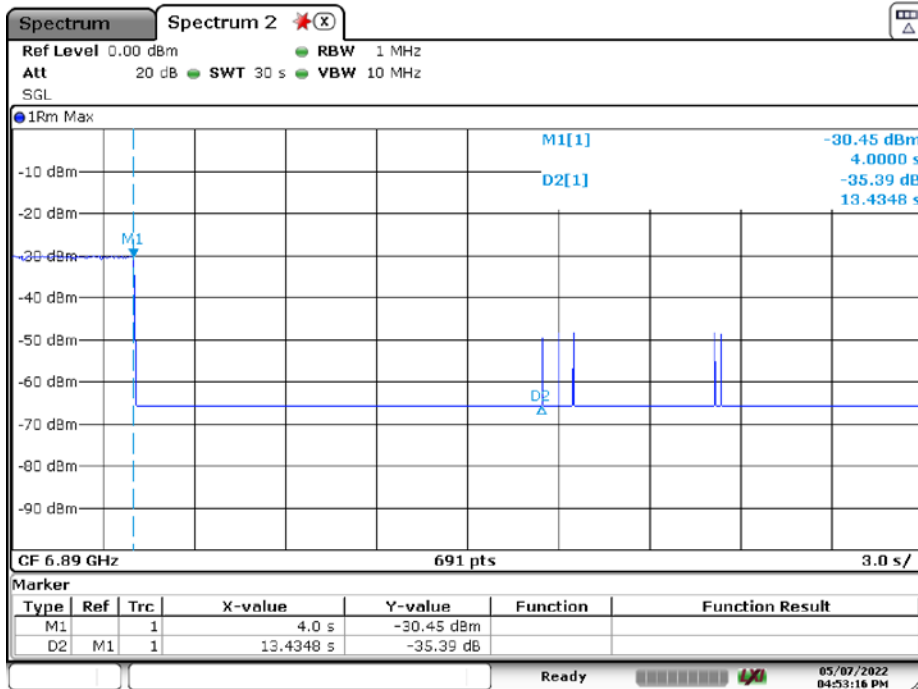
Plot 7-649. Contention Based Protocol Timing Plot – UNII 7 – 20MHz Ch149



Date: 7.MAY.2022 16:51:14

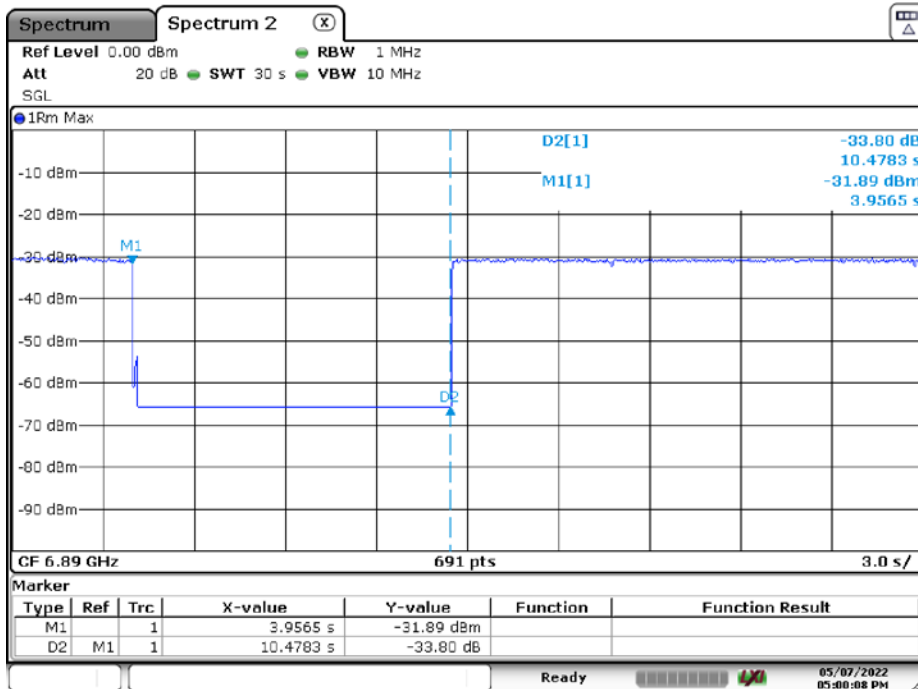
Plot 7-650. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Low

FCC ID: C3K1997		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device		Page 369 of 422



Date: 7.MAY.2022 16:53:16

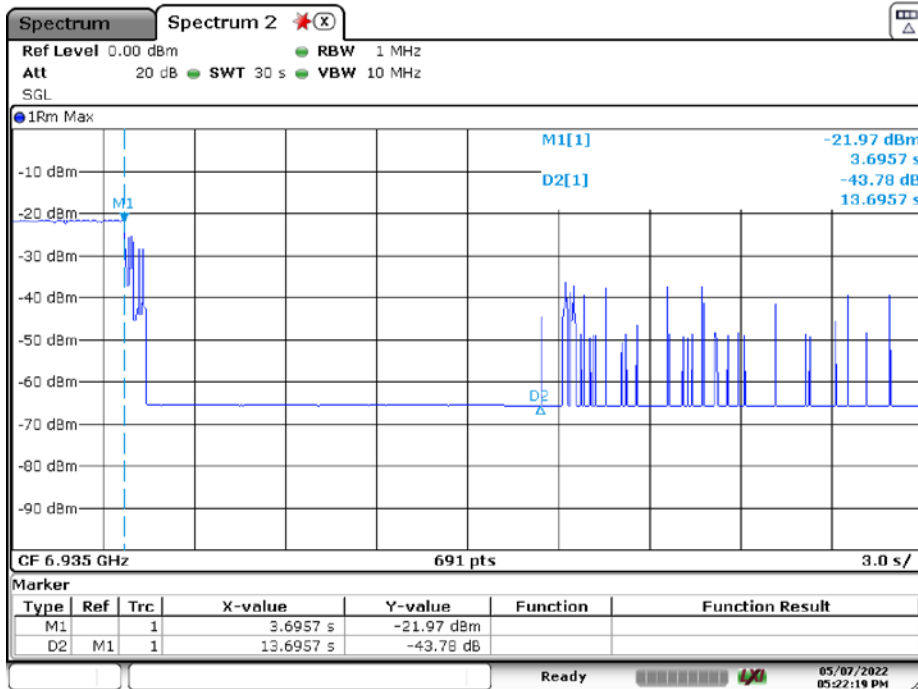
Plot 7-651. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 – Mid



Date: 7.MAY.2022 17:00:08

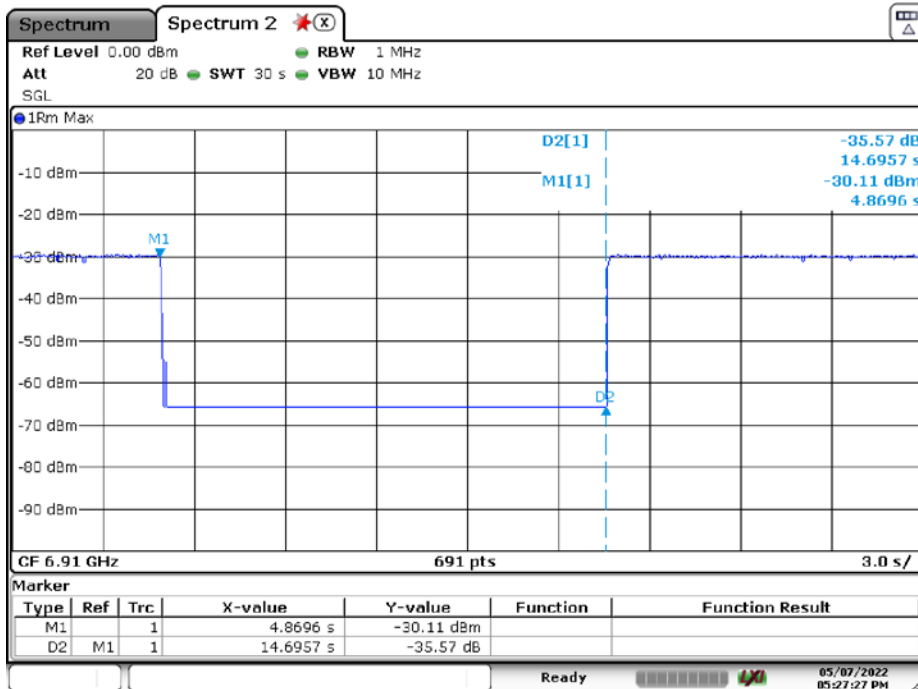
Plot 7-652. Contention Based Protocol Timing Plot – UNII 7 – 160MHz Ch175 - High

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
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Date: 7.MAY.2022 17:22:19

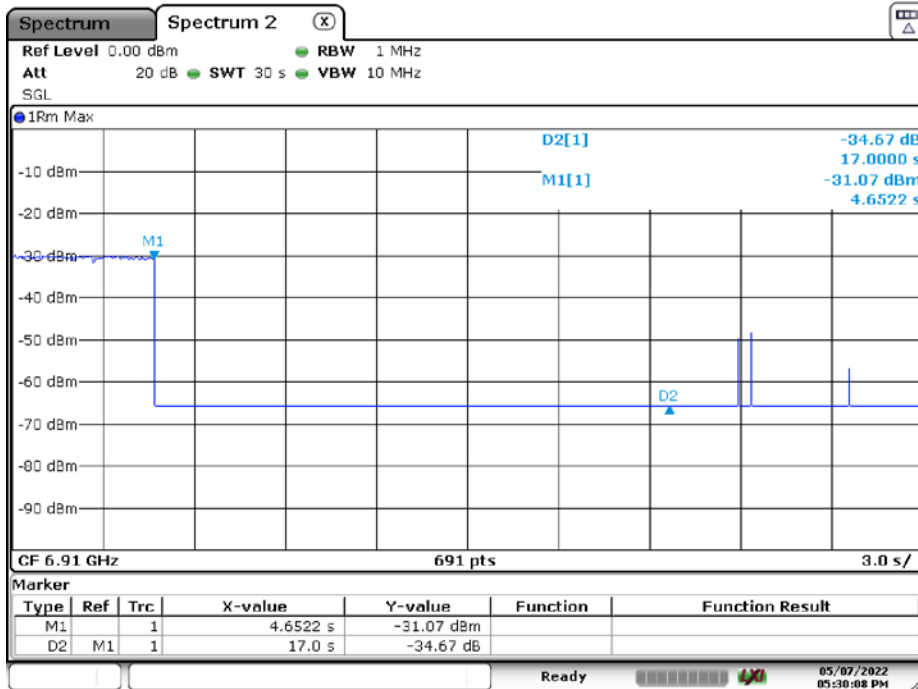
Plot 7-653. Contention Based Protocol Timing Plot – UNII 8 – 20MHz Ch197



