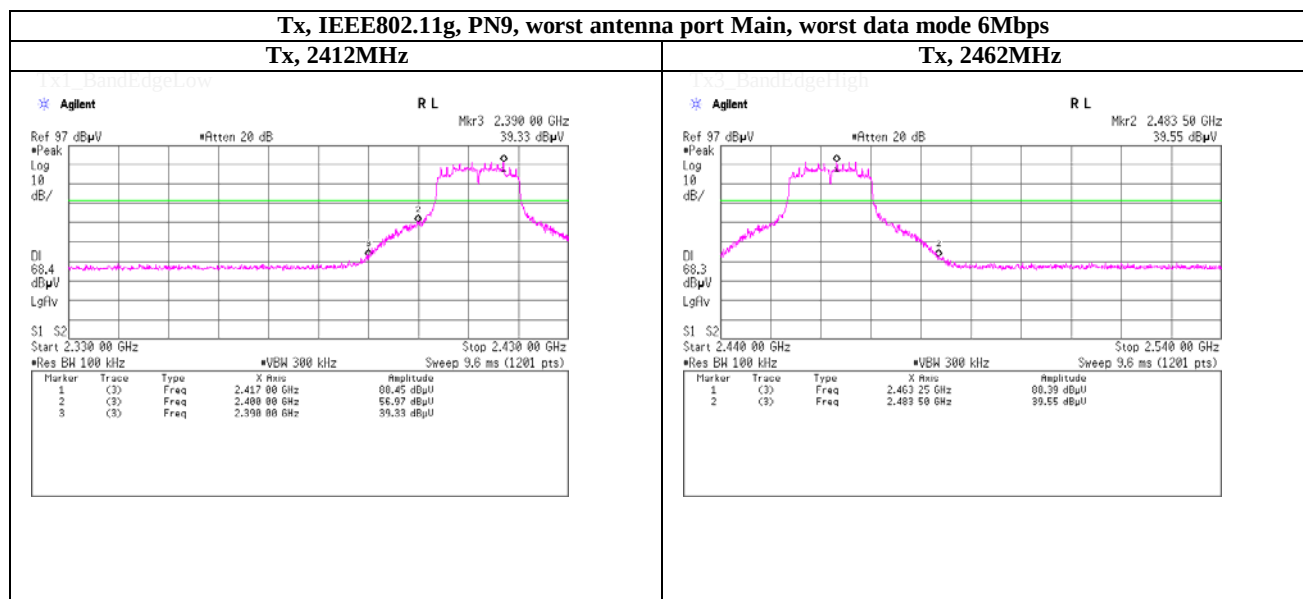
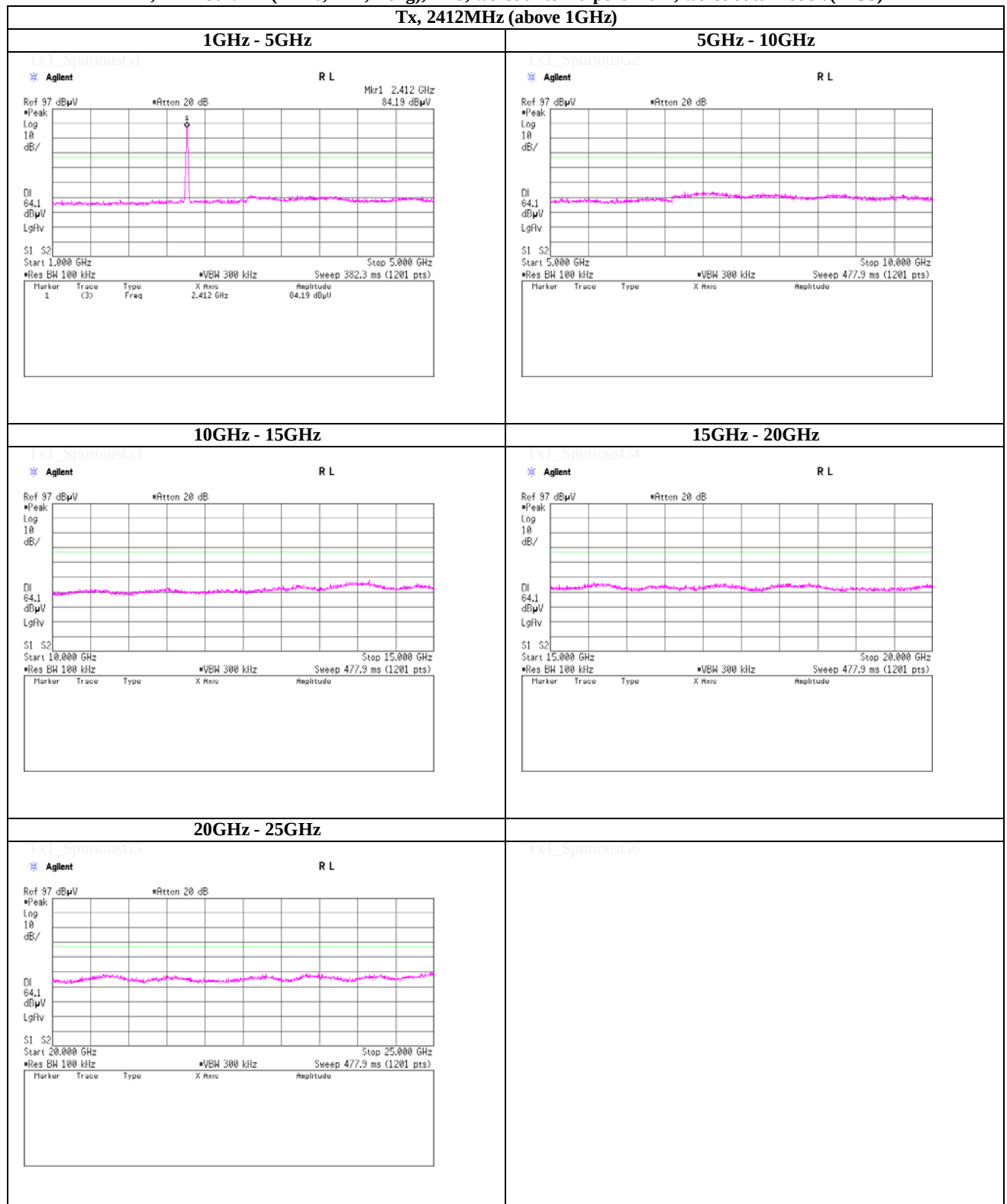


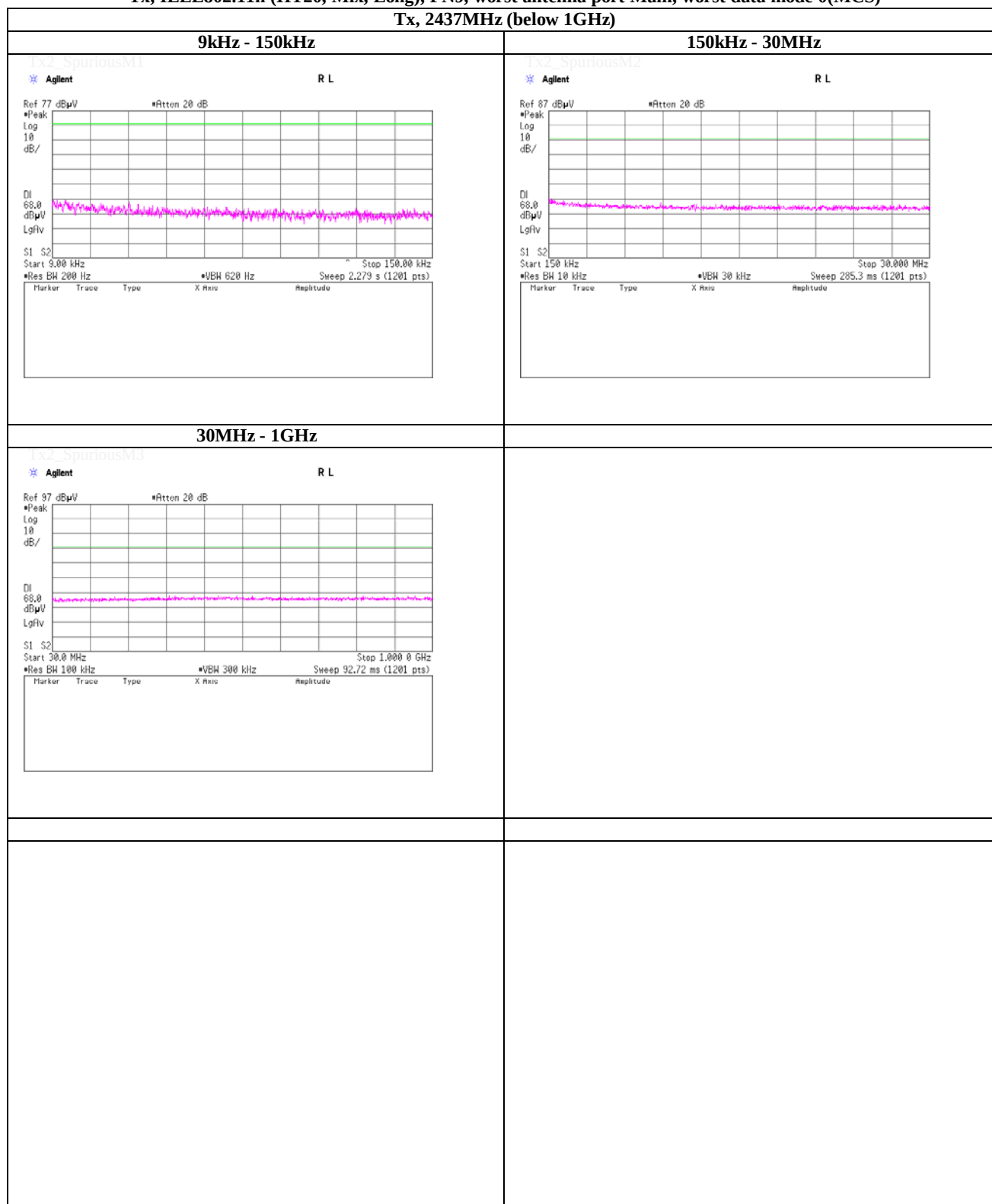
(Reference chart) Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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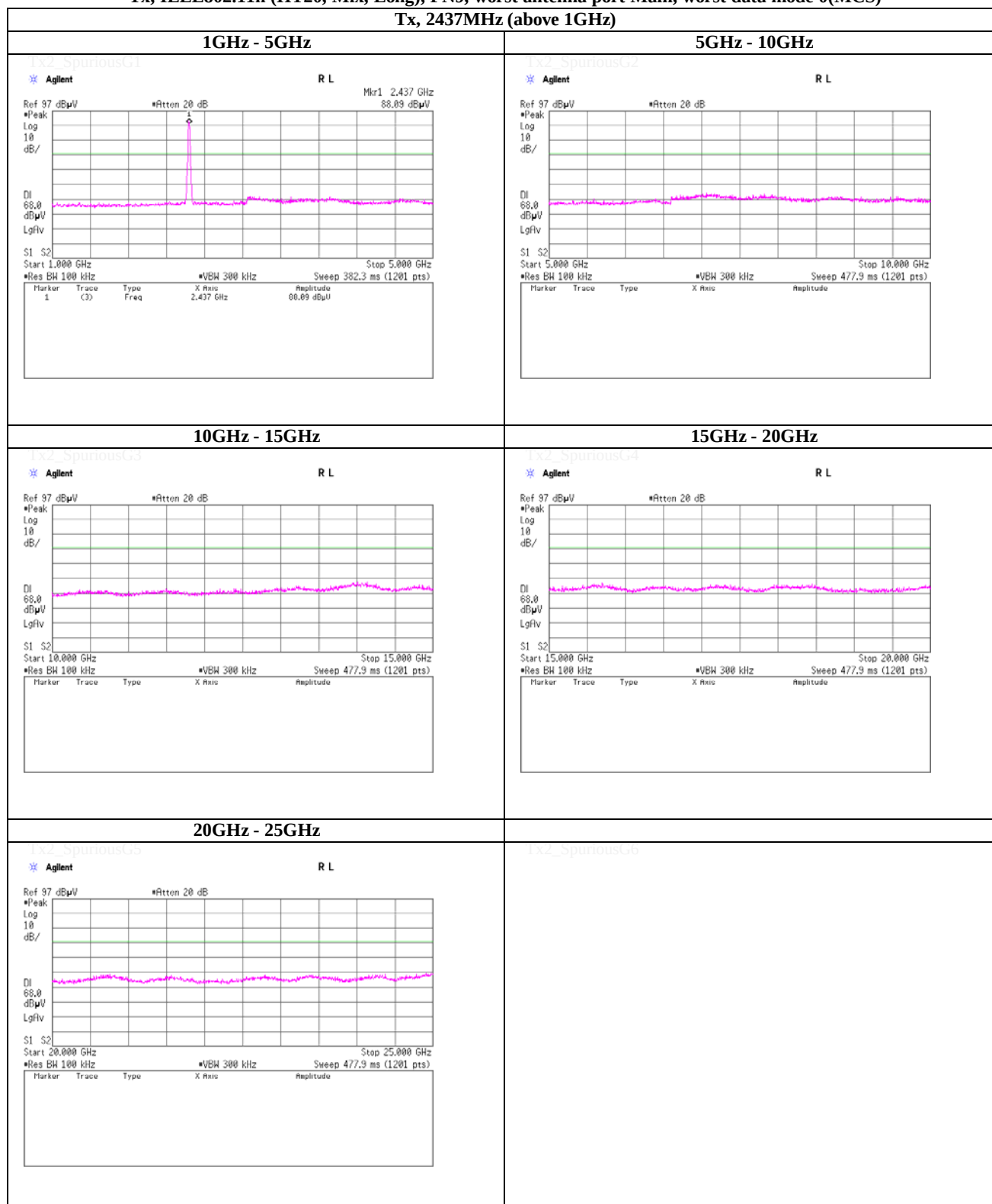
(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2412MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

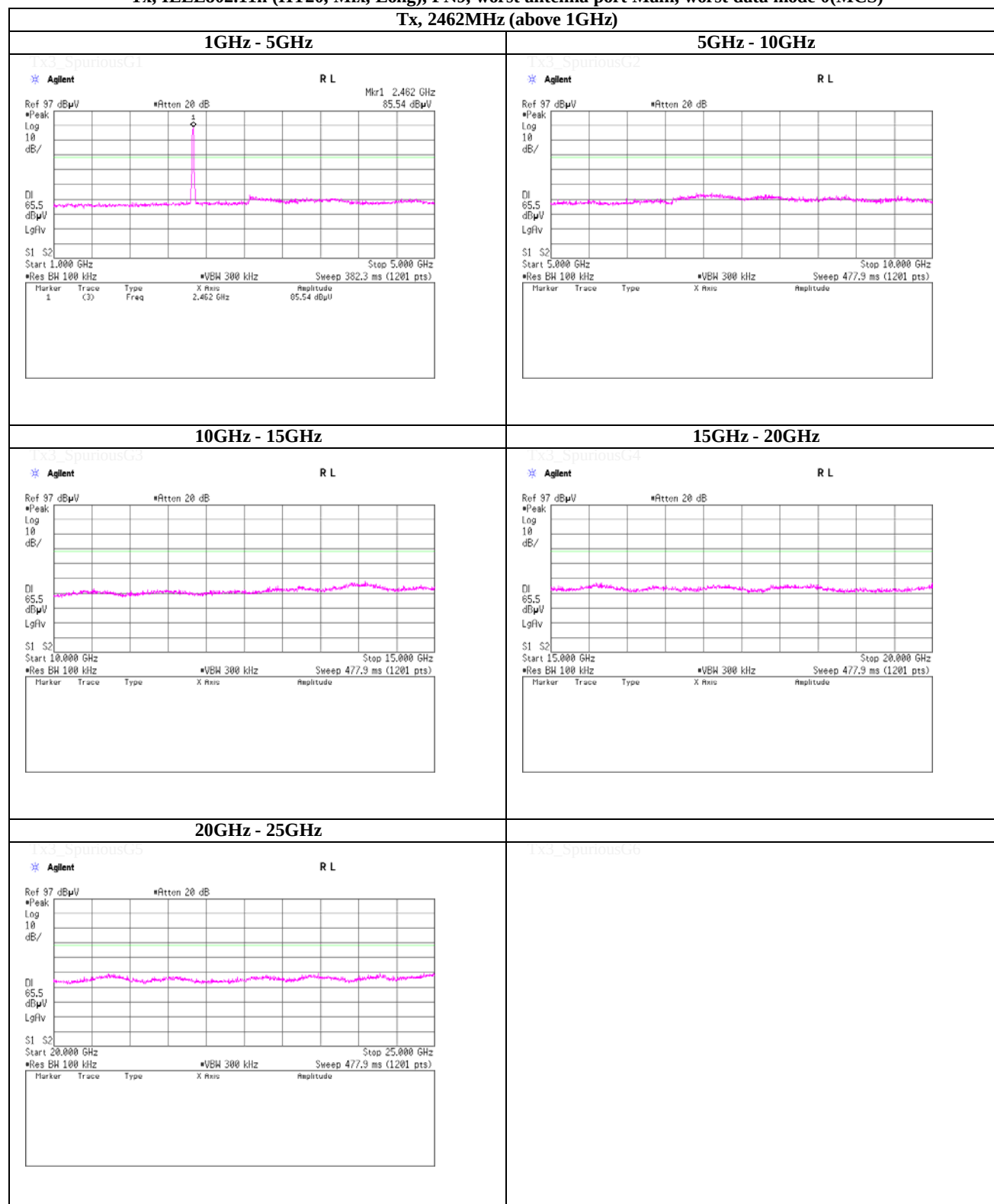
(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2437MHz (below 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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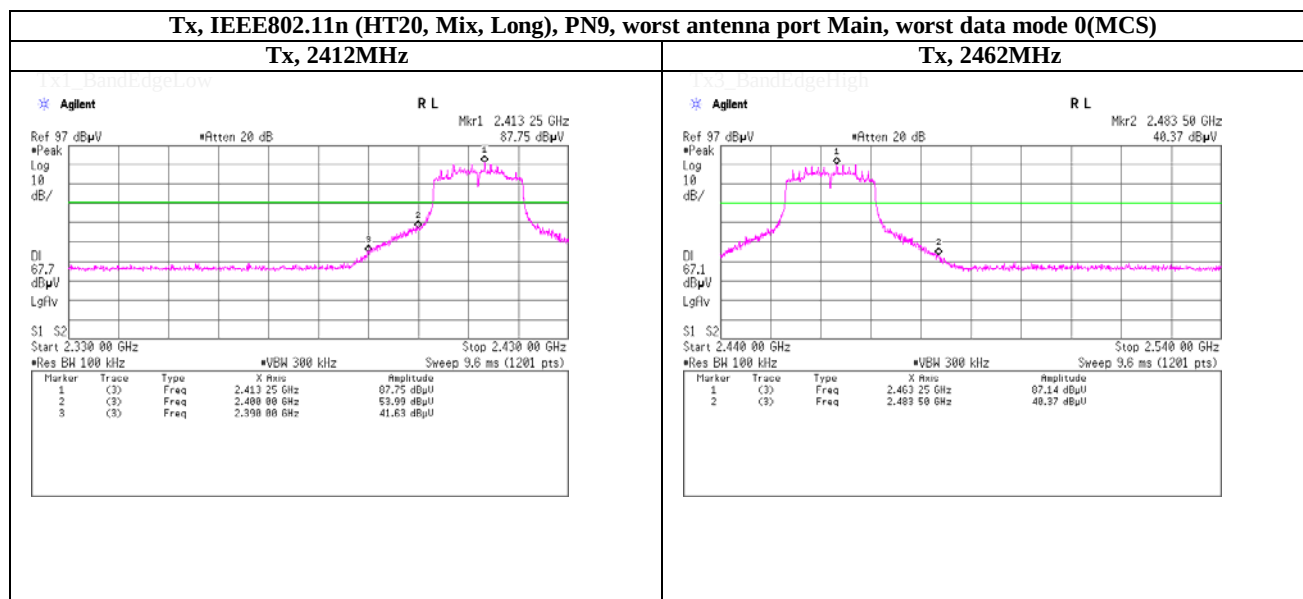
(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2437MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2462MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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Telephone : +81 463 50 6400

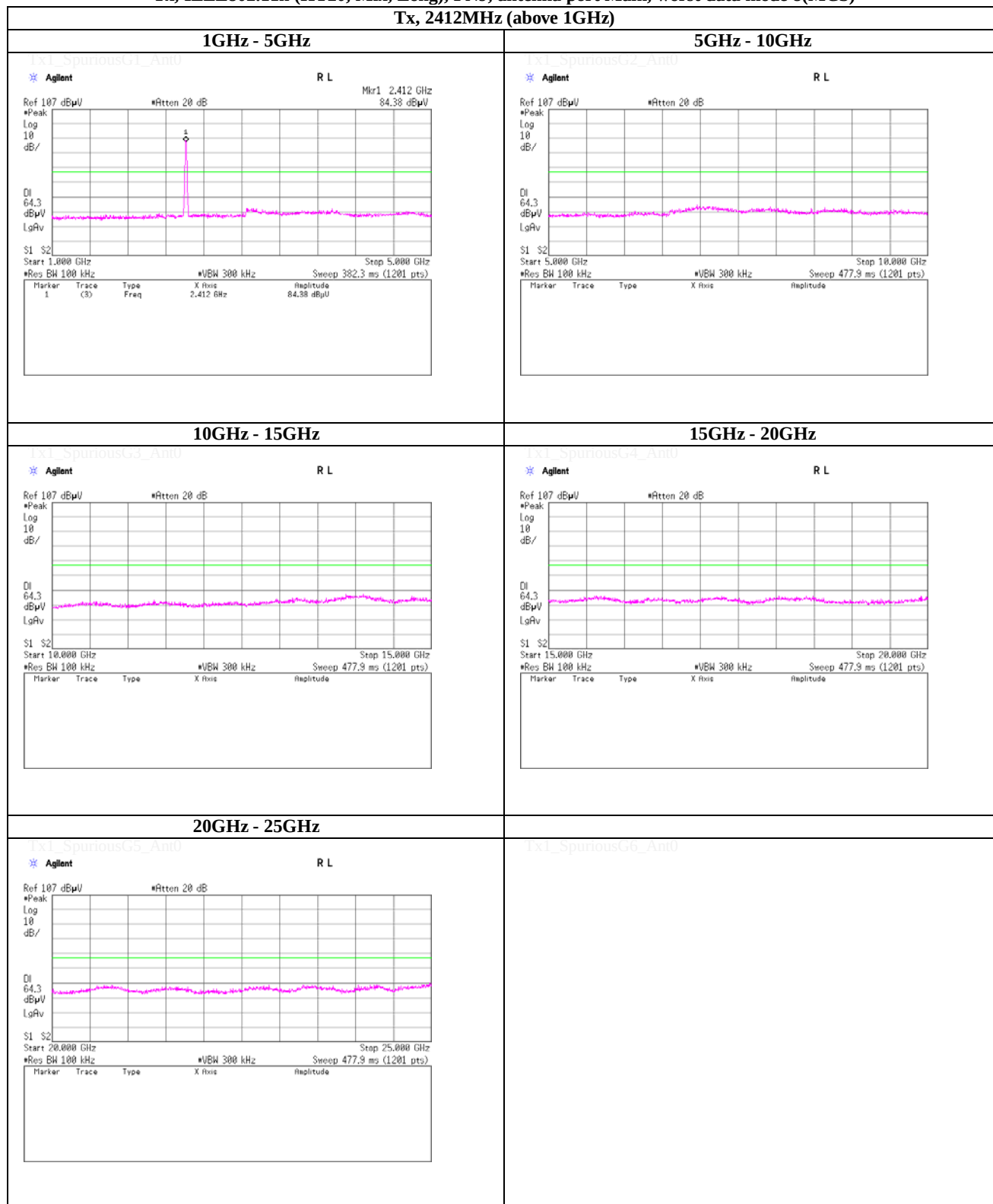
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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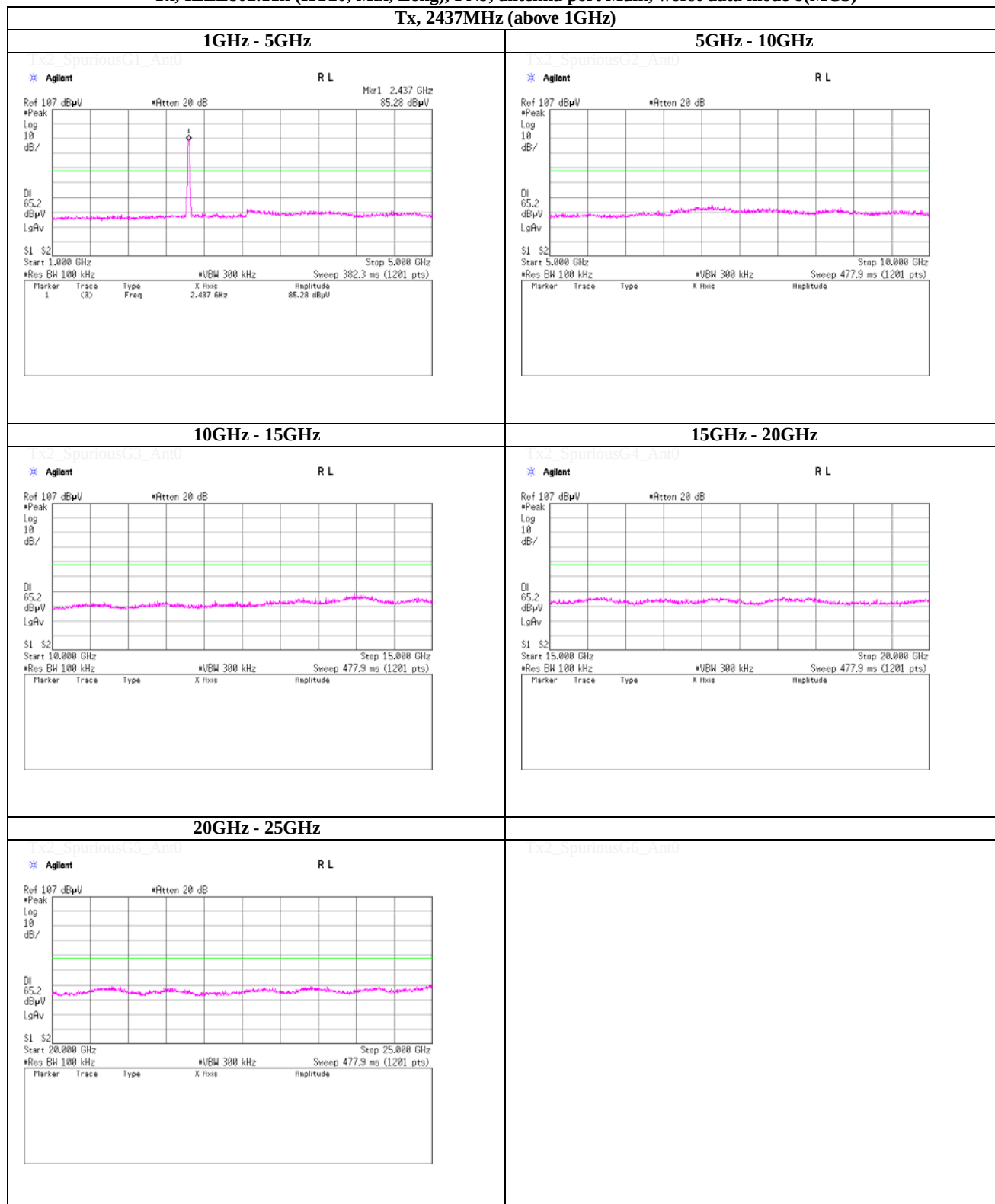
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2412MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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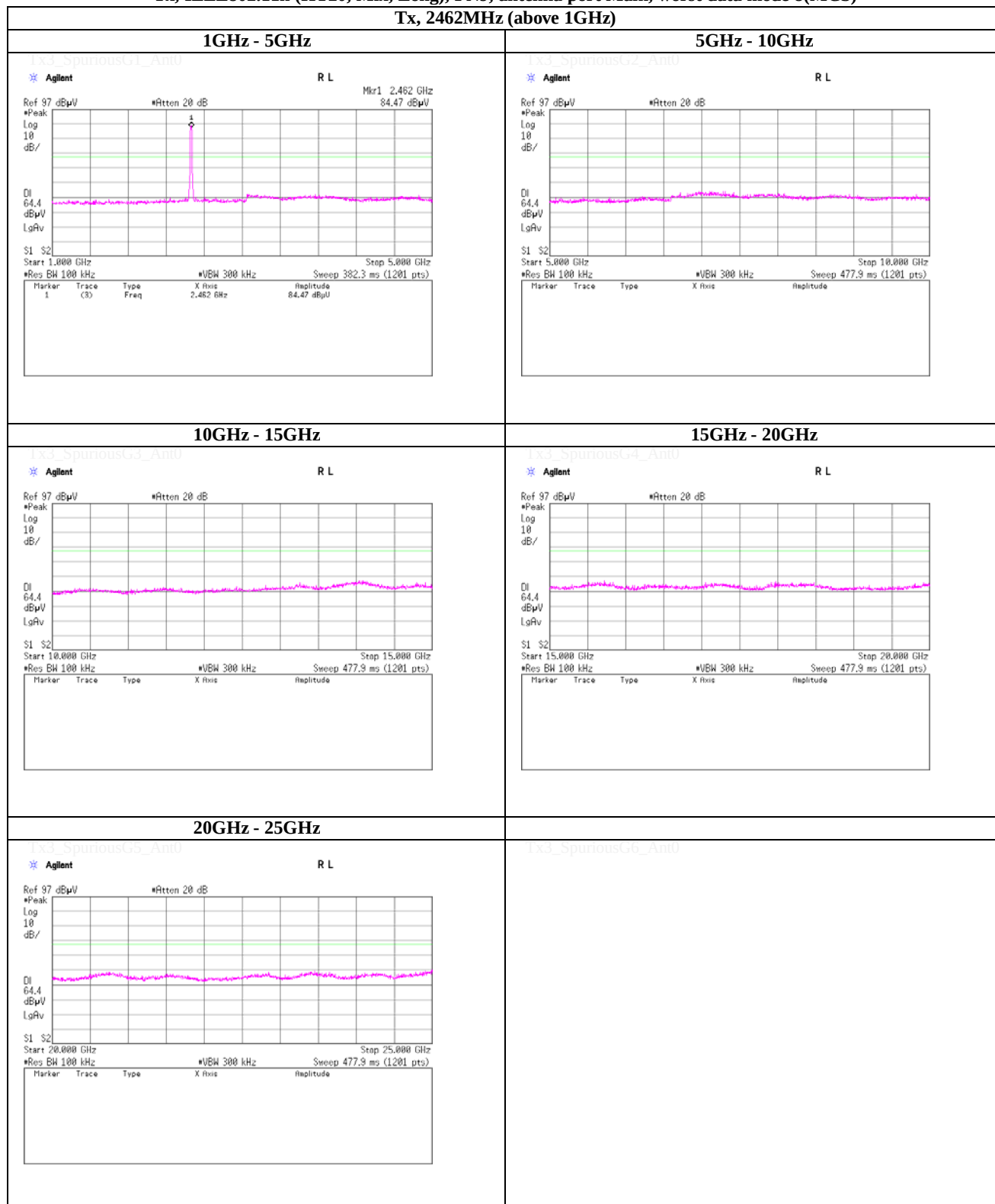
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2437MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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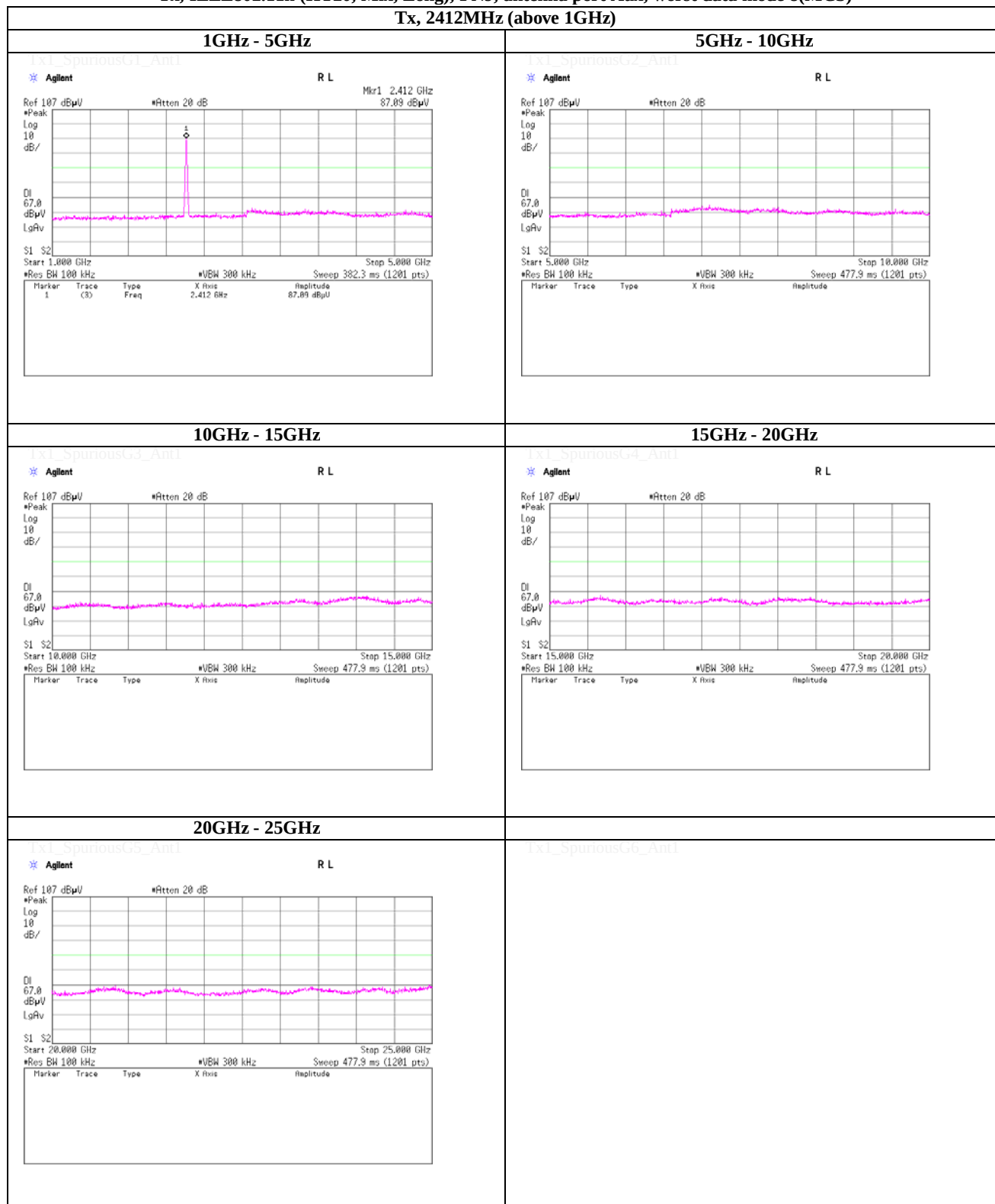
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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2462MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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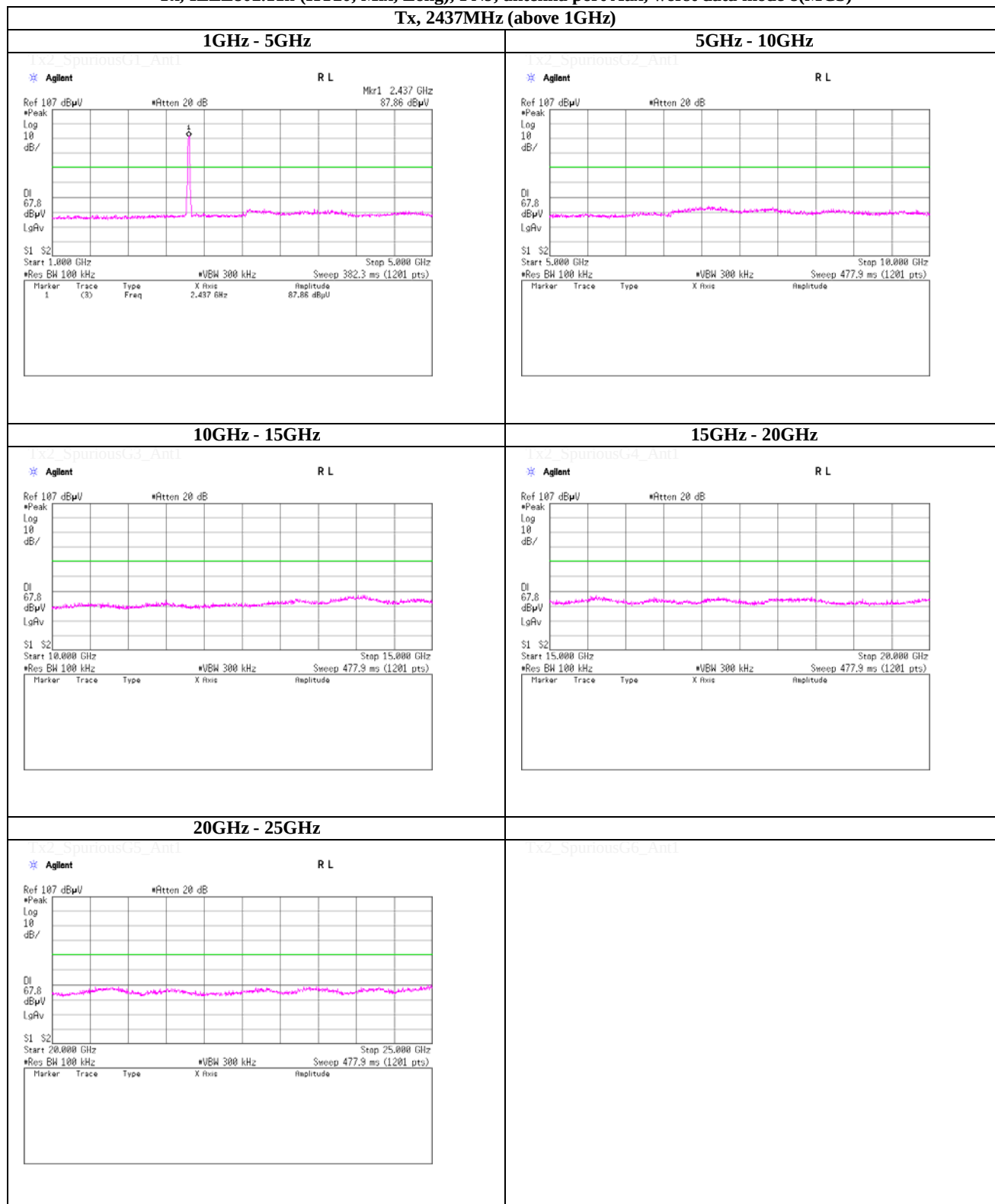
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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2412MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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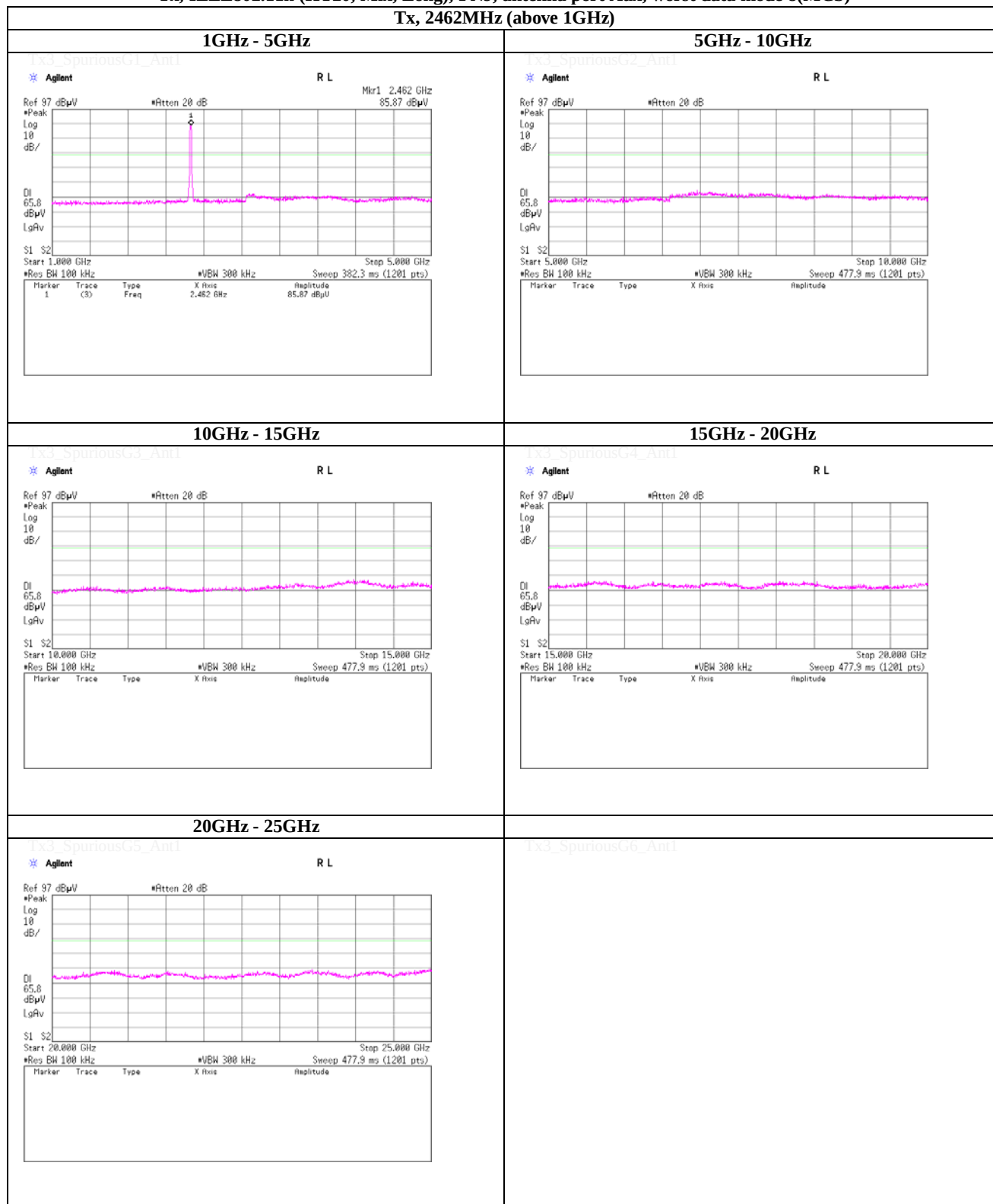
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2437MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2462MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

