

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax

MCS0

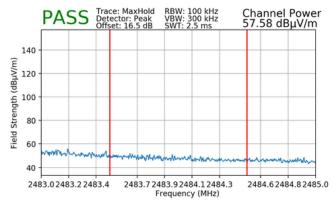
3 Meters

2472MHz

13

		PASS		Trace: Average Detector: RMS Offset: 16.5 dB		rage RMS 5 dB	RBW: 100 kHz VBW: 300 kHz SWT: 2.5 ms			Channel Power 49.07 dBµV/m			
	120 -												
Field Strength (dBµV/m)	100 -												
ength (80 -												
ield Str	60 -												
ш	40 -	~~~		····		~~~~			····		^~~~		
	248	B3.0248	33.2 24	83.4	248		33.9248 equenc			248	4.6248	34.8248	5.0

Plot 7-221. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



Plot 7-222. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

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7.7.7 SISO Antenna-2 Radiated Restricted Band Edge Measurements 40MHz §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

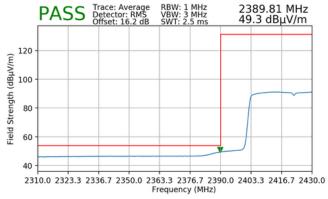
802.11ax

MCS0

3 Meters

2422MHz

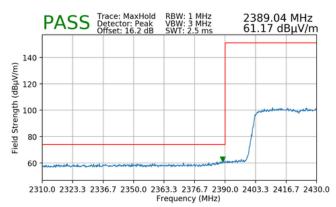
3



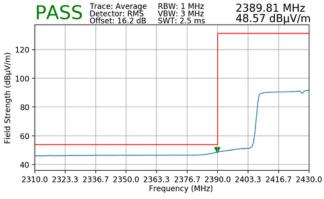
Plot 7-223. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

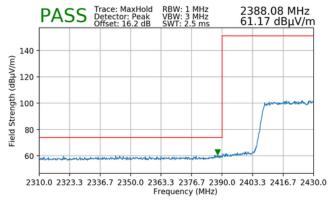
802.11ax
MCS0
3 Meters
2427MHz
4



Plot 7-224. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)



Plot 7-225. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)



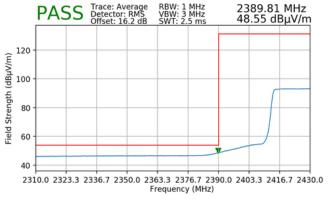
Plot 7-226. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11n

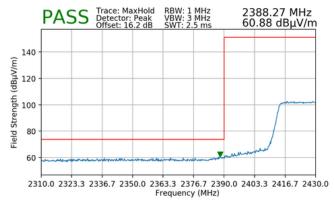
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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MCS0	
3 Meters	
2432MHz	
5	



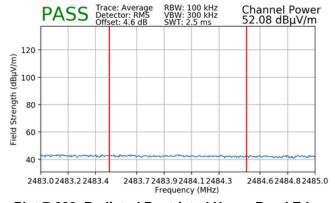
Plot 7-227. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average)



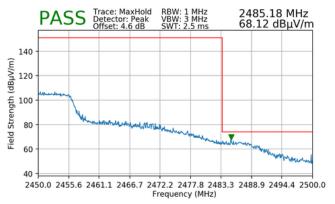
Plot 7-228. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2437MHz
6



Plot 7-229. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



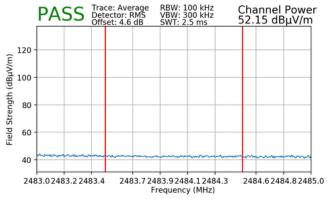
Plot 7-230. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11ax

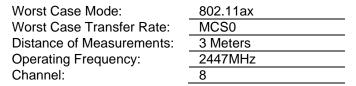
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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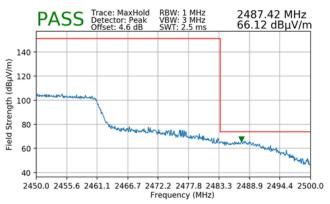


MCS0	
3 Meters	
2442MHz	
7	

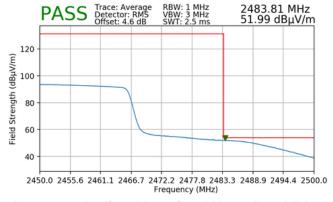


Plot 7-231. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)