Date: 7.MAY.2022 17:27:27

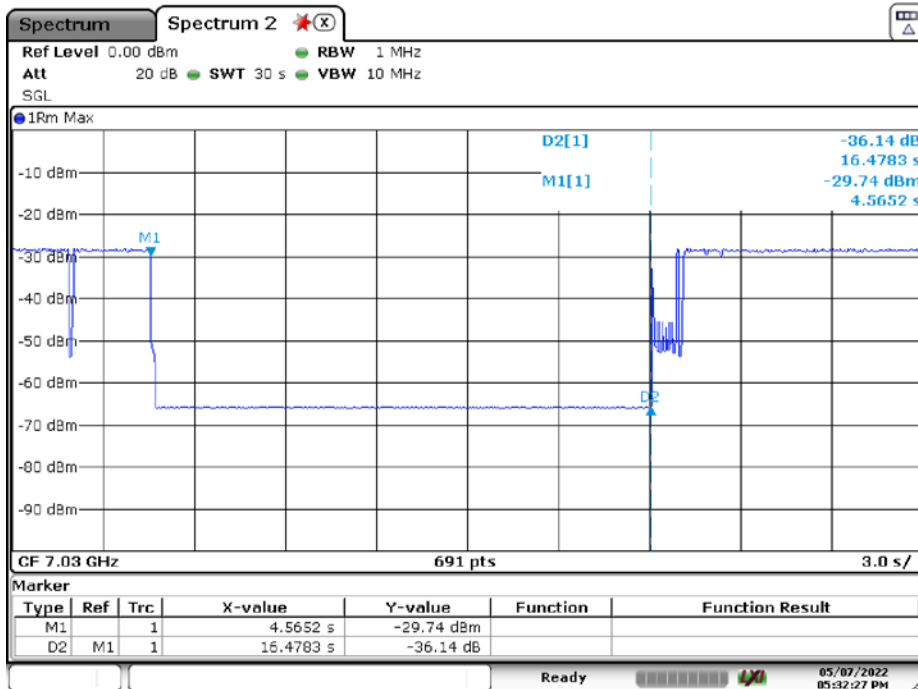
Plot 7-654. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Low

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
FCC ID: C3K1997	Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device
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Date: 7.MAY.2022 17:30:08

Plot 7-655. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 – Mid



Date: 7.MAY.2022 17:32:27

Plot 7-656. Contention Based Protocol Timing Plot – UNII 8 – 160MHz Ch207 - High

MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
FCC ID: C3K1997	Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device
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7.7 Radiated Spurious Emission Measurements – Above 1GHz

§15.205, §15.209, §15.407(b)(6); RSS-Gen [8.9], RSS-248 (4.7.2)

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. Emissions found in a restricted band are subject to the limits of 15.209 as shown in the table below.

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

Table 7-21. 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

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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.

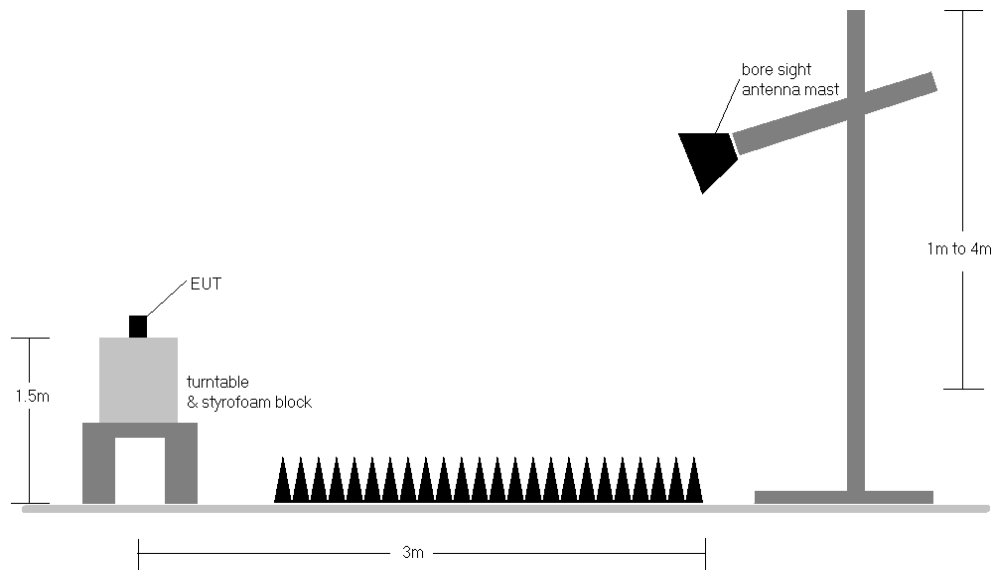


Figure 7-6. Test Instrument & Measurement Setup

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Test Notes

1. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-13. 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 μ 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 μ V/m.
2. 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 μ V/m]. If a peak measurement passes the average limit it was determined no further investigation is necessary.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. 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.
6. 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.
7. 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.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. 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

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

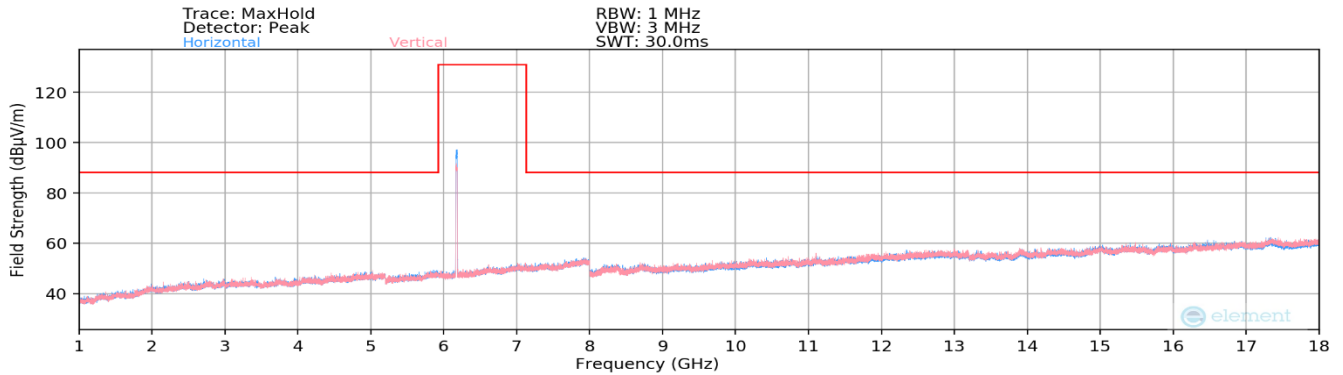
Radiated Band Edge Measurement Offset

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

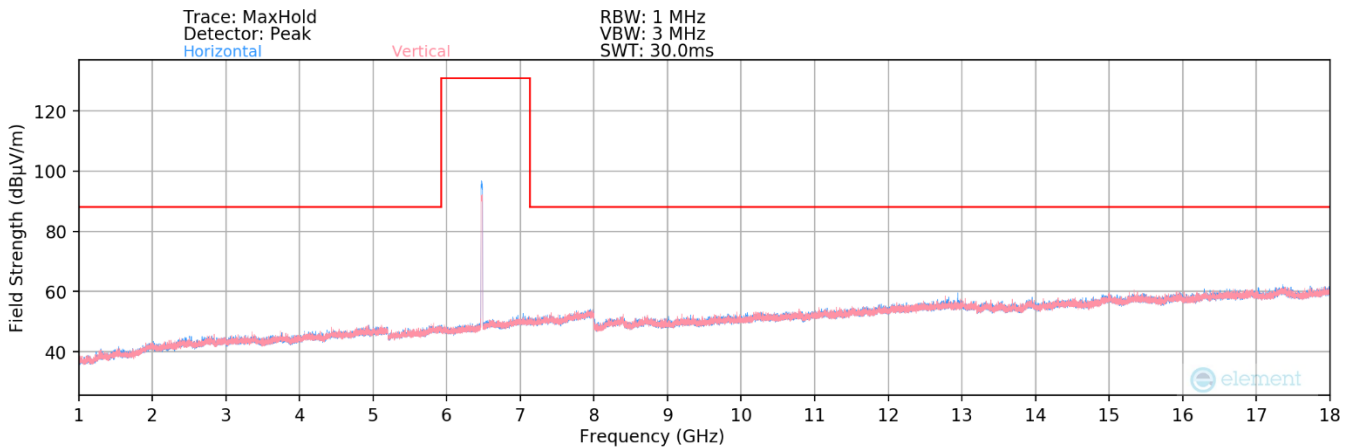
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.1 SISO ANT1 Radiated Spurious Emission Measurements

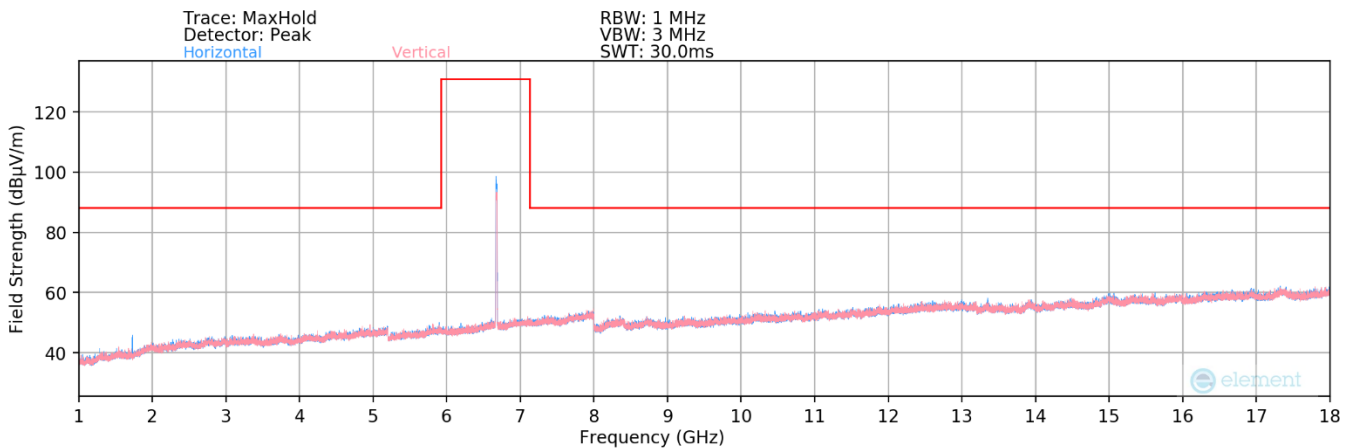
§15.407(b) §15.205 & §15.209



Plot 7-657. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 5 – 20MHz – Ch.45)