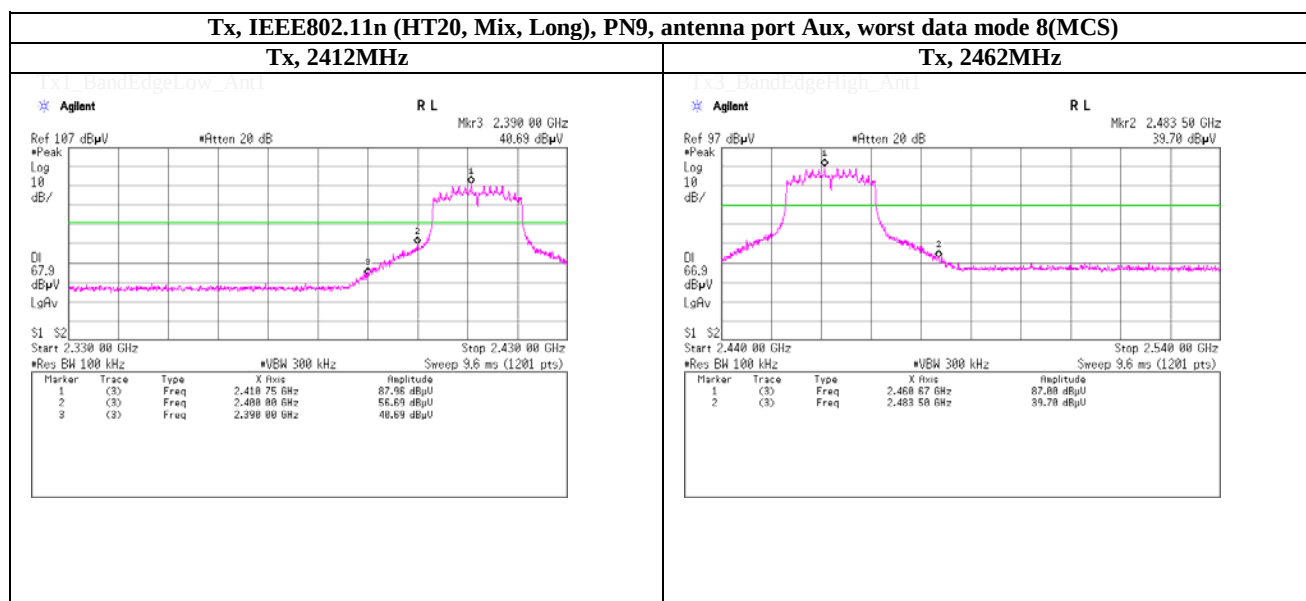
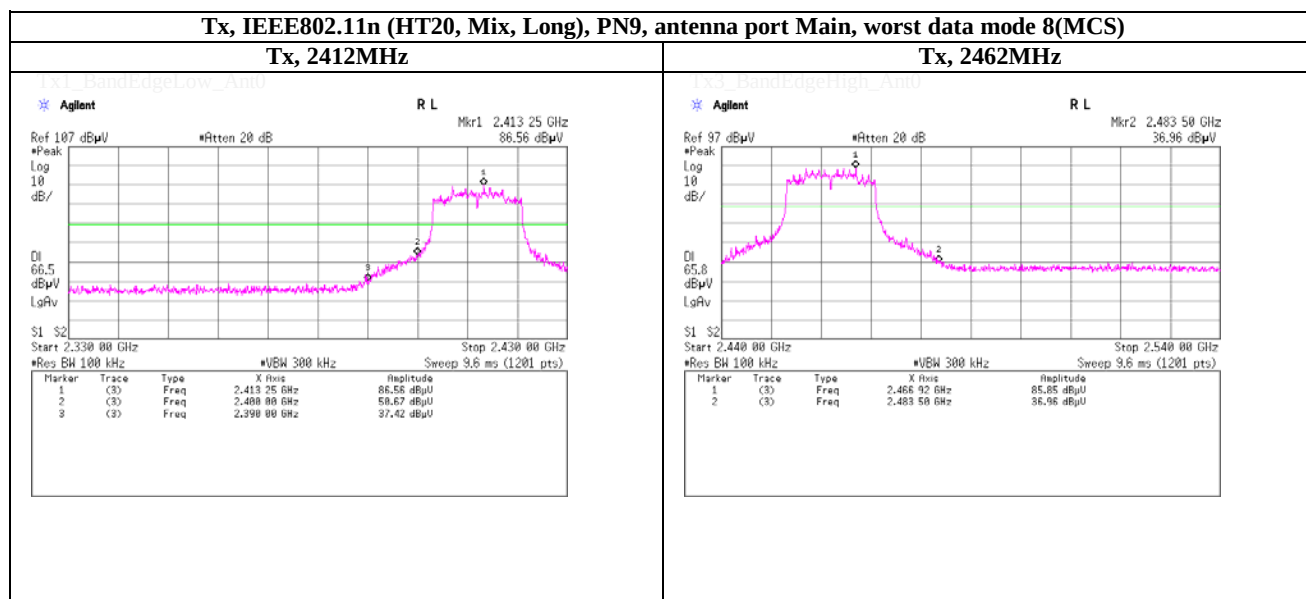
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(Reference chart) Spurious emission (Conducted)

Band Edge compliance



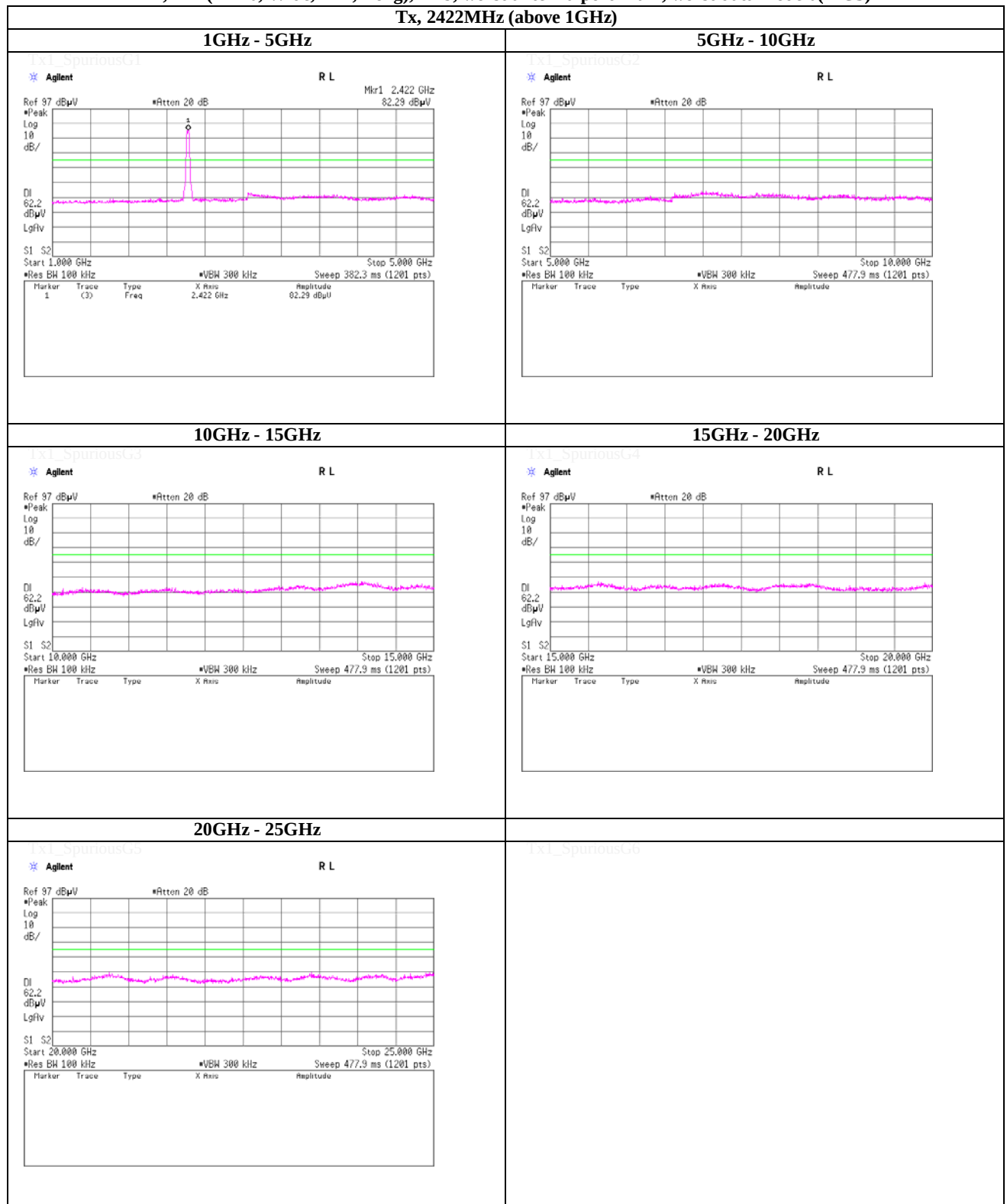
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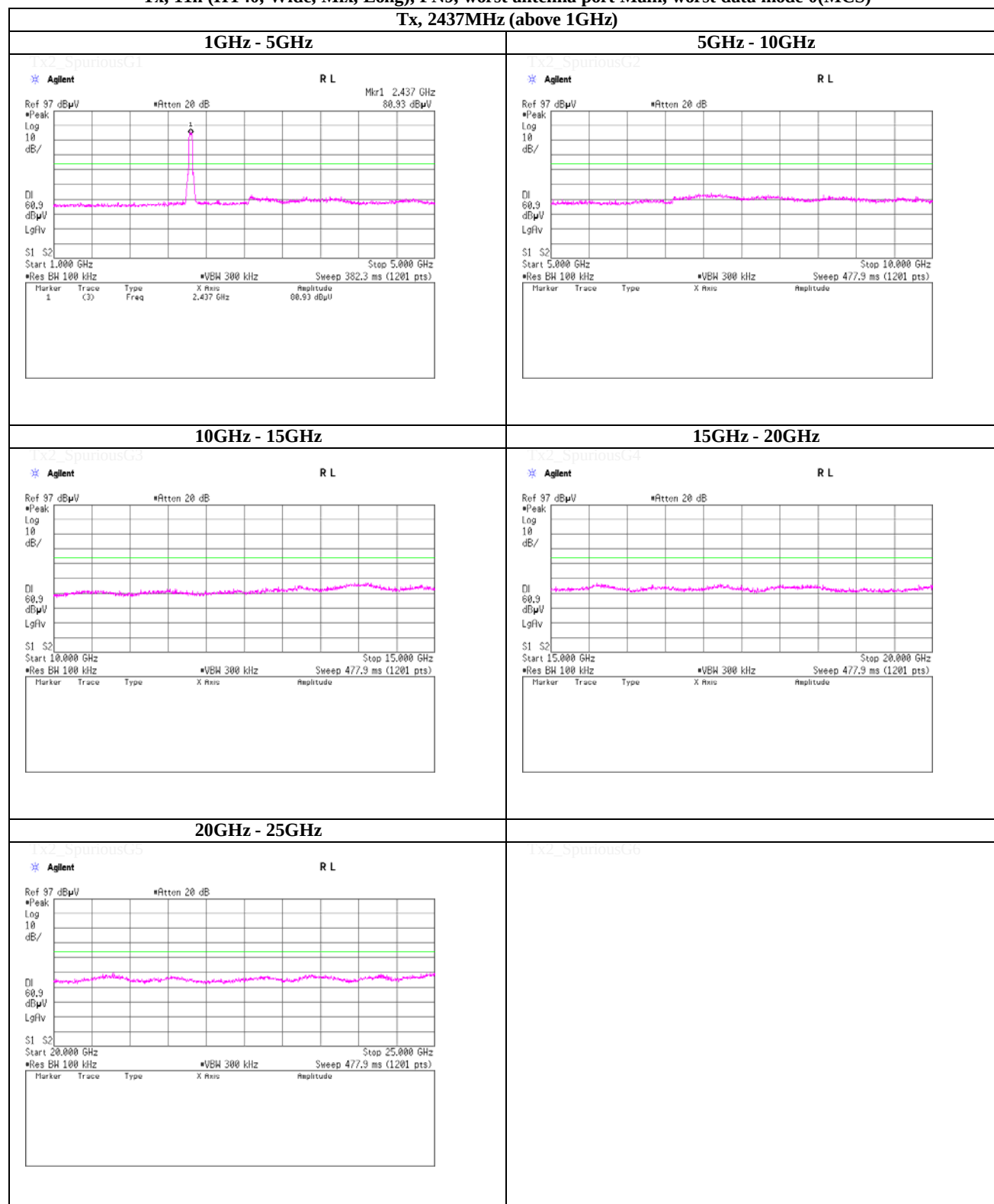
Shonan EMC Lab.

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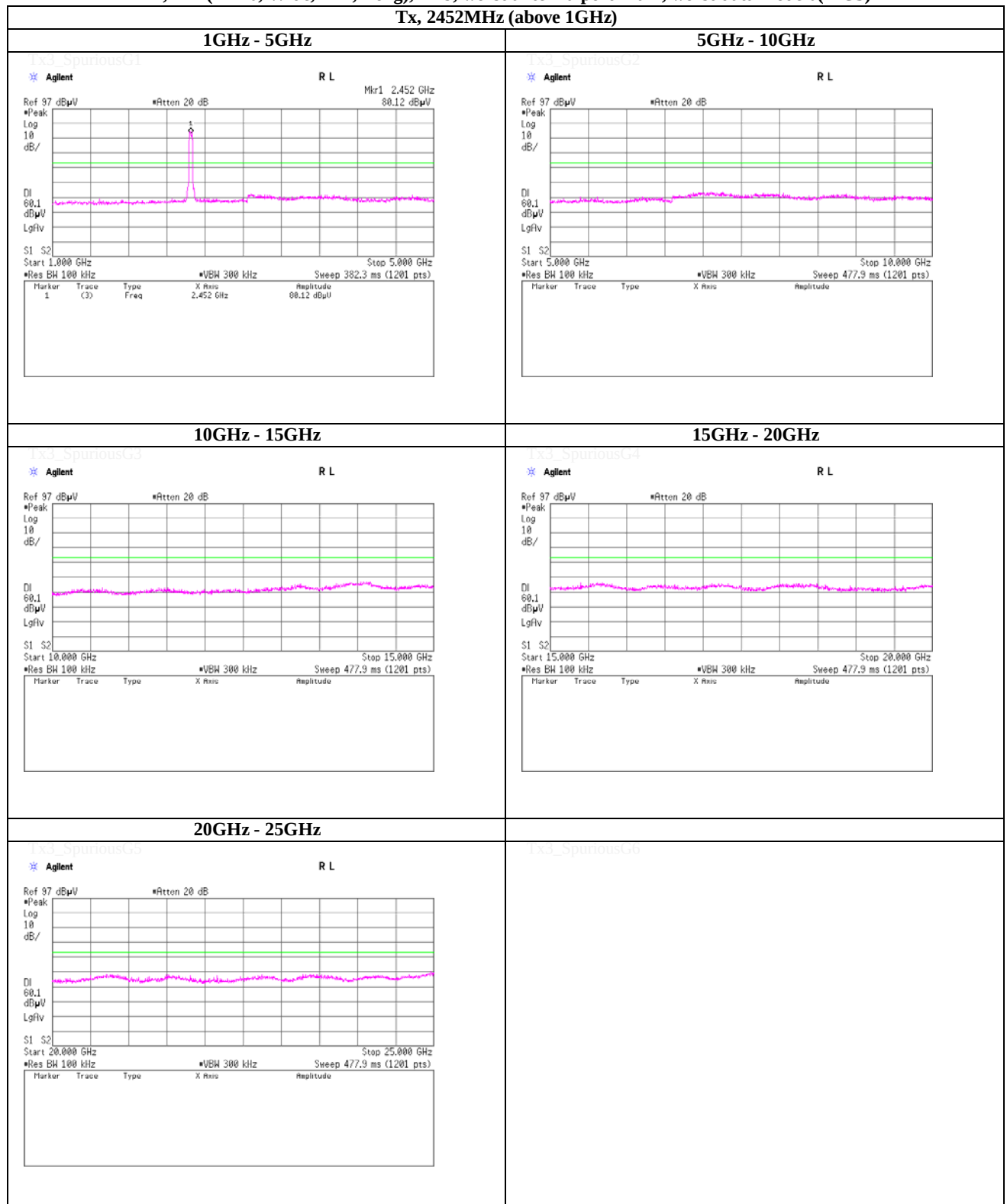
(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2422MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2437MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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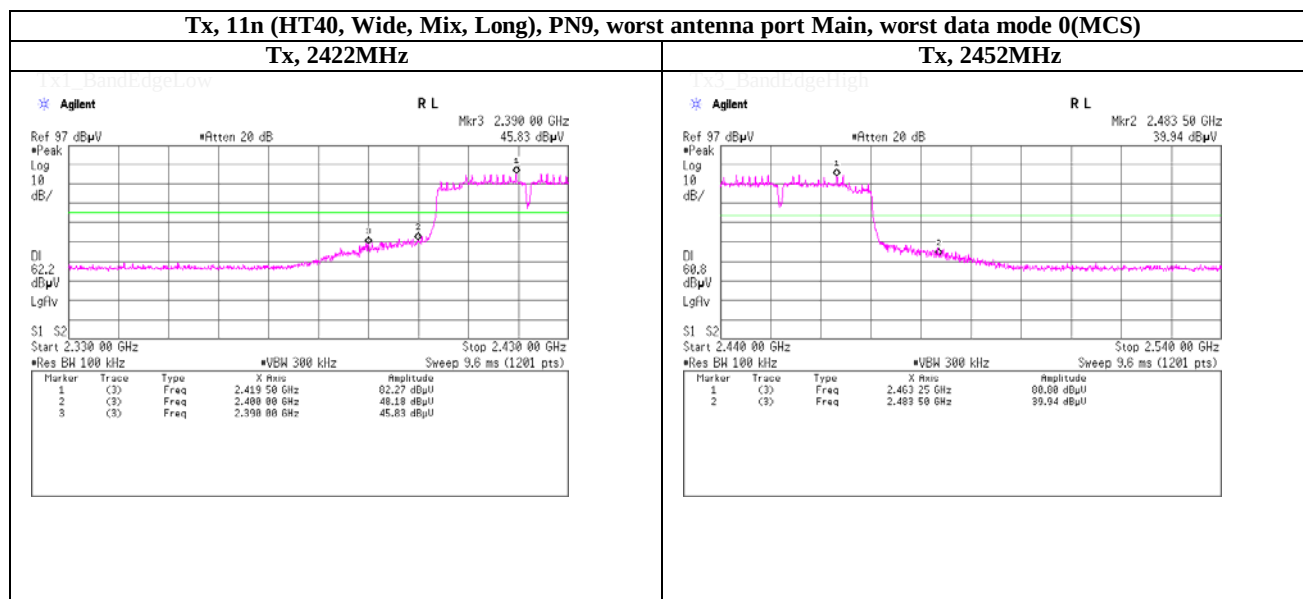
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 2452MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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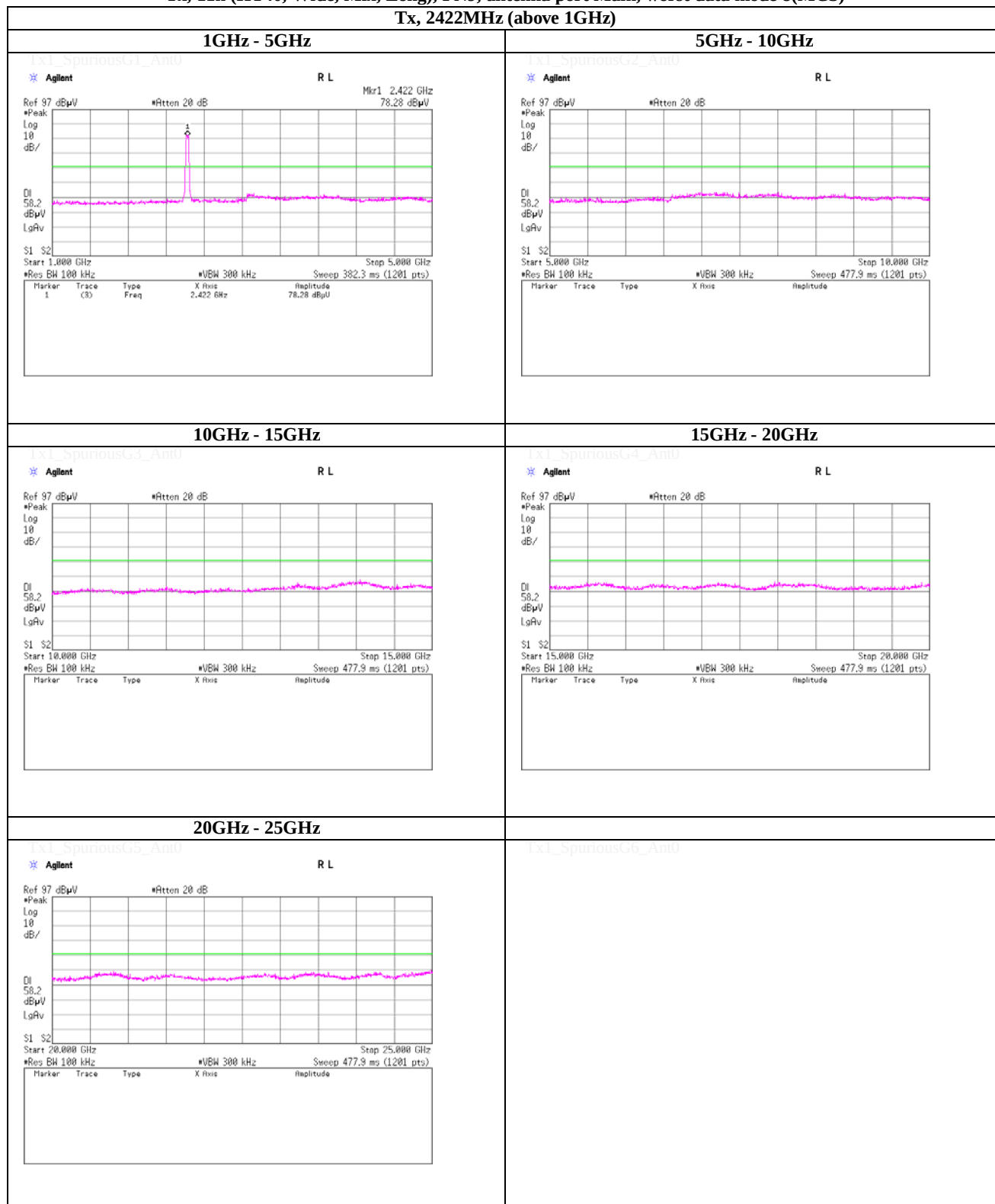
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(Reference chart) Spurious emission (Conducted)**Band Edge compliance****Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****UL Japan, Inc.****Shonan EMC Lab.**

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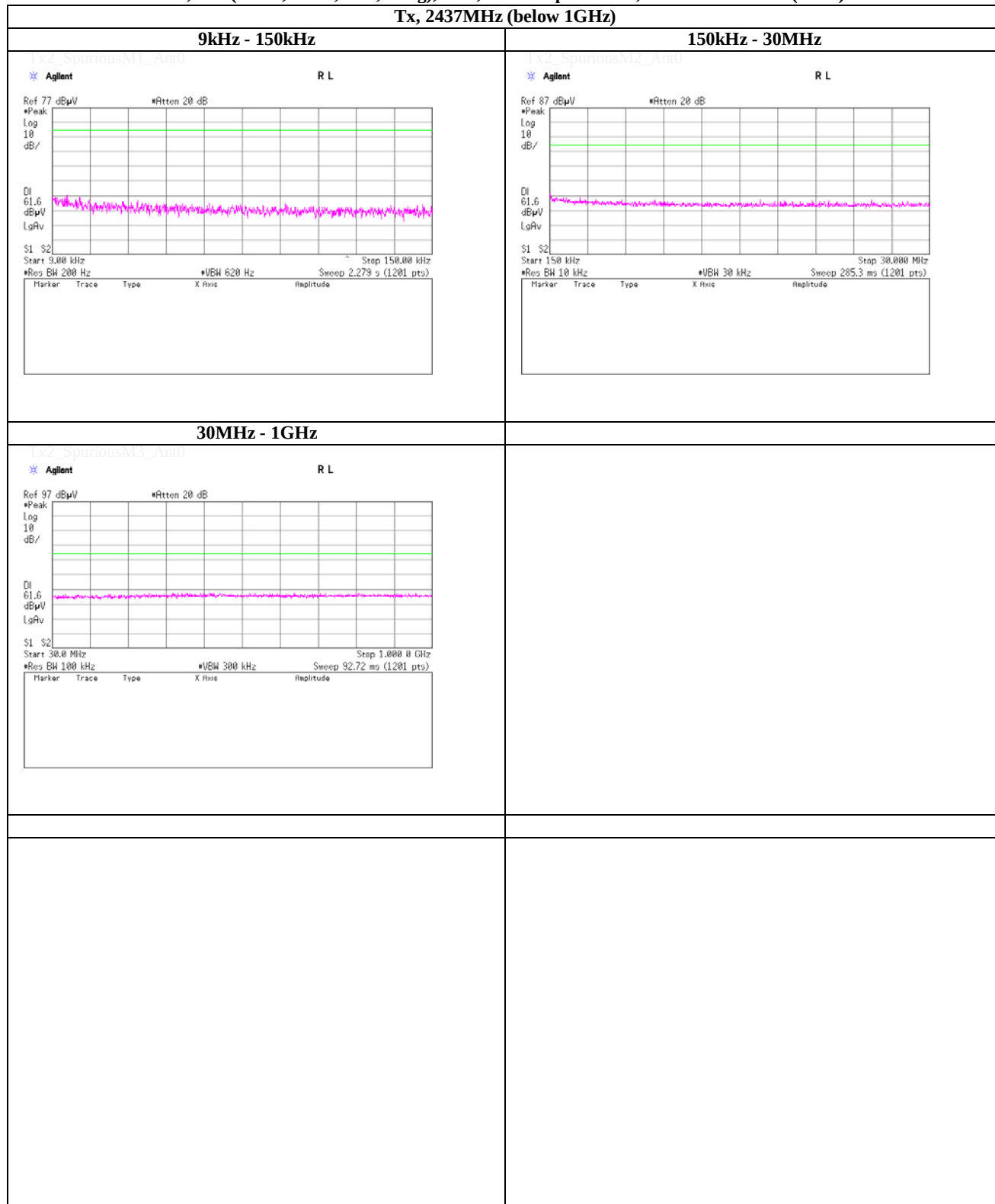
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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2422MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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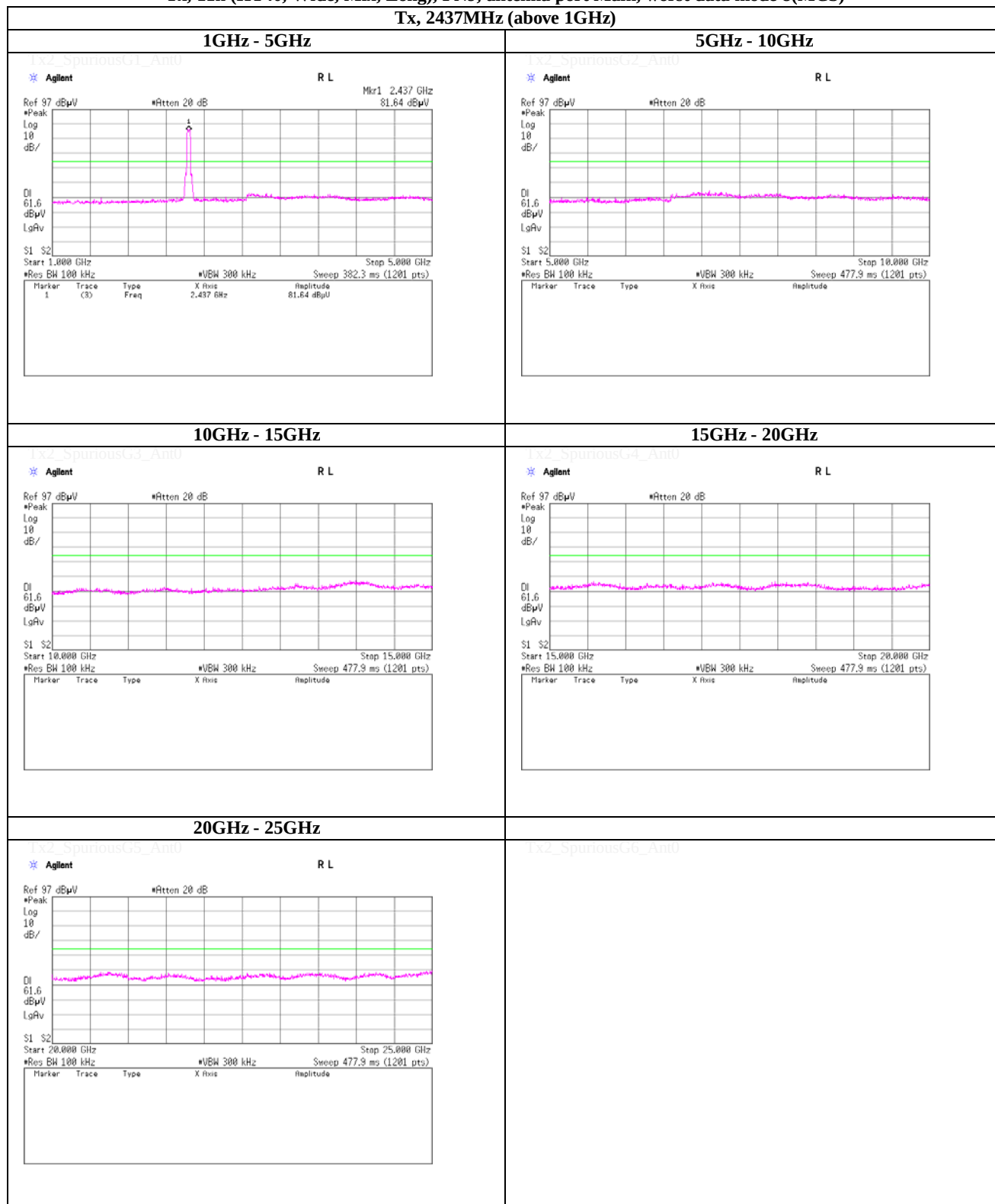
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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2437MHz (below 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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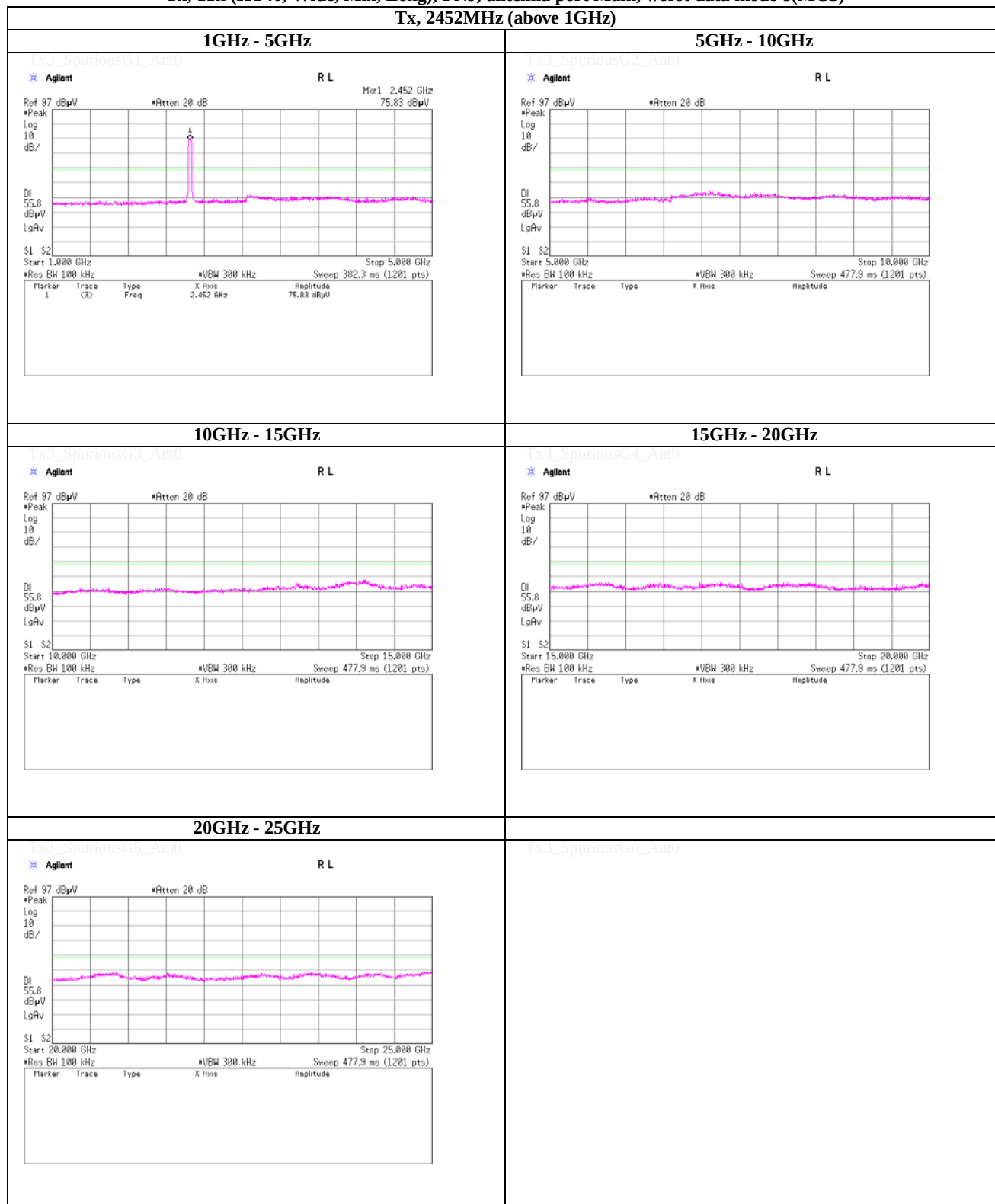
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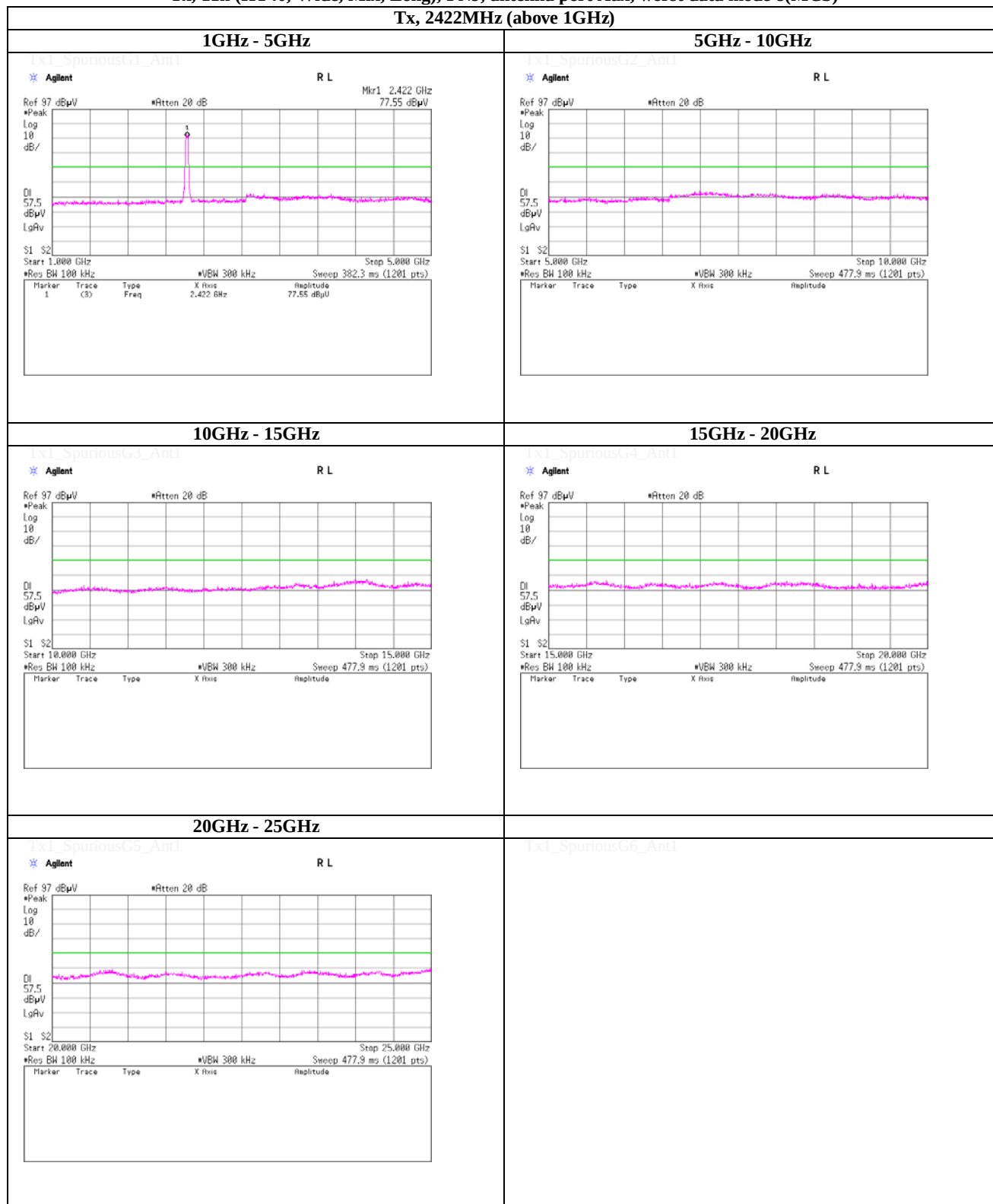
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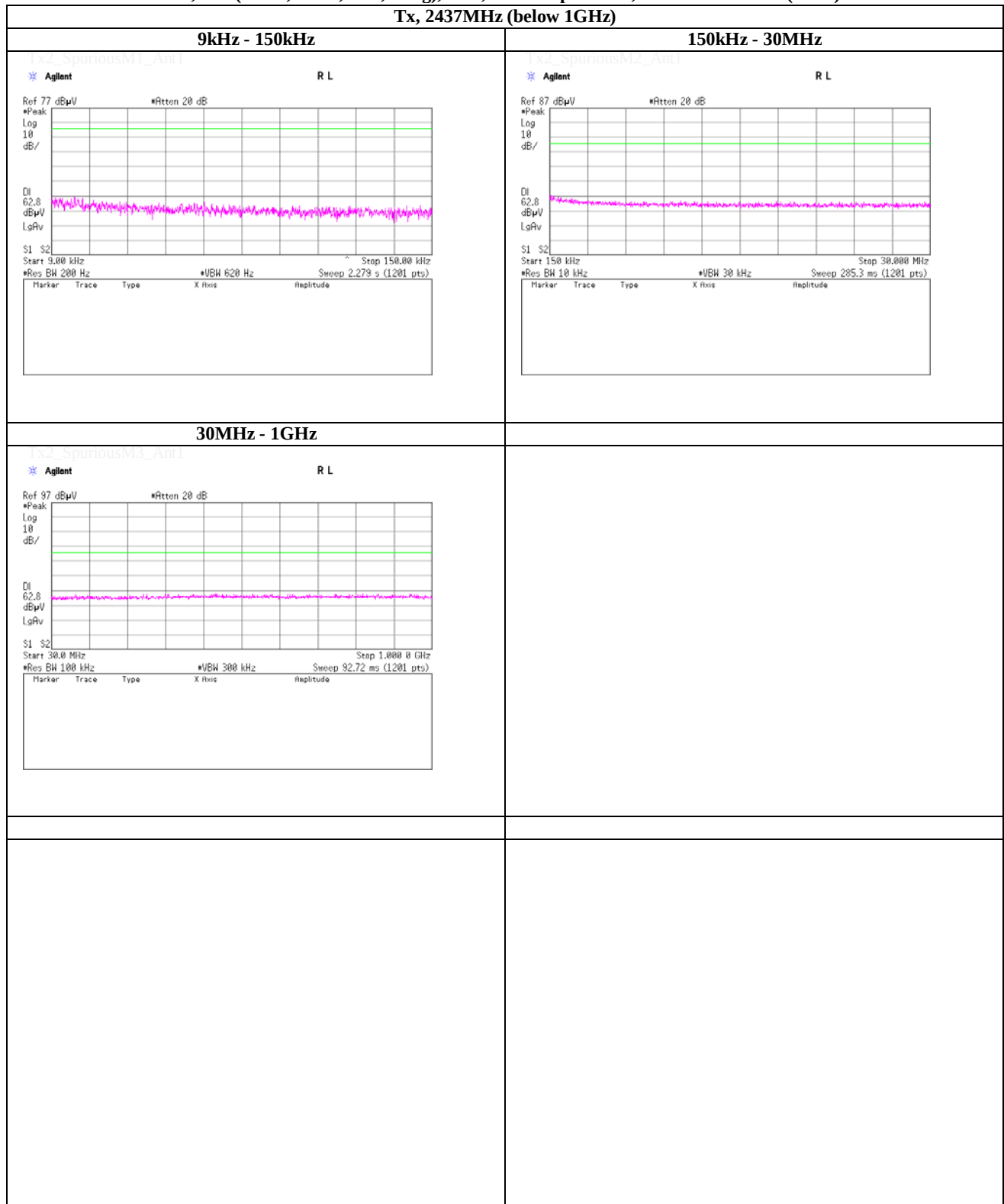
(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 2452MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2422MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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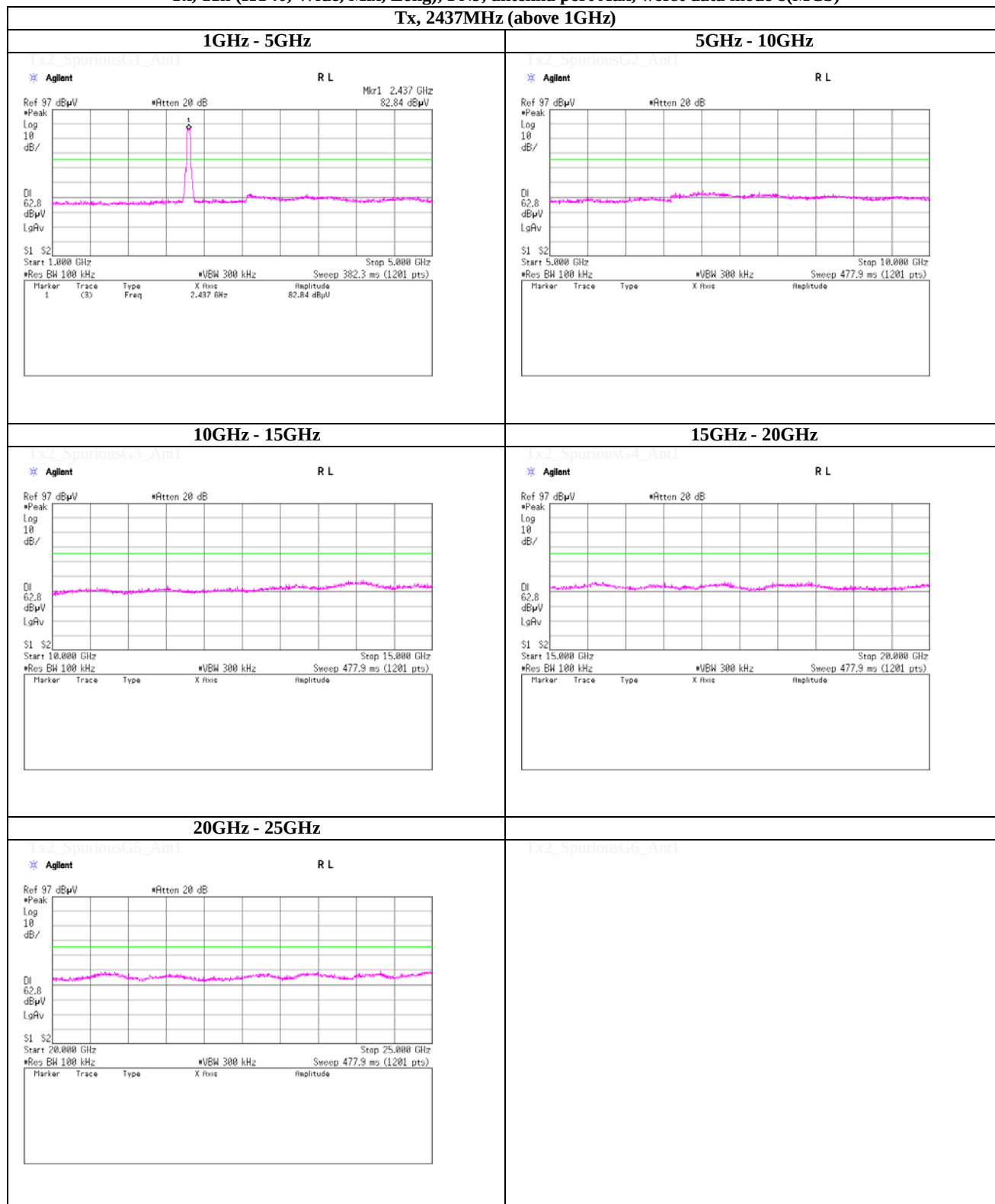
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2437MHz (below 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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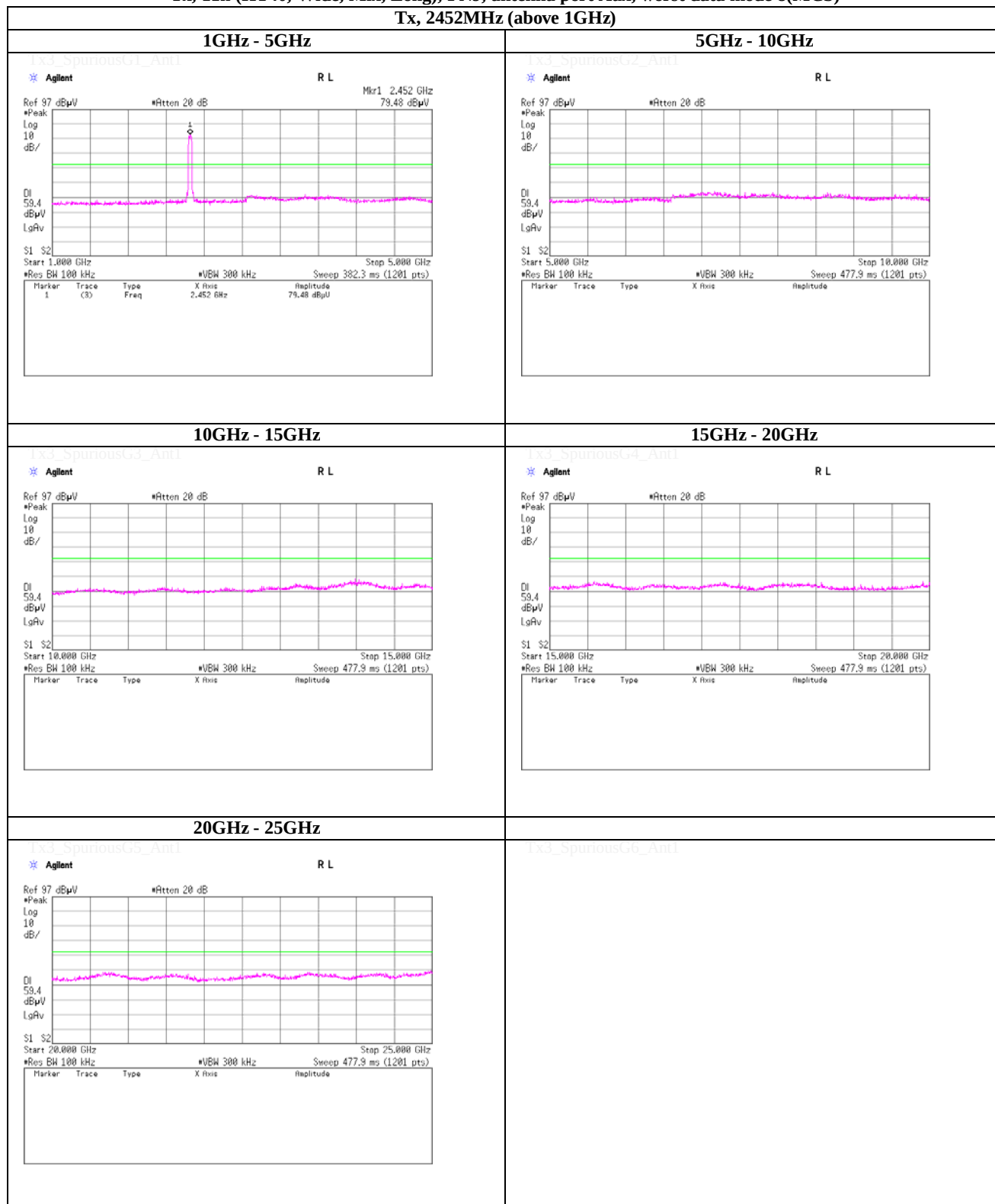
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2437MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 2452MHz (above 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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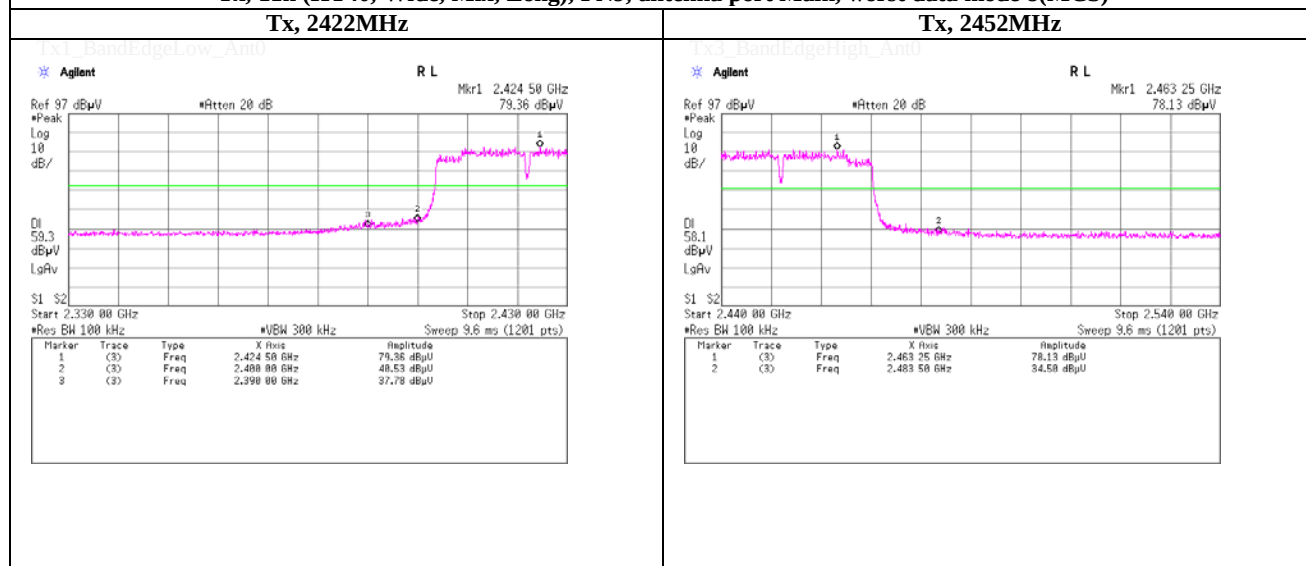
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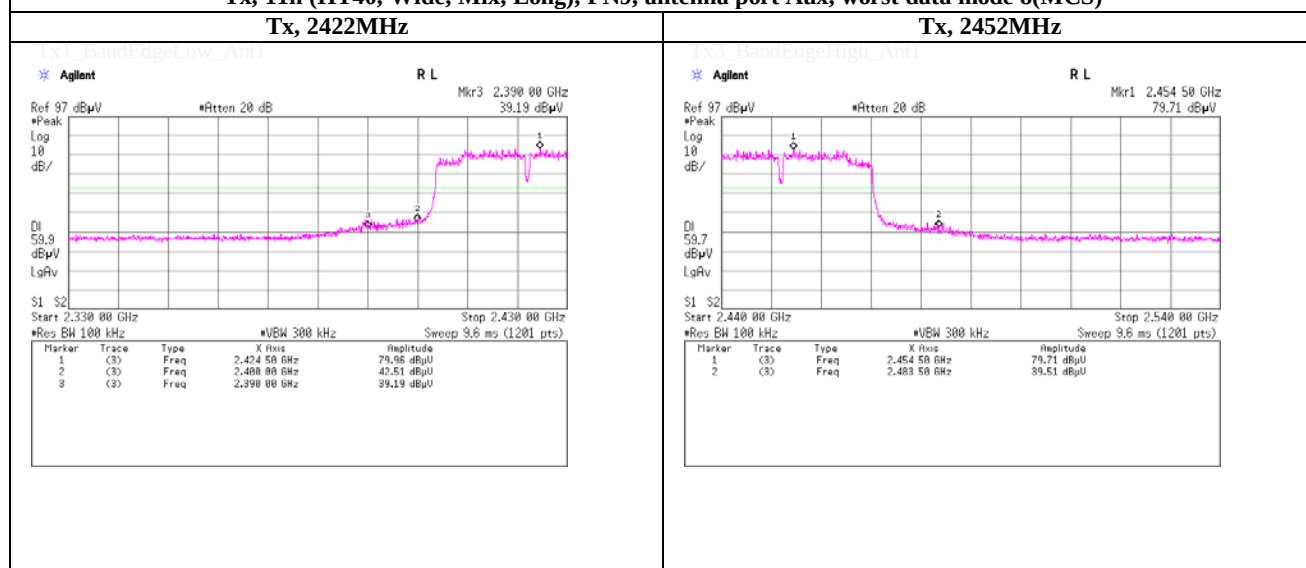
(Reference chart) Spurious emission (Conducted)