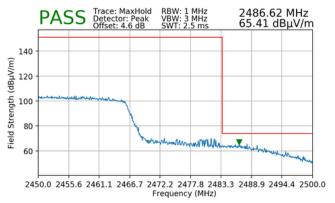




Plot 7-232. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)



Plot 7-233. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



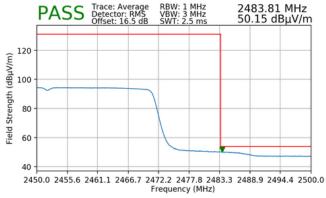
Plot 7-234. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11ax

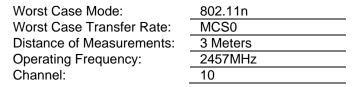
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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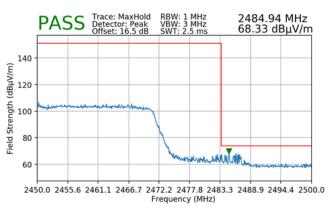


MCS0	_
3 Meters	
2452MHz	
9	

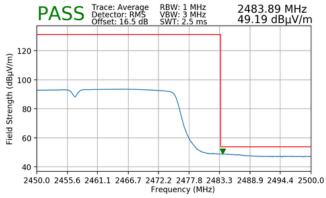


Plot 7-235. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)

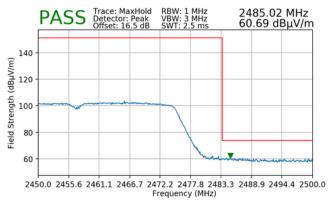




Plot 7-236. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)



Plot 7-237. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



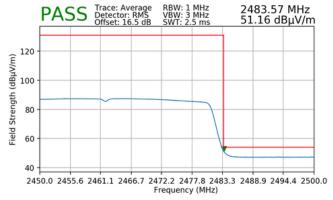
Plot 7-238. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

Worst Case Mode: 802.11ax

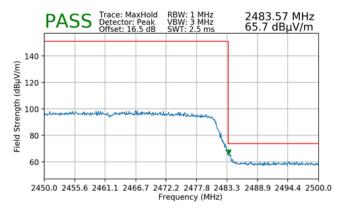
FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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MCS0	
3 Meters	
2462MHz	
11	



Plot 7-239. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average)



Plot 7-240. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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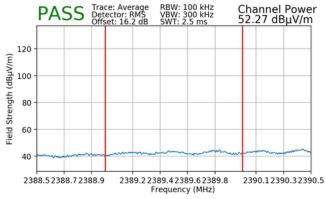


7.7.8 MIMO Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

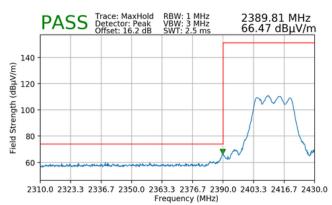
802.11g
6 Mbps
3 Meters
2412MHz



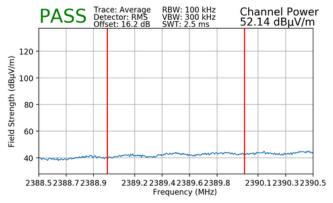
Plot 7-241. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

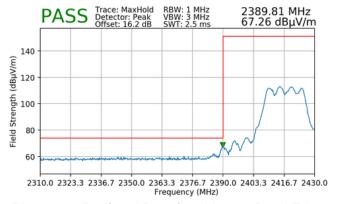
802.11g
6 Mbps
3 Meters
2417MHz
2



Plot 7-242. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)



Plot 7-243. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



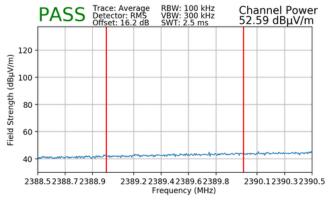
Plot 7-244. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997		MEASUREMENT REPORT (CERTIFICATON)	Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2422MHz
3



Plot 7-245. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



Plot 7-246. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

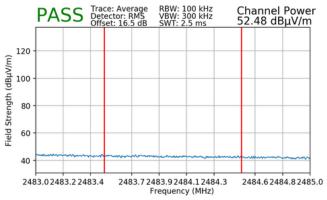
Channel:

MCS0

3 Meters

2457MHz

10



Plot 7-247. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-248. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

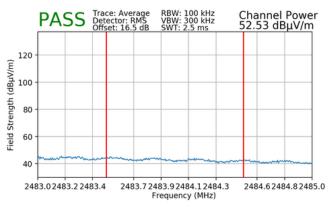
802.11n

MCS0

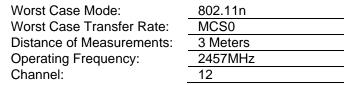
3 Meters

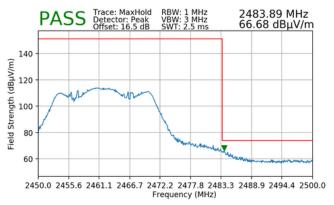
2462MHz

11

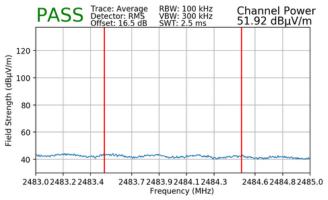


Plot 7-249. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

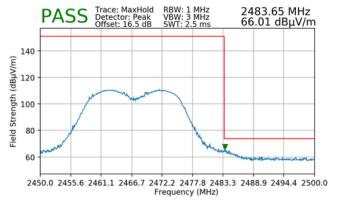




Plot 7-250. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)



Plot 7-251. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



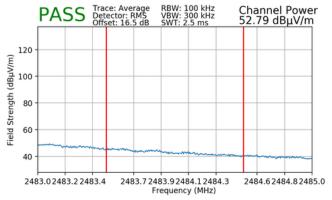
Plot 7-252. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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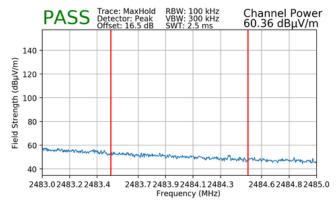


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11n
MCS0
3 Meters
2472MHz
13



Plot 7-253. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-254. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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7.7.9 MIMO Radiated Restricted Band Edge Measurements 40MHz BW §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

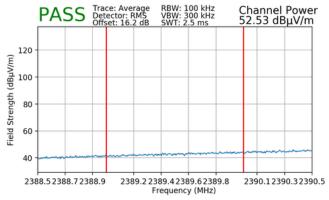
802.11ax

MCS0

3 Meters

2422MHz

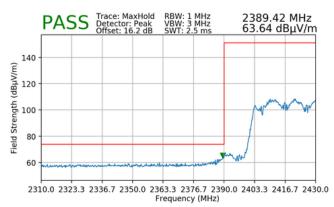
3



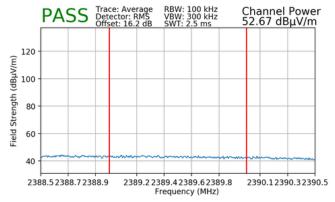
Plot 7-255. Radiated Restricted Lower Band Edge Measurement MIMO (Average)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

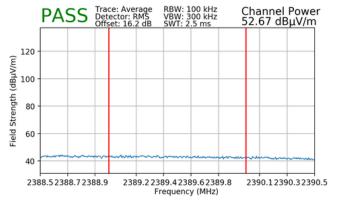
802.11ax
MCS0
3 Meters
2427MHz
4



Plot 7-256. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)



Plot 7-257. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



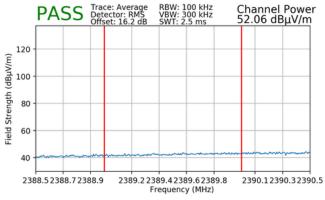
Plot 7-258. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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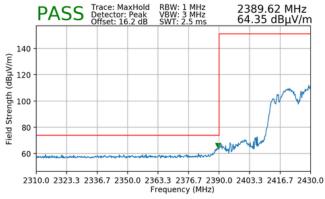


Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax
MCS0
3 Meters
2432MHz
5



Plot 7-259. Radiated Restricted Lower Band Edge Measurement MIMO (Average)