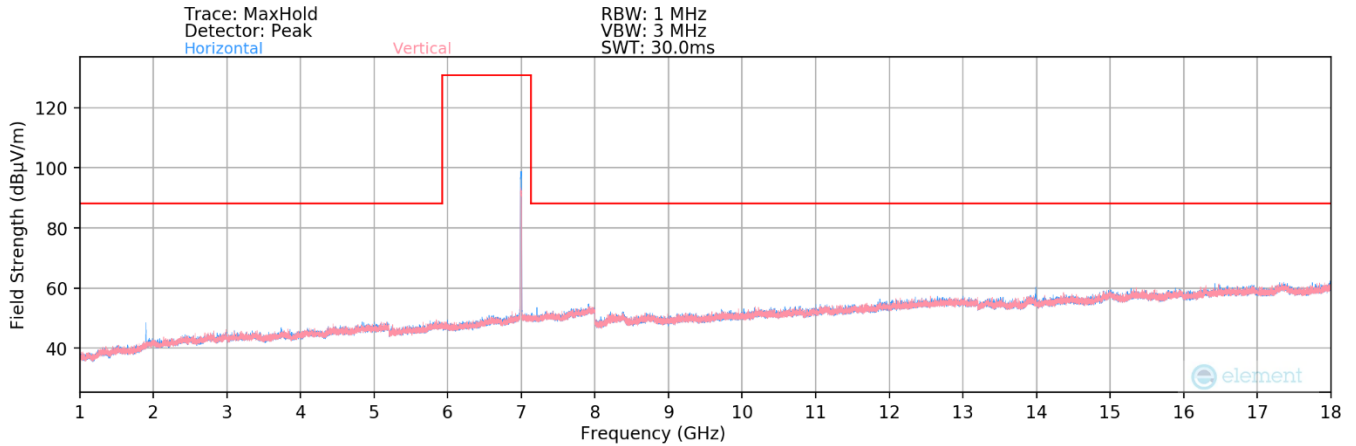


Plot 7-658. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 6 – 20MHz – Ch.105)

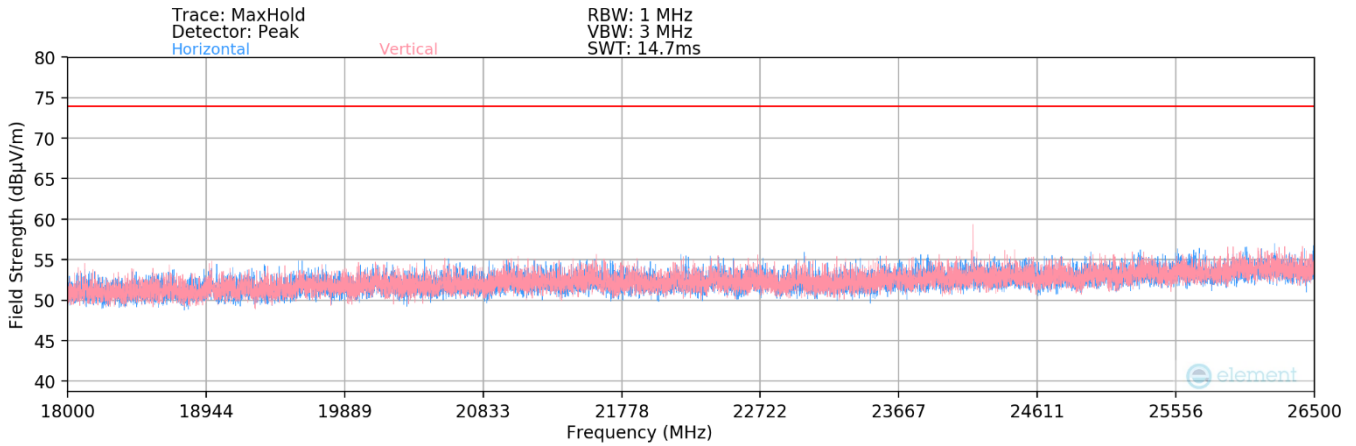


Plot 7-659. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 7 – 20MHz – Ch.149)

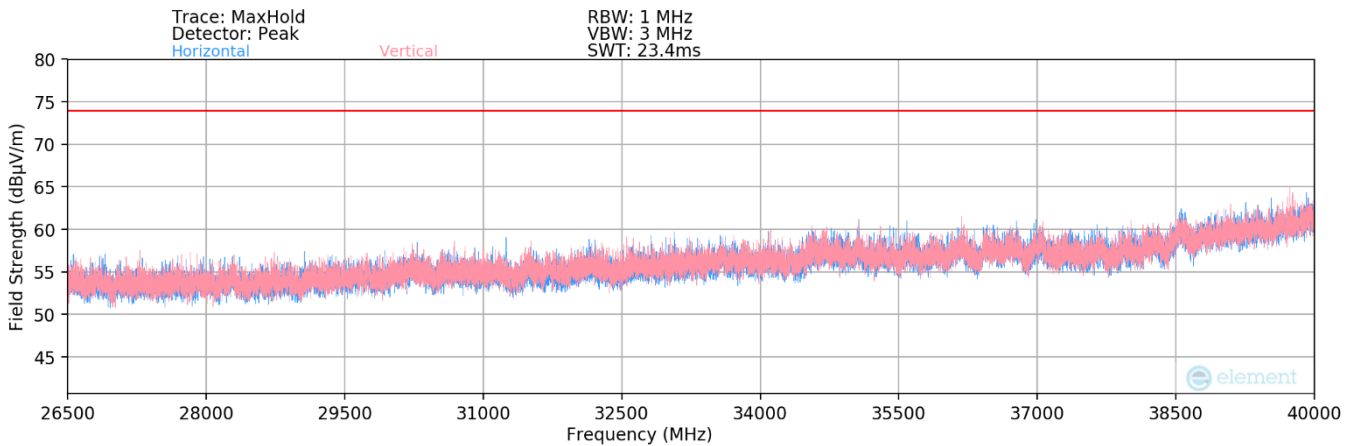
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-660. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – UNII Band 8 – 20MHz – Ch.209)



Plot 7-661. Radiated Spurious Plot above 18GHz - 26.5GHz – CH 117 - ANT1 (802.11a)



Plot 7-662. Radiated Spurious Plot 26.5GHz - 40GHz – CH 117 - ANT1 (802.11a)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2

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]
11870.00	Average	H	-	-	-84.43	22.83	0.00	45.40	53.98	-8.58
11870.00	Peak	H	-	-	-74.34	22.83	0.00	55.49	73.98	-18.49
* 17805.00	Average	H	-	-	-87.59	31.30	0.00	50.71	53.98	-3.27
* 17805.00	Peak	H	-	-	-75.81	31.30	0.00	62.49	73.98	-11.49
* 23740.00	Average	H	-	-	-65.62	3.94	-9.54	35.78	53.98	-18.20
* 23740.00	Peak	H	-	-	-56.13	3.94	-9.54	45.28	73.98	-28.70
29675.00	Peak	H	-	-	-56.15	6.30	-9.54	47.60	68.20	-20.60

Table 7-22. Radiated Measurements SISO ANT1 (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-84.82	23.60	0.00	45.78	53.98	-8.20
12350.00	Peak	H	-	-	-74.34	23.60	0.00	56.26	73.98	-17.72
* 18525.00	Average	H	-	-	-65.90	1.93	-9.54	33.49	53.98	-20.49
* 18525.00	Peak	H	-	-	-55.59	1.93	-9.54	43.80	73.98	-30.18
* 24700.00	Peak	H	-	-	-56.24	4.39	-9.54	45.60	68.20	-22.60
30875.00	Peak	H	-	-	-55.50	6.89	-9.54	48.85	68.20	-19.35

Table 7-23. Radiated Measurements SISO ANT1 (UNII Band 5 – Mid Channel – 20MHz)

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Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	H	-	-	-75.06	24.35	0.00	56.29	68.20	-11.91
* 19245.00	Average	H	-	-	-65.83	2.30	-9.54	33.92	53.98	-20.06
* 19245.00	Peak	H	-	-	-56.39	2.30	-9.54	43.37	73.98	-30.61
* 25660.00	Peak	H	-	-	-55.84	4.61	-9.54	46.23	68.20	-21.97
32075.00	Peak	H	-	-	-54.63	7.18	-9.54	50.01	68.20	-18.19

Table 7-24. Radiated Measurements SISO ANT1 (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
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	H	-	-	-74.45	24.18	0.00	56.73	68.20	-11.47
* 19305.00	Average	H	-	-	-65.53	2.61	-9.54	34.54	53.98	-19.44
* 19305.00	Peak	H	-	-	-55.85	2.61	-9.54	44.21	73.98	-29.76
* 25740.00	Peak	H	-	-	-56.11	4.71	-9.54	46.06	68.20	-22.14
32175.00	Peak	H	-	-	-55.91	7.21	-9.54	48.76	68.20	-19.44

Table 7-25. Radiated Measurements SISO ANT1 (UNII Band 6 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 379 of 422



Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-74.42	25.29	0.00	57.87	68.20	-10.33
* 19425.00	Average	H	-	-	-65.67	2.67	-9.54	34.46	53.98	-19.52
* 19425.00	Peak	H	-	-	-55.83	2.67	-9.54	44.29	73.98	-29.69
* 25900.00	Peak	H	-	-	-55.74	4.77	-9.54	46.49	68.20	-21.71
32375.00	Peak	H	-	-	-56.91	6.96	-9.54	47.51	68.20	-20.69

Table 7-26. Radiated Measurements SISO ANT1 (UNII Band 6 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-74.23	24.93	0.00	57.70	68.20	-10.50
* 19545.00	Average	H	-	-	-65.59	2.63	-9.54	34.50	53.98	-19.48
* 19545.00	Peak	H	-	-	-55.24	2.63	-9.54	44.85	73.98	-29.13
* 26060.00	Peak	H	-	-	-56.70	4.83	-9.54	45.59	68.20	-22.61
32575.00	Peak	H	-	-	-55.74	6.80	-9.54	48.51	68.20	-19.69

Table 7-27. Radiated Measurements SISO ANT1 (UNII Band 6 – High Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 380 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-73.85	24.74	0.00	57.89	68.20	-10.31
* 19605.00	Average	H	-	-	-65.50	2.75	-9.54	34.71	53.98	-19.27
19605.00	Peak	H	-	-	-56.15	2.75	-9.54	44.06	73.98	-29.92
26140.00	Peak	H	-	-	-55.65	5.14	-9.54	46.95	68.20	-21.25
32675.00	Peak	H	-	-	-55.55	7.15	-9.54	49.06	68.20	-19.14

Table 7-28. Radiated Measurements SISO ANT1 (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-84.72	25.62	0.00	47.90	53.98	-6.08
* 13390.00	Peak	H	-	-	-73.27	25.62	0.00	59.35	73.98	-14.63
20085.00	Average	H	-	-	-65.38	3.06	-9.54	35.13	53.98	-18.85
* 20085.00	Peak	H	-	-	-55.70	3.06	-9.54	44.82	73.98	-29.16
* 26780.00	Peak	H	-	-	-56.37	5.33	-9.54	46.42	68.20	-21.78
33475.00	Peak	H	-	-	-54.61	7.51	-9.54	50.36	68.20	-17.84

Table 7-29. Radiated Measurements SISO ANT1 (UNII Band 7 – Mid Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 381 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-		26.03	0.00	59.02	68.20	-9.18
20625.00	Average	H	-	-	-65.43	3.32	-9.54	35.35	53.98	-18.63
* 20625.00	Peak	H	-	-	-56.71	3.32	-9.54	44.07	73.98	-29.91
* 27500.00	Peak	H	-	-	-55.34	4.97	-9.54	47.09	68.20	-21.11
34375.00	Peak	H	-	-	-55.71	7.82	-9.54	49.58	68.20	-18.62

Table 7-30. Radiated Measurements SISO ANT1 (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-75.52	16.84	0.00	48.32	68.20	-19.88
* 20685.00	Average	H	-	-	-66.45	3.24	-9.54	34.25	53.98	-19.73
* 20685.00	Peak	H	-	-	-56.22	3.24	-9.54	44.48	73.98	-29.50
27580.00	Peak	H	-	-	-57.23	5.11	-9.54	45.34	68.20	-22.86
34475.00	Peak	H	-	-	-56.85	7.75	-9.54	48.35	68.20	-19.85