Band Edge compliance

Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)



Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)



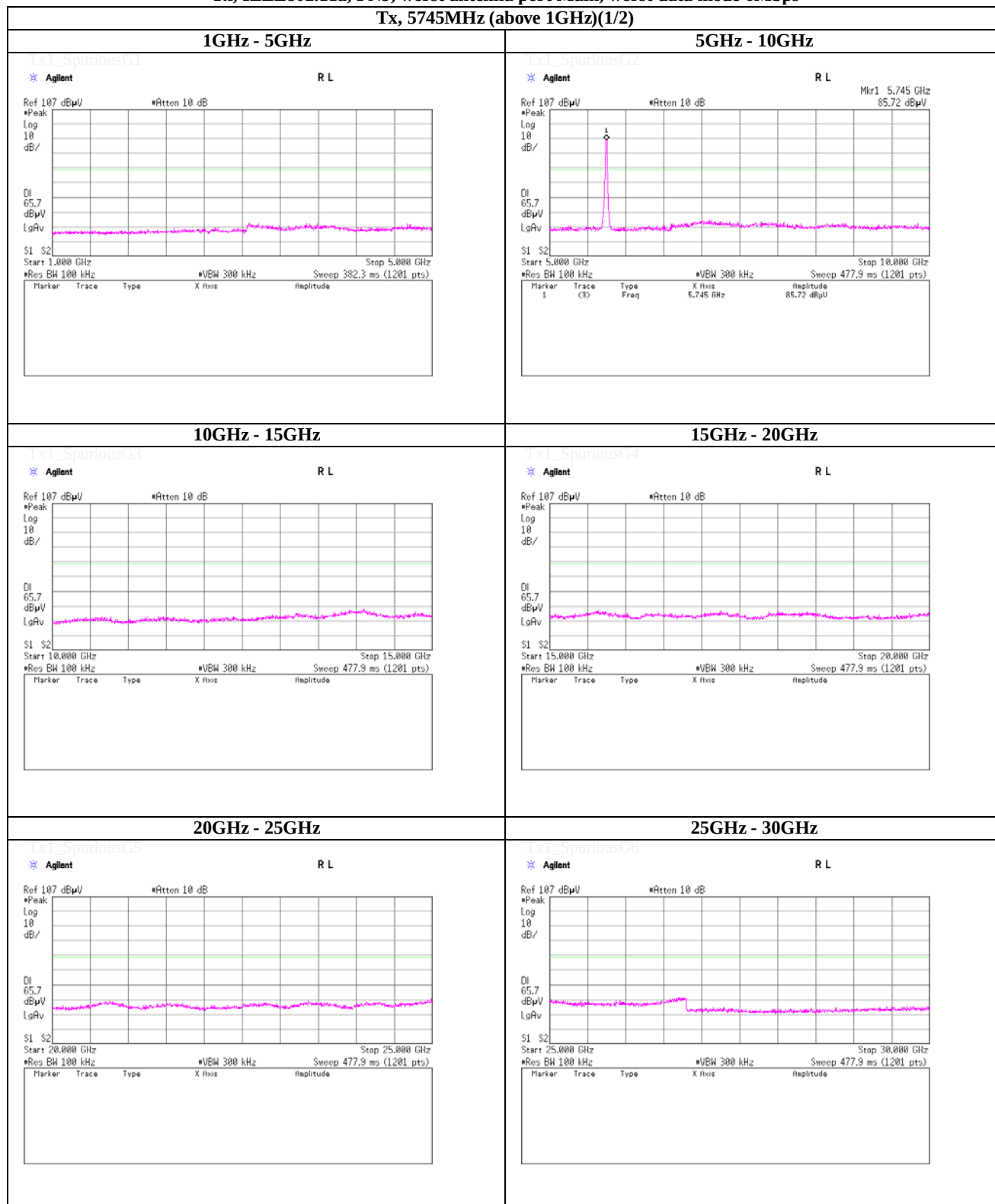
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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps****Tx, 5745MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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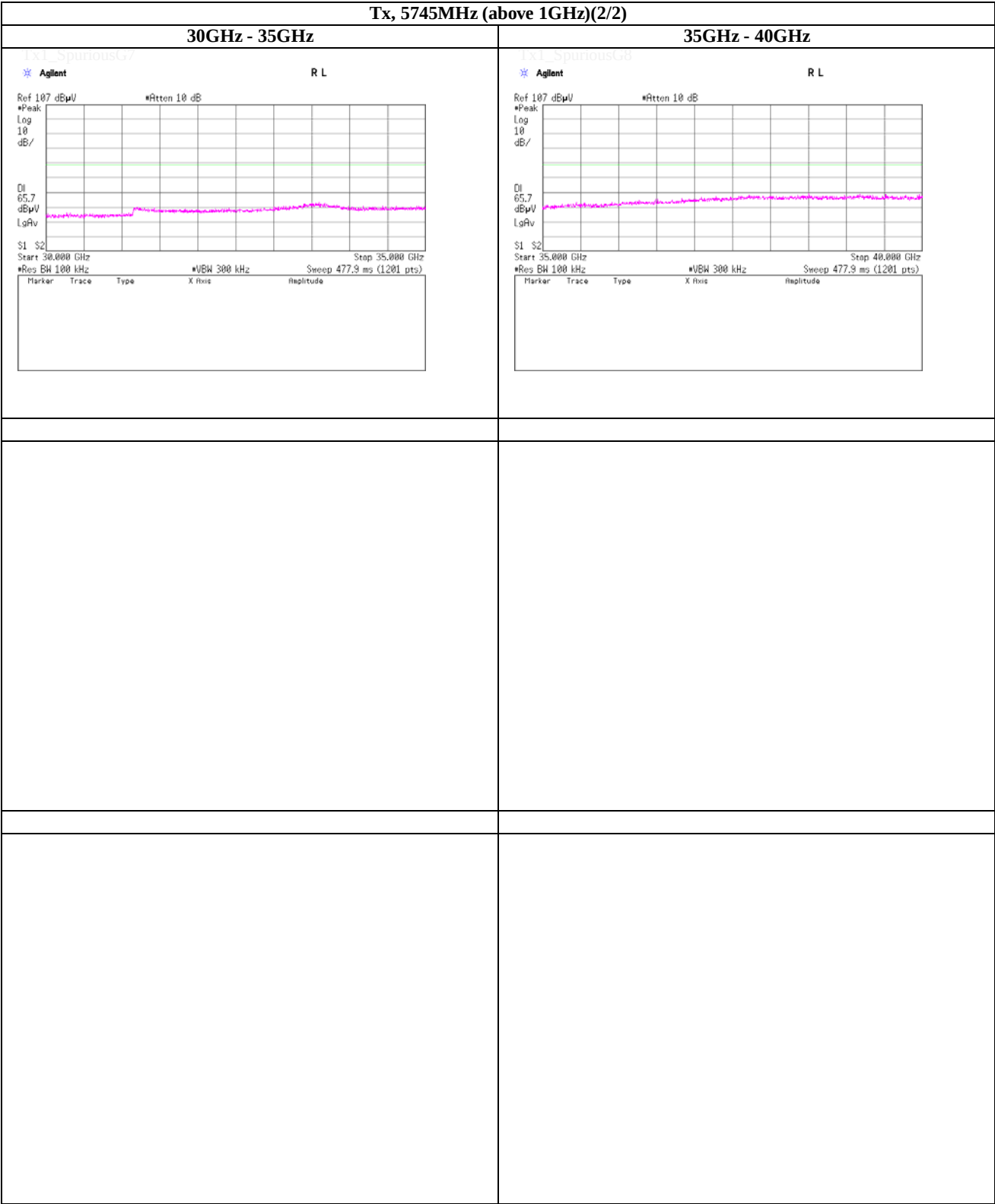
Telephone : +81 463 50 6400

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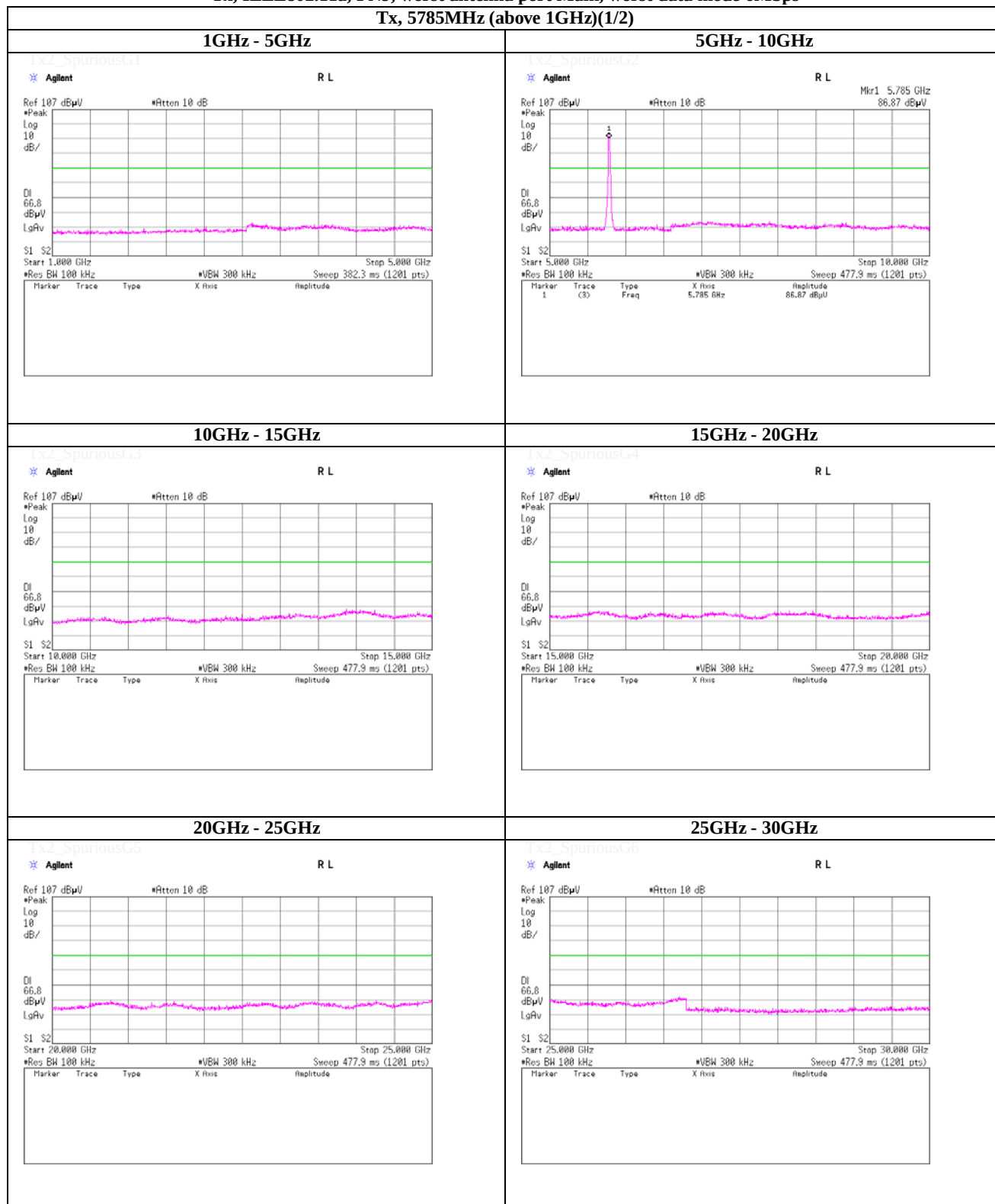
(Reference chart) Spurious emission (Conducted)

Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps

Tx, 5745MHz (above 1GHz)(2/2)



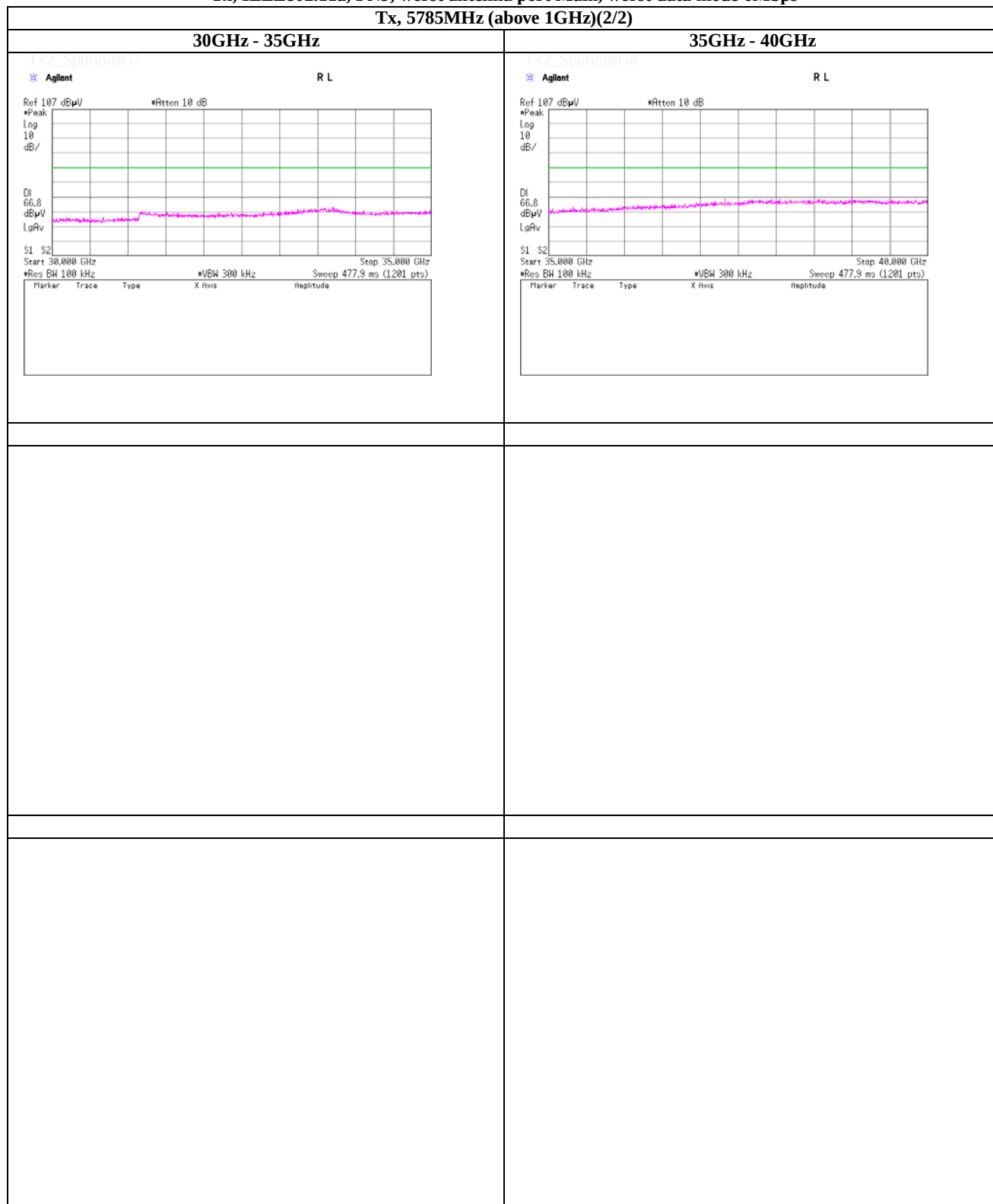
UL Japan, Inc.
Shonan EMC Lab.
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps****Tx, 5785MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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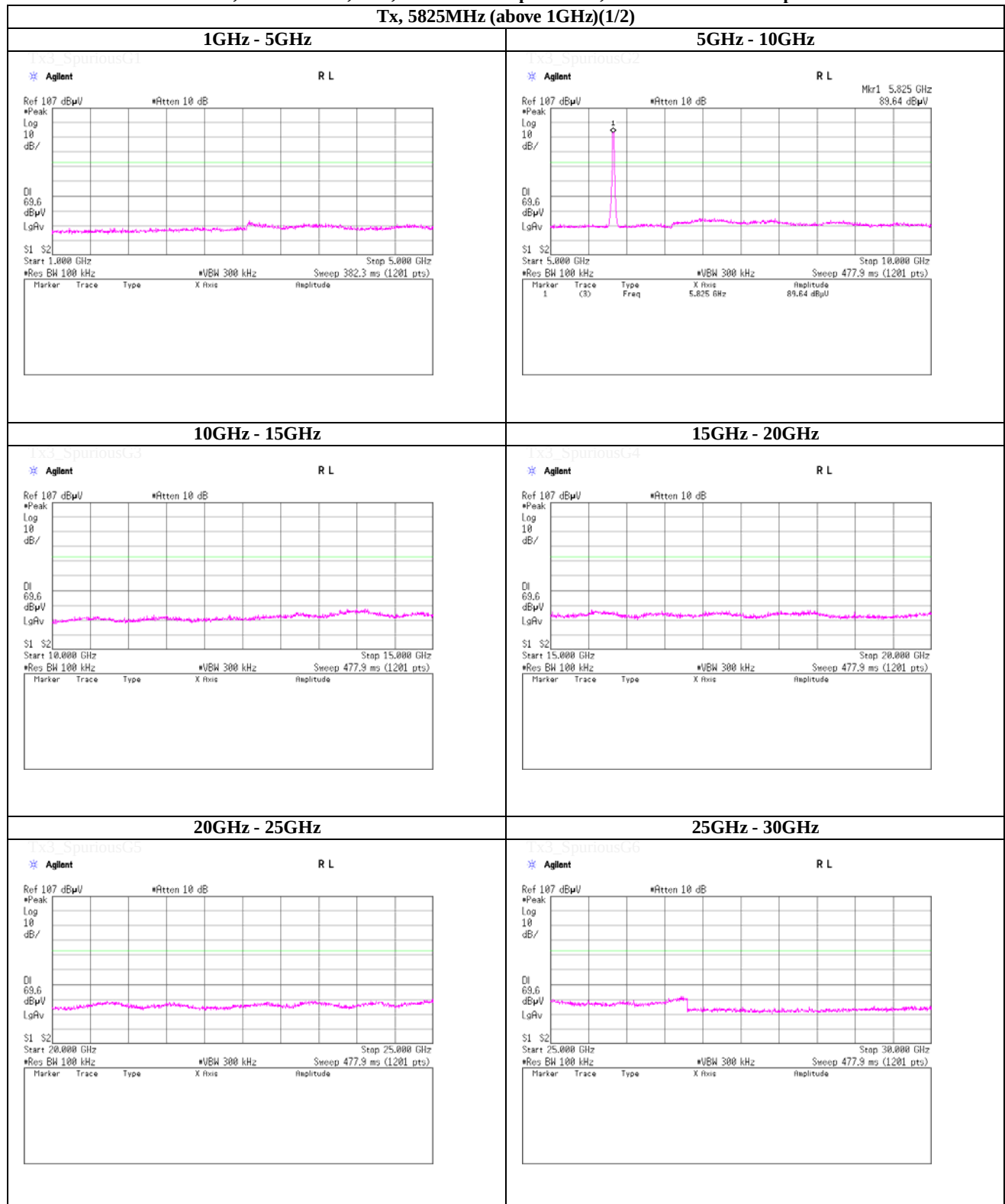
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps****Tx, 5785MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps****Tx, 5825MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps****Tx, 5825MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

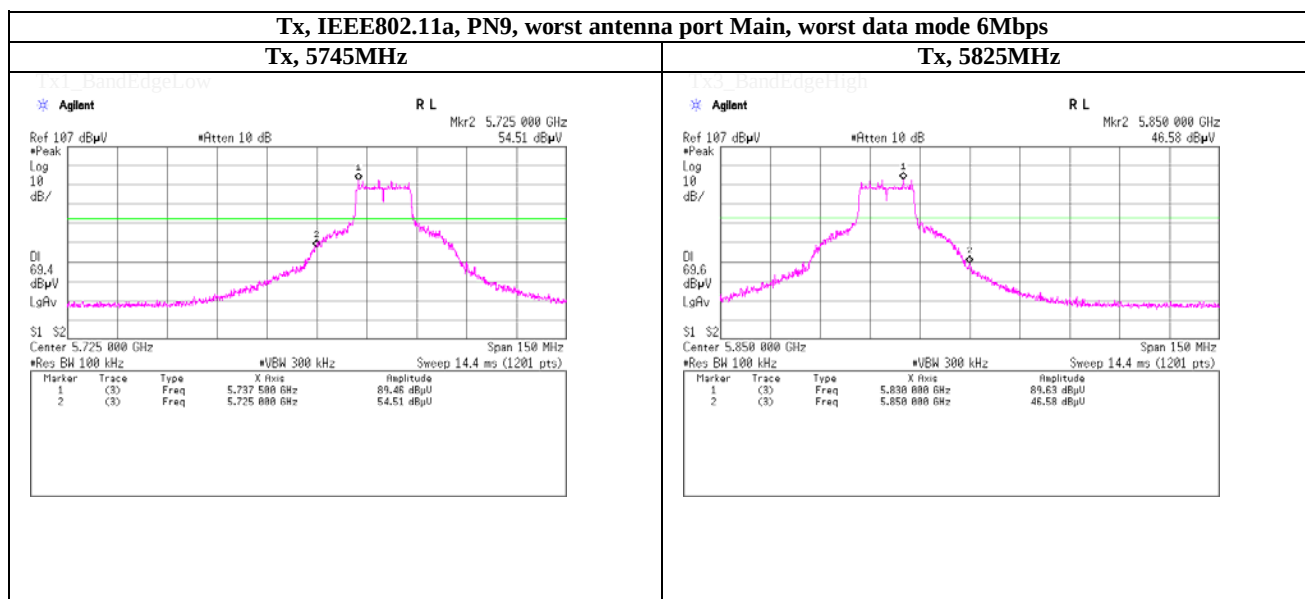
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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(Reference chart) Spurious emission (Conducted)

Band Edge compliance



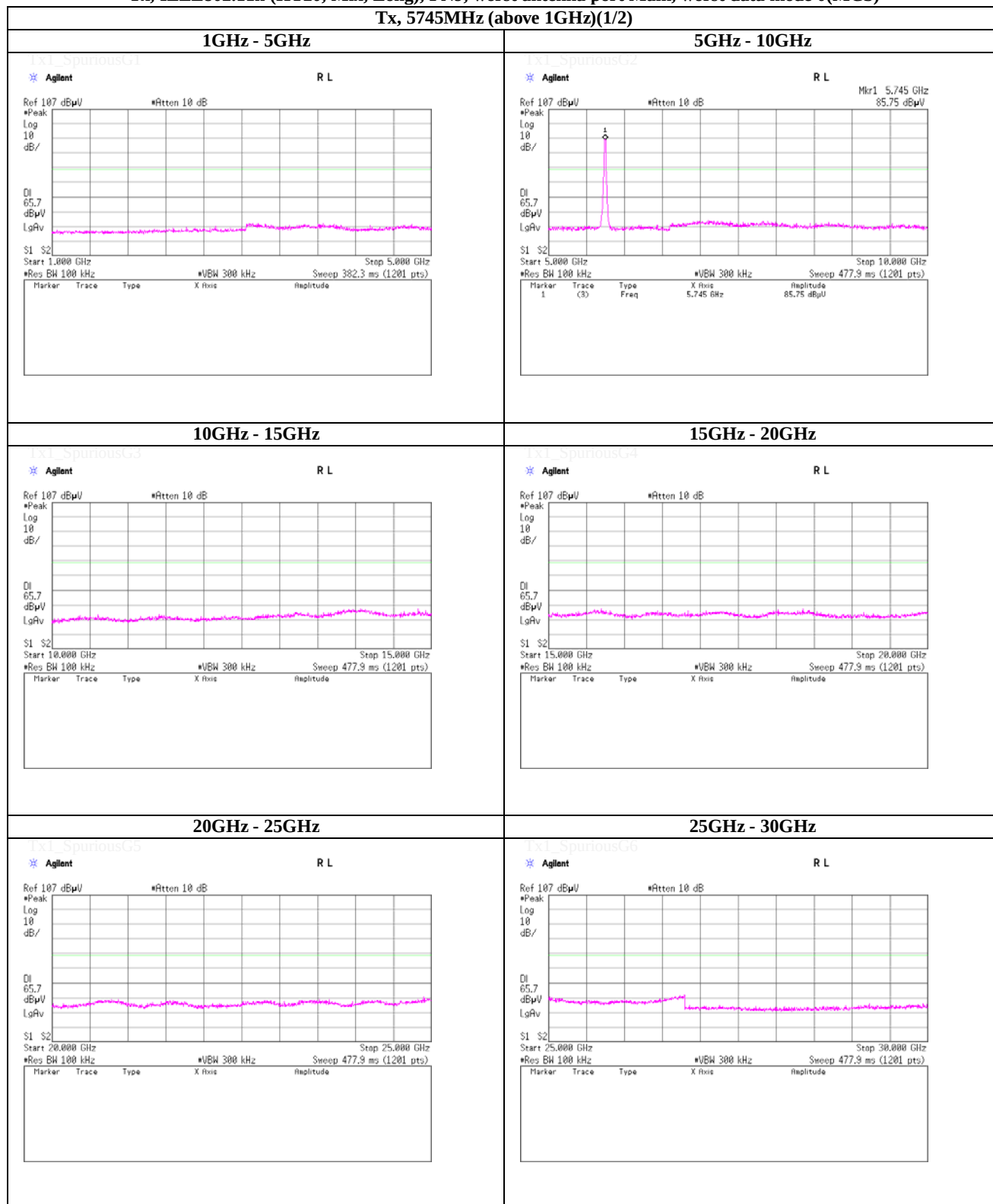
UL Japan, Inc.

Shonan EMC Lab.

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5745MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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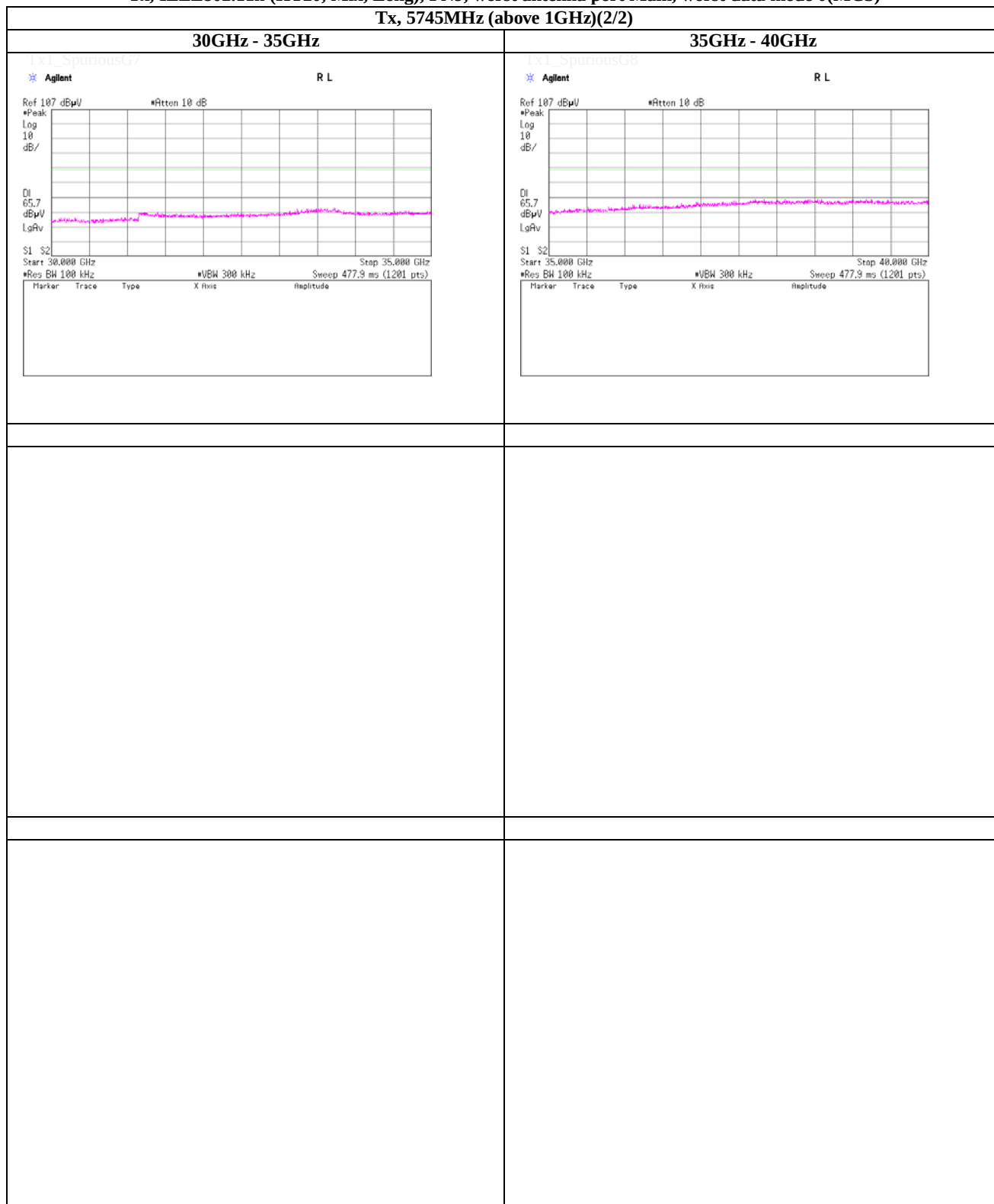
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)

Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)

Tx, 5745MHz (above 1GHz)(2/2)



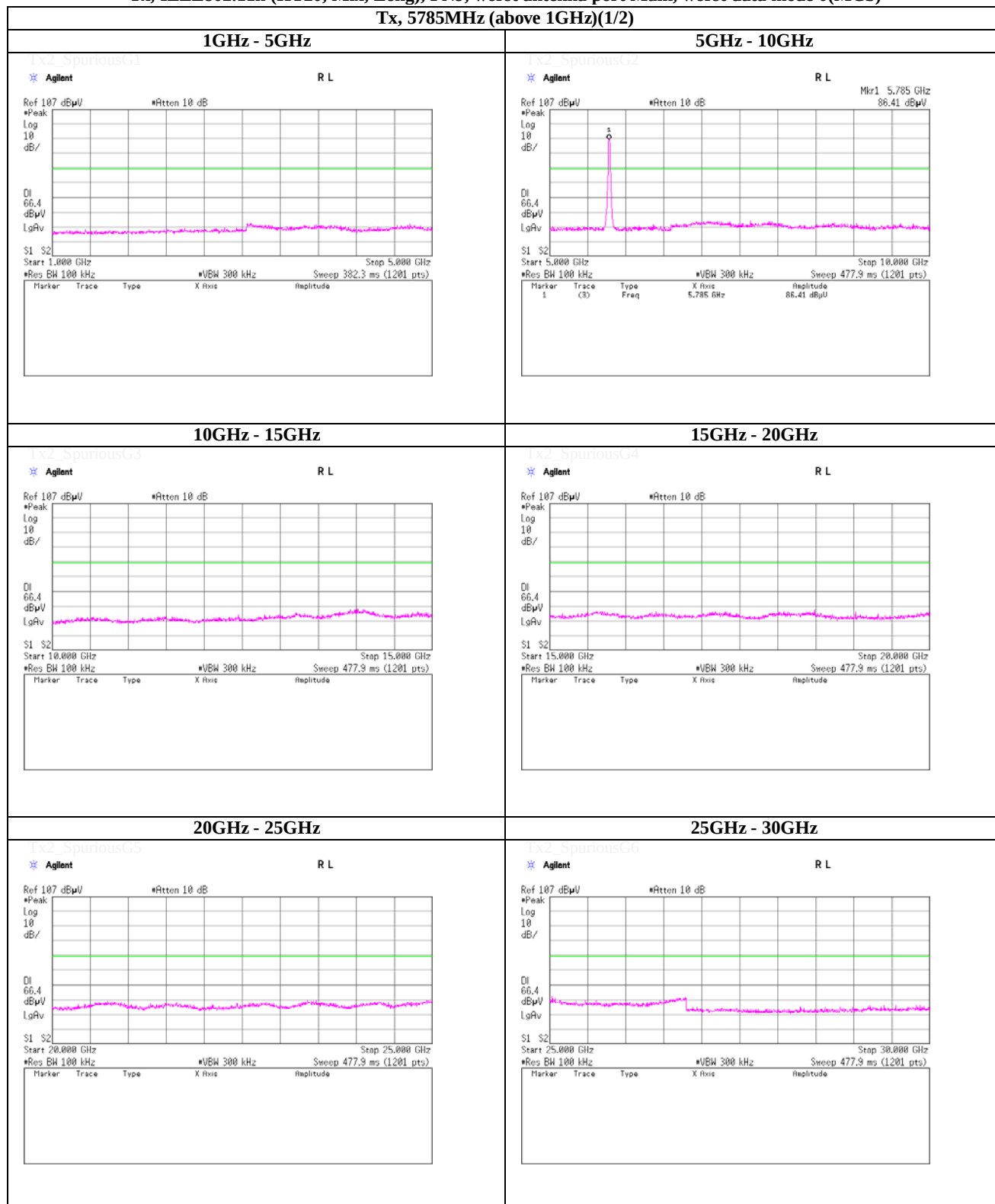
UL Japan, Inc.