Plot 7-260. Radiated Restricted Lower Band Edge Measurement MIMO (Peak)

Worst Case Mode:

Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11ax

MCS0

3 Meters

2437MHz

6



Plot 7-261. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-262. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

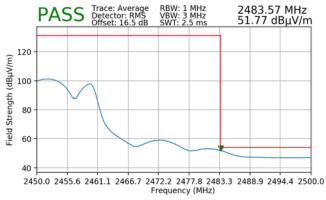
802.11n

MCS0

3 Meters

2442MHz

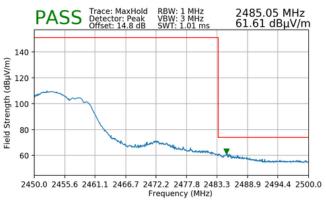
7



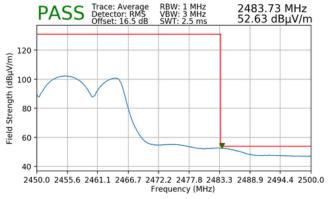
Plot 7-263. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

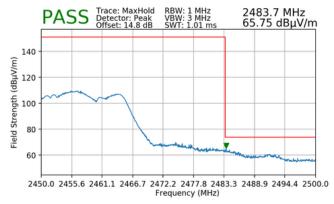
802.11n
MCS0
3 Meters
2447MHz
8



Plot 7-264. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)



Plot 7-265. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-266. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

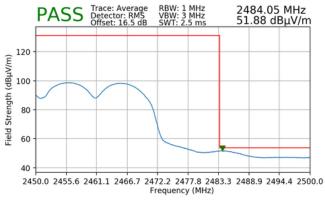
802.11n

MCS0

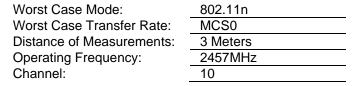
3 Meters

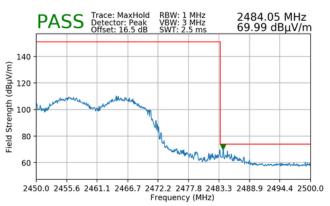
2452MHz

9

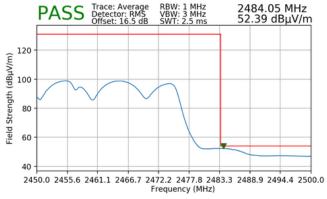


Plot 7-267. Radiated Restricted Upper Band Edge Measurement MIMO (Average)

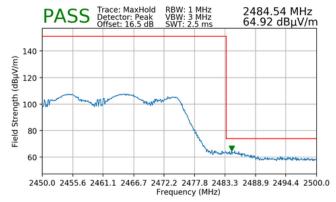




Plot 7-268. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)



Plot 7-269. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-270. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

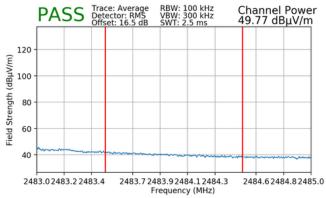
802.11n

MCS0

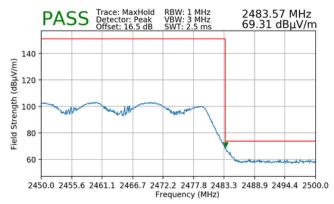
3 Meters

2462MHz

11



Plot 7-271. Radiated Restricted Upper Band Edge Measurement MIMO (Average)



Plot 7-272. Radiated Restricted Upper Band Edge Measurement MIMO (Peak)

FCC ID: C3K1997 IC: 3048A-1997	MEASUREMENT REPORT (CERTIFICATON)		Approved by: Technical Manager
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7.8 Radiated Spurious Emissions Measurements – Below 1GHz §15.209; RSS-Gen [8.9]

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 out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-27 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/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 7-27. 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.