Table 7-31. Radiated Measurements SISO ANT1 (UNII Band 8 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 382 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-75.88	17.39	0.00	48.51	68.20	-19.69
* 20985.00	Average	H	-	-	-66.52	3.52	-9.54	34.46	53.98	-19.52
* 20985.00	Peak	H	-	-	-56.57	3.52	-9.54	44.41	73.98	-29.57
27980.00	Peak	H	-	-	-56.76	4.92	-9.54	45.61	68.20	-22.59
34975.00	Peak	H	-	-	-57.43	8.03	-9.54	48.06	68.20	-20.14

Table 7-32. Radiated Measurements SISO ANT1 (UNII Band 8 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233

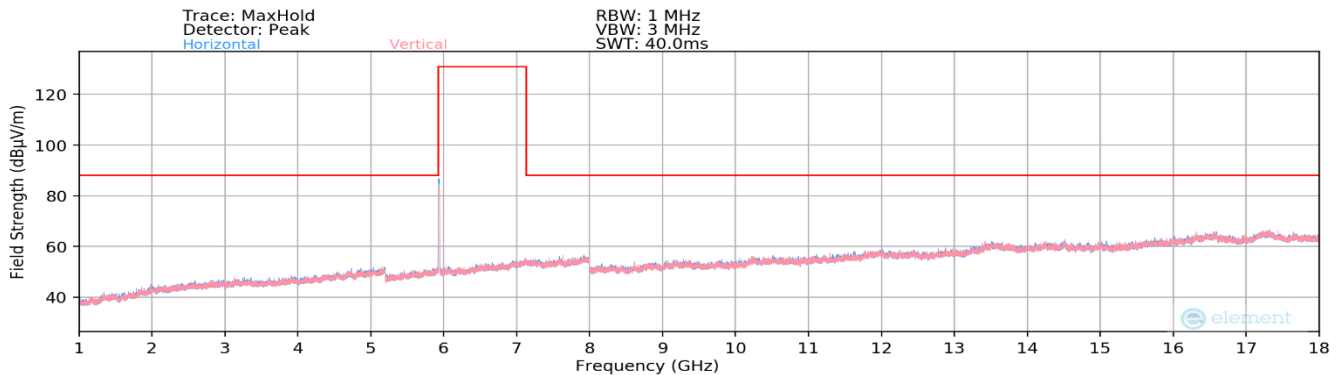
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
14230.00	Peak	H	-	-	-75.69	17.37	0.00	48.68	68.20	-19.52
* 21345.00	Average	H	-	-	-66.51	3.97	-9.54	34.92	53.98	-19.06
* 21345.00	Peak	H	-	-	-55.93	3.97	-9.54	45.49	73.98	-28.48
28460.00	Peak	H	-	-	-57.06	5.18	-9.54	45.57	68.20	-22.63
35575.00	Peak	H	-	-	-58.14	7.82	-9.54	47.14	68.20	-21.06

Table 7-33. Radiated Measurements SISO ANT1 (UNII Band 8 – High Channel – 20MHz)

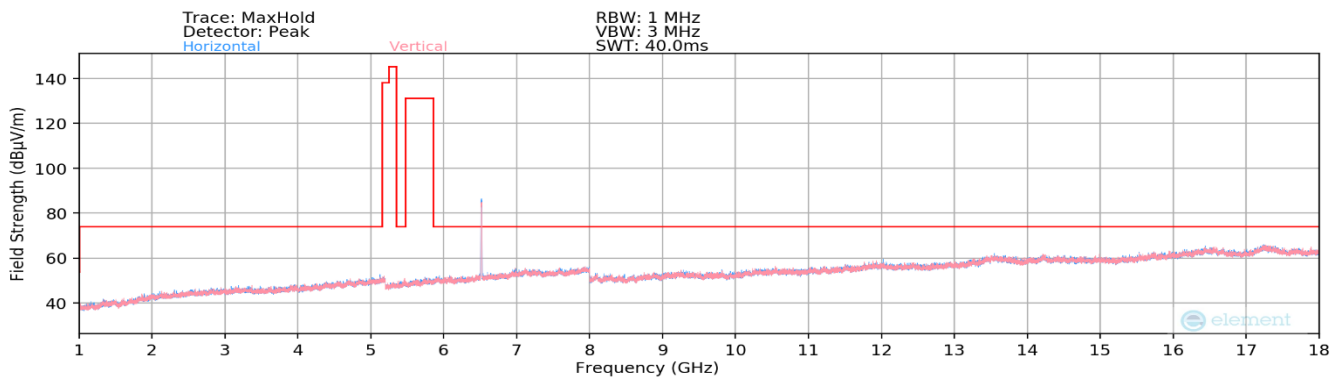
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.7.2 SISO ANT2 Radiated Spurious Emission Measurements

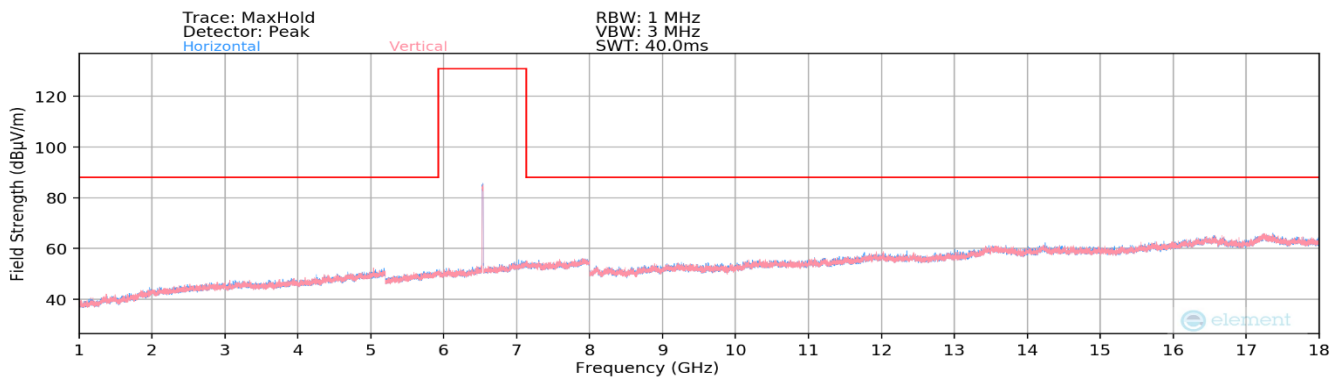
§15.407(b) §15.205 & §15.209



Plot 7-663. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – UNII Band 5 – 20MHz – Ch.45)

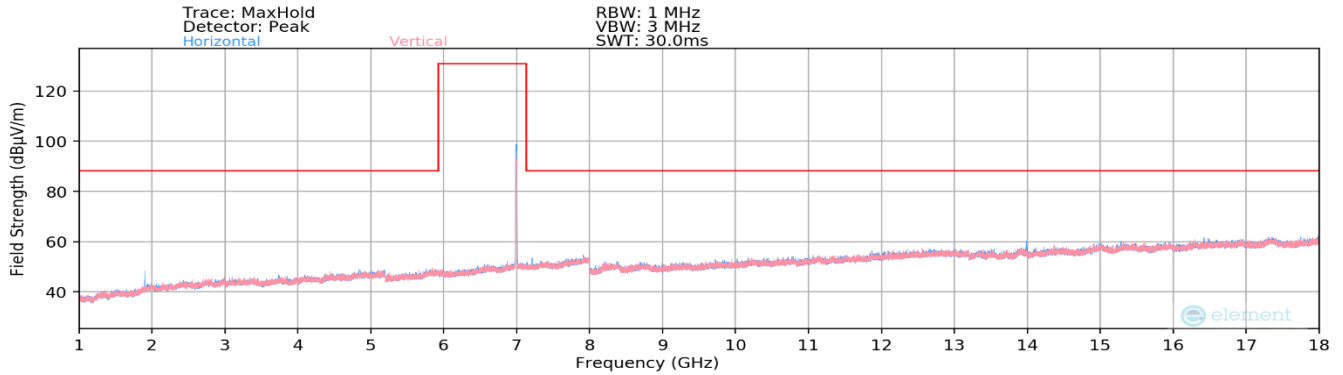


Plot 7-664. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a– UNII Band 6 – 20MHz – Ch.105)

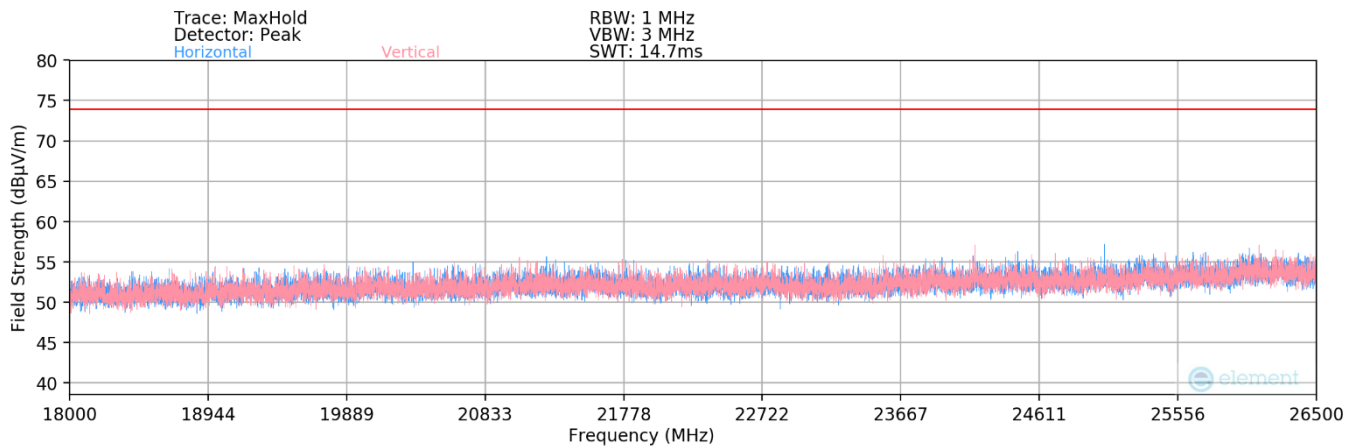


Plot 7-665. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a– UNII Band 7 – 20MHz – Ch.149)