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Telephone : +81 463 50 6400

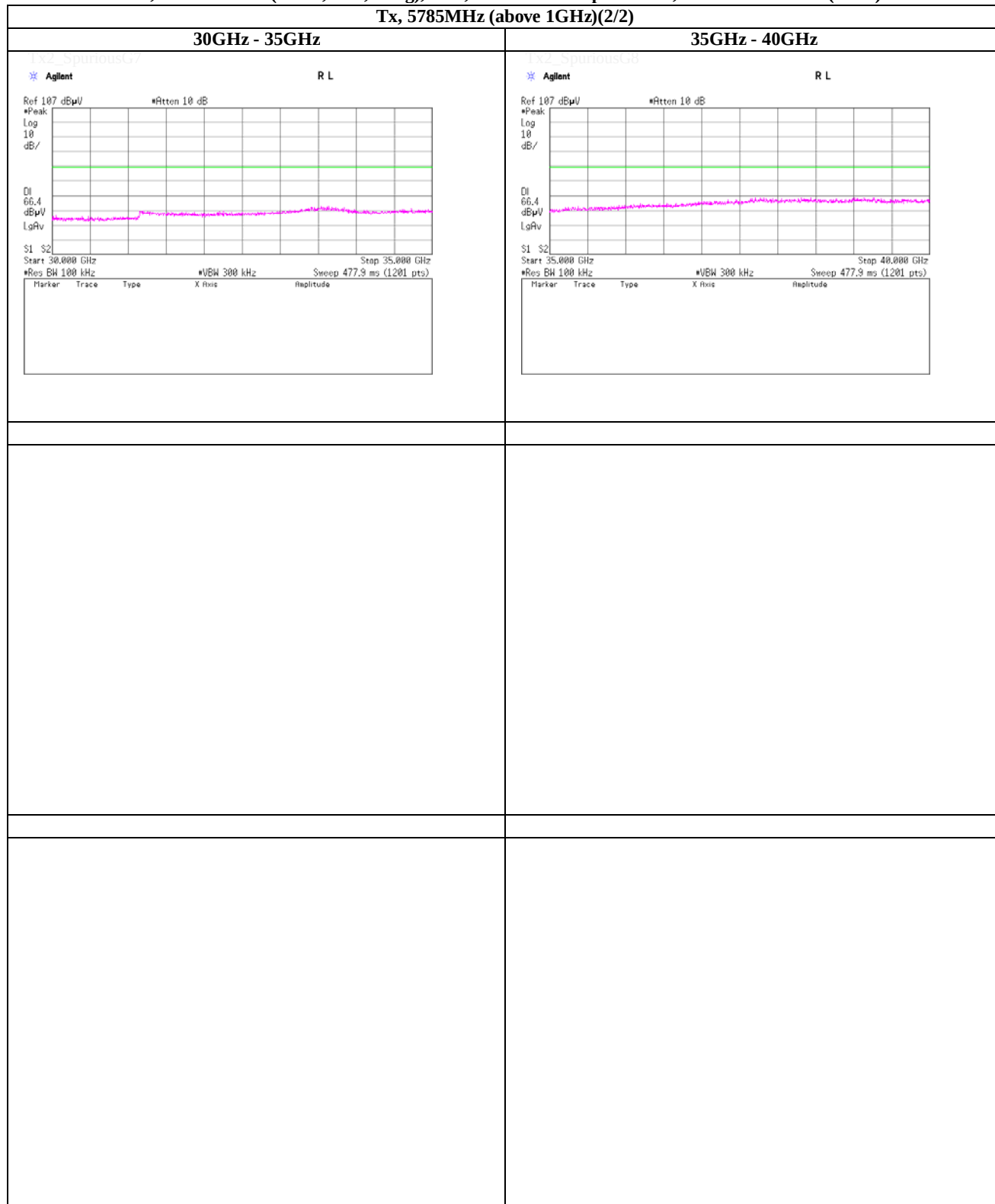
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5785MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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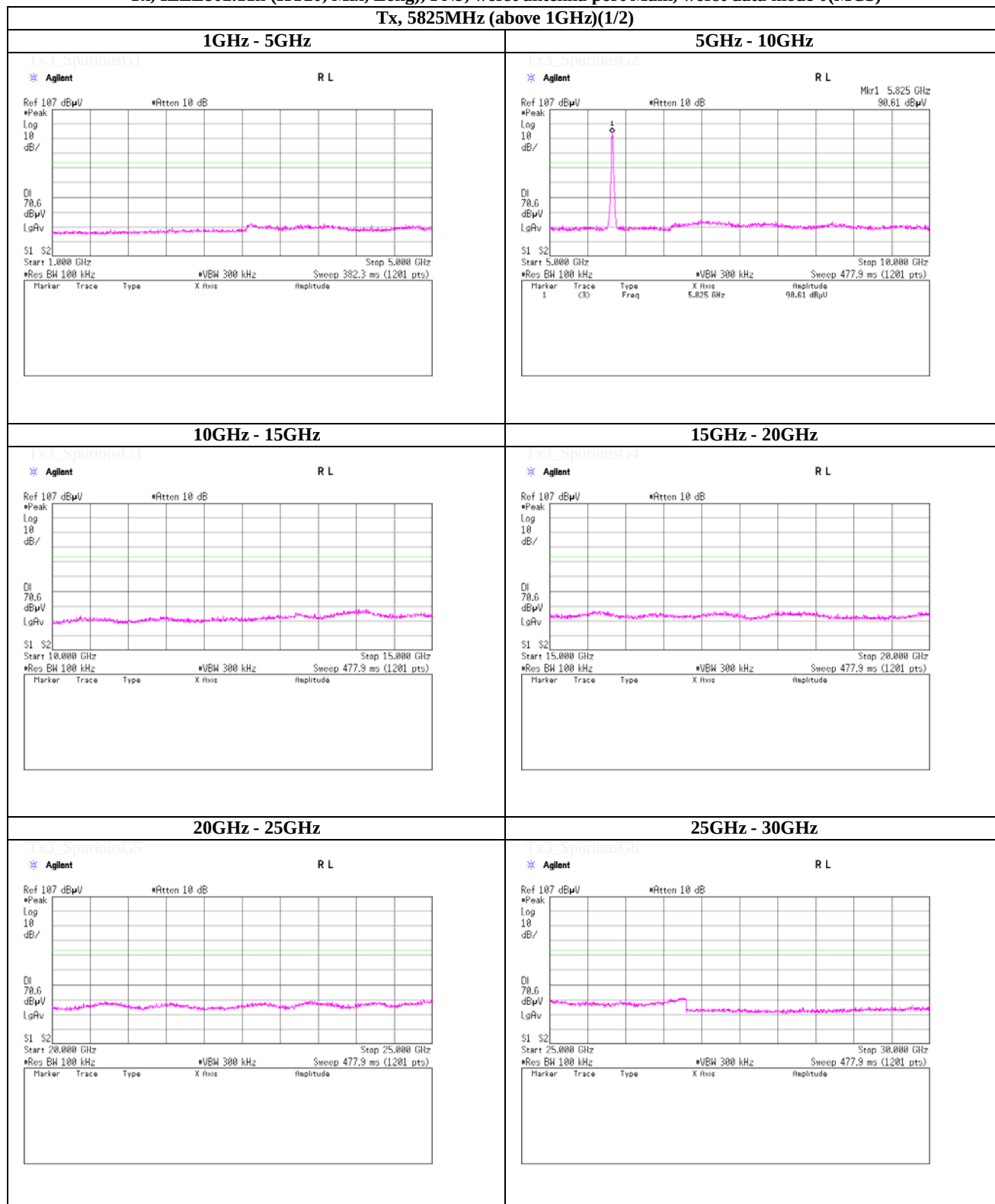
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5785MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5825MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5825MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

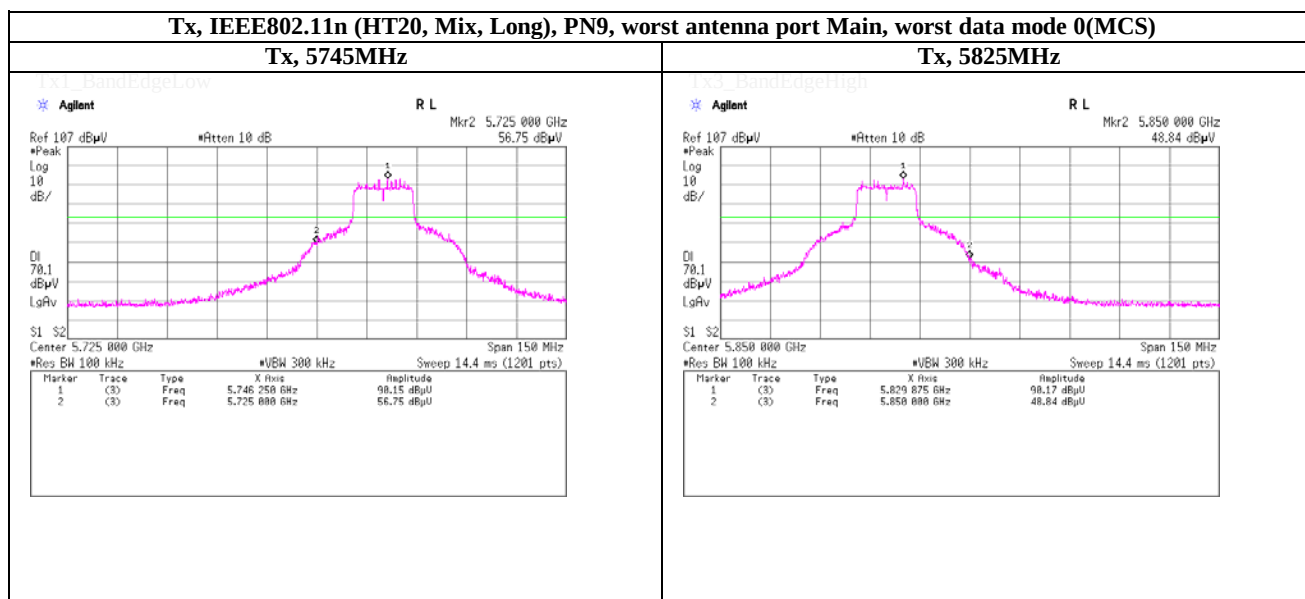
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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(Reference chart) Spurious emission (Conducted)

Band Edge compliance



UL Japan, Inc.

Shonan EMC Lab.

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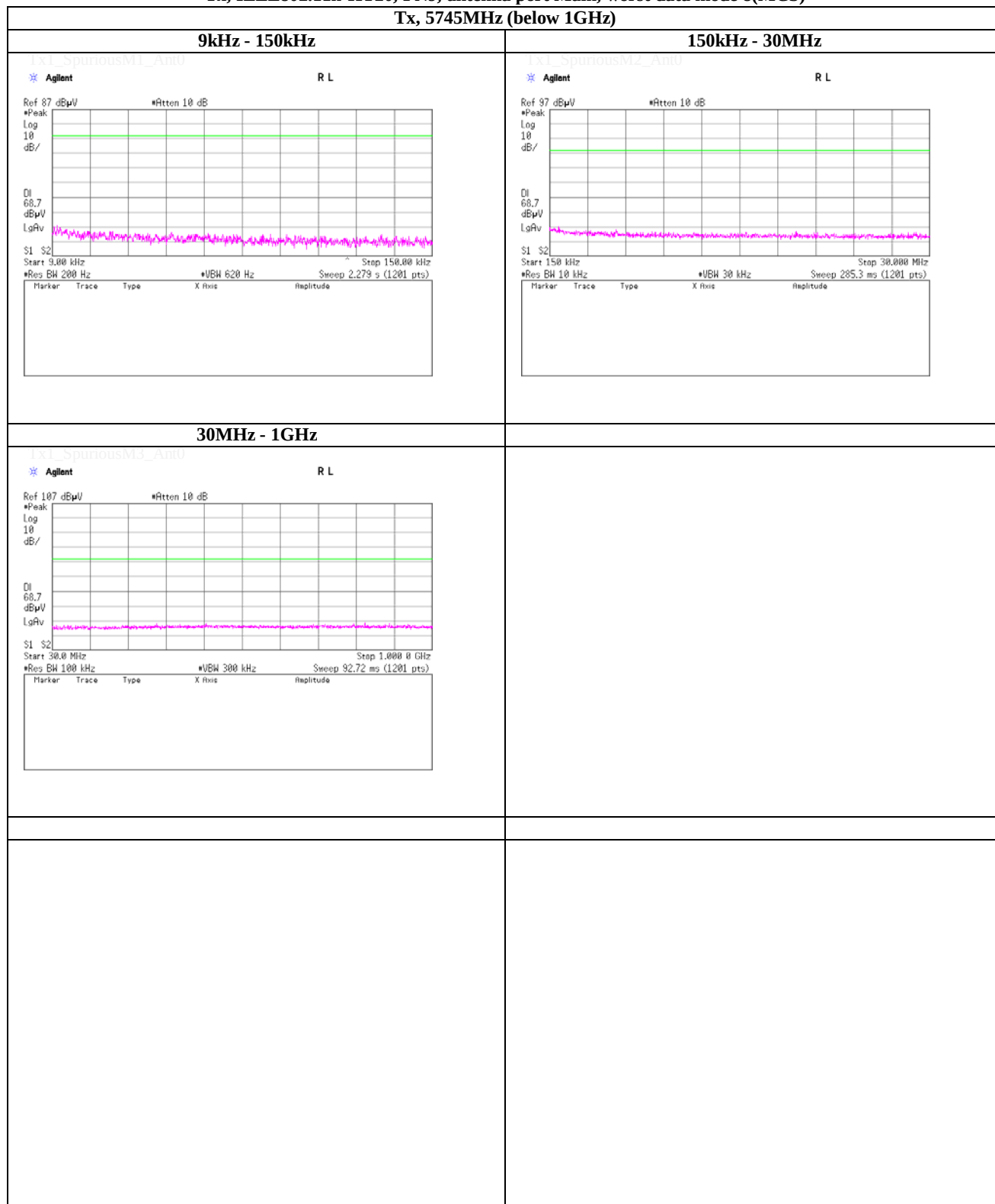
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(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5745MHz (below 1GHz)



UL Japan, Inc.

Shonan EMC Lab.

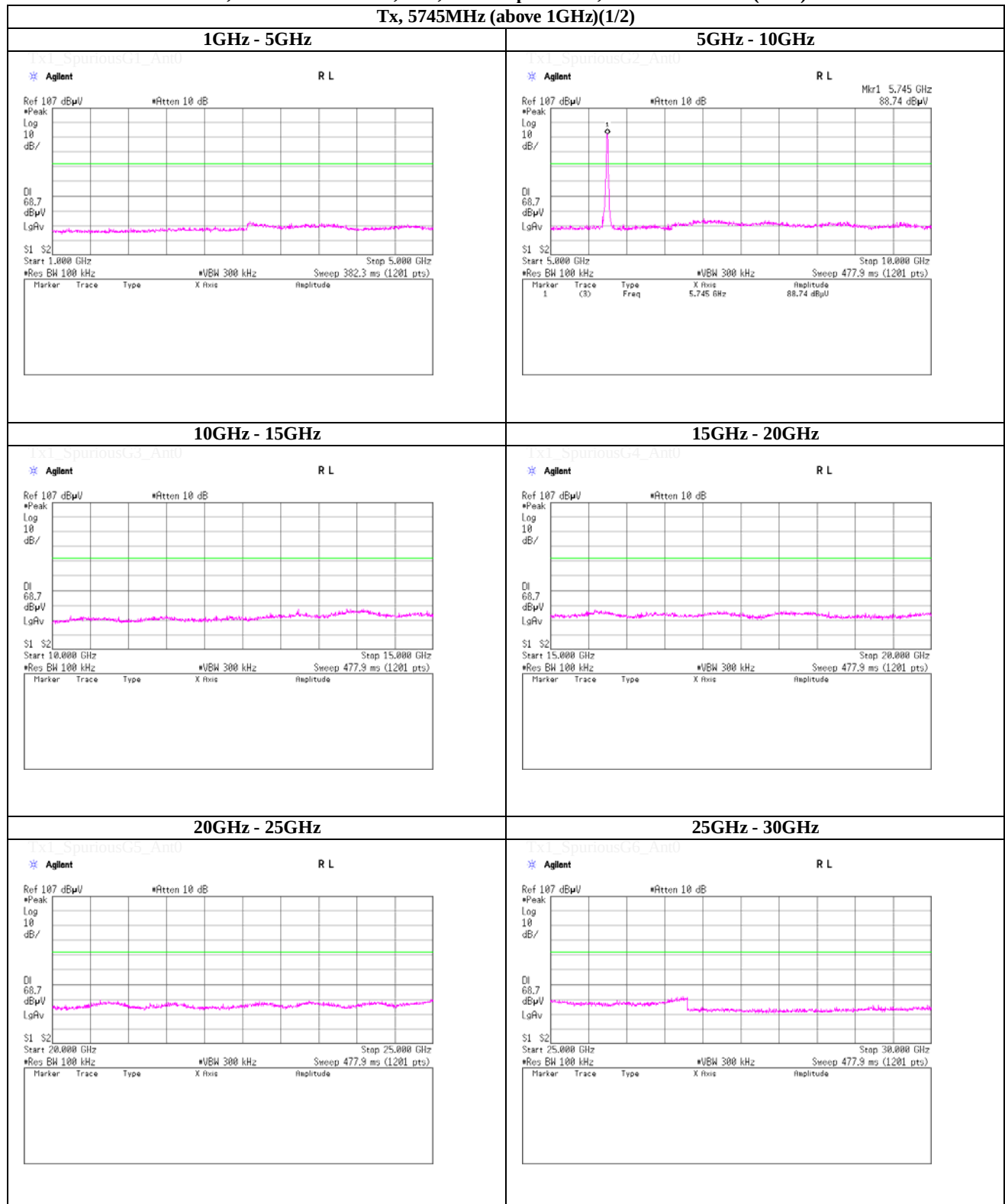
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)
Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5745MHz (above 1GHz)(1/2)



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(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5745MHz (above 1GHz)(2/2)

**UL Japan, Inc.****Shonan EMC Lab.**

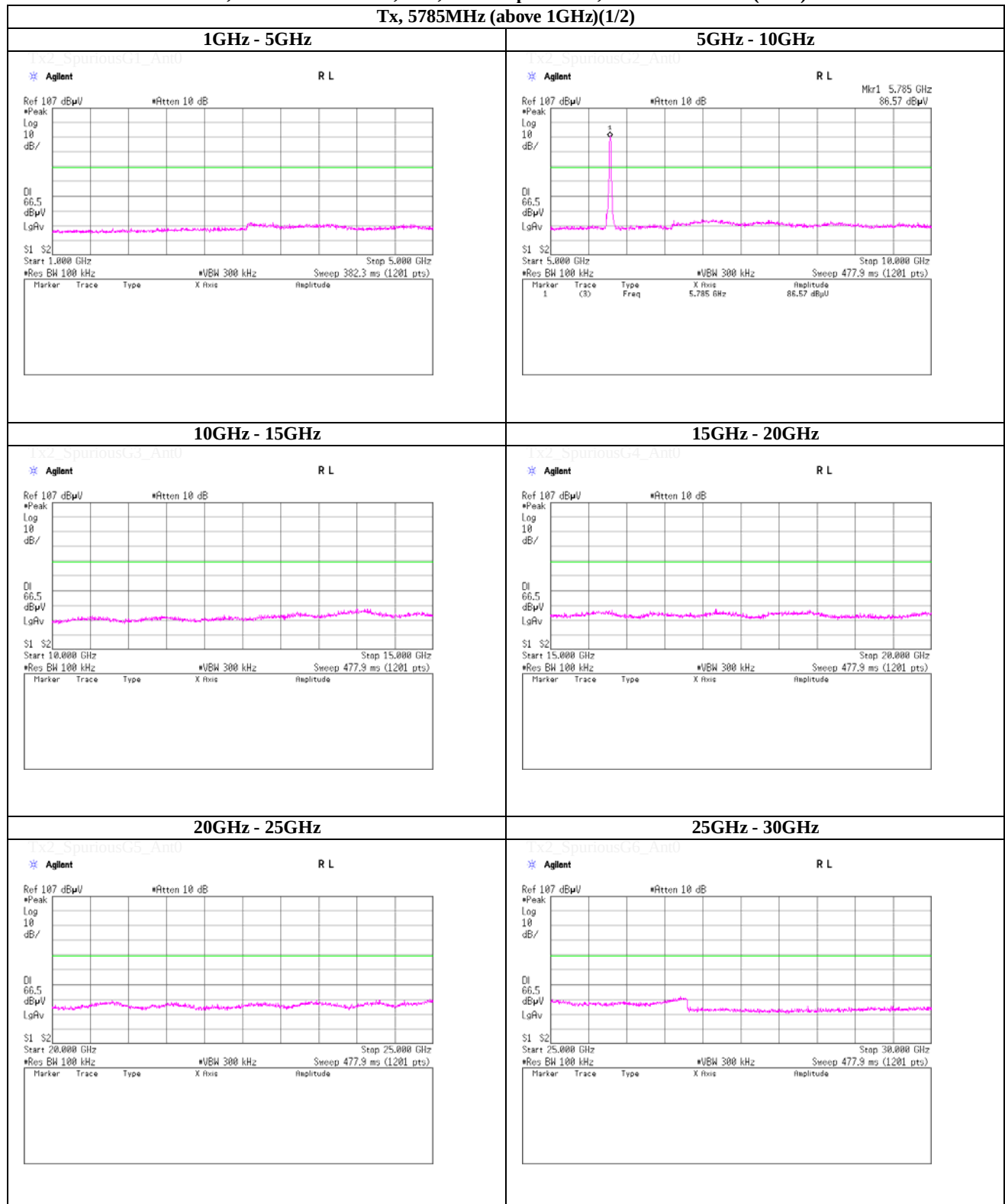
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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(Reference Chart) Spurious emission (Conducted)
Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5785MHz (above 1GHz)(1/2)



UL Japan, Inc.

Shonan EMC Lab.

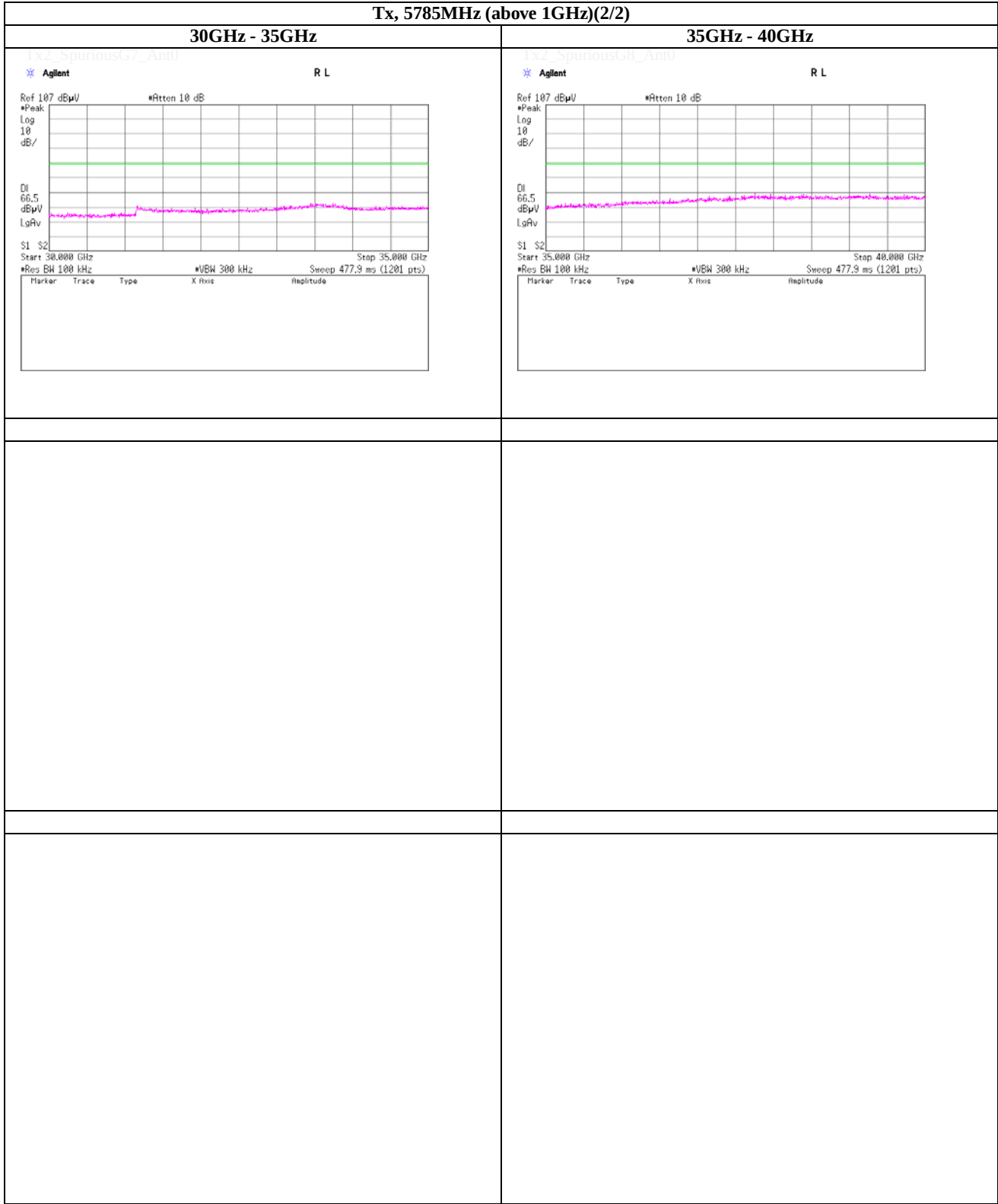
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)
Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

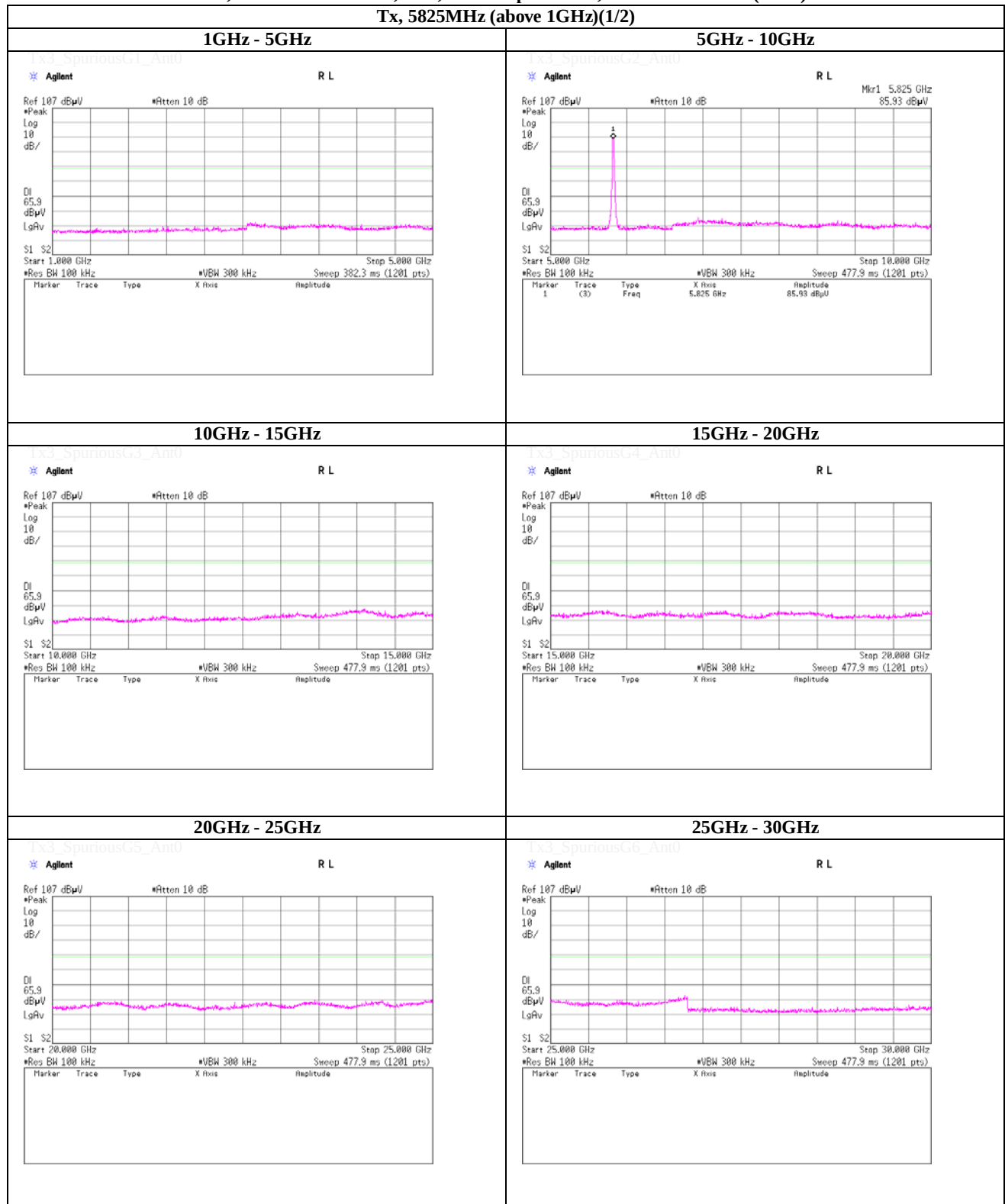
Tx, 5785MHz (above 1GHz)(2/2)



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(Reference Chart) Spurious emission (Conducted)
Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5825MHz (above 1GHz)(1/2)



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(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Main, worst data mode 8(MCS)

Tx, 5825MHz (above 1GHz)(2/2)

**UL Japan, Inc.****Shonan EMC Lab.**

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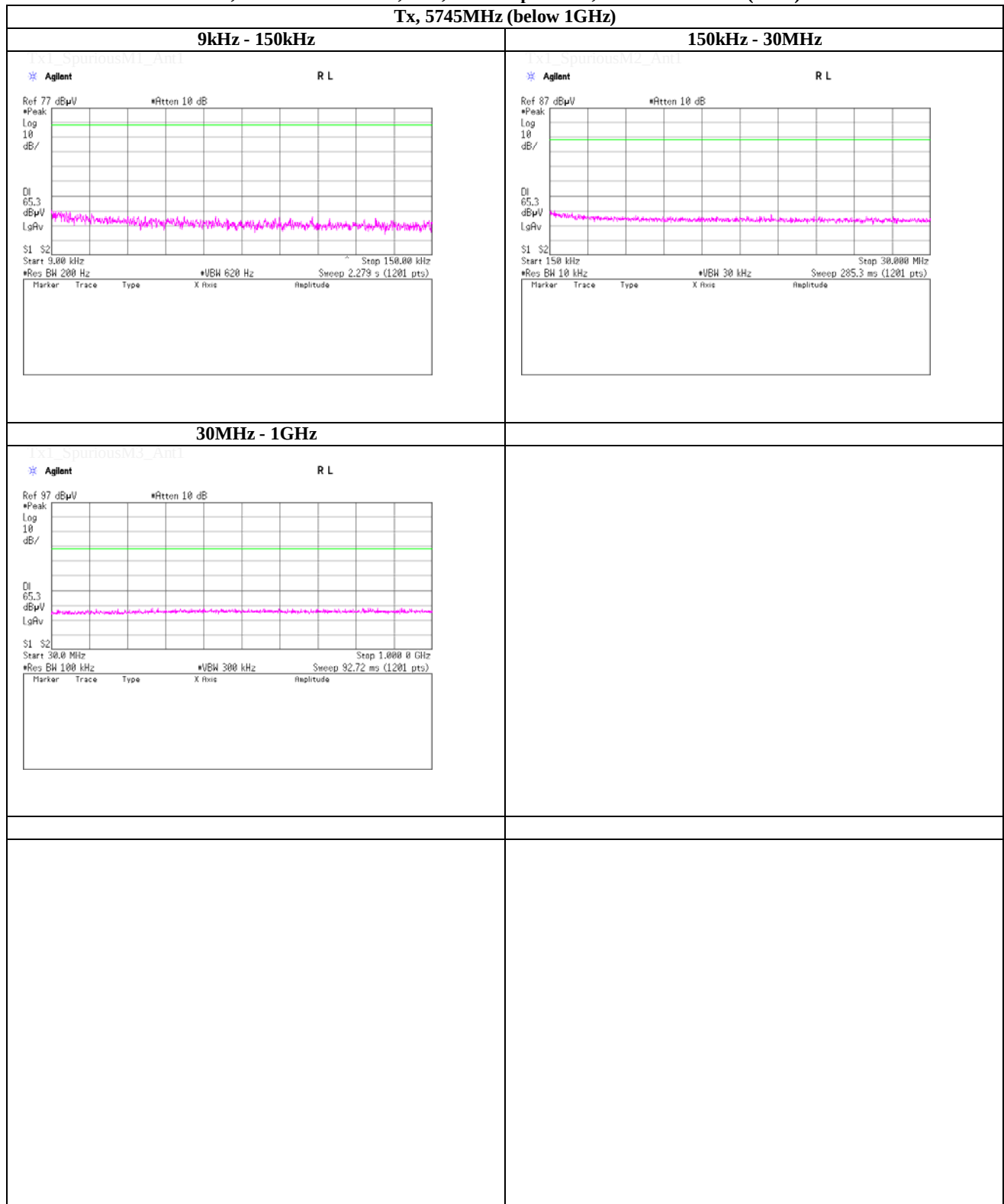
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)

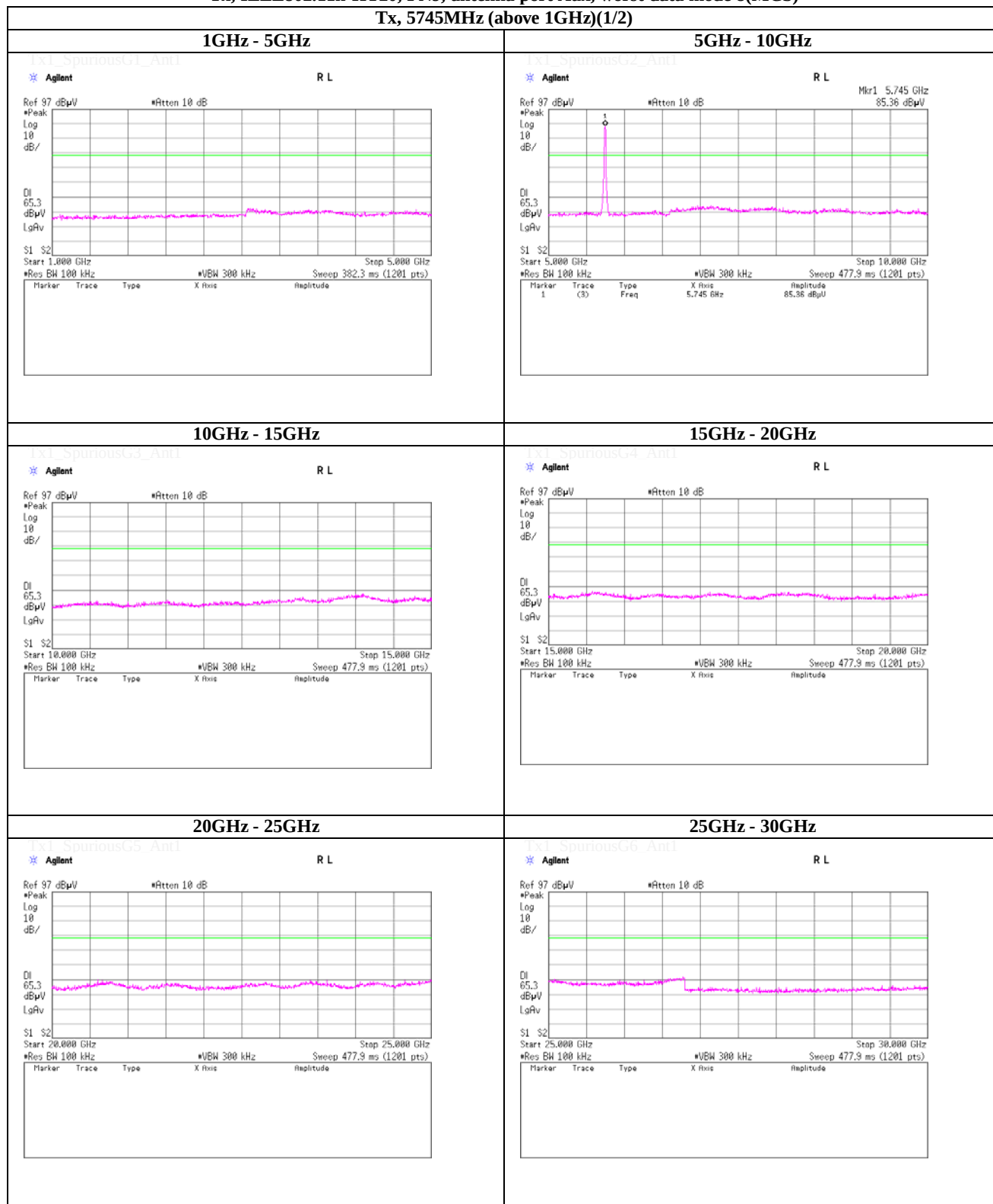
Tx, 5745MHz (below 1GHz)

**UL Japan, Inc.****Shonan EMC Lab.**

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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)**Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5745MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

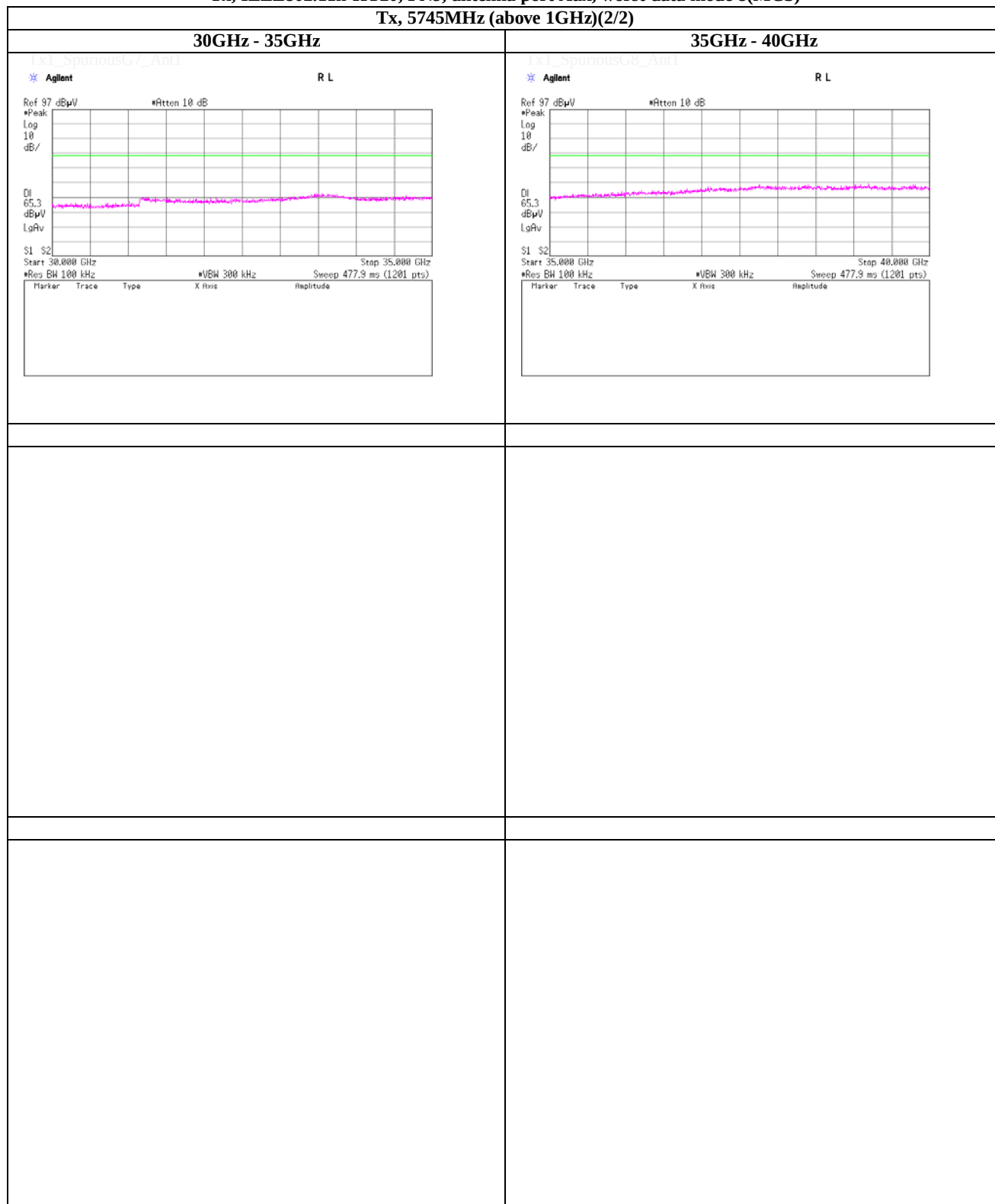
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)