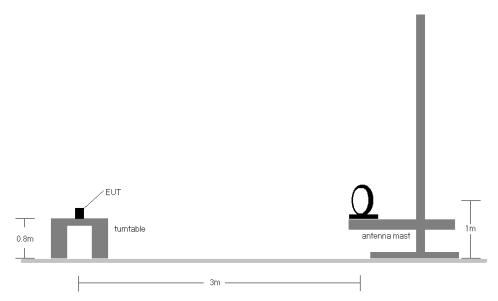


Figure 7-7. Radiated Test Setup < 30Mhz

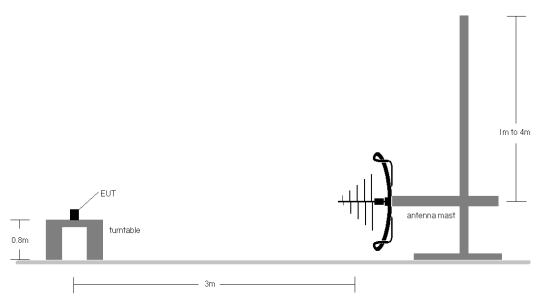


Figure 7-8. Radiated Test Setup < 1GHz

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Test Notes

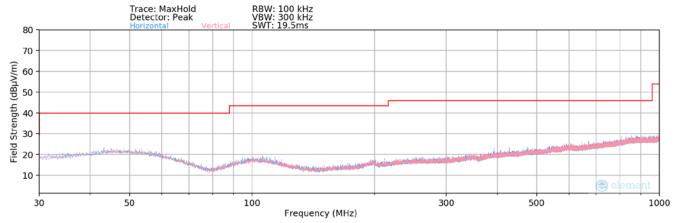
- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-27.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This 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.
- 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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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-273. Radiated Spurious Plot below 1GHz MIMO

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7.9 Line-Conducted Test Data

§15.207; RSS-Gen [8.8]

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 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
(1411 12)	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-28. Conducted Limits

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)
- 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
- 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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^{*}Decreases with the logarithm of the frequency.



Test Setup

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

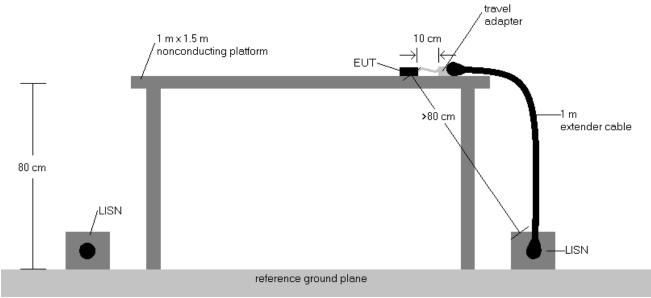


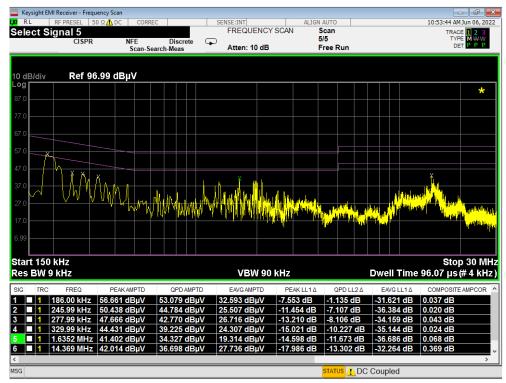
Figure 7-9. Test Instrument & Measurement Setup

Test Notes

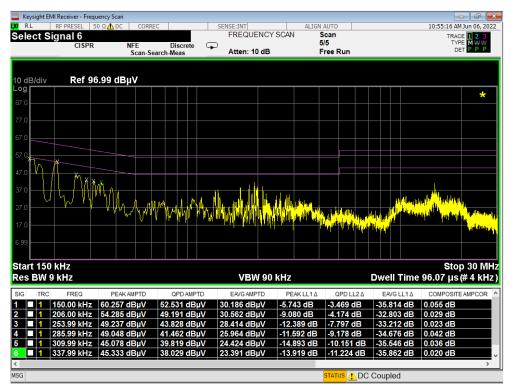
- All modes of operation were investigated and the worst-case emissions are reported using mid channel.
 The emissions found were not affected by the choice of channel used during testing.
- 2. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
- 5. Margin (dB) = QP/AV Limit (dB μ V) QP/AV Level (dB μ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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Plot 7-274. Line Conducted Plot with 802.11b (L1)



Plot 7-275. Line Conducted Plot with 802.11b (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation Portable Computing Device FCC ID: C3K1997** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and with RSS-247 of the Innovation, Science and Economic Development Canada rules.

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