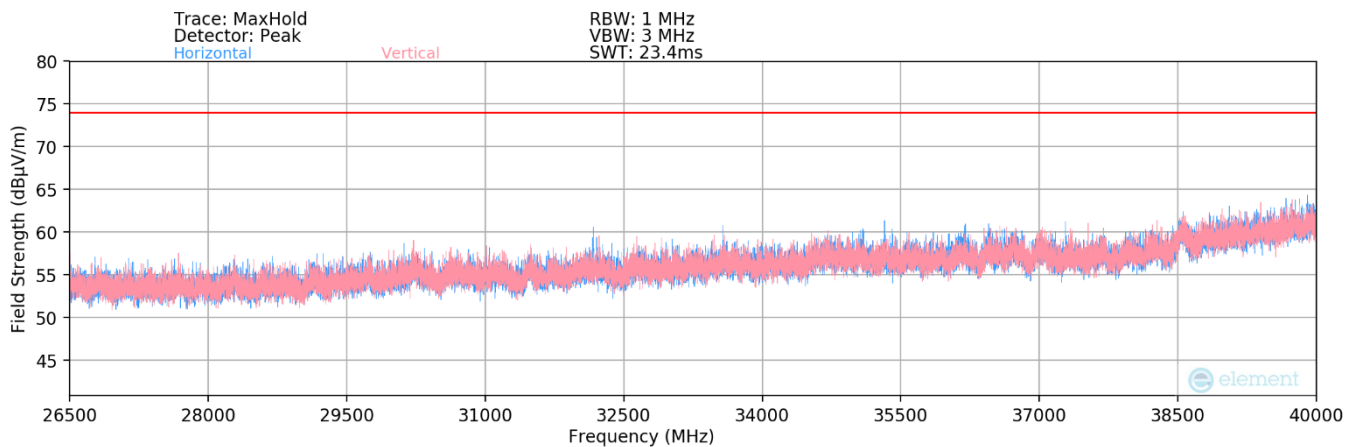
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-666. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a– UNII Band 8 – 20MHz – Ch.209)



Plot 7-667. Radiated Spurious Plot above 18GHz - 26.5GHz – CH 2 – ANT2 (802.11a)



Plot 7-668. Radiated Spurious Plot above 26.5GHz – 40GHz – CH 2 – ANT2 (802.11a)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 385 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2

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]
11870.00	Average	H	201	267	-81.50	18.55	0.00	44.05	53.98	-9.93
11870.00	Peak	H	201	267	-71.20	18.55	0.00	54.35	73.98	-19.63
* 17805.00	Average	H	-	-	-82.91	26.39	0.00	50.48	53.98	-3.50
* 17805.00	Peak	H	-	-	-73.17	26.39	0.00	60.22	73.98	-13.76
* 23740.00	Average	H	-	-	-65.56	3.94	-9.54	35.84	53.98	-18.14
* 23740.00	Peak	H	-	-	-54.89	3.94	-9.54	46.51	73.98	-27.47
29675.00	Peak	H	-	-	-54.89	6.30	-9.54	48.86	68.20	-19.34

Table 7-34. Radiated Measurements SISO ANT2 (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	159	341	-80.50	19.01	0.00	45.51	53.98	-8.47
12350.00	Peak	H	159	341	-69.99	19.01	0.00	56.02	73.98	-17.96
* 18525.00	Average	H	-	-	-65.38	1.93	-9.54	34.00	53.98	-19.98
* 18525.00	Peak	H	-	-	-55.15	1.93	-9.54	44.23	73.98	-29.75
* 24700.00	Peak	H	-	-	-56.43	4.39	-9.54	45.41	68.20	-22.79
30875.00	Peak	H	-	-	-55.22	6.89	-9.54	49.13	68.20	-19.07

Table 7-35. Radiated Measurements SISO ANT2 (UNII Band 5 – Mid Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 386 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-71.08	20.22	0.00	56.14	68.20	-12.06
* 19245.00	Average	H	-	-	-65.49	2.30	-9.54	34.26	53.98	-19.72
* 19245.00	Peak	H	-	-	-56.05	2.30	-9.54	43.70	73.98	-30.28
* 25660.00	Peak	H	-	-	-56.07	4.61	-9.54	46.00	68.20	-22.20
32075.00	Peak	H	-	-	-55.75	7.18	-9.54	48.89	68.20	-19.31

Table 7-36. Radiated Measurements SISO ANT2 (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-71.47	19.72	0.00	55.25	68.20	-12.95
* 19305.00	Average	H	-	-	-65.50	2.61	-9.54	34.56	53.98	-19.42
* 19305.00	Peak	H	-	-	-56.06	2.61	-9.54	44.00	73.98	-29.98
* 25740.00	Peak	H	-	-	-56.62	4.71	-9.54	45.55	68.20	-22.65
32175.00	Peak	H	-	-	-56.42	7.21	-9.54	48.25	68.20	-19.95

Table 7-37. Radiated Measurements SISO ANT2 (UNII Band 6 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 387 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-71.44	19.59	0.00	55.15	68.20	-13.05
* 19425.00	Average	H	-	-	-65.49	2.67	-9.54	34.63	53.98	-19.35
* 19425.00	Peak	H	-	-	-56.37	2.67	-9.54	43.75	73.98	-30.23
* 25900.00	Peak	H	-	-	-56.23	4.77	-9.54	46.00	68.20	-22.20
32375.00	Peak	H	-	-	-56.78	6.96	-9.54	47.65	68.20	-20.55

Table 7-38. Radiated Measurements SISO ANT2 (UNII Band 6 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 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	H	-	-	-71.36	19.86	0.00	55.50	68.20	-12.70
* 19545.00	Average	H	-	-	-65.55	2.63	-9.54	34.54	53.98	-19.44
* 19545.00	Peak	H	-	-	-56.21	2.63	-9.54	43.88	73.98	-30.10
* 26060.00	Peak	H	-	-	-56.31	4.83	-9.54	45.98	68.20	-22.22
32575.00	Peak	H	-	-	-55.47	6.80	-9.54	48.78	68.20	-19.42

Table 7-39. Radiated Measurements SISO ANT2 (UNII Band 6 – High Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 388 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	225	331	-70.94	20.19	0.00	56.25	68.20	-11.95
* 19605.00	Average	H	-	-	-64.33	2.75	-9.54	35.89	73.98	-38.09
19605.00	Peak	H	-	-	-56.81	2.75	-9.54	43.40	68.20	-24.80
26140.00	Peak	H	-	-	-56.46	5.14	-9.54	46.14	68.20	-22.06
32675.00	Peak	H	-	-	-55.85	7.15	-9.54	48.77	68.20	-19.43

Table 7-40. Radiated Measurements SISO ANT2 (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	143	341	-82.11	20.44	0.00	45.33	53.98	-8.65
* 13390.00	Peak	H	143	341	-71.94	20.44	0.00	55.50	73.98	-18.48
20085.00	Average	H	-	-	-65.54	3.06	-9.54	34.98	53.98	-19.00
* 20085.00	Peak	H	-	-	-56.03	3.06	-9.54	44.48	73.98	-29.50
* 26780.00	Peak	H	-	-	-56.06	5.33	-9.54	46.72	68.20	-21.48
33475.00	Peak	H	-	-	-56.16	7.51	-9.54	48.81	68.20	-19.39

Table 7-41. Radiated Measurements SISO ANT2 (UNII Band 7 – Mid Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 389 of 422

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6MBPS
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	H	121	343	-70.91	21.50	0.00	57.59	68.20	-10.61
20625.00	Average	H	-	-	-65.38	3.32	-9.54	35.40	53.98	-18.58
* 20625.00	Peak	H	-	-	-56.18	3.32	-9.54	44.60	73.98	-29.38
* 27500.00	Peak	H	-	-	-54.44	4.97	-9.54	47.98	68.20	-20.22
34375.00	Peak	H	-	-	-56.68	7.82	-9.54	48.60	68.20	-19.60

Table 7-42. Radiated Measurements SISO ANT2 (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6MBPS
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	H	133	329	-68.82	21.32	0.00	59.50	68.20	-8.70
20685.00	Average	H	-	-	-65.66	3.24	-9.54	35.03	53.98	-18.95
* 20685.00	Peak	H	-	-	-56.65	3.24	-9.54	44.05	73.98	-29.93
* 27580.00	Peak	H	-	-	-55.27	5.11	-9.54	47.30	68.20	-20.90
34475.00	Peak	H	-	-	-55.47	7.75	-9.54	49.74	68.20	-18.46

Table 7-43. Radiated Measurements SISO ANT2 (UNII Band 8 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 390 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	137	334	-68.22	20.88	0.00	59.66	68.20	-8.54
* 20985.00	Average	H	-	-	-65.81	3.52	-9.54	35.16	53.98	-18.82
20985.00	Peak	H	-	-	-55.62	3.52	-9.54	45.36	73.98	-28.62
27980.00	Peak	H	-	-	-55.18	4.92	-9.54	47.20	68.20	-21.00
34975.00	Peak	H	-	-	-55.35	8.03	-9.54	50.14	68.20	-18.06

Table 7-44. Radiated Measurements SISO ANT2 (UNII Band 8 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233

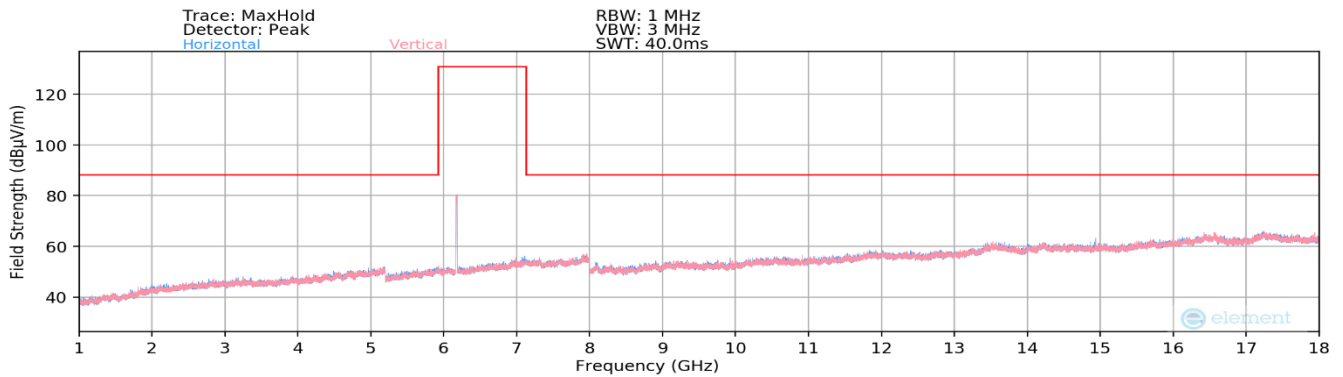
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 14230.00	Peak	H	-	-	-71.83	21.66	0.00	56.83	68.20	-11.37
* 21345.00	Average	H	-	-	-65.51	3.97	-9.54	35.92	53.98	-18.06
21345.00	Peak	H	-	-	-55.39	3.97	-9.54	46.03	73.98	-27.94
28460.00	Peak	H	-	-	-56.05	5.18	-9.54	46.58	68.20	-21.62
35575.00	Peak	H	-	-	-55.20	7.82	-9.54	50.08	68.20	-18.12

Table 7-45. Radiated Measurements SISO ANT2 (UNII Band 8 – High Channel – 20MHz)