Tx, 5745MHz (above 1GHz)(2/2)



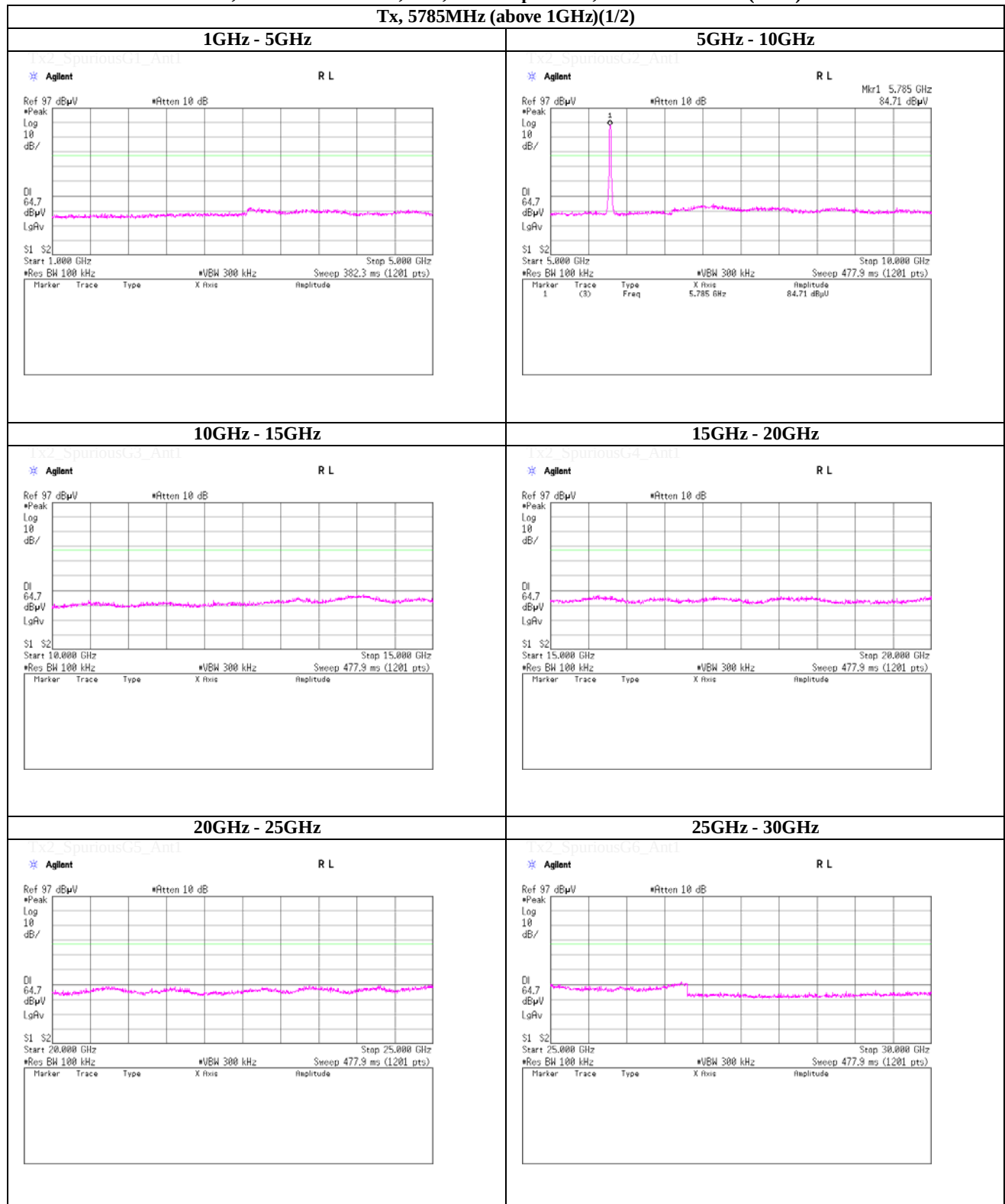
UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)**Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5785MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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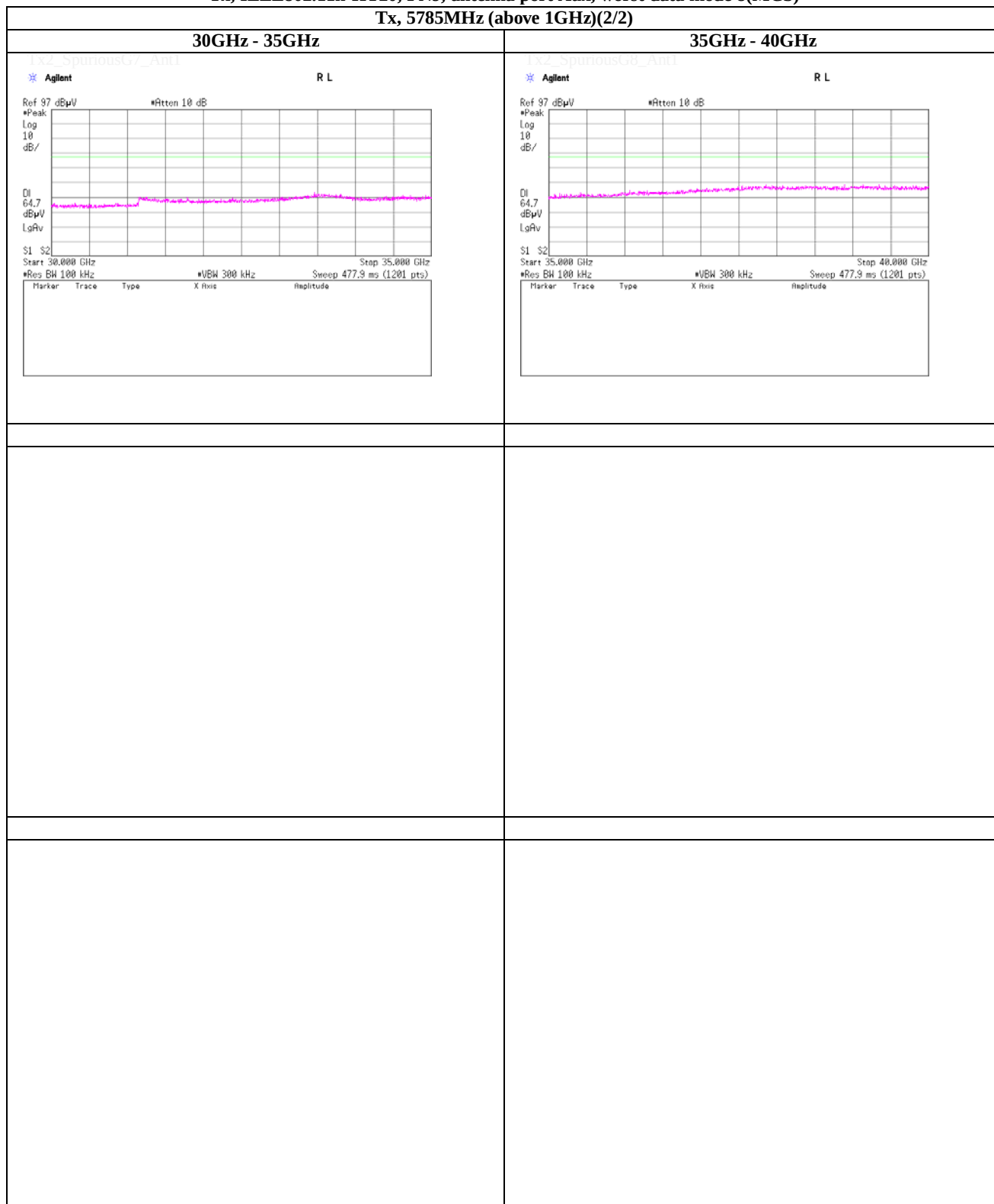
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)

Tx, 5785MHz (above 1GHz)(2/2)



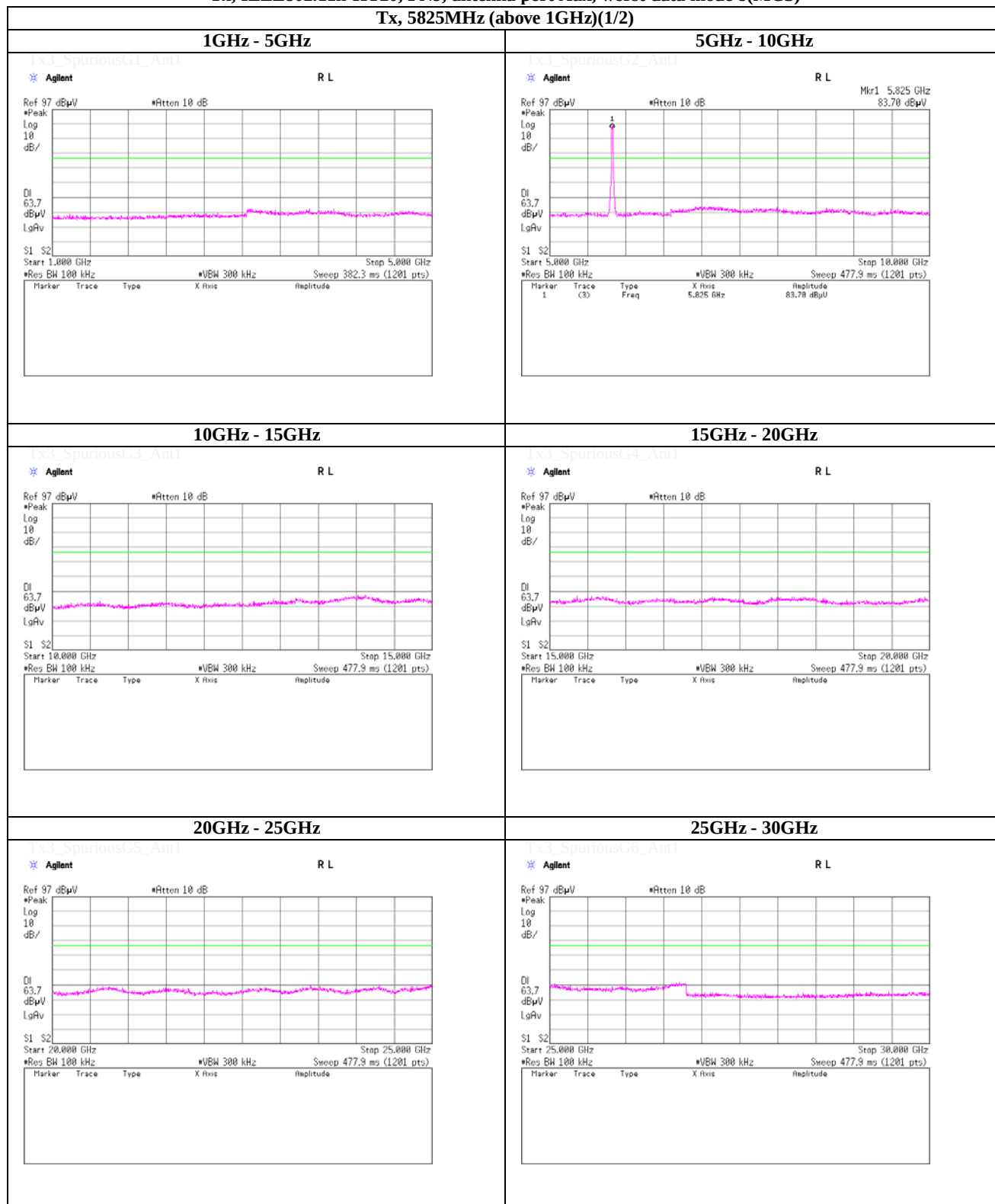
UL Japan, Inc.

Shonan EMC Lab.

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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)**Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5825MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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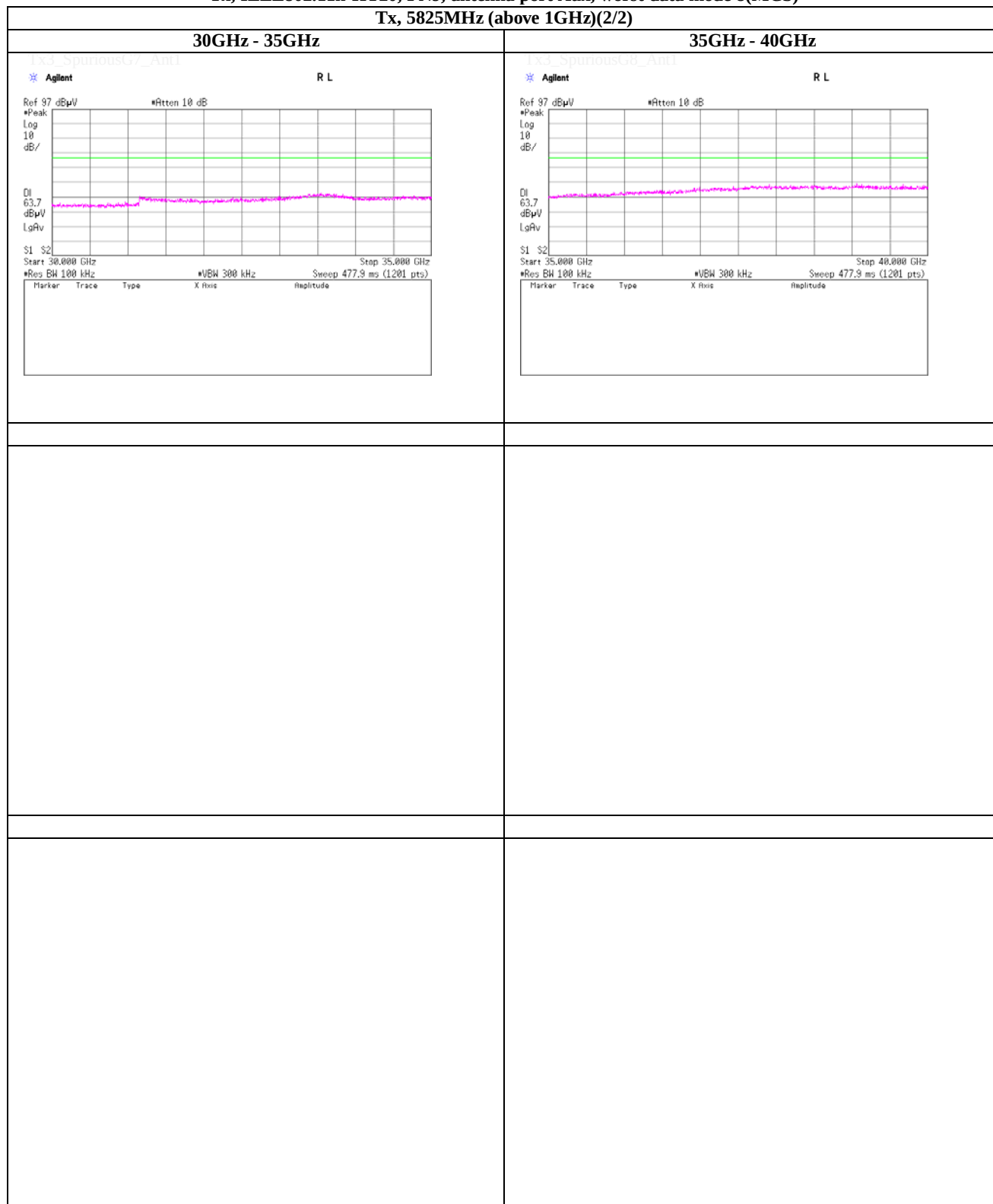
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)

Tx, IEEE802.11n-HT20, PN9, antenna port Aux, worst data mode 8(MCS)

Tx, 5825MHz (above 1GHz)(2/2)



UL Japan, Inc.

Shonan EMC Lab.

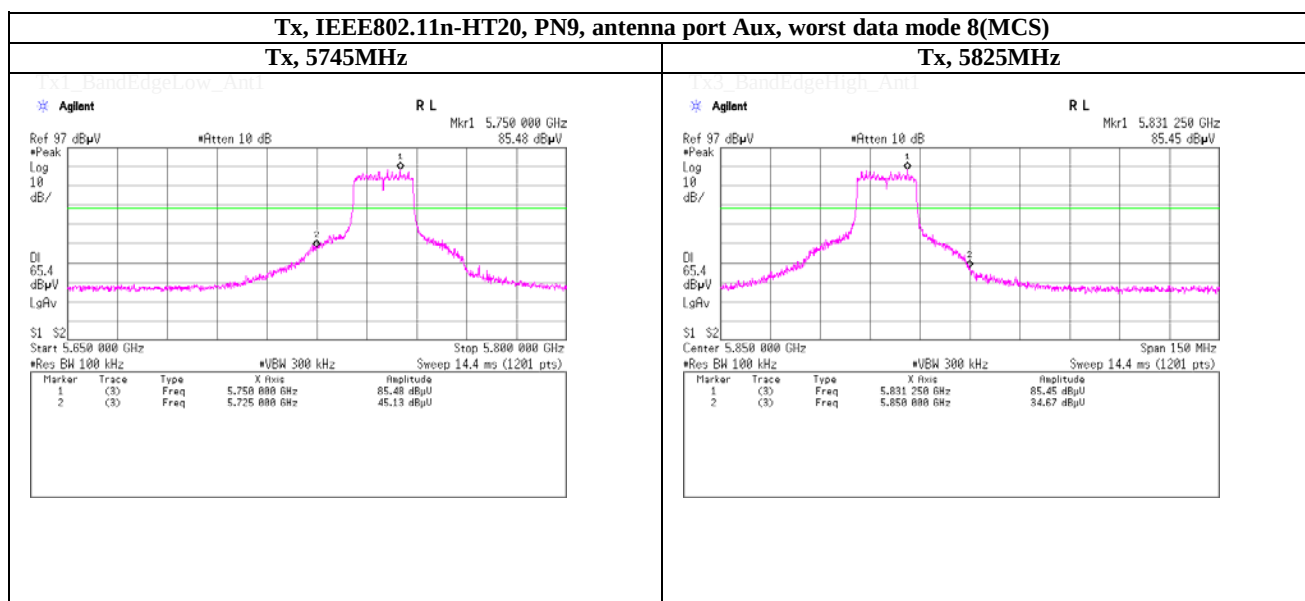
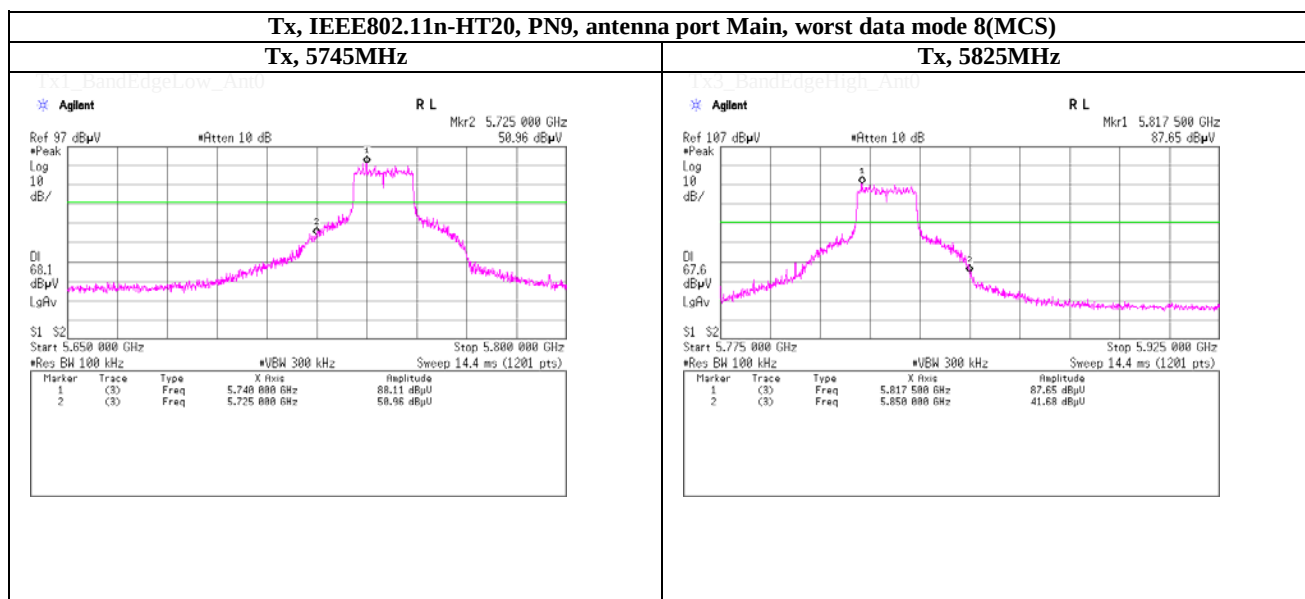
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference Chart) Spurious emission (Conducted)

Band Edge compliance



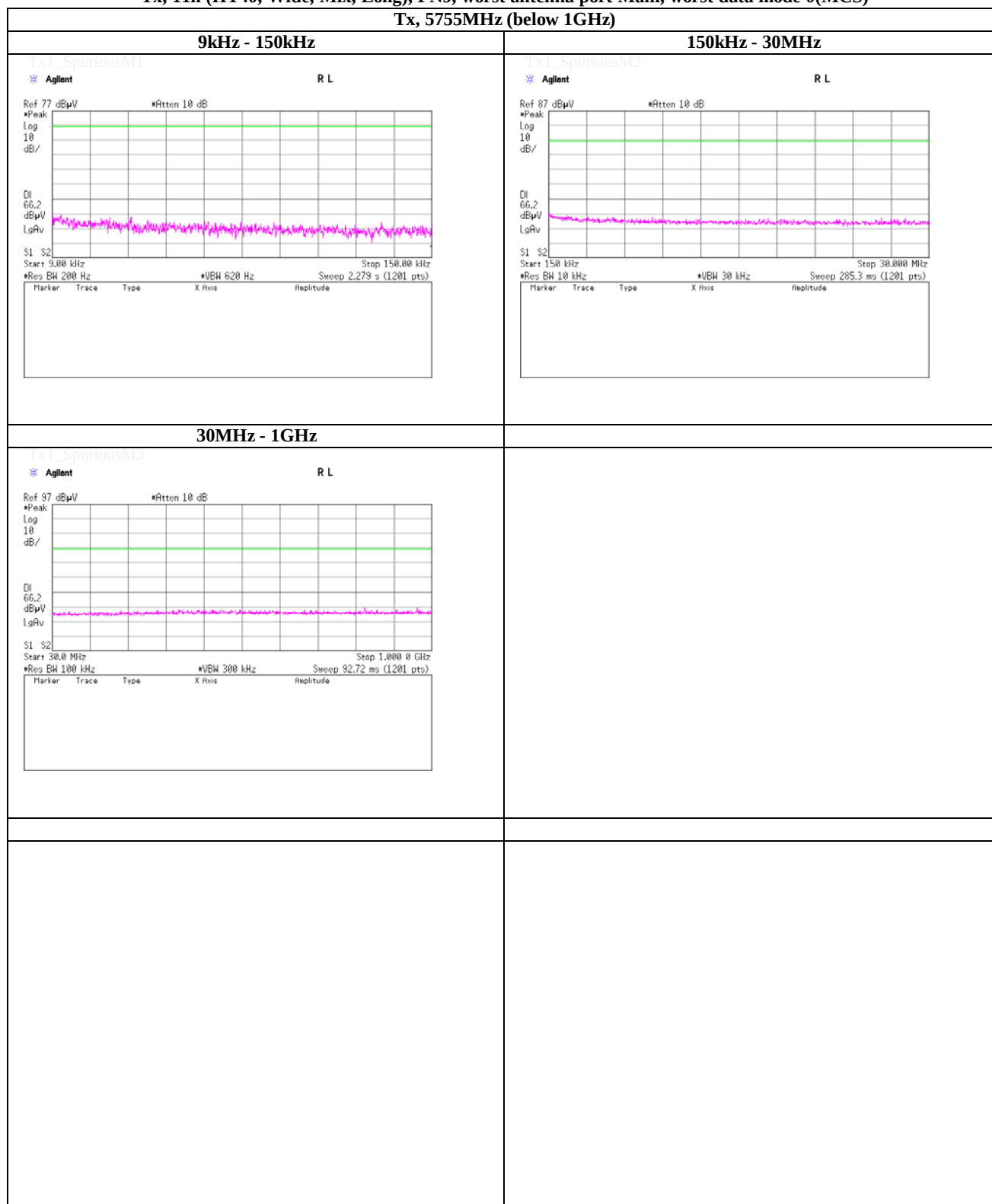
UL Japan, Inc.

Shonan EMC Lab.

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Telephone : +81 463 50 6400

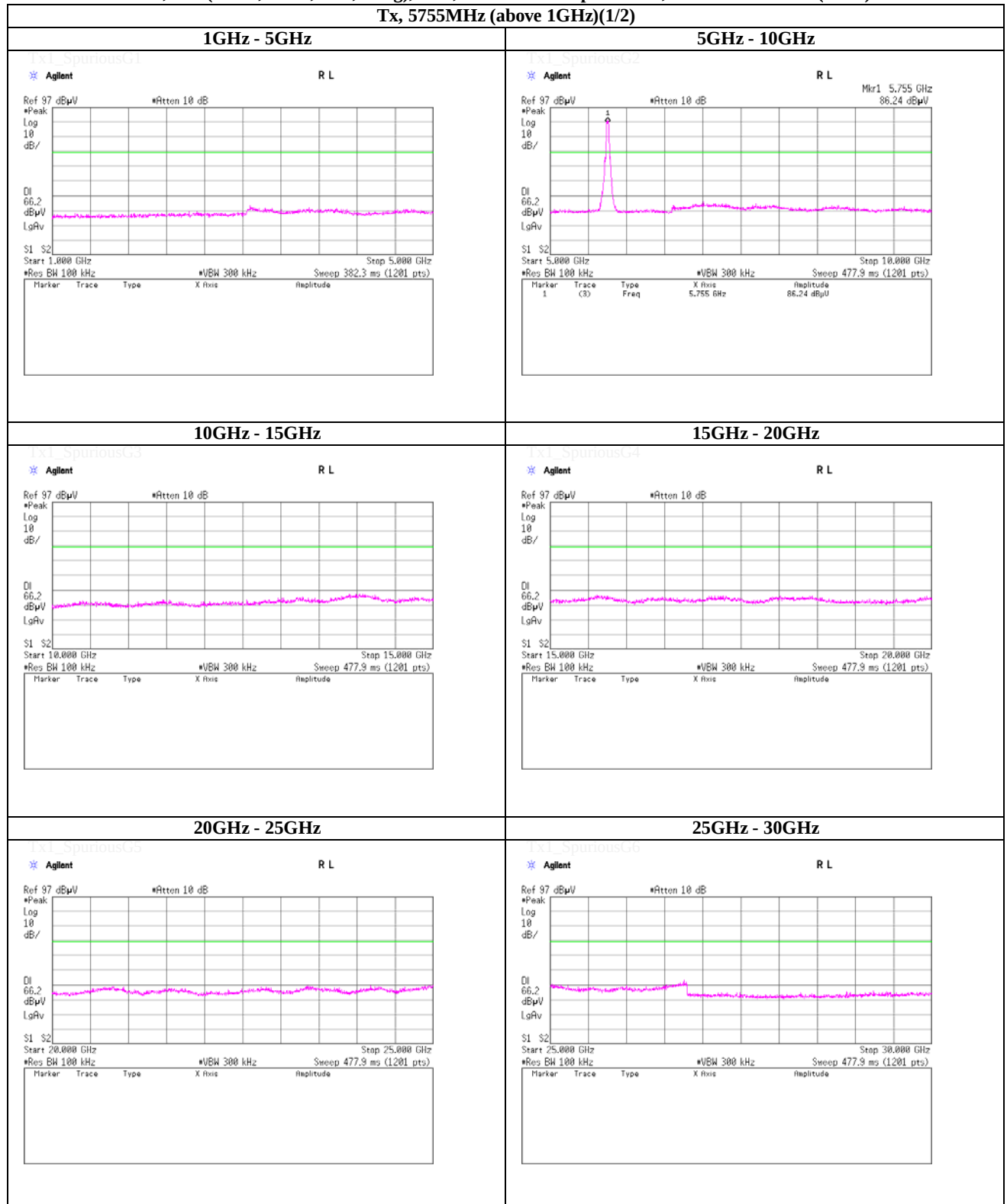
Facsimile : +81 463 50 6401

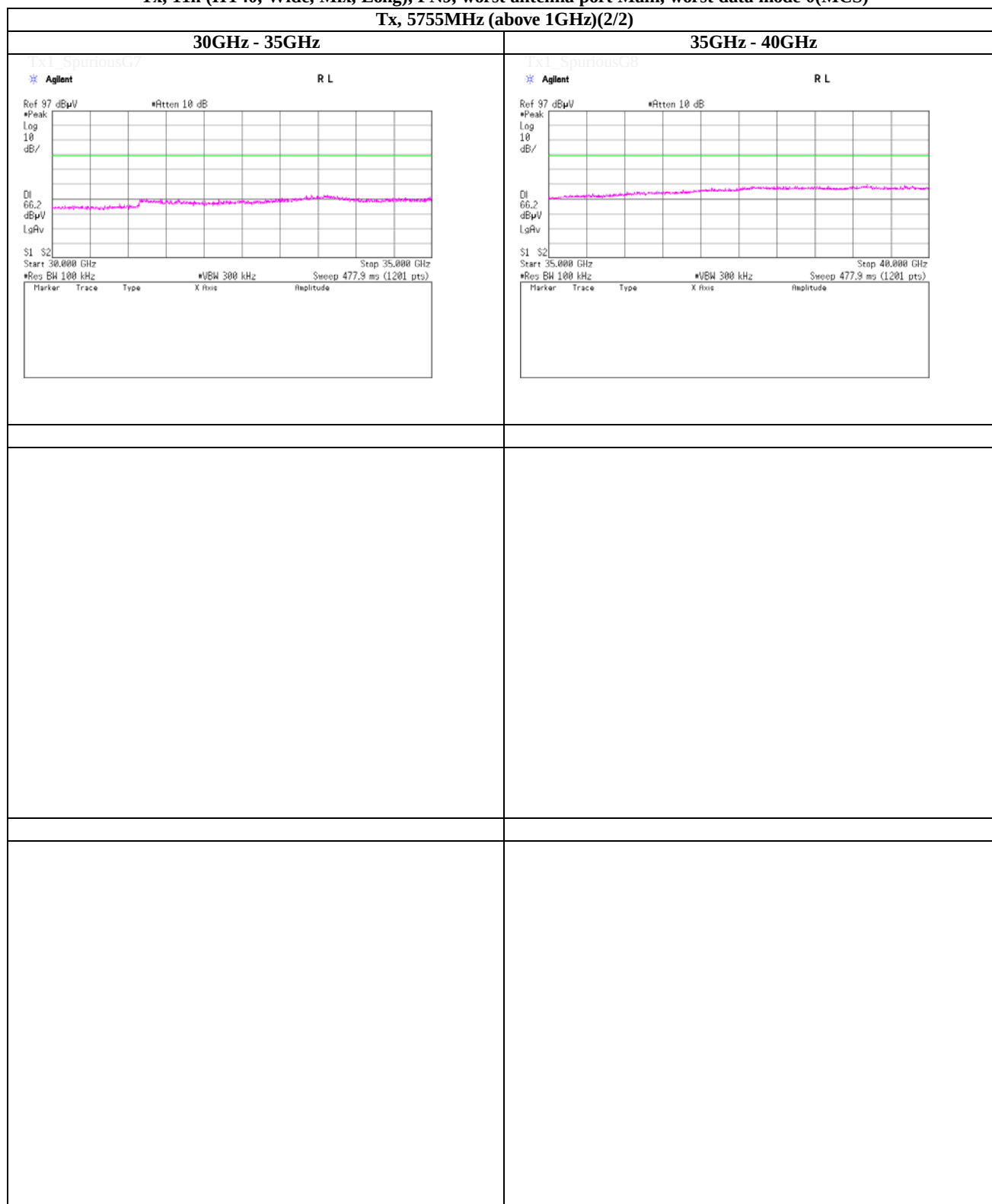
(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5755MHz (below 1GHz)****UL Japan, Inc.****Shonan EMC Lab.**

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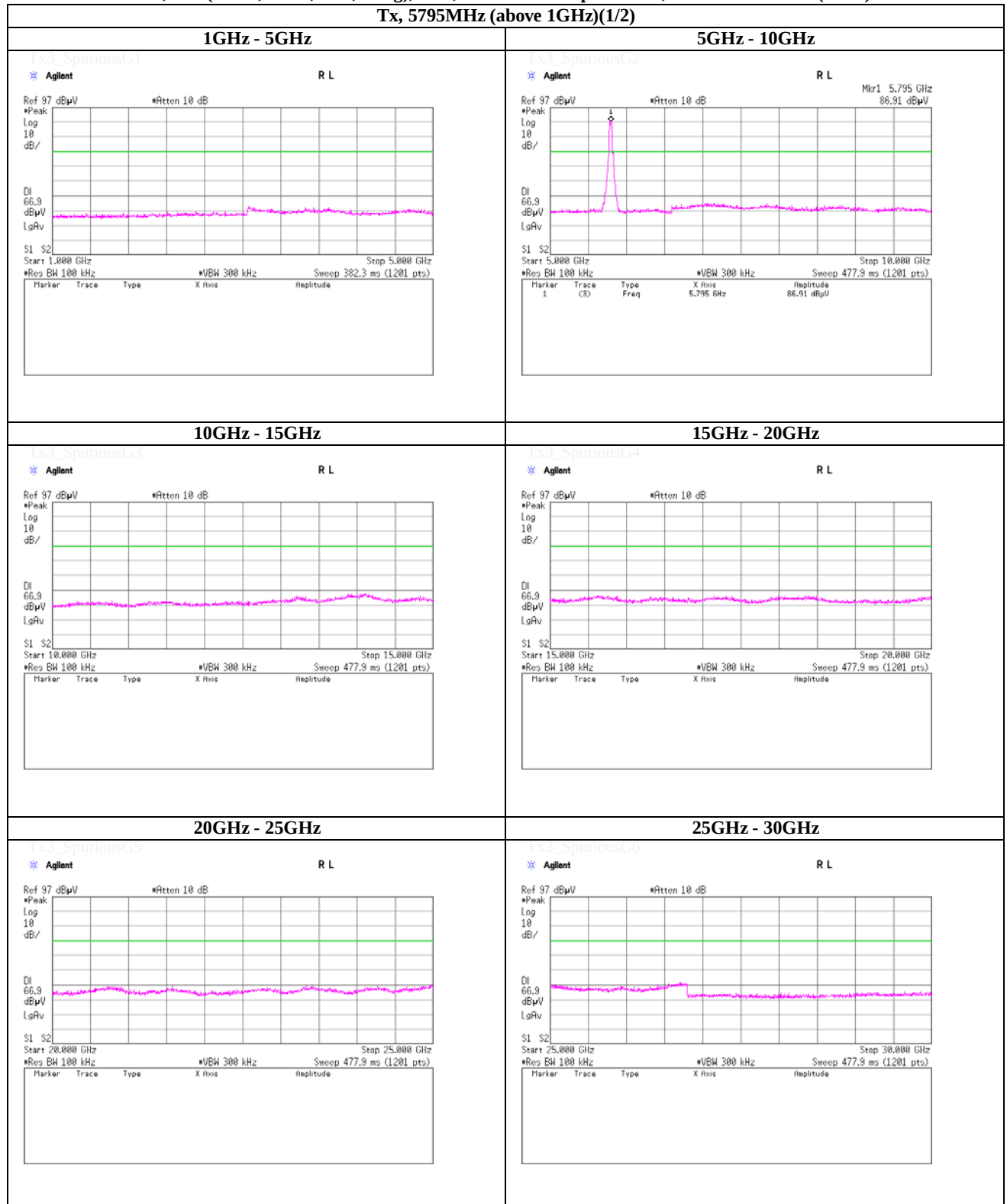
(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5755MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

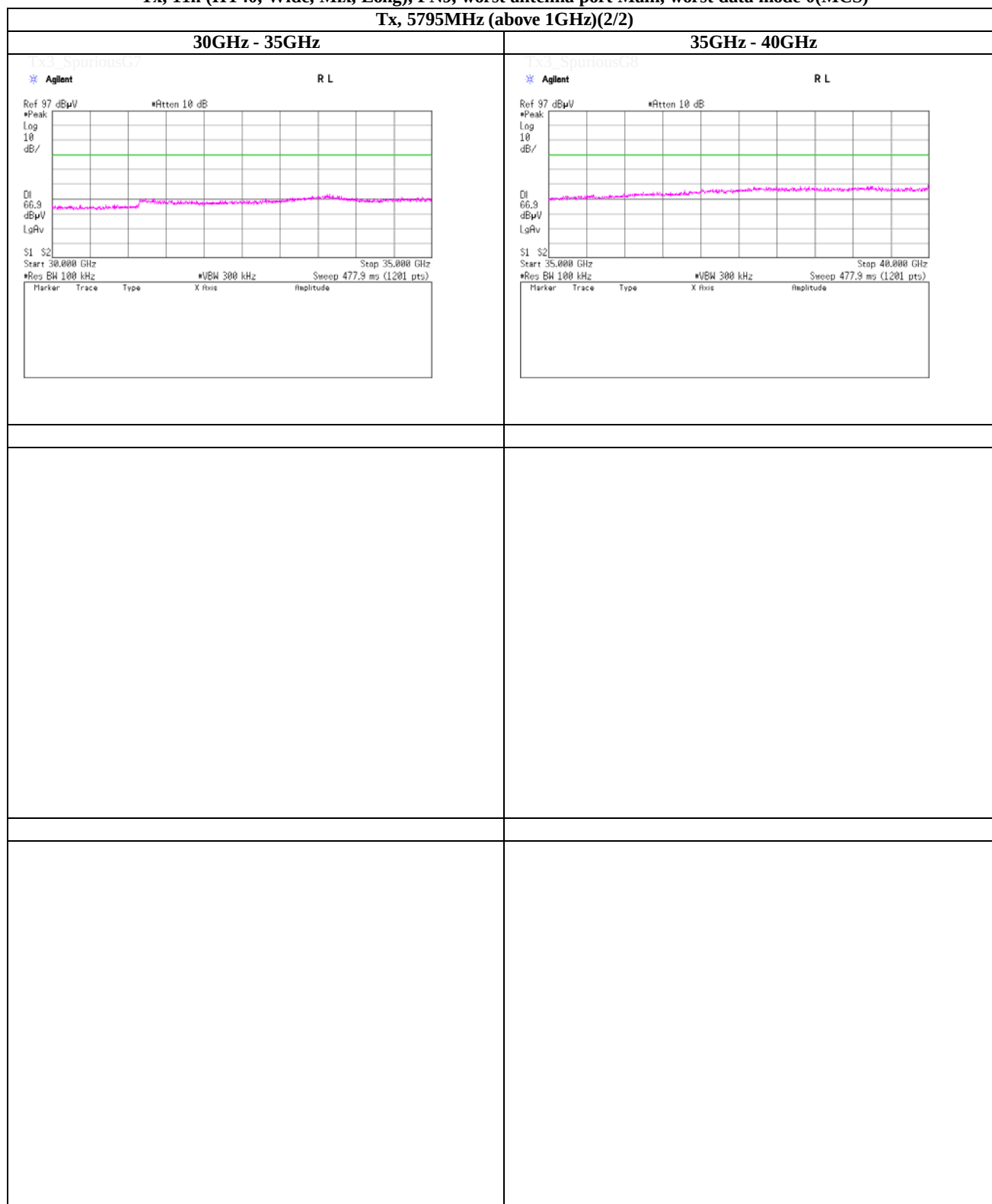
(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5755MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5795MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5795MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

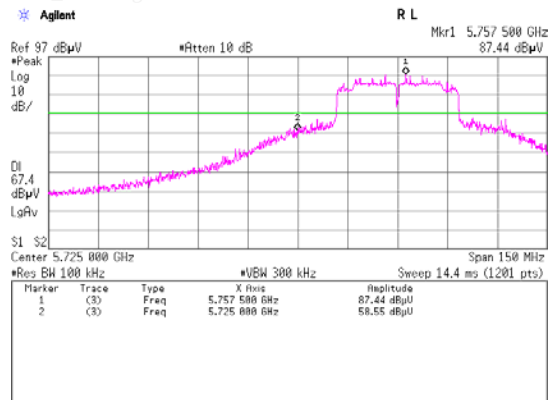
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

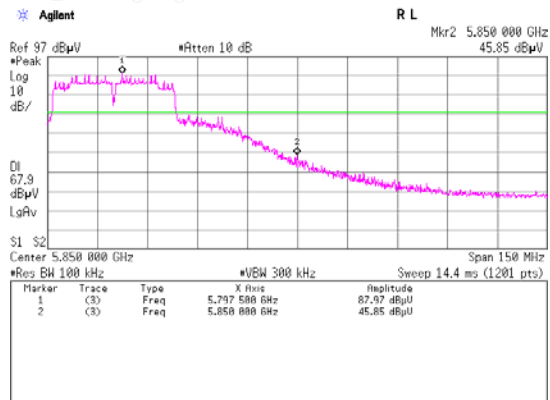
Facsimile : +81 463 50 6401

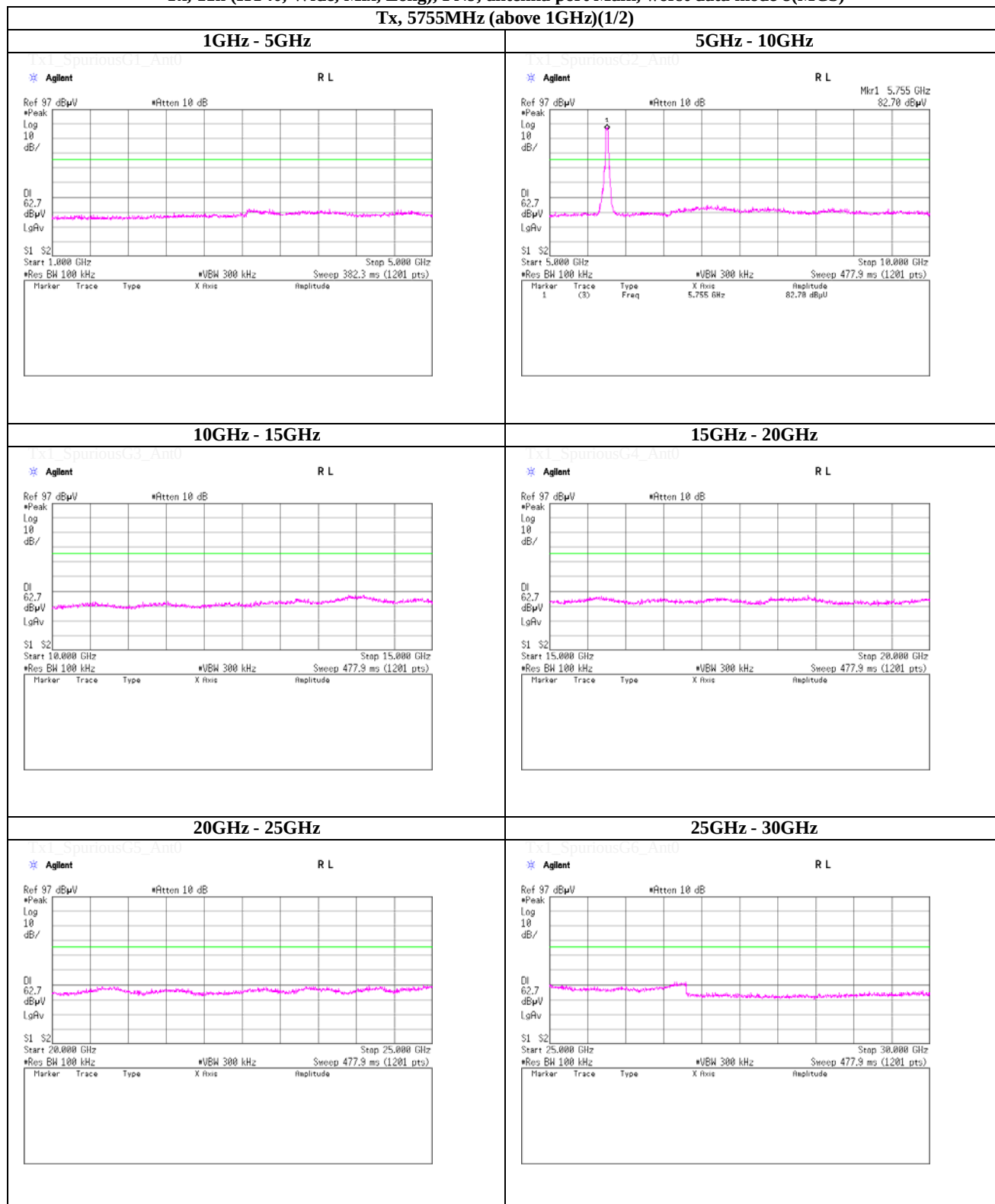
(Reference chart) Spurious emission (Conducted)**Band Edge compliance****Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)****Tx, 5755MHz**

Tx1_BandEdgeLow

**Tx, 5795MHz**

Tx3_BandEdgeHigh

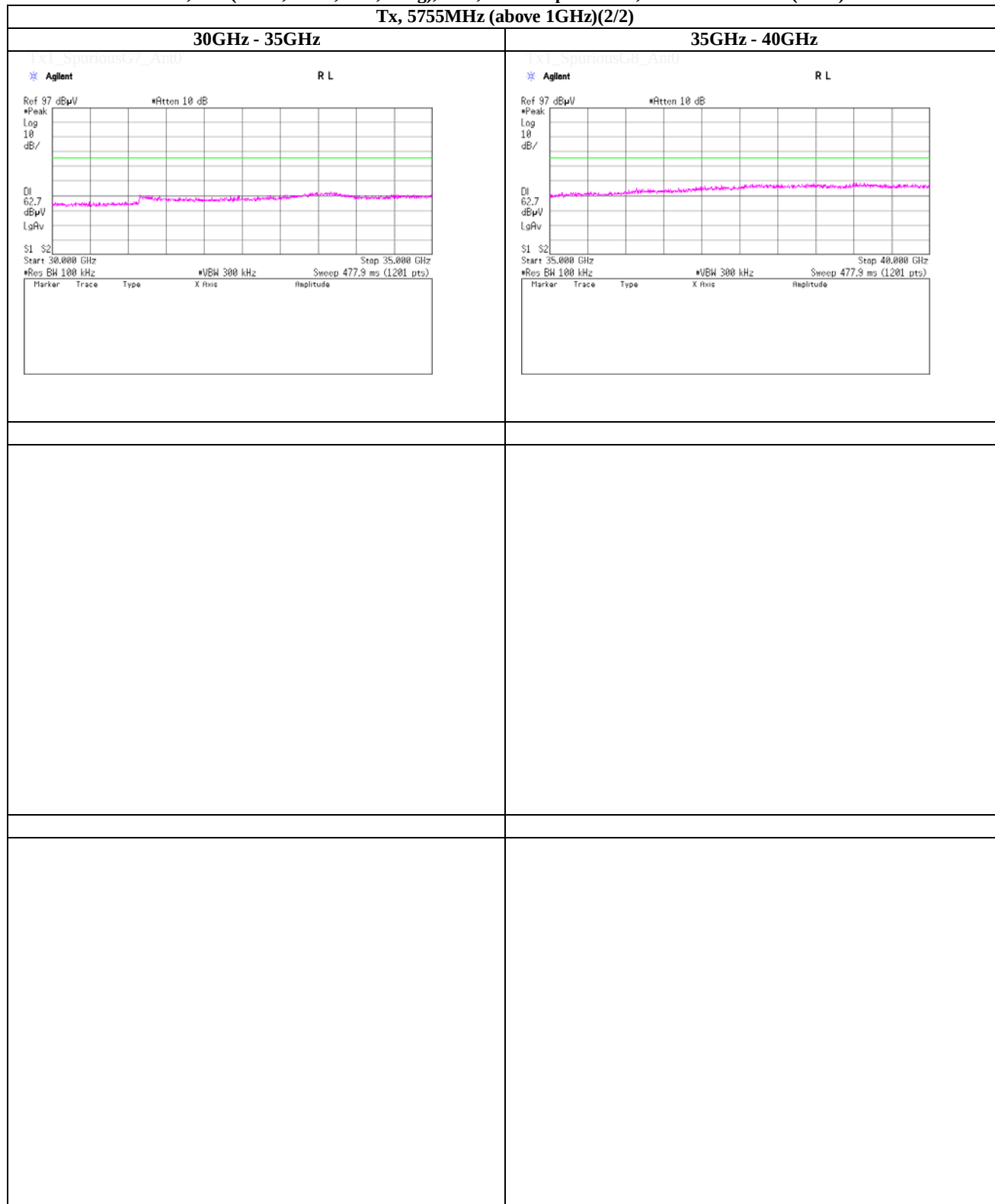
**UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 5755MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Telephone : +81 463 50 6400

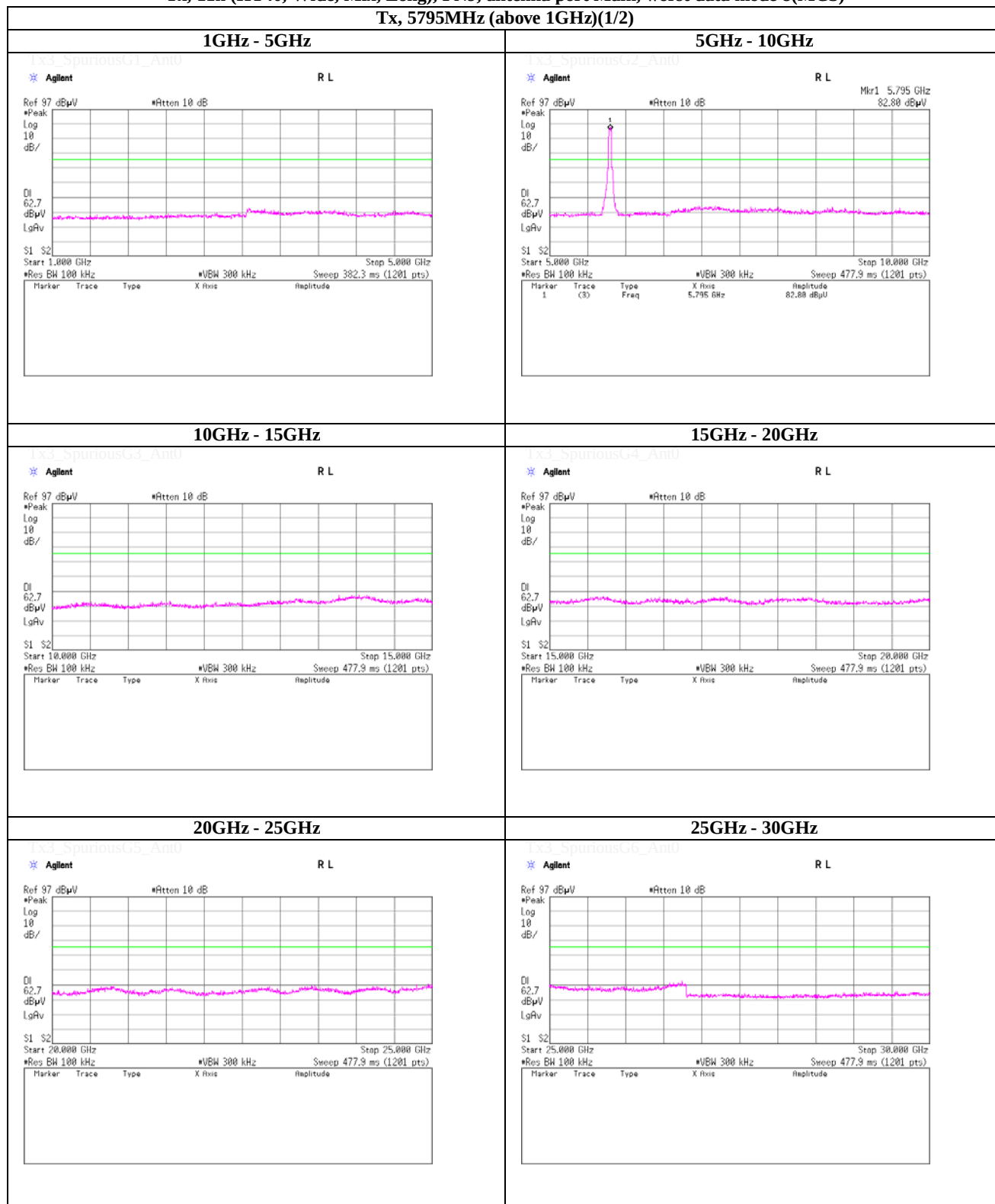
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 5755MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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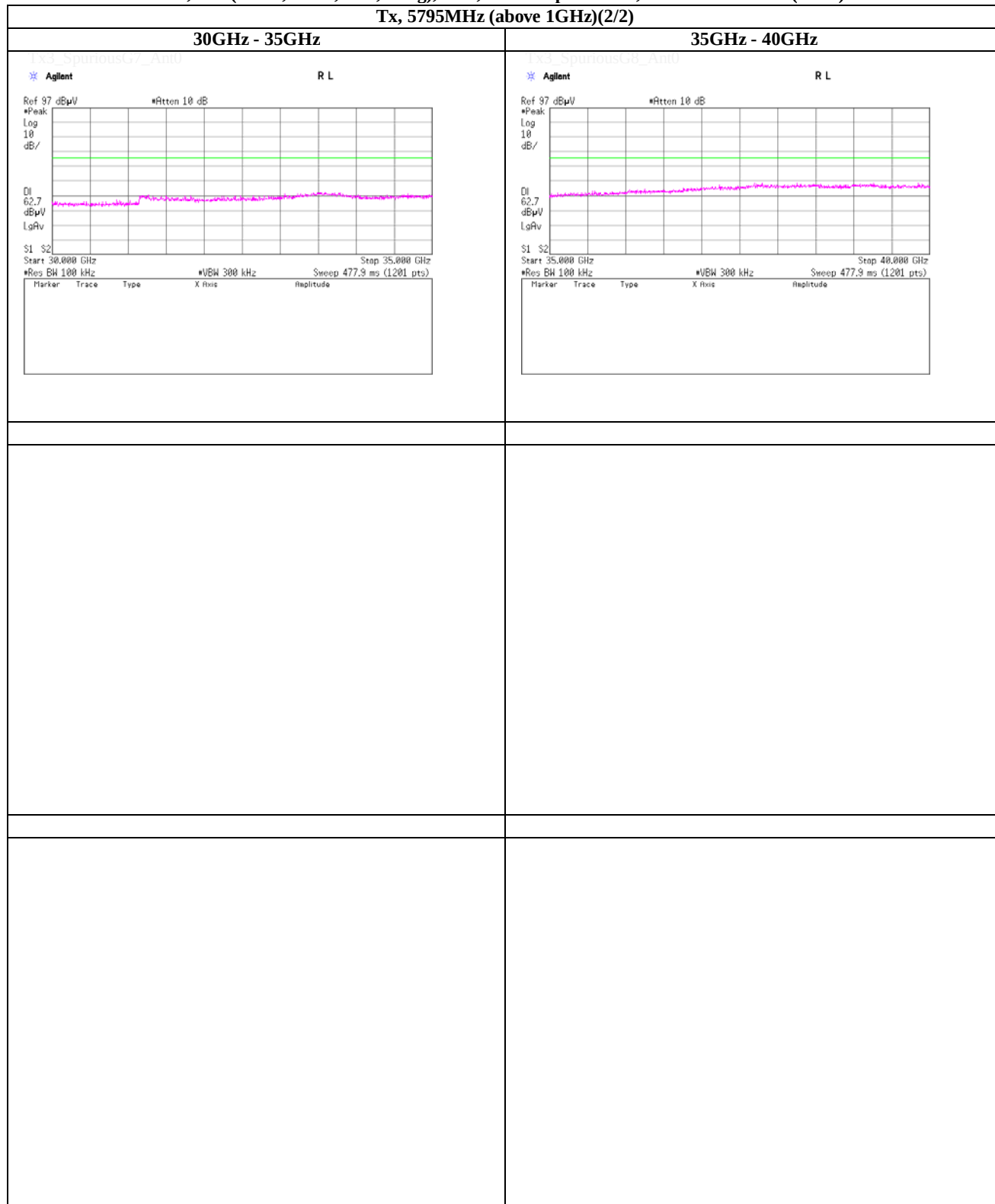
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 5795MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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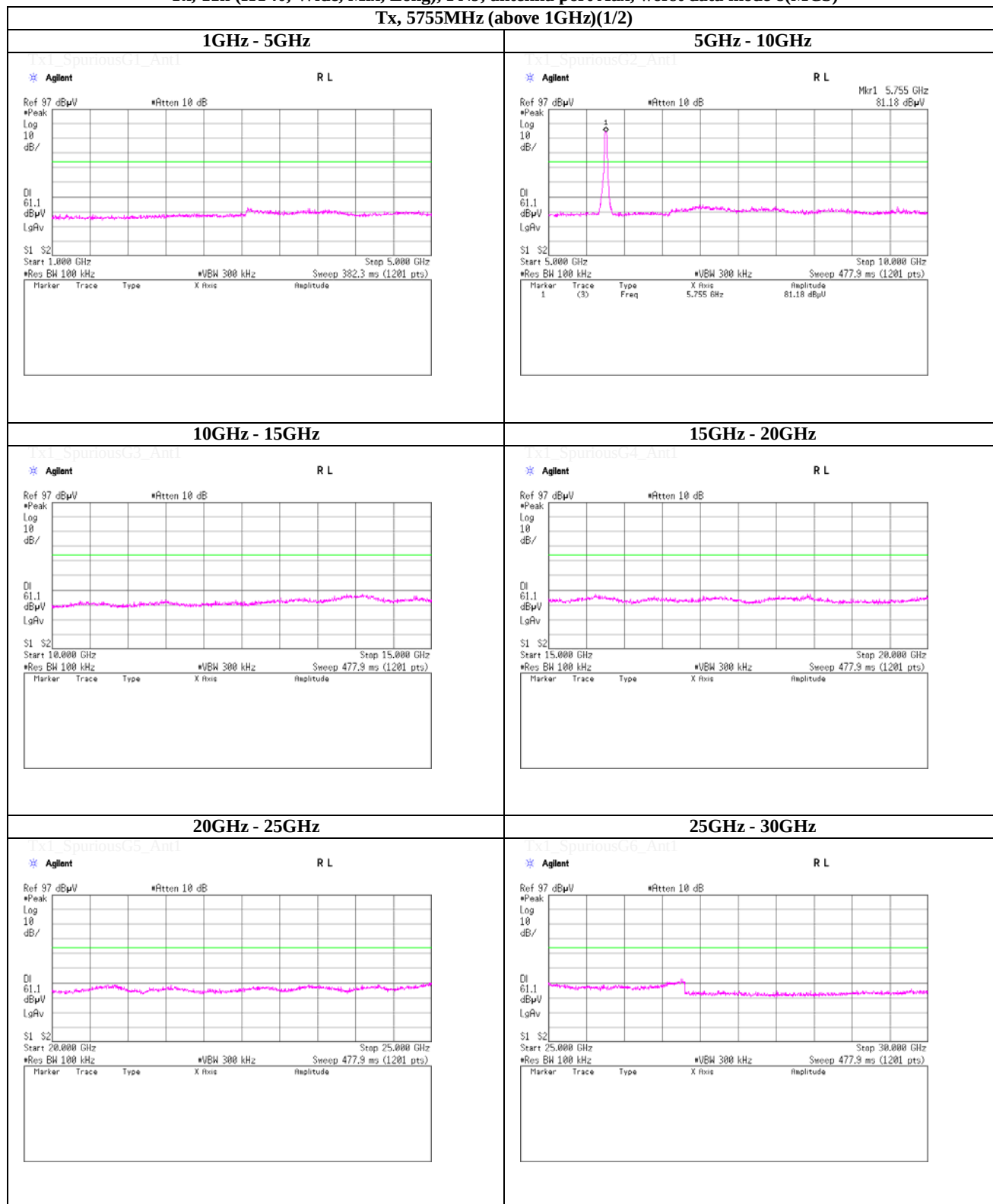
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Main, worst data mode 8(MCS)****Tx, 5795MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5755MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

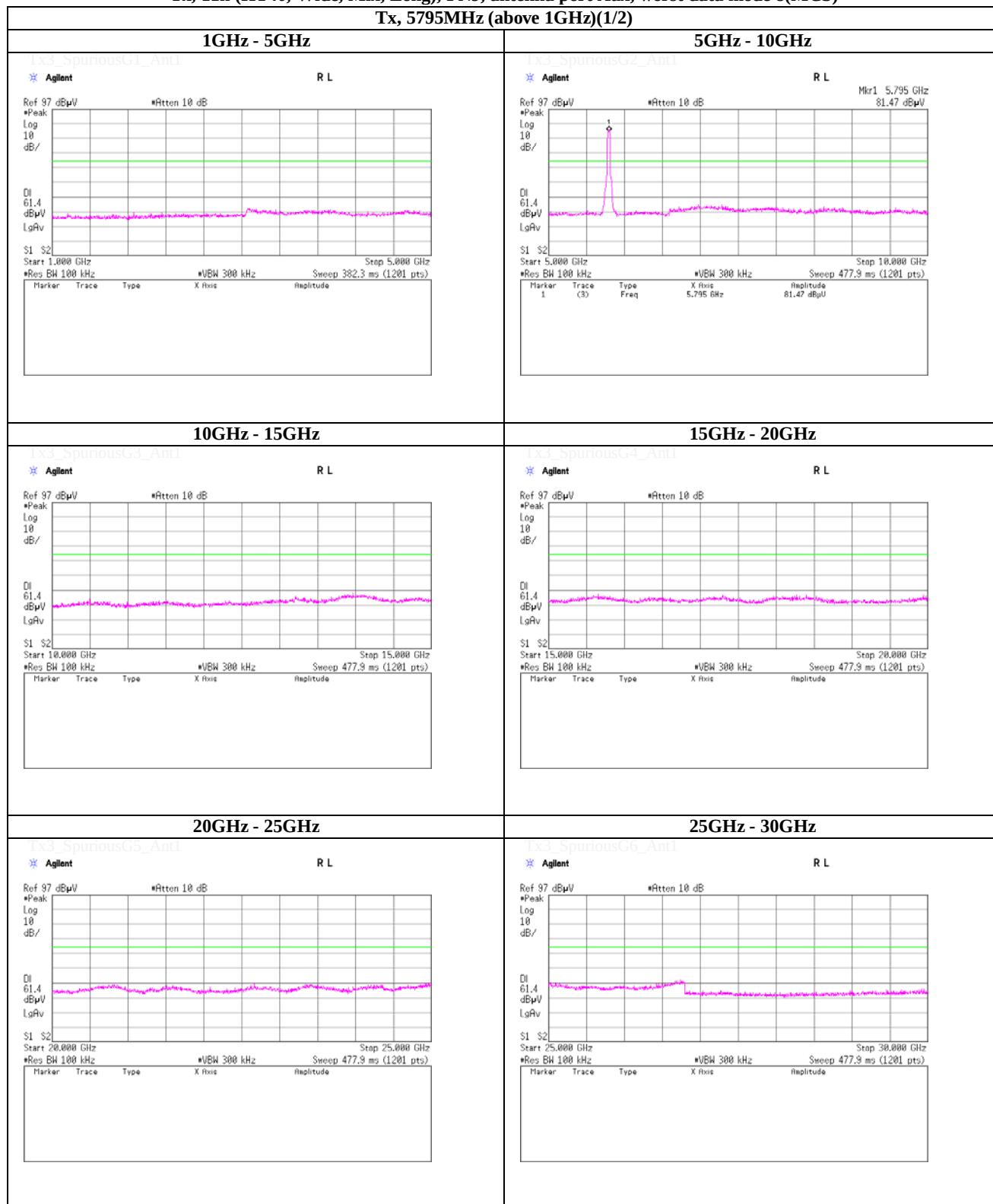
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)

[illegible]

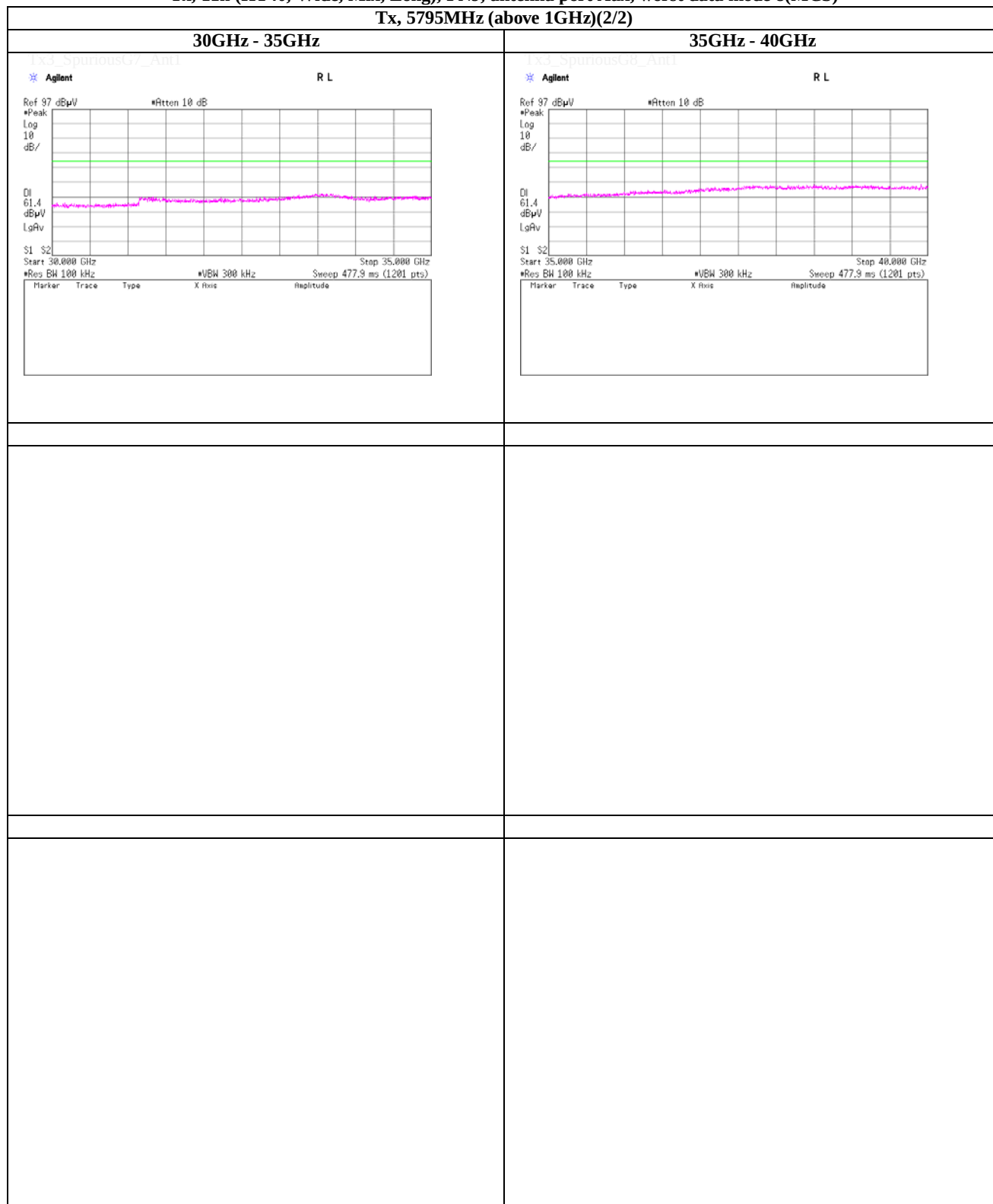
Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5795MHz (above 1GHz)(1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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(Reference chart) Spurious emission (Conducted)**Tx, 11n (HT40, Wide, Mix, Long), PN9, antenna port Aux, worst data mode 8(MCS)****Tx, 5795MHz (above 1GHz)(2/2)****UL Japan, Inc.****Shonan EMC Lab.**

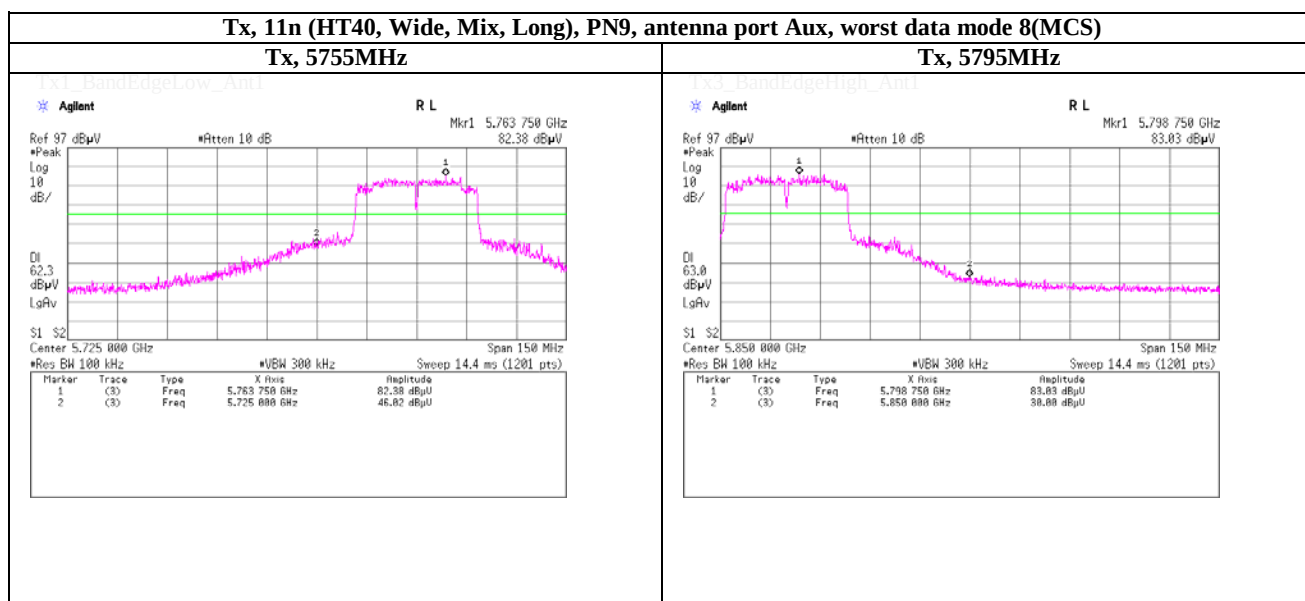
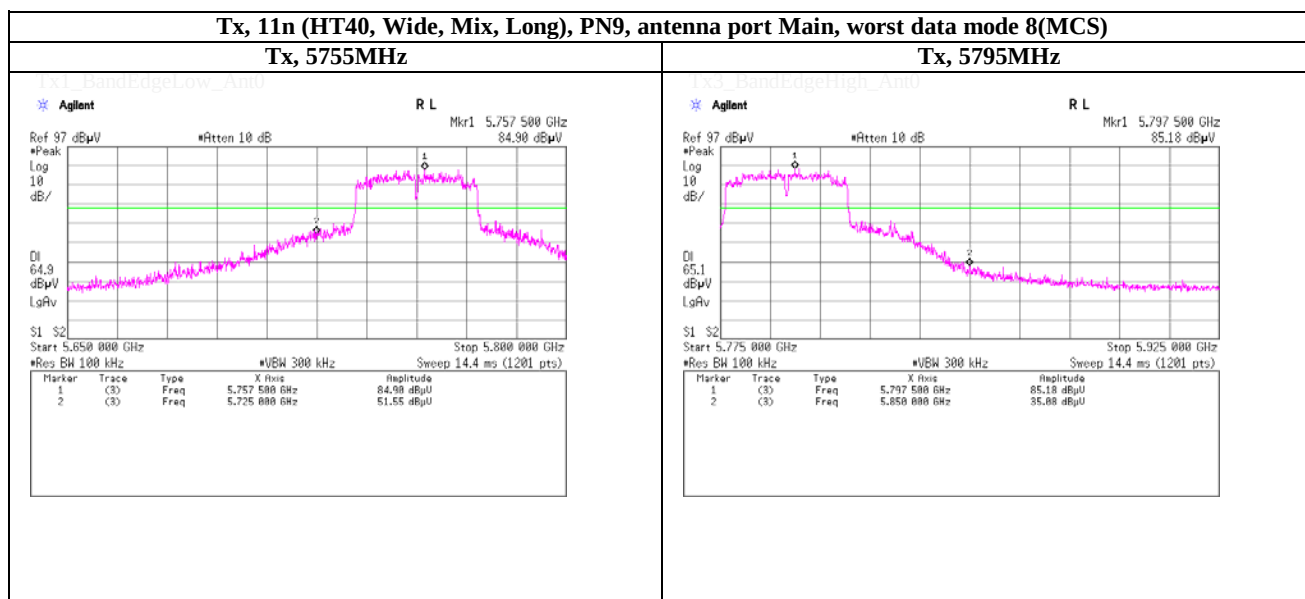
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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(Reference chart) Spurious emission (Conducted)

Band Edge compliance



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Maximum Power Spectral Density

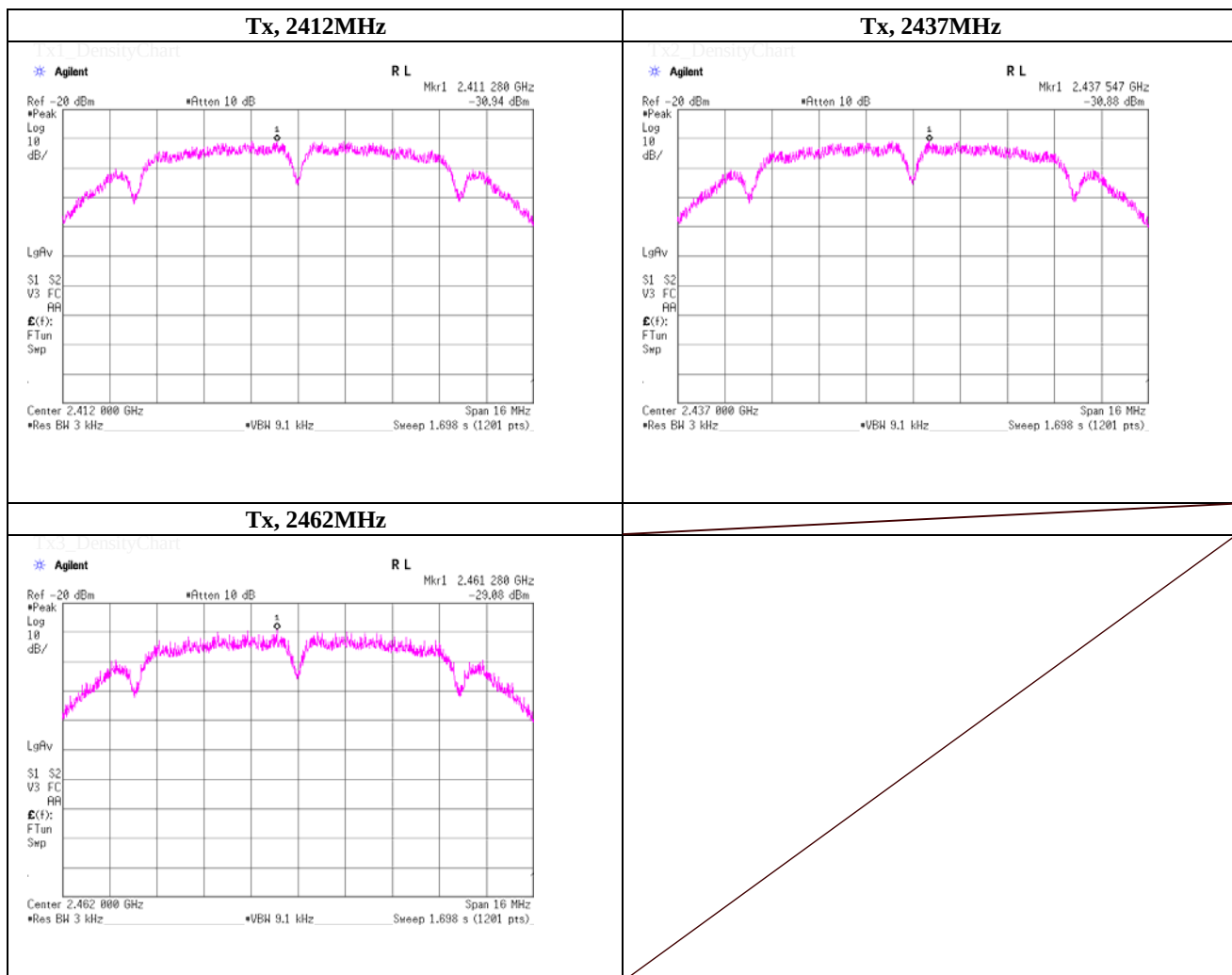
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11b, PN9, worst antenna port Main, worst data mode 1Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2411.28	-30.94	1.49	20.22	-9.23	8.00	17.23
2437.0000	2437.55	-30.88	1.49	20.22	-9.17	8.00	17.17
2462.0000	2461.28	-29.08	1.50	20.22	-7.36	8.00	15.36

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

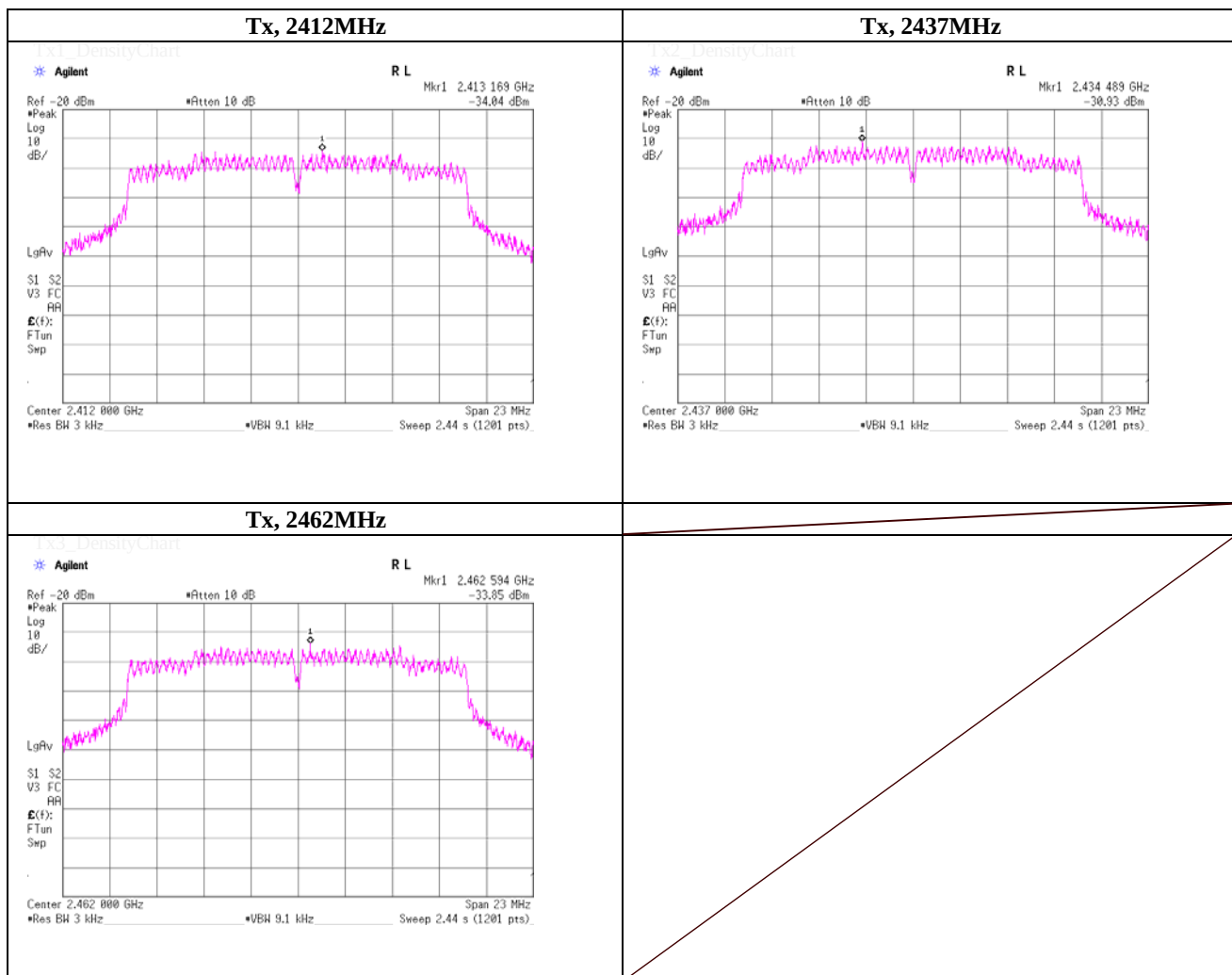
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11g, PN9, worst antenna port Main, worst data mode 6Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2413.17	-34.04	1.49	20.22	-12.33	8.00	20.33
2437.0000	2434.49	-30.93	1.49	20.22	-9.22	8.00	17.22
2462.0000	2462.59	-33.85	1.50	20.22	-12.13	8.00	20.13

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

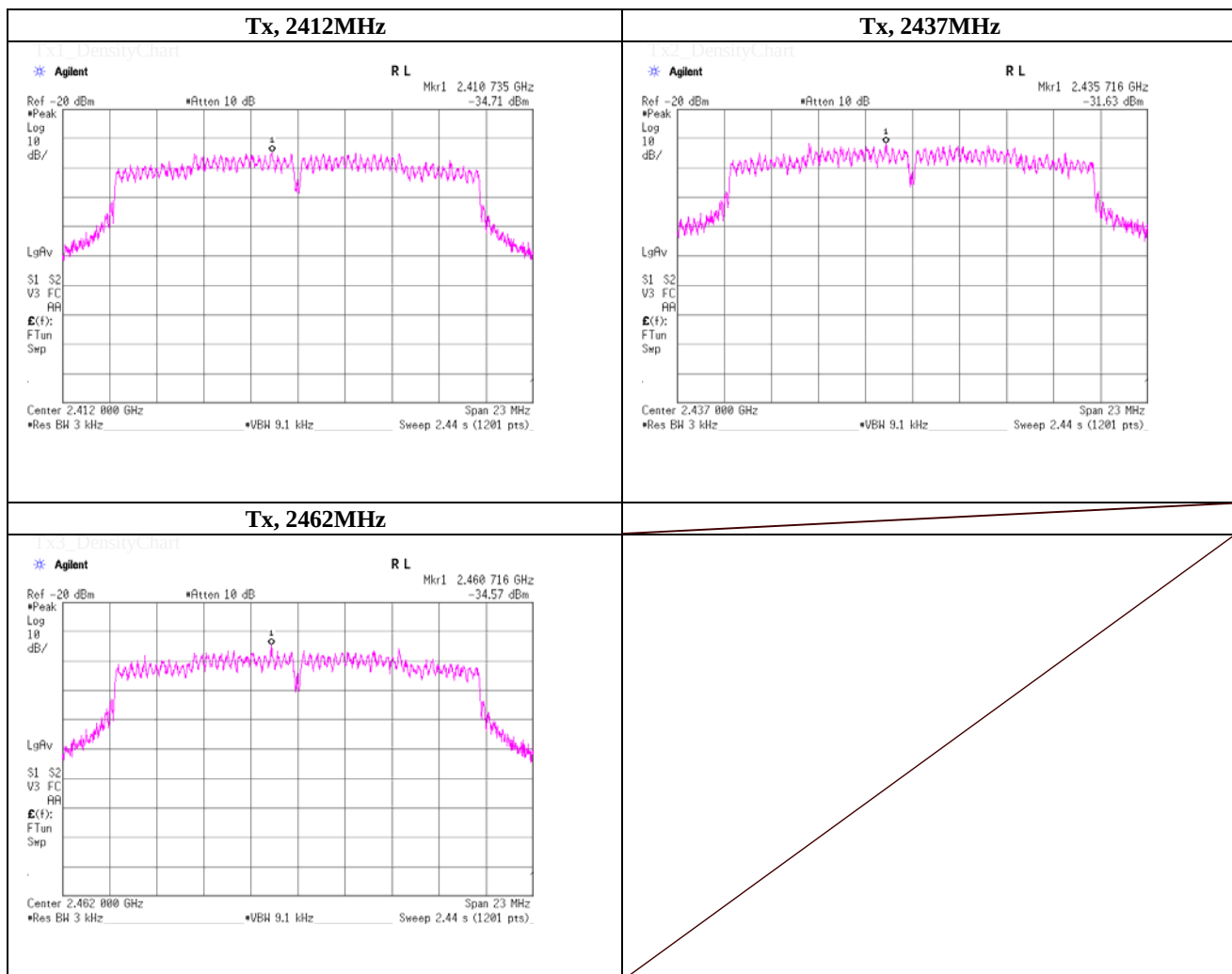
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2410.74	-34.71	1.49	20.22	-13.00	8.00	21.00
2437.0000	2435.72	-31.63	1.49	20.22	-9.92	8.00	17.92
2462.0000	2460.72	-34.57	1.50	20.22	-12.85	8.00	20.85

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst data mode 8(MCS)	

Antenna Main

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2414.43	-35.62	1.49	20.22	3.01	-10.89	8.00	18.89
2437.0000	2441.98	-33.03	1.49	20.22	3.01	-8.31	8.00	16.31
2462.0000	2457.02	-36.05	1.50	20.22	3.01	-11.32	8.00	19.32

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

Antenna Aux

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2414.45	-34.97	1.49	20.22	3.01	-10.25	8.00	18.25
2437.0000	2441.06	-33.47	1.49	20.22	3.01	-8.75	8.00	16.75
2462.0000	2465.76	-35.45	1.50	20.22	3.01	-10.72	8.00	18.72

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

*) This test was measured based on Method In-Band Power Spectral Density (PSD) Measurements (2) of
 "Emissions Testing of Transmitters with Multiple Outputs in the Same Band (KDB662911 D1)"

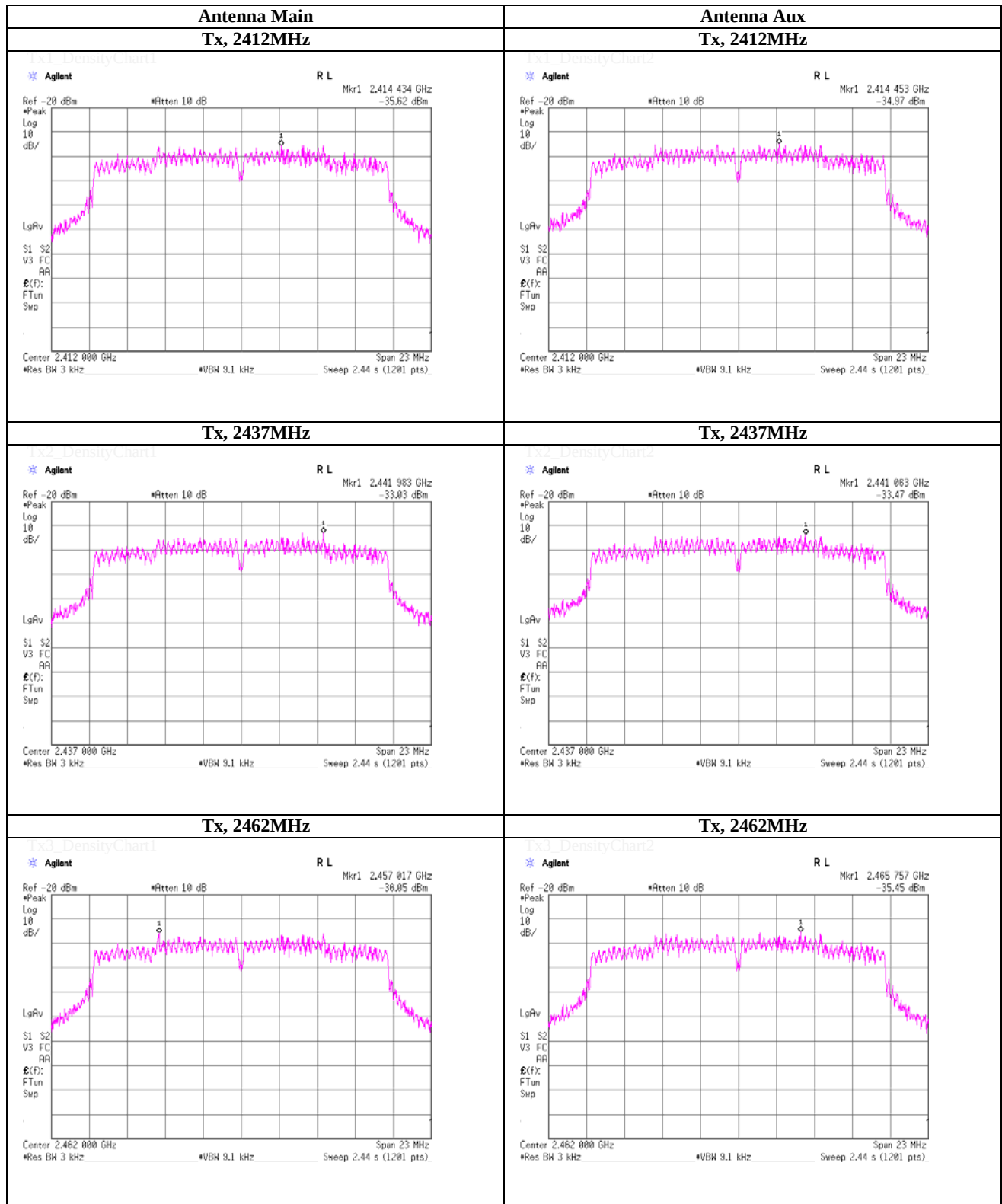
UL Japan, Inc.**Shonan EMC Lab.**

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Power Density



UL Japan, Inc.