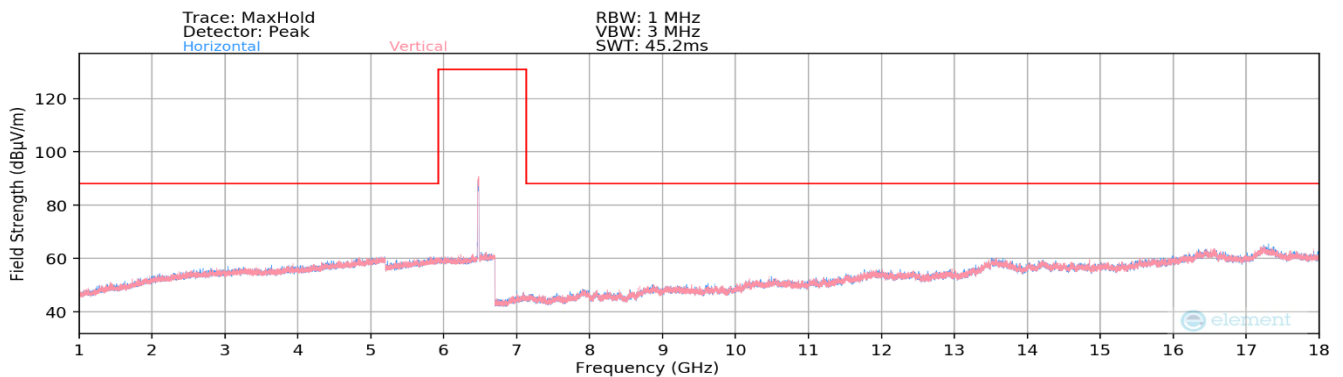
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 391 of 422

7.7.3 MIMO Radiated Spurious Emission Measurements

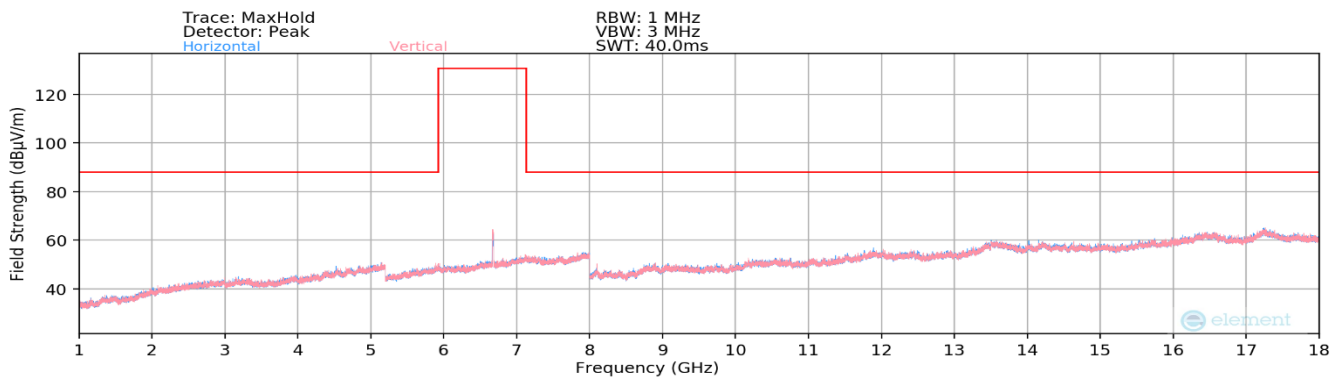
§15.407(b) §15.205 & §15.209



Plot 7-669. Radiated Spurious Plot above 1GHz MIMO (802.11a – UNII Band 5 – 20MHz – Ch.45)

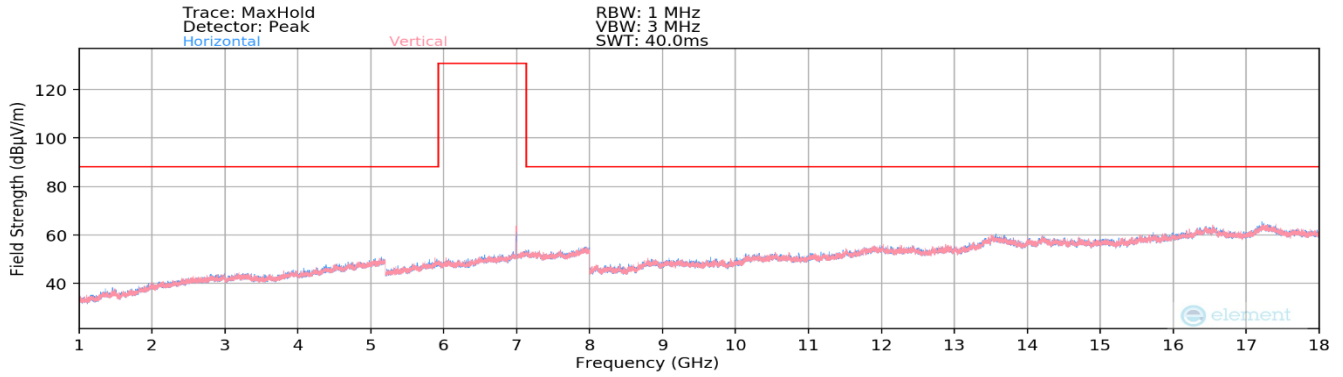


Plot 7-670. Radiated Spurious Plot above 1GHz MIMO (802.11a– UNII Band 6 – 20MHz – Ch.105)

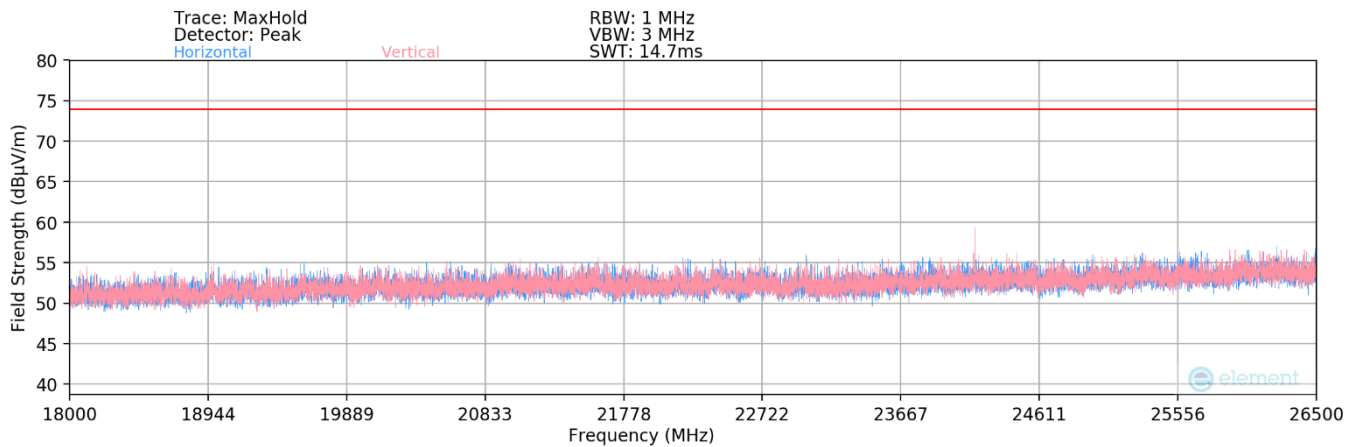


Plot 7-671. Radiated Spurious Plot above 1GHz MIMO (802.11a– UNII Band 7 – 20MHz – Ch.149)

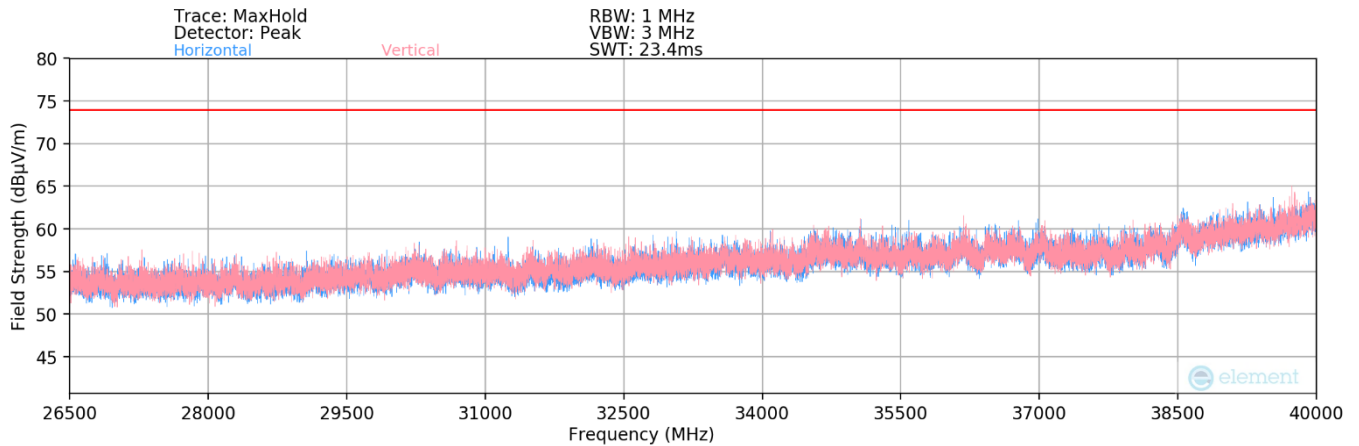
FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 392 of 422



Plot 7-672. Radiated Spurious Plot above 1GHz MIMO (802.11a- UNII Band 8 - 20MHz - Ch.209)



Plot 7-673. Radiated Spurious Plot above 18GHz - 26.5GHz - CH 117 - MIMO (802.11a)



Plot 7-674. Radiated Spurious Plot 26.5GHz - 40GHz - CH 117 - MIMO (802.11a)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 - 7/8/2022	EUT Type: Portable Computing Device	Page 393 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2

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]
* 11870.00	Average	H	-	-	-83.89	16.01	0.00	39.12	53.98	-14.86
* 11870.00	Peak	H	-	-	-74.94	16.01	0.00	48.07	73.98	-25.91
* 17805.00	Average	H	-	-	-87.47	22.89	0.00	42.42	53.98	-11.56
* 17805.00	Peak	H	-	-	-76.01	22.89	0.00	53.88	73.98	-20.10
* 23740.00	Average	H	-	-	-66.86	3.94	-9.54	34.54	53.98	-19.43
* 23740.00	Peak	H	-	-	-56.93	3.94	-9.54	44.47	73.98	-29.50
29675.00	Peak	H	-	-	-56.16	6.30	-9.54	47.60	68.20	-20.60

Table 7-46. Radiated Measurements MIMO (UNII Band 5 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-84.19	14.49	0.00	37.30	53.98	-16.68
* 12350.00	Peak	H	-	-	-75.11	14.49	0.00	46.38	73.98	-27.60
* 18525.00	Average	H	-	-	-65.76	1.93	-9.54	33.62	53.98	-20.36
* 18525.00	Peak	H	-	-	-54.88	1.93	-9.54	44.51	73.98	-29.47
24700.00	Peak	H	-	-	-56.68	4.39	-9.54	45.16	68.20	-23.04
30875.00	Peak	H	-	-	-56.11	6.89	-9.54	48.24	68.20	-19.96

Table 7-47. Radiated Measurements MIMO (UNII Band 5 – Mid Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 394 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-84.41	14.56	0.00	37.15	68.20	-31.05
* 19245.00	Average	H	-	-	-75.51	2.30	-9.54	24.25	53.98	-29.73
* 19245.00	Peak	H	-	-	-55.75	2.30	-9.54	44.01	73.98	-29.97
25660.00	Peak	H	-	-	-56.03	4.61	-9.54	46.04	68.20	-22.16
32075.00	Peak	H	-	-	-57.35	7.18	-9.54	47.29	68.20	-20.91