Shonan EMC Lab.

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Maximum Power Spectral Density

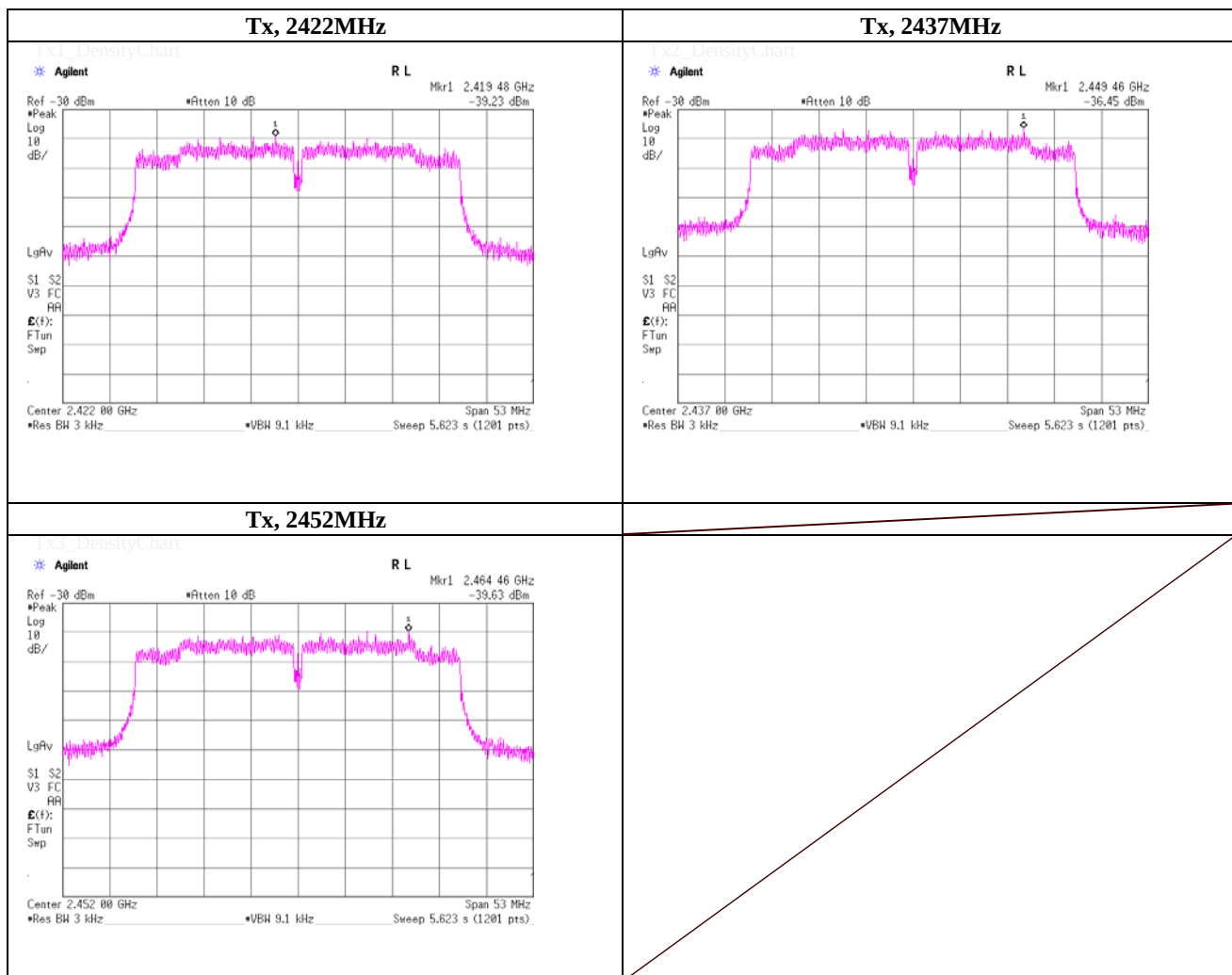
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2422.0000	2419.48	-39.23	1.49	20.22	-17.52	8.00	25.52
2437.0000	2449.46	-36.45	1.49	20.22	-14.74	8.00	22.74
2452.0000	2464.46	-39.63	1.50	20.22	-17.91	8.00	25.91

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 28, 2012	
Temperature / Humidity	22deg.C , 50%RH	
Engineer	Akio Hayashi	
Mode	Tx, 11n (HT40, Wide, Mix, Long), PN9, worst data mode 8(MCS)	

Antenna Main

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2422.0000	2434.47	-41.24	1.49	20.22	3.01	-16.52	8.00	24.52
2437.0000	2434.44	-36.54	1.49	20.22	3.01	-11.82	8.00	19.82
2452.0000	2449.44	-42.57	1.50	20.22	3.01	-17.84	8.00	25.84

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

Antenna Aux

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2422.0000	2409.50	-40.74	1.49	20.22	3.01	-16.02	8.00	24.02
2437.0000	2439.47	-36.32	1.49	20.22	3.01	-11.60	8.00	19.60
2452.0000	2443.21	-41.16	1.50	20.22	3.01	-16.43	8.00	24.43

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

*) This test was measured based on Method In-Band Power Spectral Density (PSD) Measurements (2) of
 "Emissions Testing of Transmitters with Multiple Outputs in the Same Band (KDB662911 D1)"

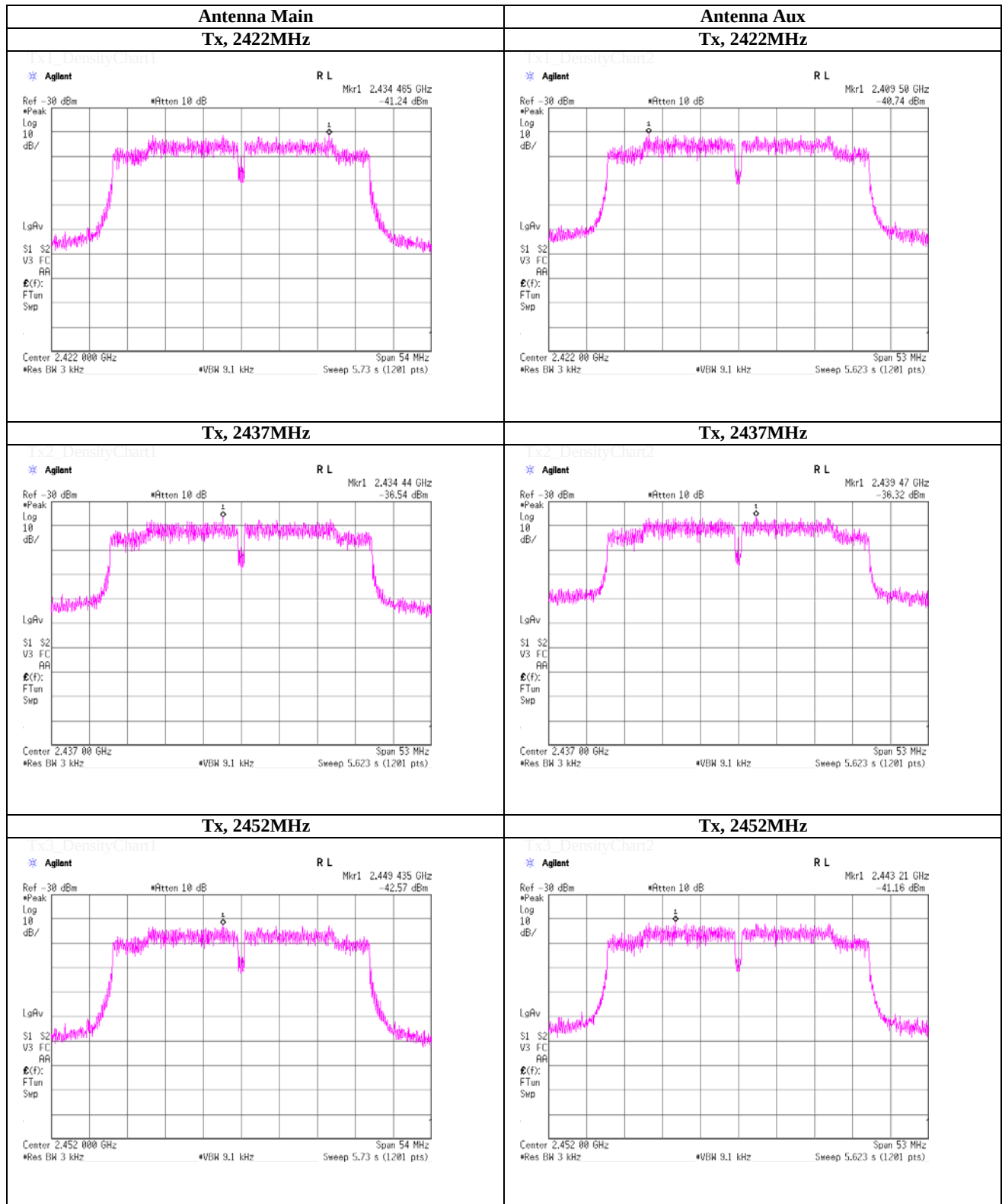
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Power Density



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Maximum Power Spectral Density

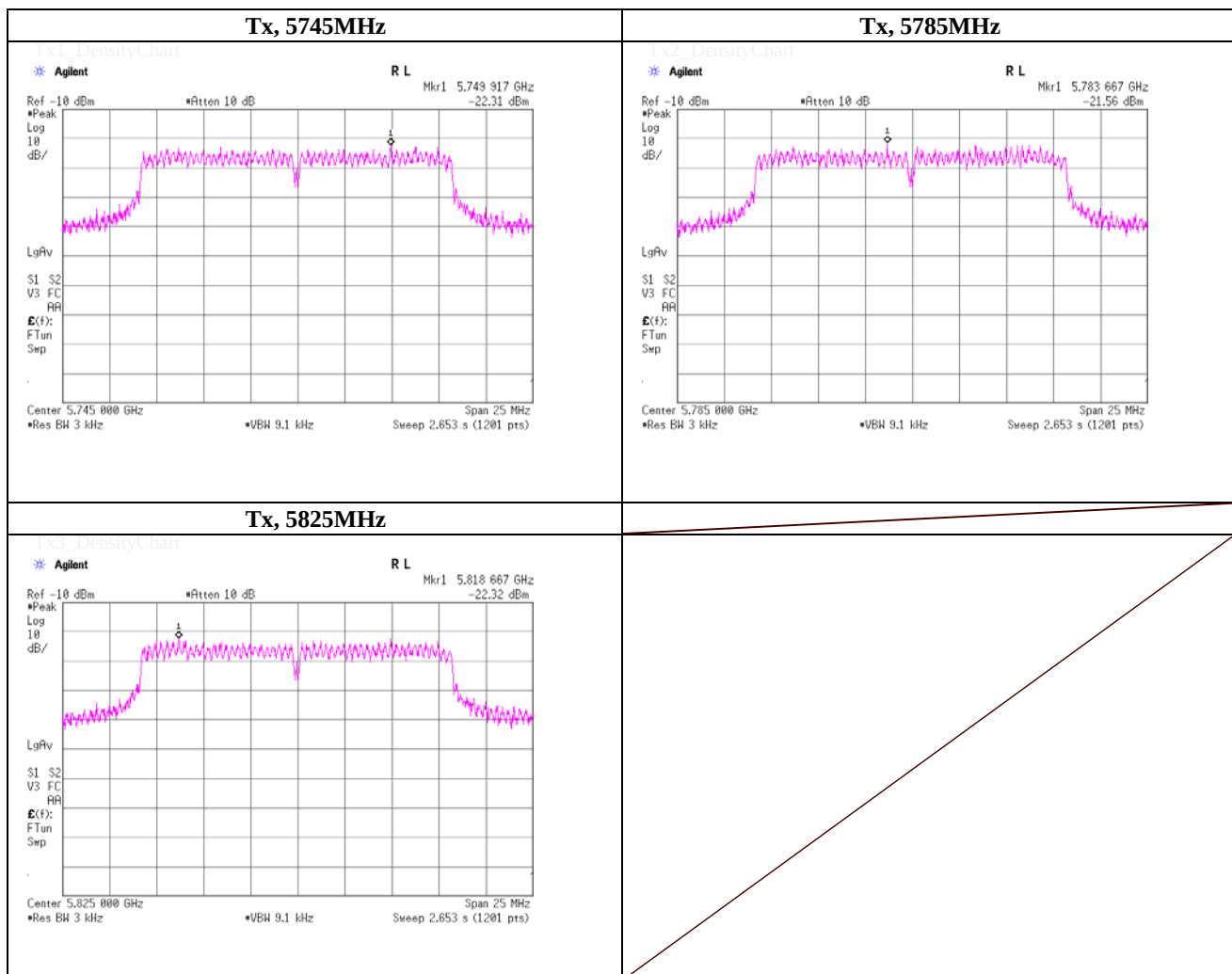
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 29, 2012	
Temperature / Humidity	23deg.C , 42%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11a, PN9, worst antenna port Main, worst data mode 6Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5749.92	-22.31	2.15	9.73	-10.43	8.00	18.43
5785.0000	5783.67	-21.56	2.16	9.73	-9.67	8.00	17.67
5825.0000	5818.67	-22.32	2.46	9.74	-10.12	8.00	18.12

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

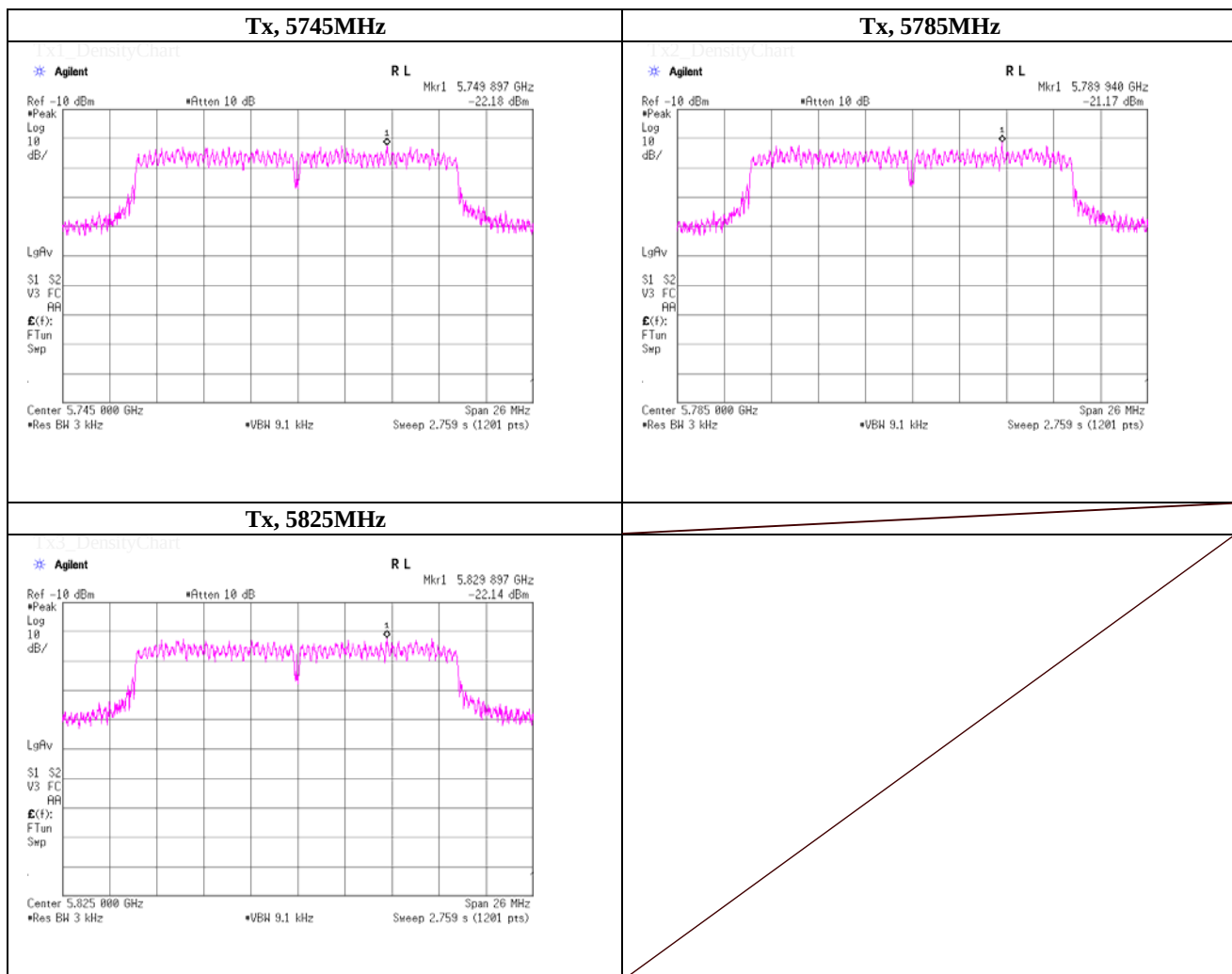
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 29, 2012	
Temperature / Humidity	23deg.C , 41%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n (HT20, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5749.90	-22.19	2.15	9.73	-10.31	8.00	18.31
5785.0000	5789.94	-21.17	2.16	9.73	-9.28	8.00	17.28
5825.0000	5829.90	-22.14	2.46	9.74	-9.94	8.00	17.94

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 29, 2012	
Temperature / Humidity	23deg.C , 41%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n-HT20, PN9, worst data mode 8(MCS)	

Antenna Main

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5748.71	-23.21	2.15	9.73	3.01	-8.32	8.00	16.32
5785.0000	5789.95	-22.46	2.16	9.73	3.01	-7.56	8.00	15.56
5825.0000	5817.49	-23.58	2.46	9.74	3.01	-8.37	8.00	16.37

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

Antenna Aux

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5747.43	-26.02	2.15	9.73	3.01	-11.13	8.00	19.13
5785.0000	5783.72	-25.85	2.16	9.73	3.01	-10.95	8.00	18.95
5825.0000	5831.26	-25.43	2.46	9.74	3.01	-10.22	8.00	18.22

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

*) This test was measured based on Method In-Band Power Spectral Density (PSD) Measurements (2) of
 "Emissions Testing of Transmitters with Multiple Outputs in the Same Band (KDB662911 D1)"

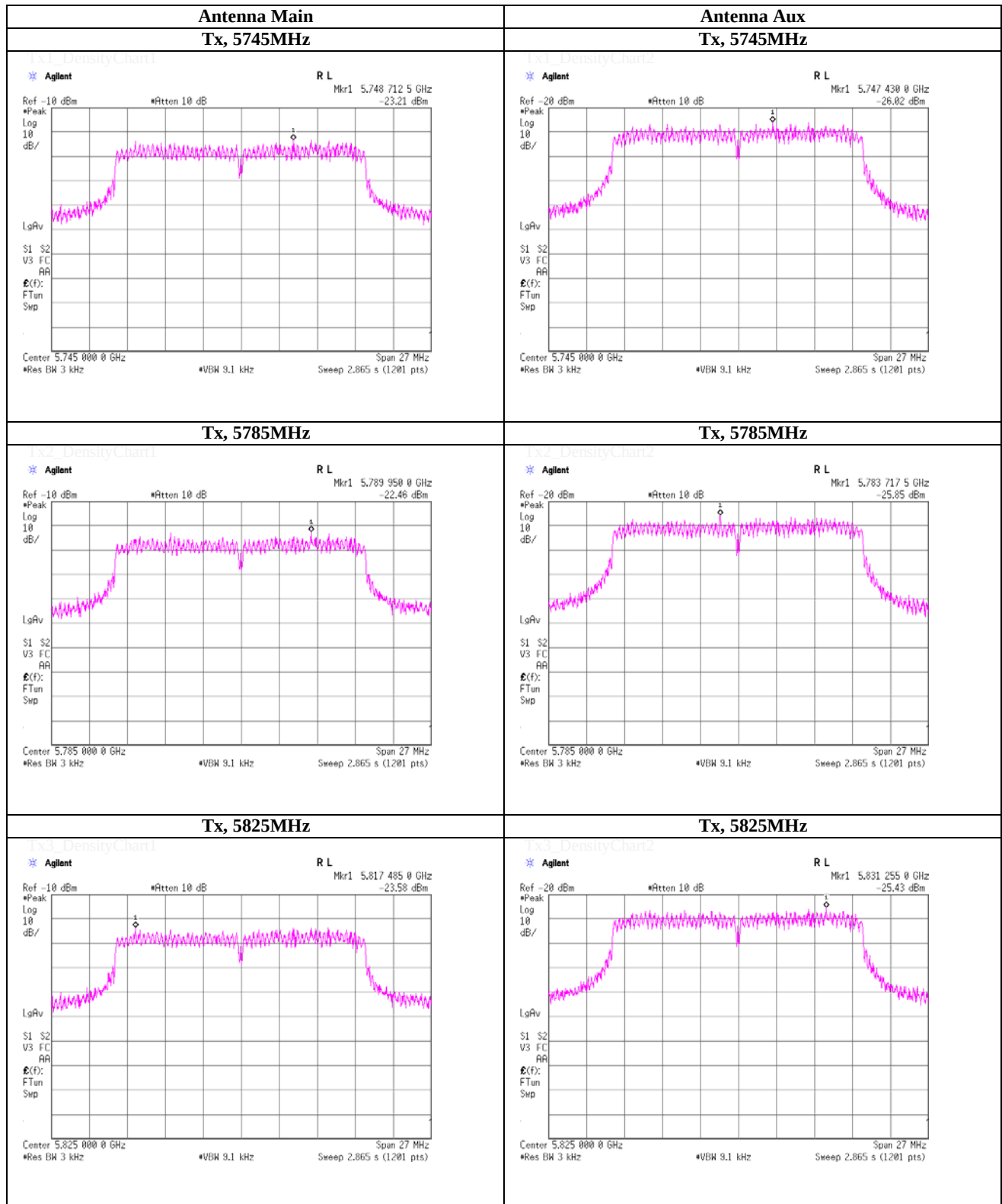
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Maximum Power Spectral Density

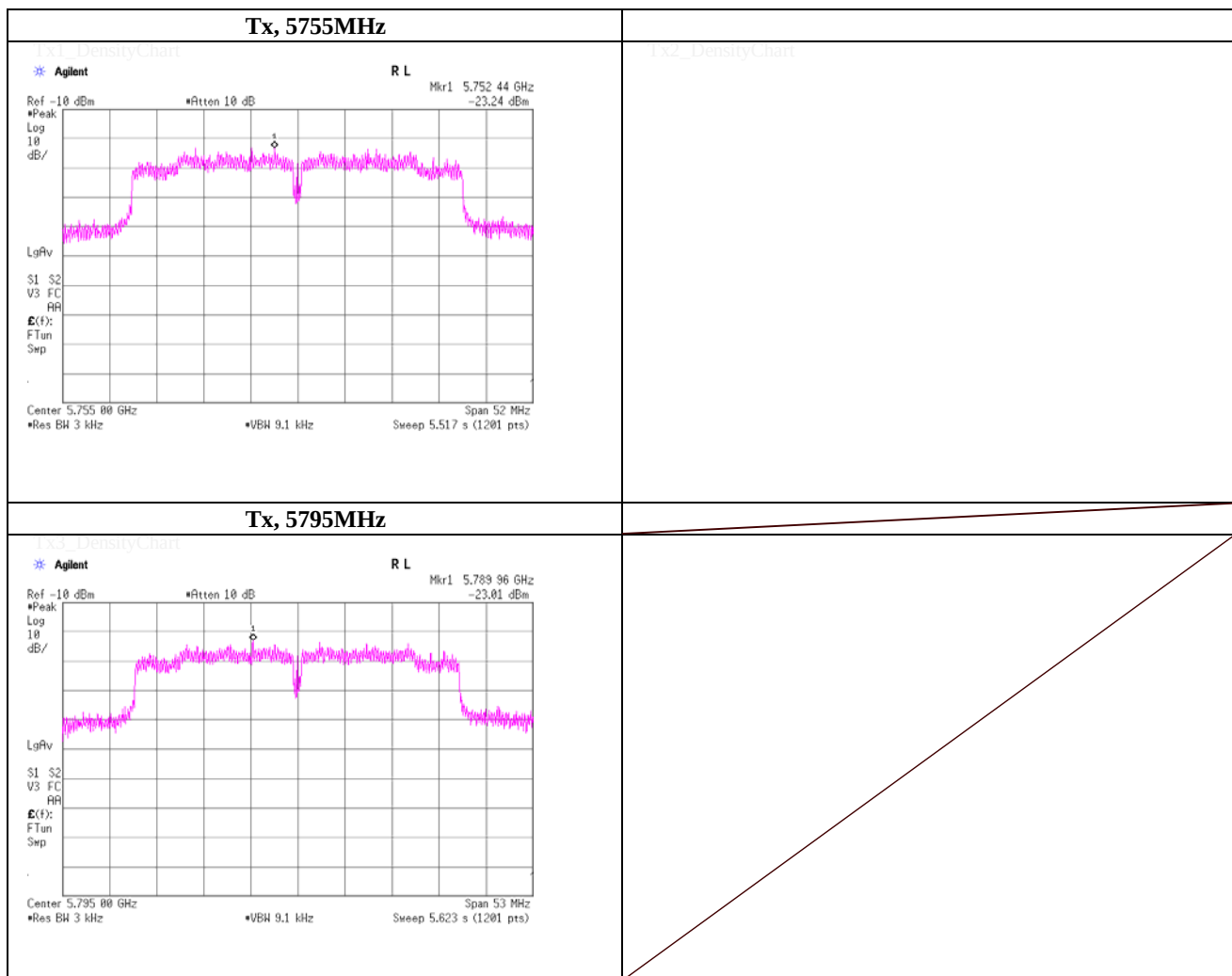
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 29, 2012	
Temperature / Humidity	23deg.C , 41%RH	
Engineer	Akio Hayashi	
Mode	Tx, 11n (HT40, Wide, Mix, Long), PN9, worst antenna port Main, worst data mode 0(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5755.0000	5752.44	-23.24	2.15	9.73	-11.36	8.00	19.36
					-	8.00	-
5795.0000	5789.96	-23.01	2.16	9.73	-11.12	8.00	19.12

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss



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Maximum Power Spectral Density

(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	November 29, 2012	
Temperature / Humidity	23deg.C , 41%RH	
Engineer	Akio Hayashi	
Mode	Tx, 11n (HT40, Wide, Mix, Long), PN9, worst data mode 8(MCS)	

Antenna Main

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5755.0000	5742.45	-24.63	2.15	9.73	3.01	-9.74	8.00	17.74
					3.01	-	8.00	-
5795.0000	5782.41	-24.60	2.16	9.73	3.01	-9.70	8.00	17.70

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

Antenna Aux

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	10log (N _{ANT})* [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5755.0000	5746.17	-27.24	2.15	9.73	3.01	-12.35	8.00	20.35
					3.01	-	8.00	-
5795.0000	5798.67	-27.36	2.16	9.73	3.01	-12.46	8.00	20.46

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss + 10log(NANT)

*) This test was measured based on Method In-Band Power Spectral Density (PSD) Measurements (2) of
 "Emissions Testing of Transmitters with Multiple Outputs in the Same Band (KDB662911 D1)"

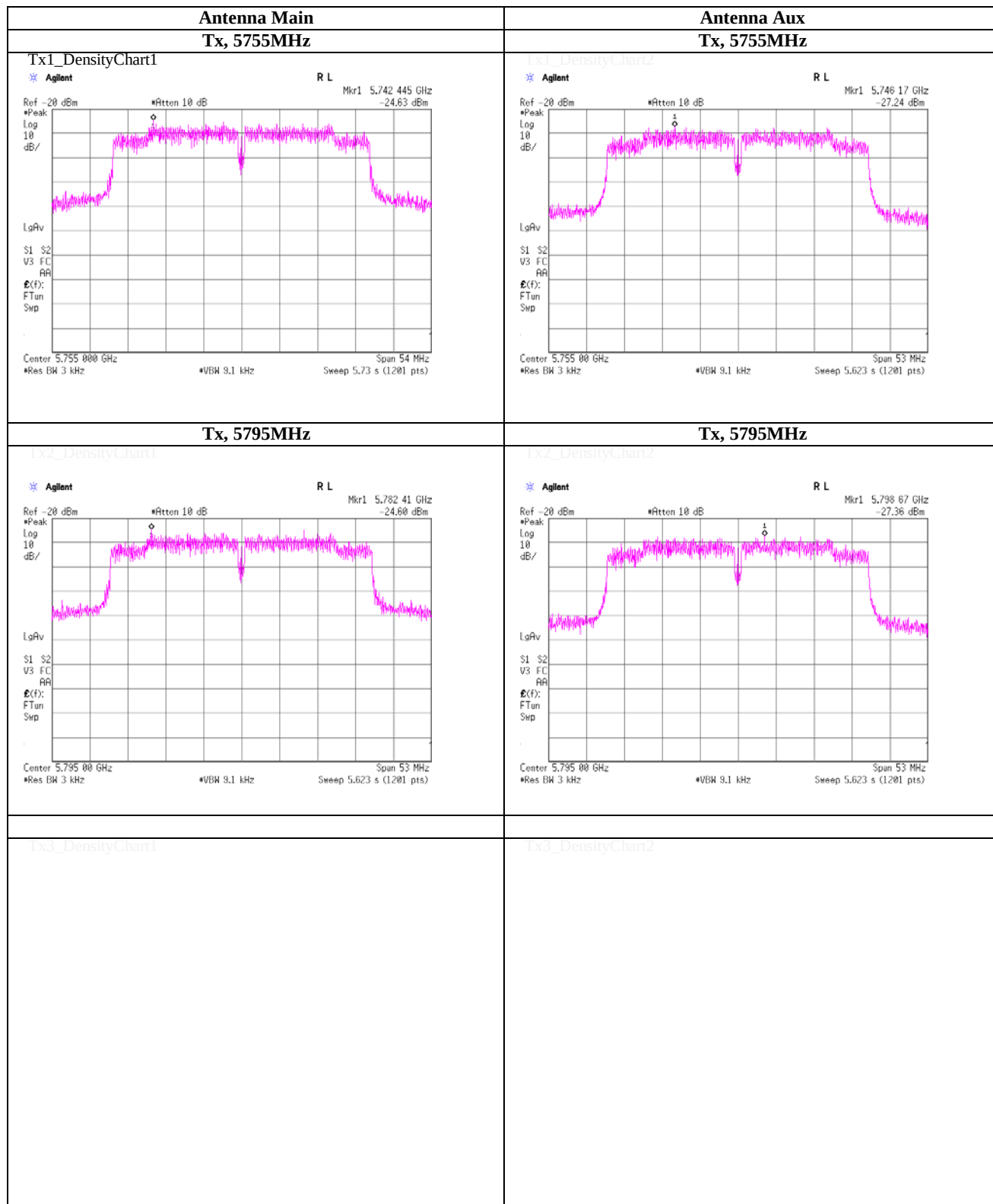
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Power Density



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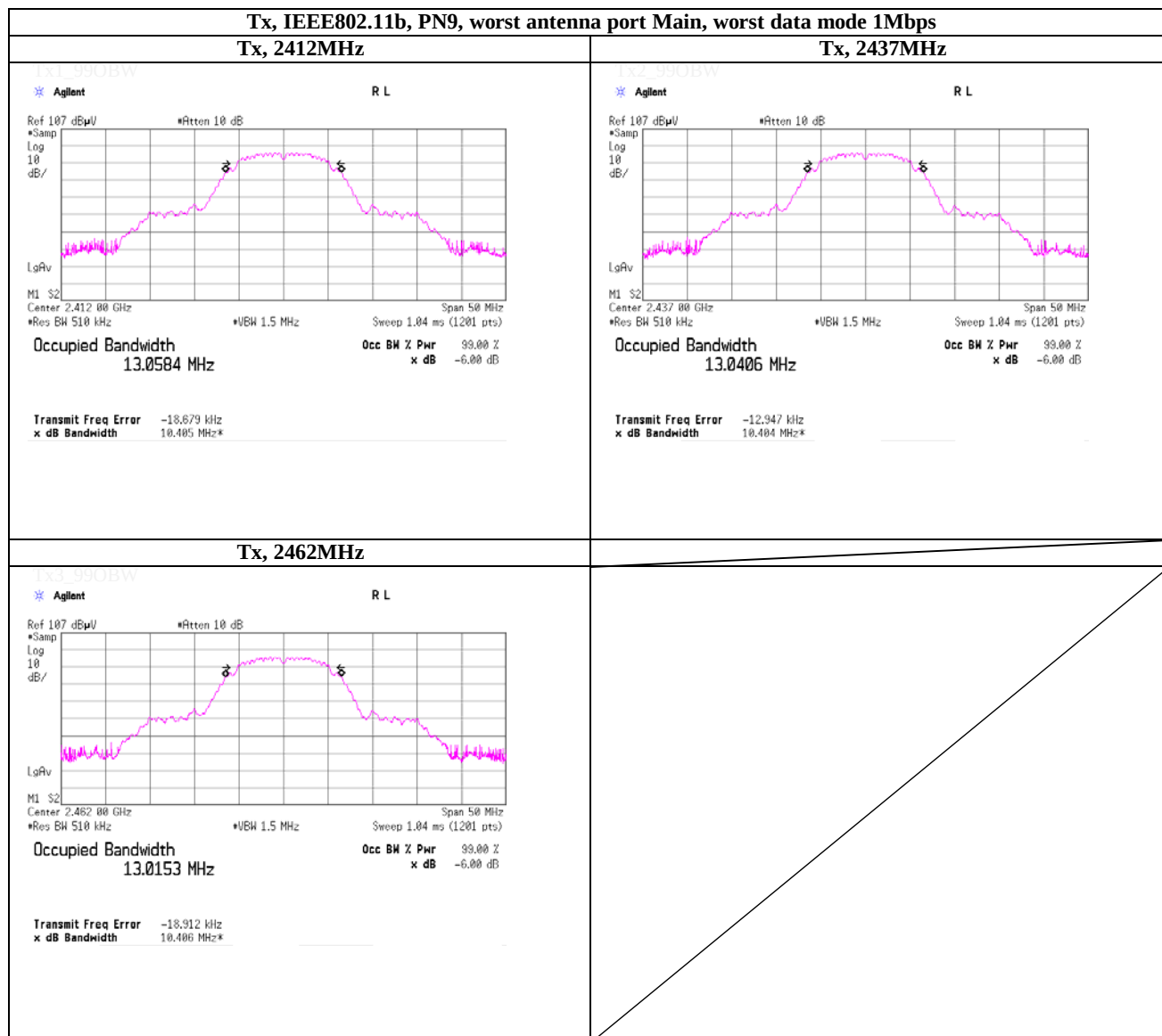
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99% Occupied Bandwidth