Table 7-48. Radiated Measurements MIMO (UNII Band 5 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-76.08	14.76	0.00	45.68	68.20	-22.52
* 19305.00	Average	H	-	-	-67.67	2.61	-9.54	32.40	53.98	-21.58
* 19305.00	Peak	H	-	-	-57.64	2.61	-9.54	42.43	73.98	-31.55
25740.00	Peak	H	-	-	-56.27	4.71	-9.54	45.90	68.20	-22.30
32175.00	Peak	H	-	-	-57.57	7.21	-9.54	47.10	68.20	-21.10

Table 7-49. Radiated Measurements MIMO (UNII Band 6 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 395 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-75.28	14.69	0.00	46.41	68.20	-21.79
* 19425.00	Average	H	-	-	-66.22	2.67	-9.54	33.91	53.98	-20.07
* 19425.00	Peak	H	-	-	-56.29	2.67	-9.54	43.84	73.98	-30.14
25900.00	Peak	H	-	-	-56.75	4.77	-9.54	45.48	68.20	-22.72
32375.00	Peak	H	-	-	-57.02	6.96	-9.54	47.40	68.20	-20.80

Table 7-50. Radiated Measurements MIMO (UNII Band 6 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-74.63	15.59	0.00	47.96	68.20	-20.24
* 19545.00	Average	H	-	-	-66.55	2.63	-9.54	33.54	53.98	-20.44
* 19545.00	Peak	H	-	-	-56.55	2.63	-9.54	43.54	73.98	-30.44
26060.00	Peak	H	-	-	-56.81	4.83	-9.54	45.48	68.20	-22.72
32575.00	Peak	H	-	-	-56.82	6.80	-9.54	47.44	68.20	-20.76

Table 7-51. Radiated Measurements MIMO (UNII Band 6 – High Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 396 of 422

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6MBPS
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	H	-	-	-75.76	16.02	0.00	47.26	68.20	-20.94
* 19605.00	Average	H	-	-	-66.05	2.75	-9.54	34.16	53.98	-19.82
* 19605.00	Peak	H	-	-	-56.00	2.75	-9.54	44.21	73.98	-29.77
26140.00	Peak	H	-	-	-55.81	5.14	-9.54	46.78	68.20	-21.42
32675.00	Peak	H	-	-	-56.63	7.15	-9.54	47.98	68.20	-20.22

Table 7-52. Radiated Measurements MIMO (UNII Band 7 – Low Channel – 20MHz)

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6MBPS
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	H	-	-	-84.58	15.48	0.00	37.90	53.98	-16.08
* 13390.00	Peak	H	-	-	-75.55	15.48	0.00	46.93	73.98	-27.05
* 20085.00	Average	H	-	-	-92.26	3.06	-9.54	8.25	53.98	-45.73
* 20085.00	Peak	H	-	-	-82.18	3.06	-9.54	18.34	73.98	-55.64
26780.00	Peak	H	-	-	-57.43	5.33	-9.54	45.35	68.20	-22.85
33475.00	Peak	H	-	-	-57.07	7.51	-9.54	47.90	68.20	-20.30

Table 7-53. Radiated Measurements MIMO (UNII Band 7 – Mid Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 397 of 422

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-74.69	17.13	0.00	49.44	68.20	-18.76
* 20625.00	Average	H	-	-	-66.43	3.32	-9.54	34.35	53.98	-19.63
* 20625.00	Peak	H	-	-	-55.67	3.32	-9.54	45.11	73.98	-28.87
27500.00	Peak	H	-	-	-56.21	4.97	-9.54	46.21	68.20	-21.99
34375.00	Peak	H	-	-	-57.65	7.82	-9.54	47.63	68.20	-20.57

Table 7-54. Radiated Measurements MIMO (UNII Band 7 – High Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-75.52	16.84	0.00	48.32	68.20	-19.88
* 20685.00	Average	H	-	-	-66.45	3.24	-9.54	34.25	53.98	-19.73
* 20685.00	Peak	H	-	-	-56.22	3.24	-9.54	44.48	73.98	-29.50
27580.00	Peak	H	-	-	-57.23	5.11	-9.54	45.34	68.20	-22.86
34475.00	Peak	H	-	-	-56.85	7.75	-9.54	48.35	68.20	-19.85

Table 7-55. Radiated Measurements MIMO (UNII Band 8 – Low Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-75.88	17.39	0.00	48.51	68.20	-19.69
* 20985.00	Average	H	-	-	-66.52	3.52	-9.54	34.46	53.98	-19.52
* 20985.00	Peak	H	-	-	-56.57	3.52	-9.54	44.41	73.98	-29.57
27980.00	Peak	H	-	-	-56.76	4.92	-9.54	45.61	68.20	-22.59
34975.00	Peak	H	-	-	-57.43	8.03	-9.54	48.06	68.20	-20.14

Table 7-56. Radiated Measurements MIMO (UNII Band 8 – Mid Channel – 20MHz)

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6MBPS
 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	H	-	-	-75.69	17.37	0.00	48.68	68.20	-19.52
* 21345.00	Average	H	-	-	-66.51	3.97	-9.54	34.92	53.98	-19.06
* 21345.00	Peak	H	-	-	-55.93	3.97	-9.54	45.49	73.98	-28.48
28460.00	Peak	H	-	-	-57.06	5.18	-9.54	45.57	68.20	-22.63
35575.00	Peak	H	-	-	-58.14	7.82	-9.54	47.14	68.20	-21.06

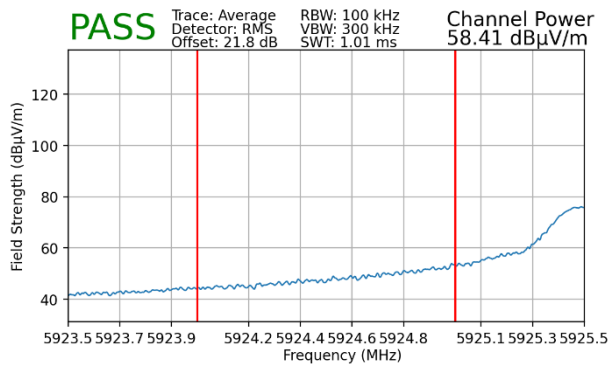
Table 7-57. Radiated Measurements MIMO (UNII Band 8 – High Channel – 20MHz)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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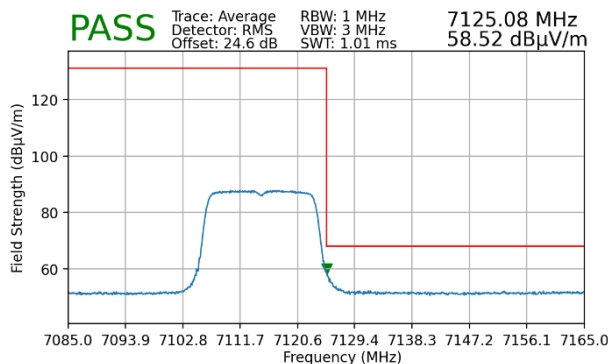
7.7.4 SISO ANT1 Radiated Band Edge Measurements (20MHz BW)
§15.407(b)(6) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 7-675. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233



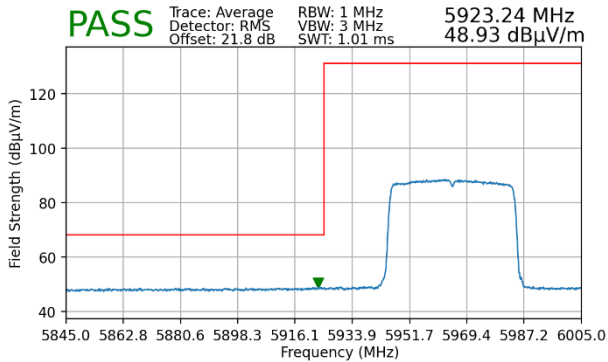
Plot 7-676. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 400 of 422



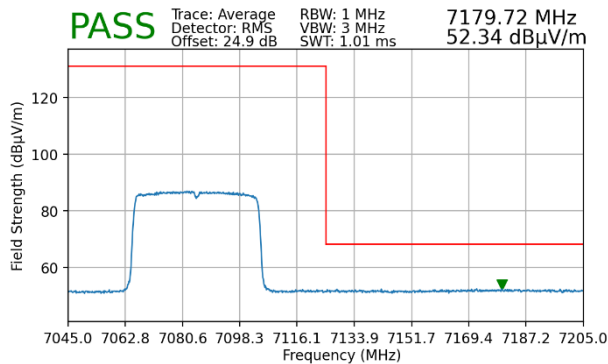
7.7.5 SISO ANT1 Radiated Band Edge Measurements (40MHz BW)
§15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5965MHz
 Channel: 3



Plot 7-677. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



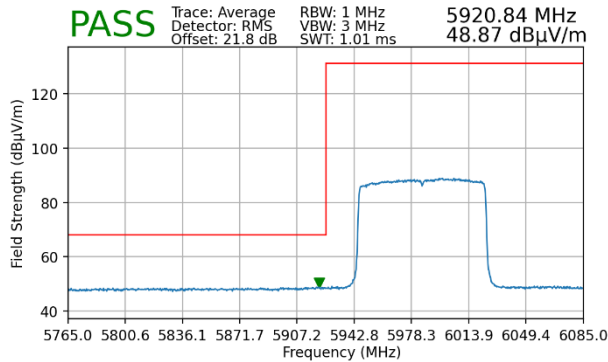
Plot 7-678. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 401 of 422



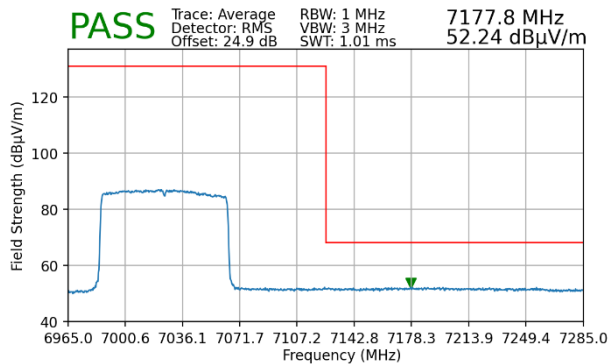
7.7.6 SISO ANT1 Radiated Band Edge Measurements (80MHz BW)
§15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5985MHz
 Channel: 7



Plot 7-679. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



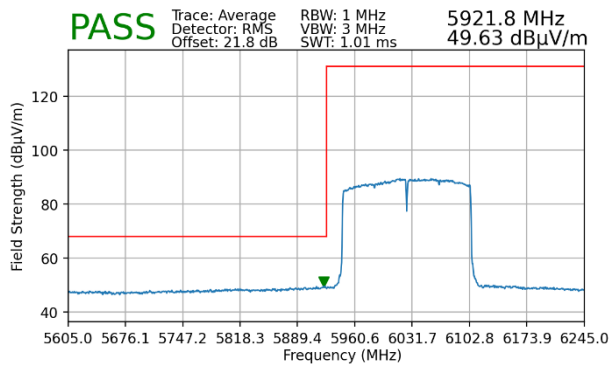
Plot 7-680. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 402 of 422



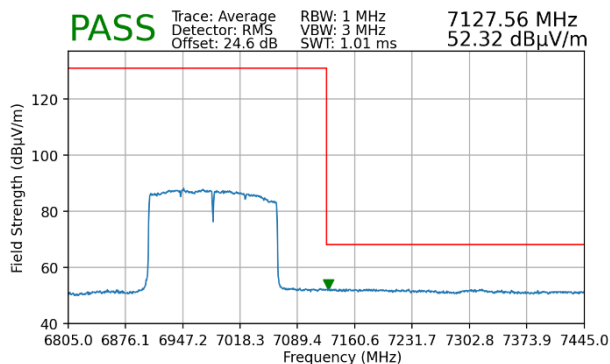
7.7.7 SISO ANT1 Radiated Band Edge Measurements (160MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 6025MHz
 Channel: 15



Plot 7-681. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



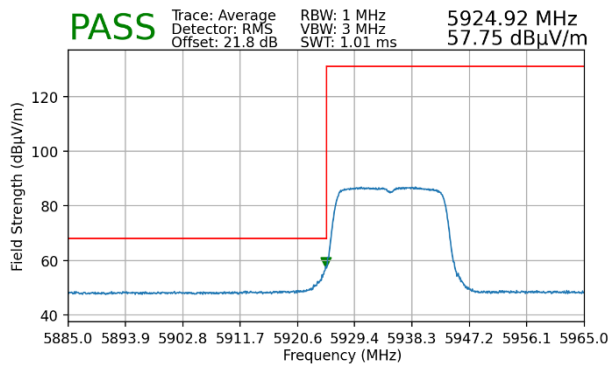
Plot 7-682. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 403 of 422



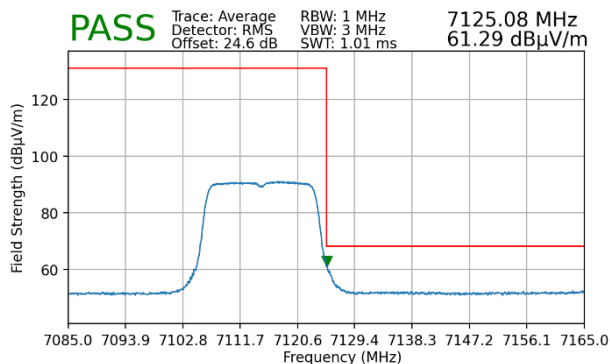
7.7.8 SISO ANT2 Radiated Band Edge Measurements (20MHz BW) §15.407(b)(6) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 7-683. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233



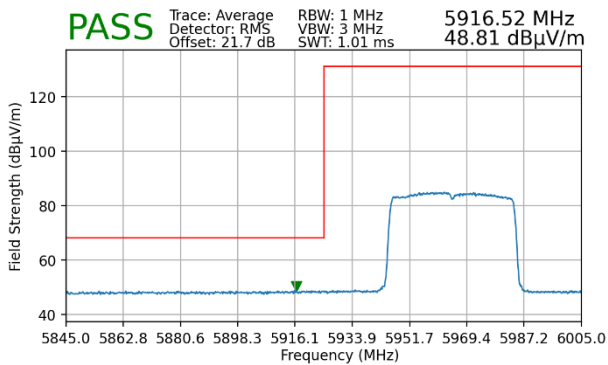
Plot 7-684. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 404 of 422



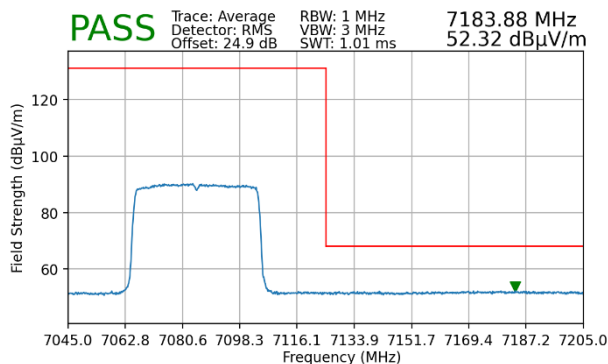
7.7.9 SISO ANT2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5965MHz
 Channel: 3



Plot 7-685. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



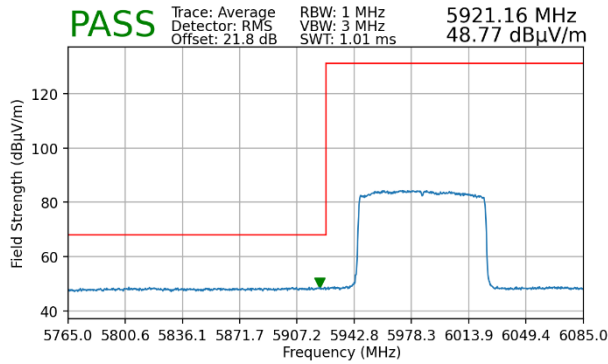
Plot 7-686. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 405 of 422



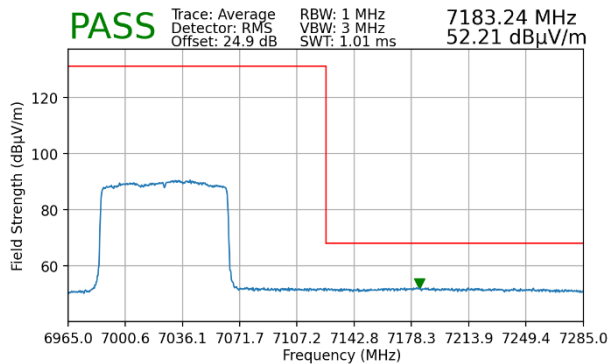
7.7.10 SISO ANT2 Radiated Band Edge Measurements (80MHz BW)
§15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5985MHz
 Channel: 7



Plot 7-687. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



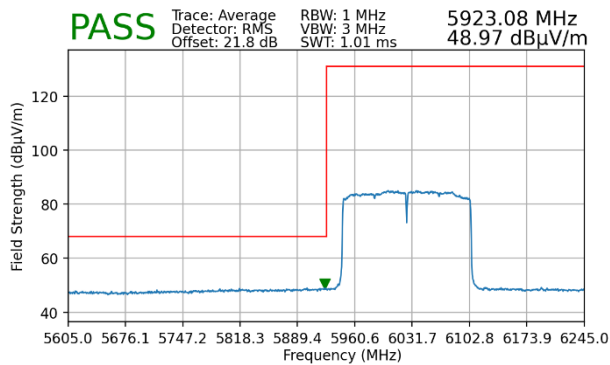
Plot 7-688. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 406 of 422



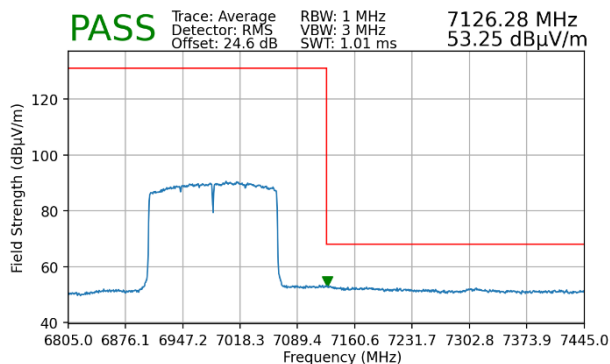
7.7.11 SISO ANT2 Radiated Band Edge Measurements (160MHz BW)
§15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 6025MHz
 Channel: 15



Plot 7-689. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



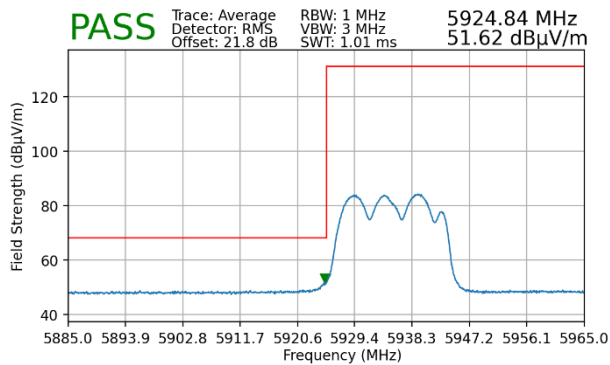
Plot 7-690. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 407 of 422



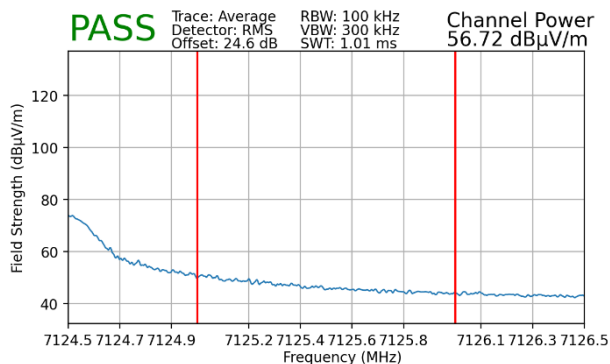
7.7.12 MIMO Radiated Band Edge Measurements (20MHz BW)
§15.407(b)(6) §15.205 §15.209

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5935MHz
 Channel: 2



Plot 7-691. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7115MHz
 Channel: 233



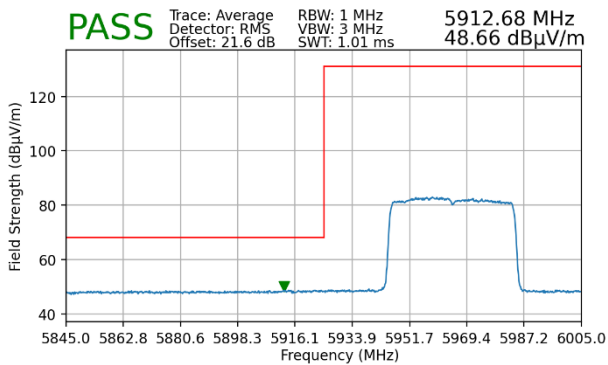
Plot 7-692. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 408 of 422



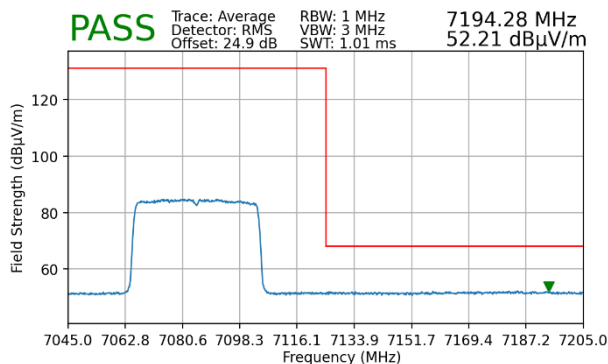
7.7.13 MIMO Radiated Band Edge Measurements (40MHz BW)
§15.407(b.5) §15.205 §15.209

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 5965MHz
 Channel: 3



Plot 7-693. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: 6MBPS
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



Plot 7-694. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8)

FCC ID: C3K1997	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2204040049-17-R1.C3K	Test Dates: 3/14/2022 – 7/8/2022	EUT Type: Portable Computing Device	Page 409 of 422