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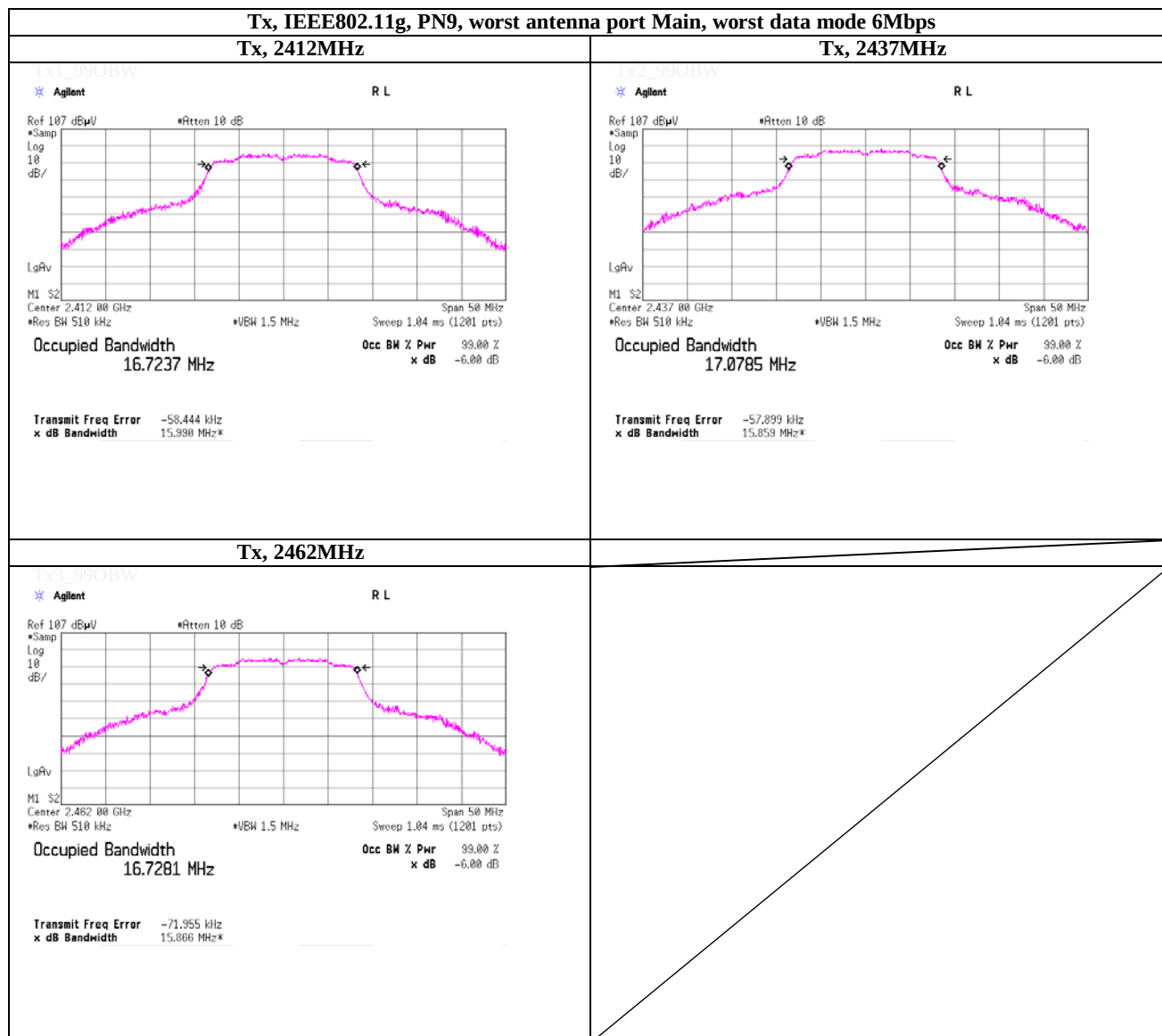
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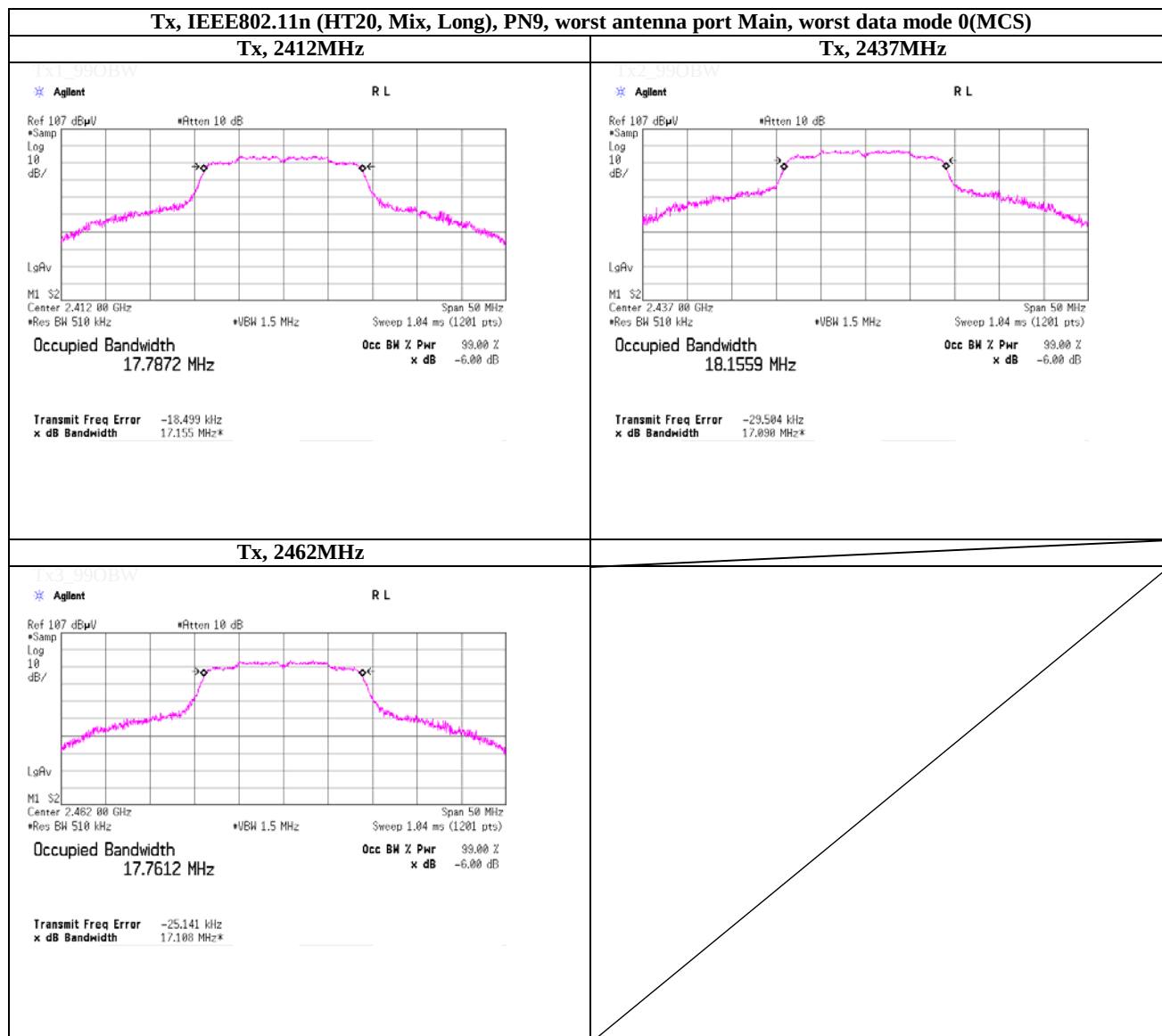
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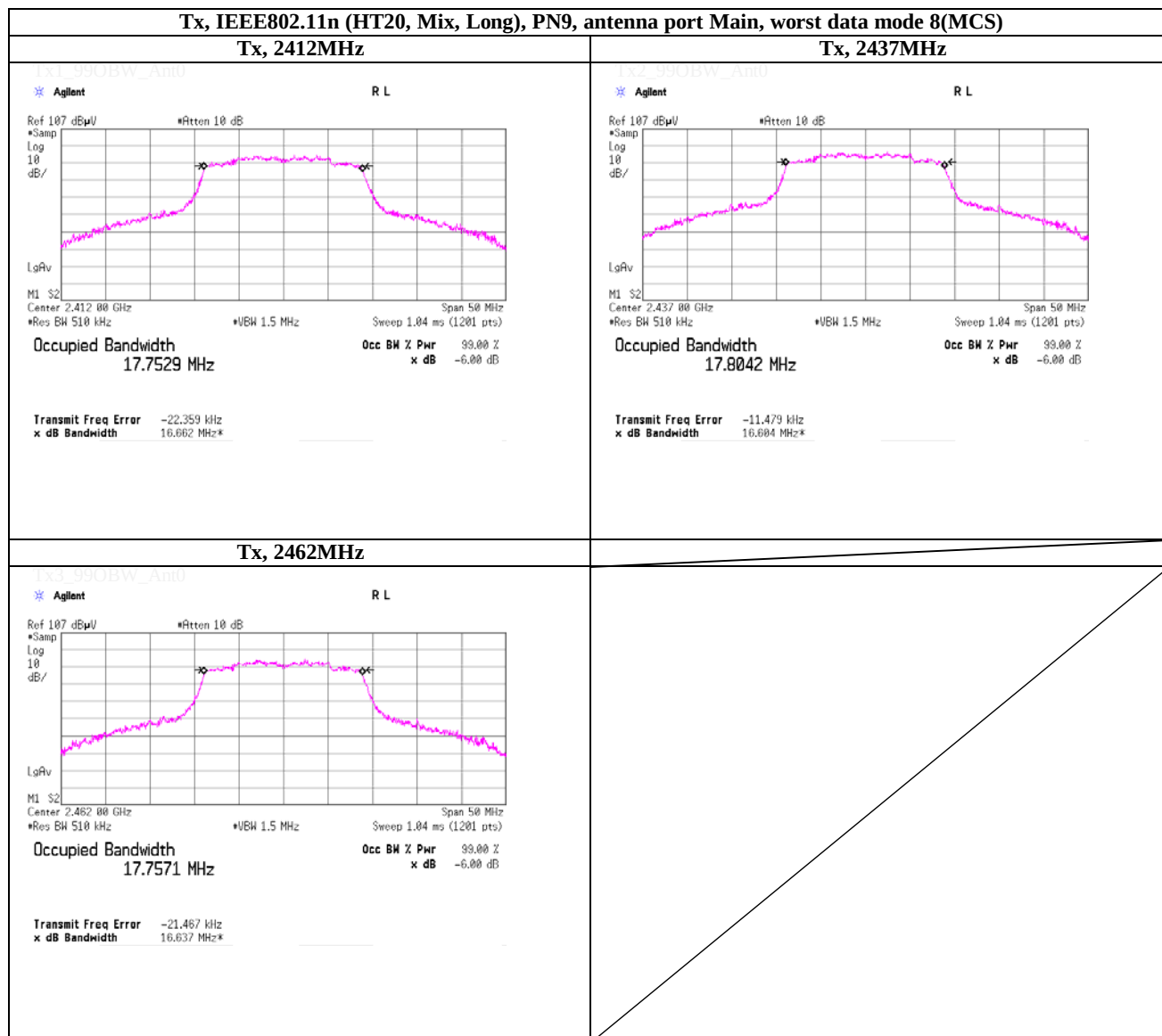
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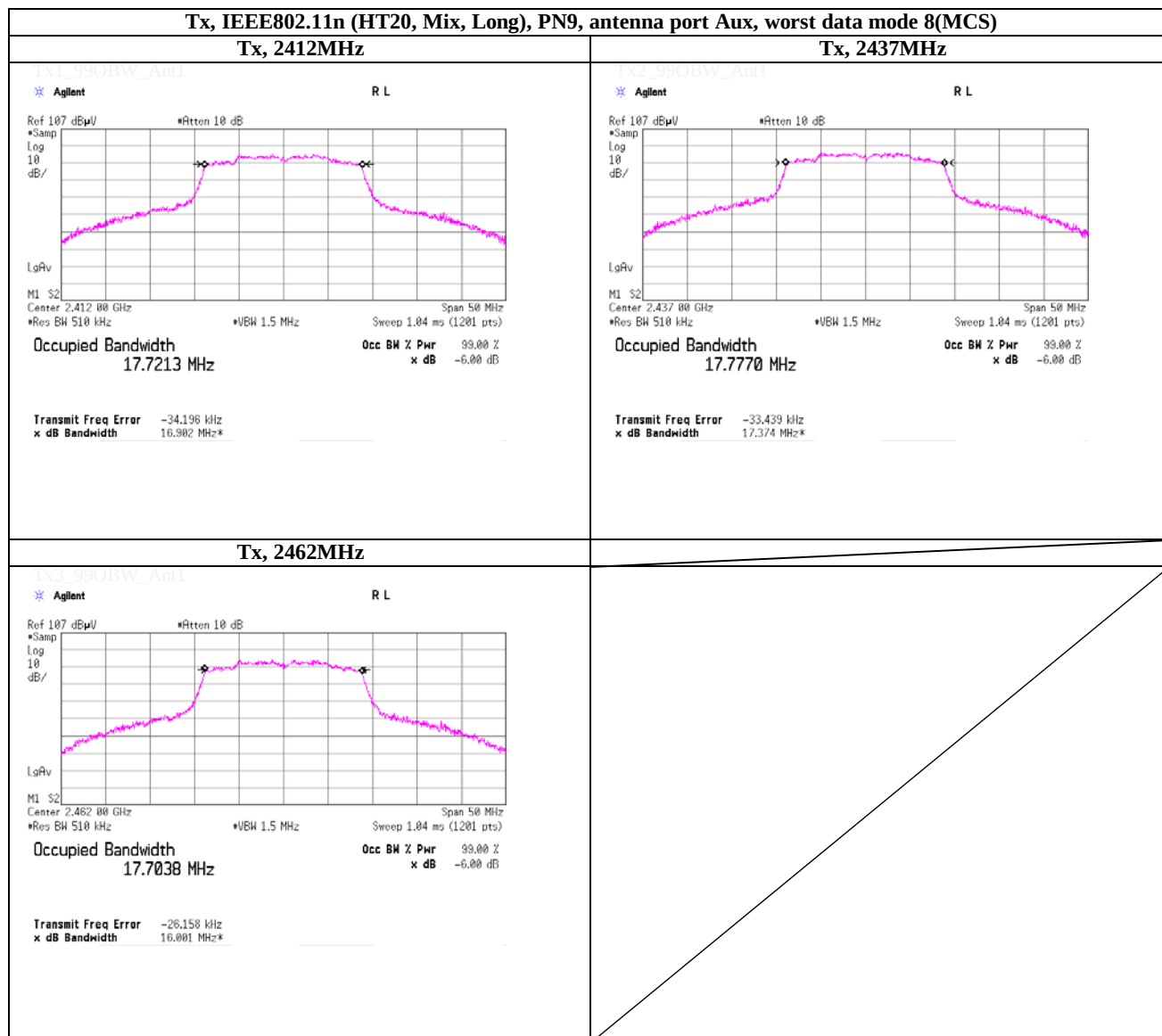
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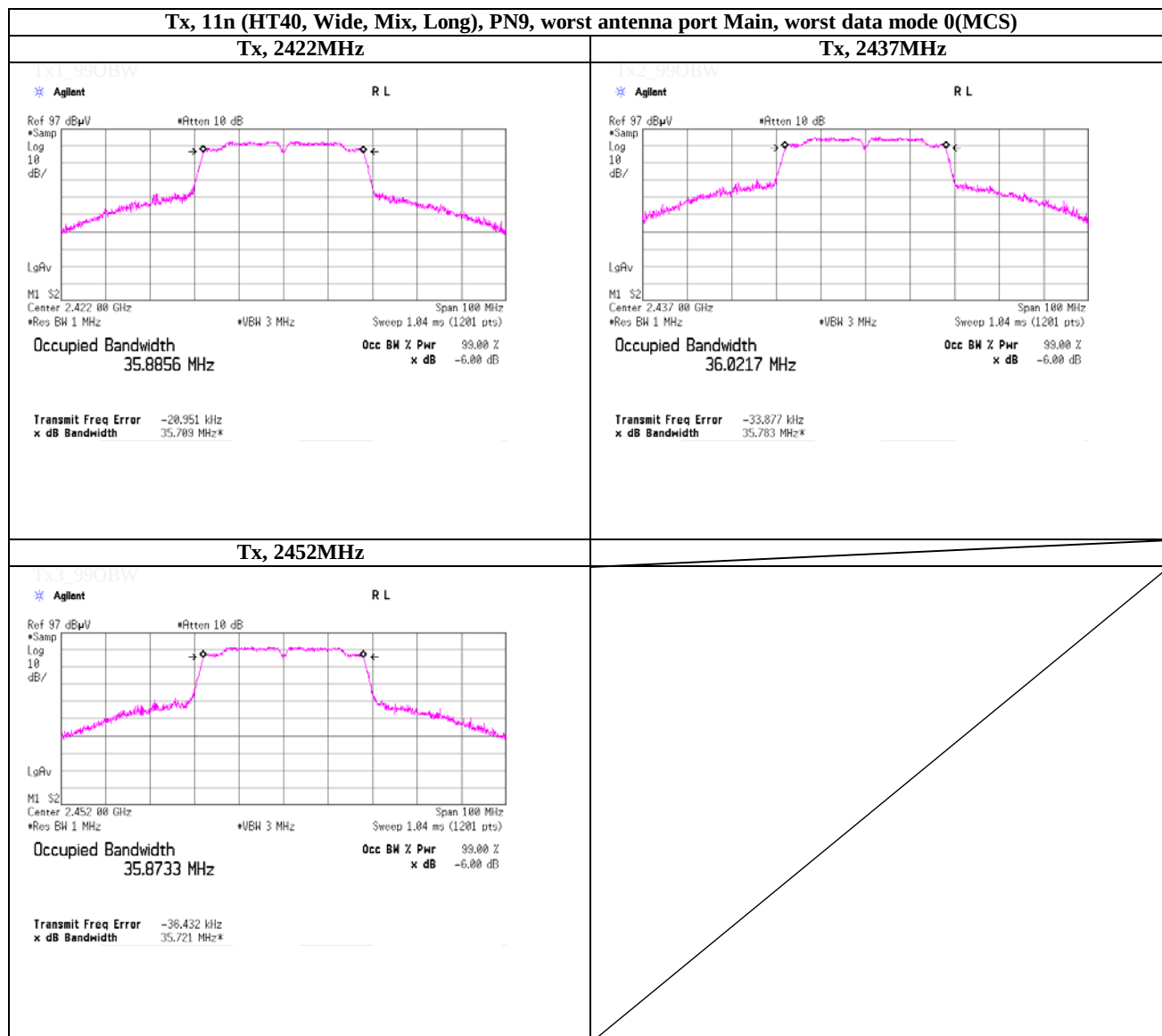
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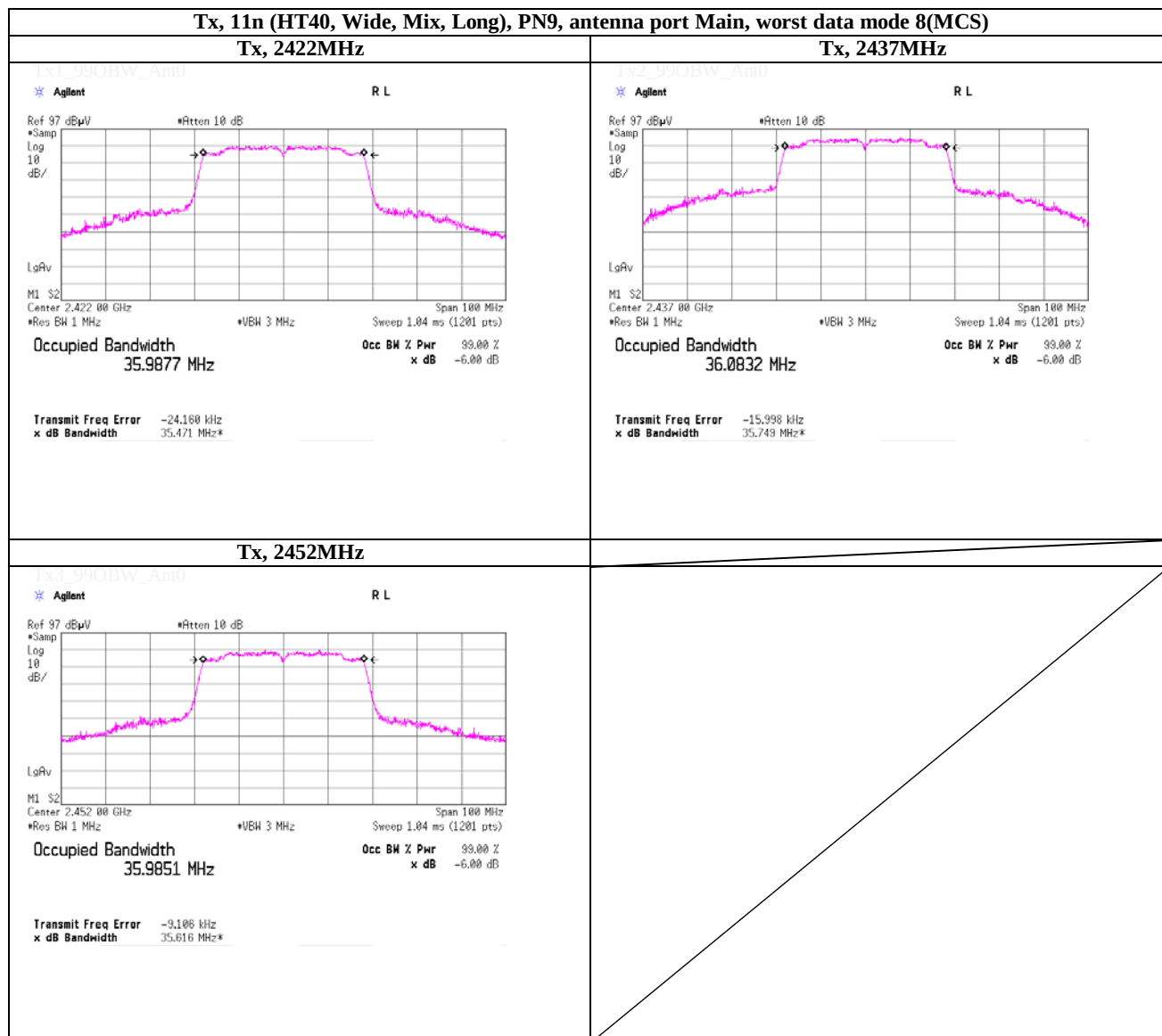
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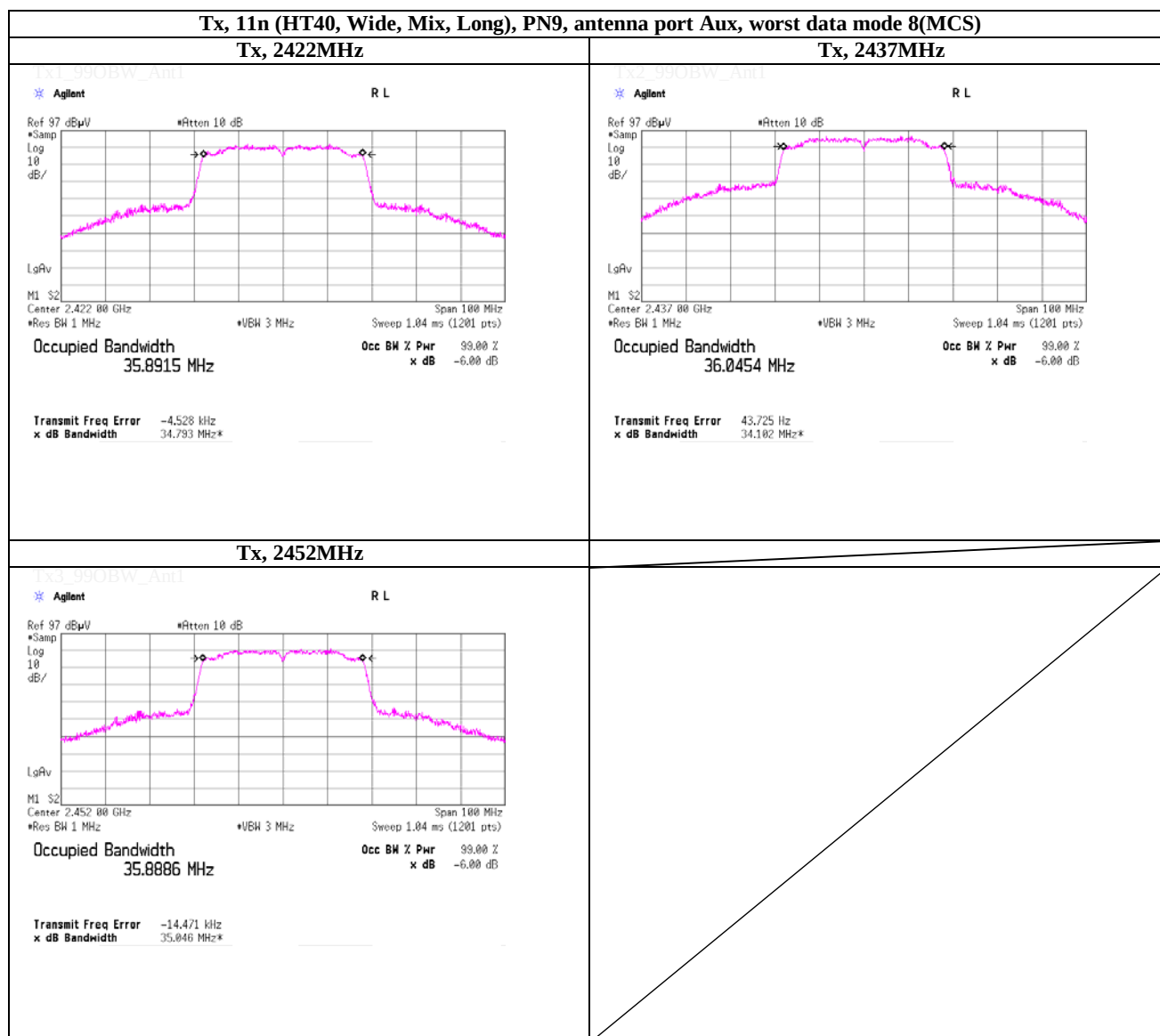
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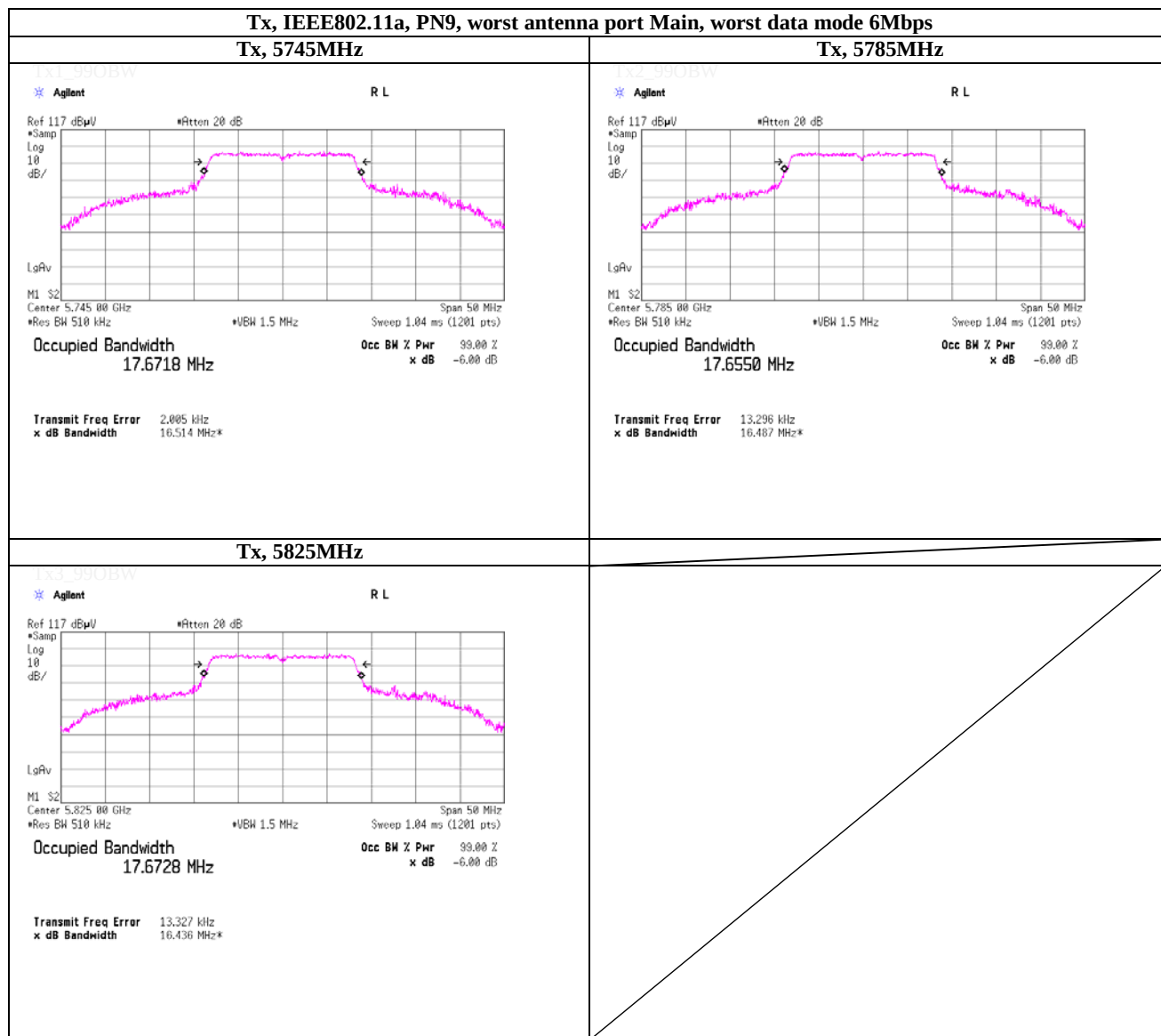
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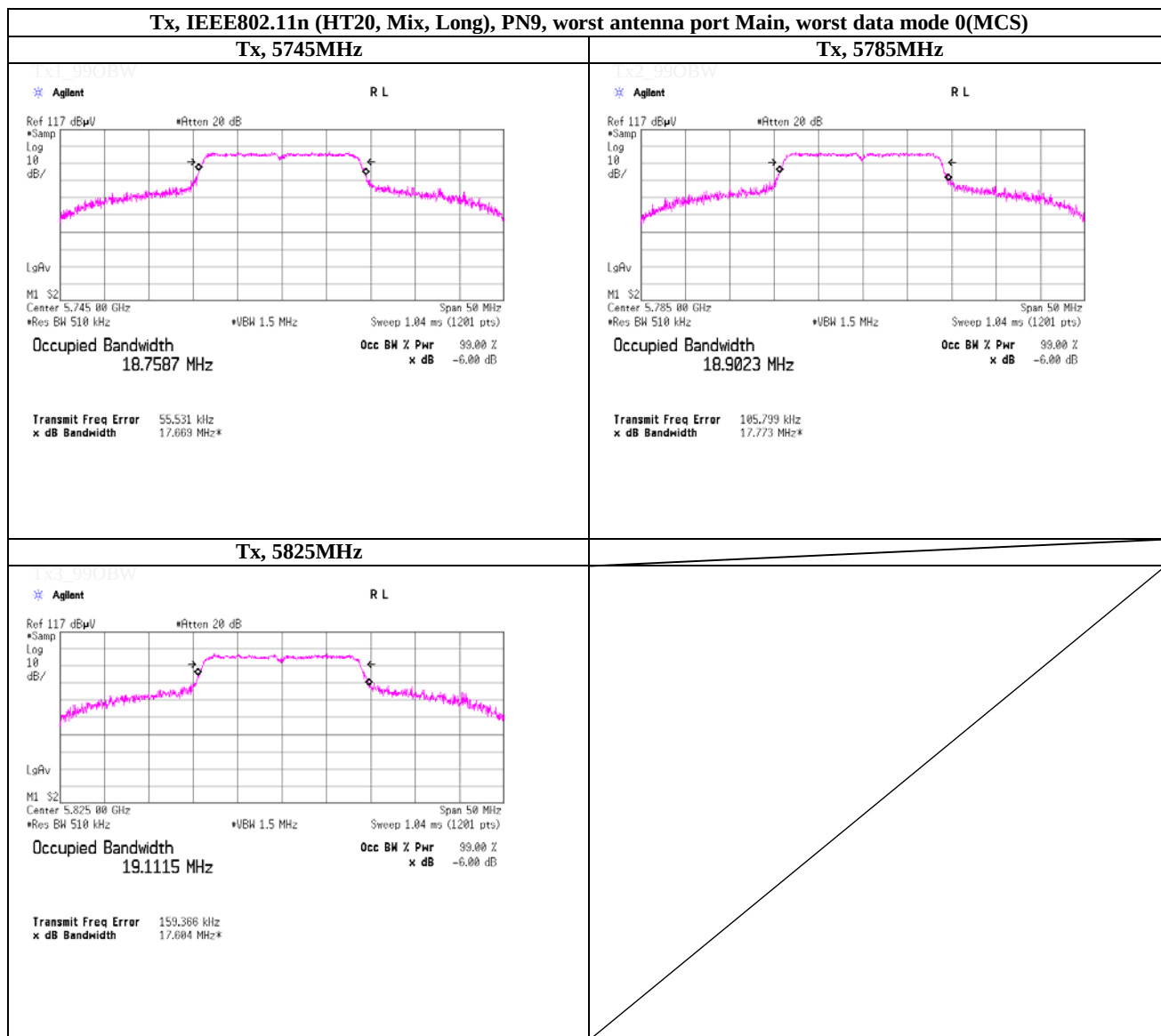
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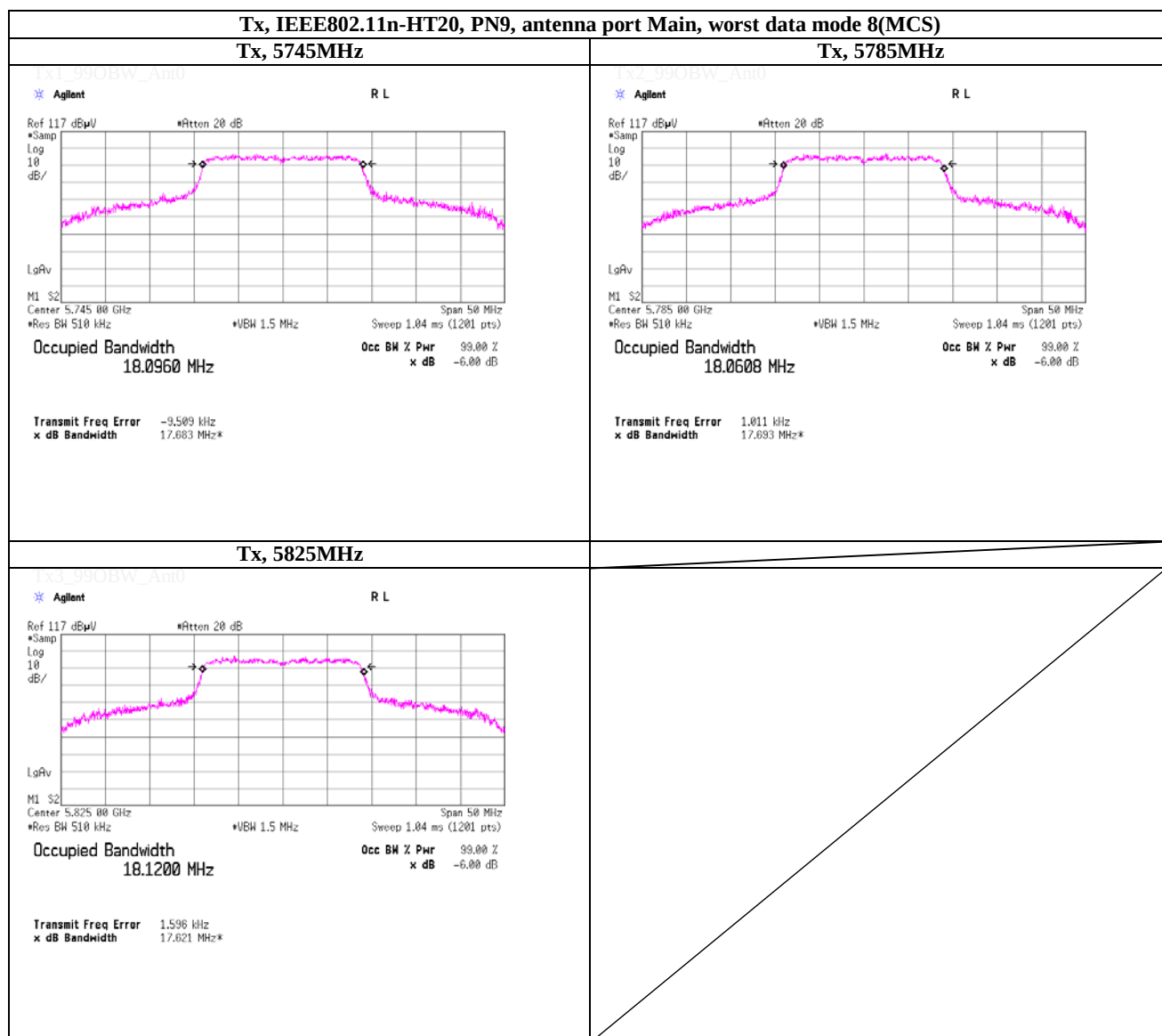
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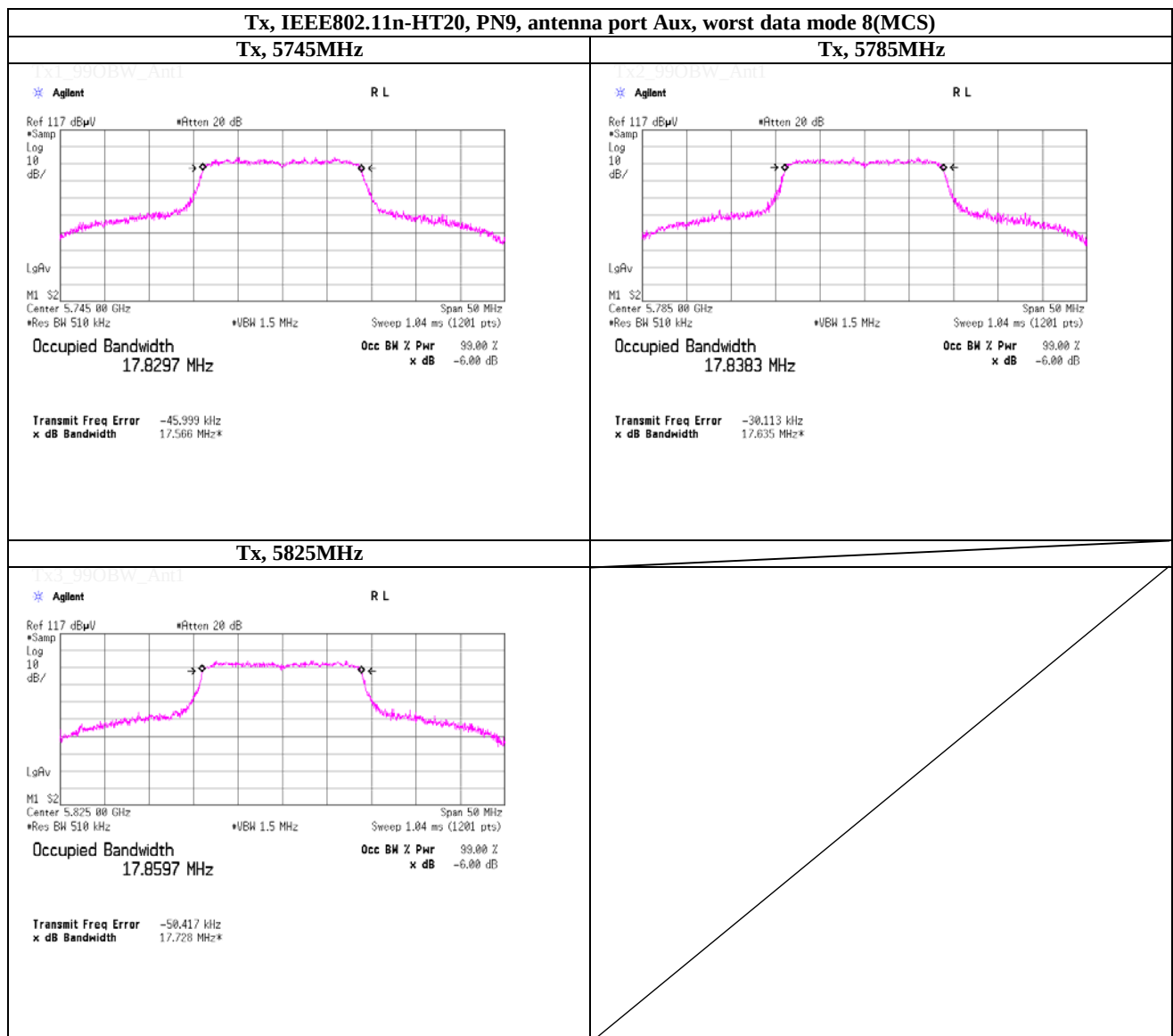
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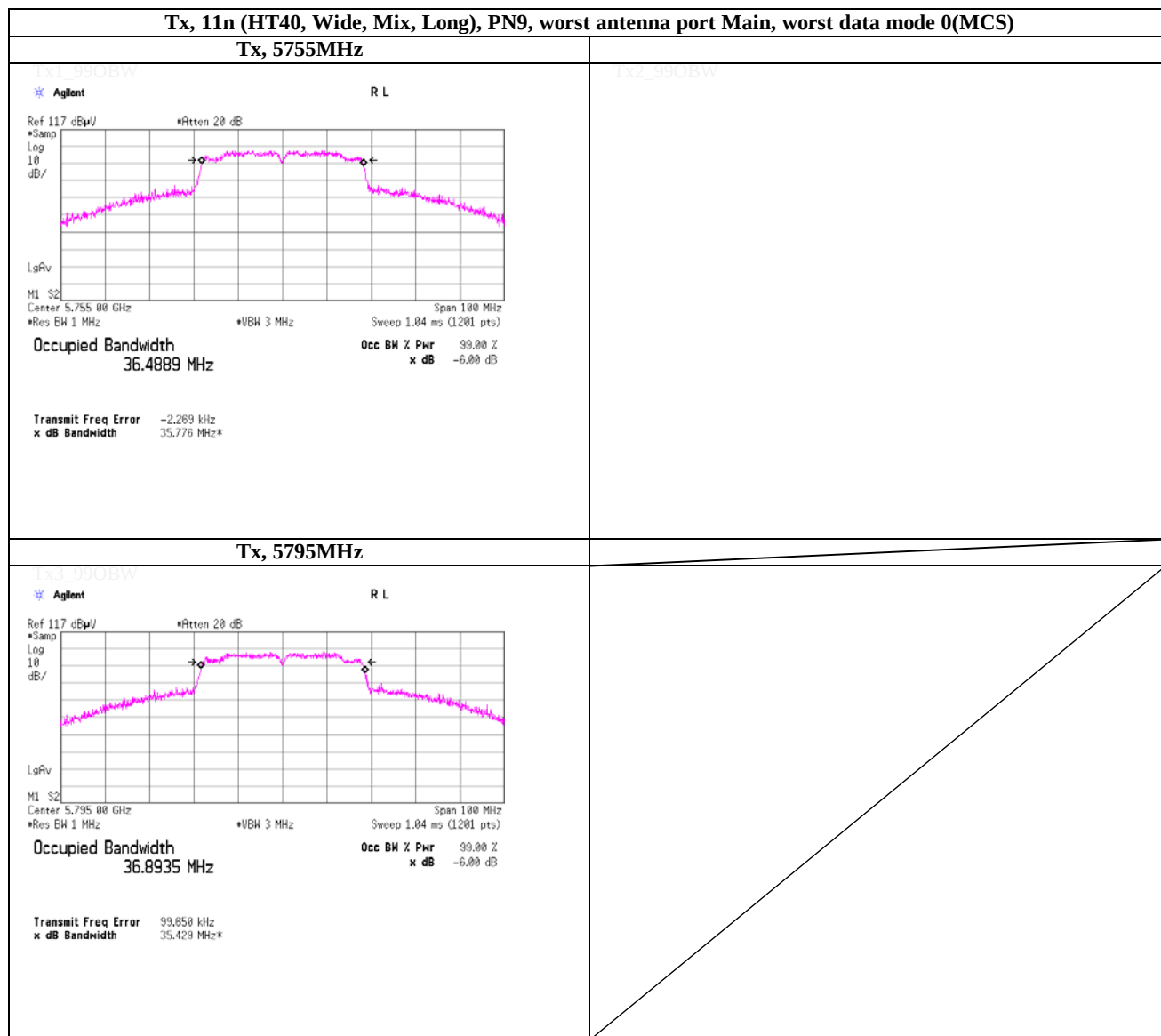
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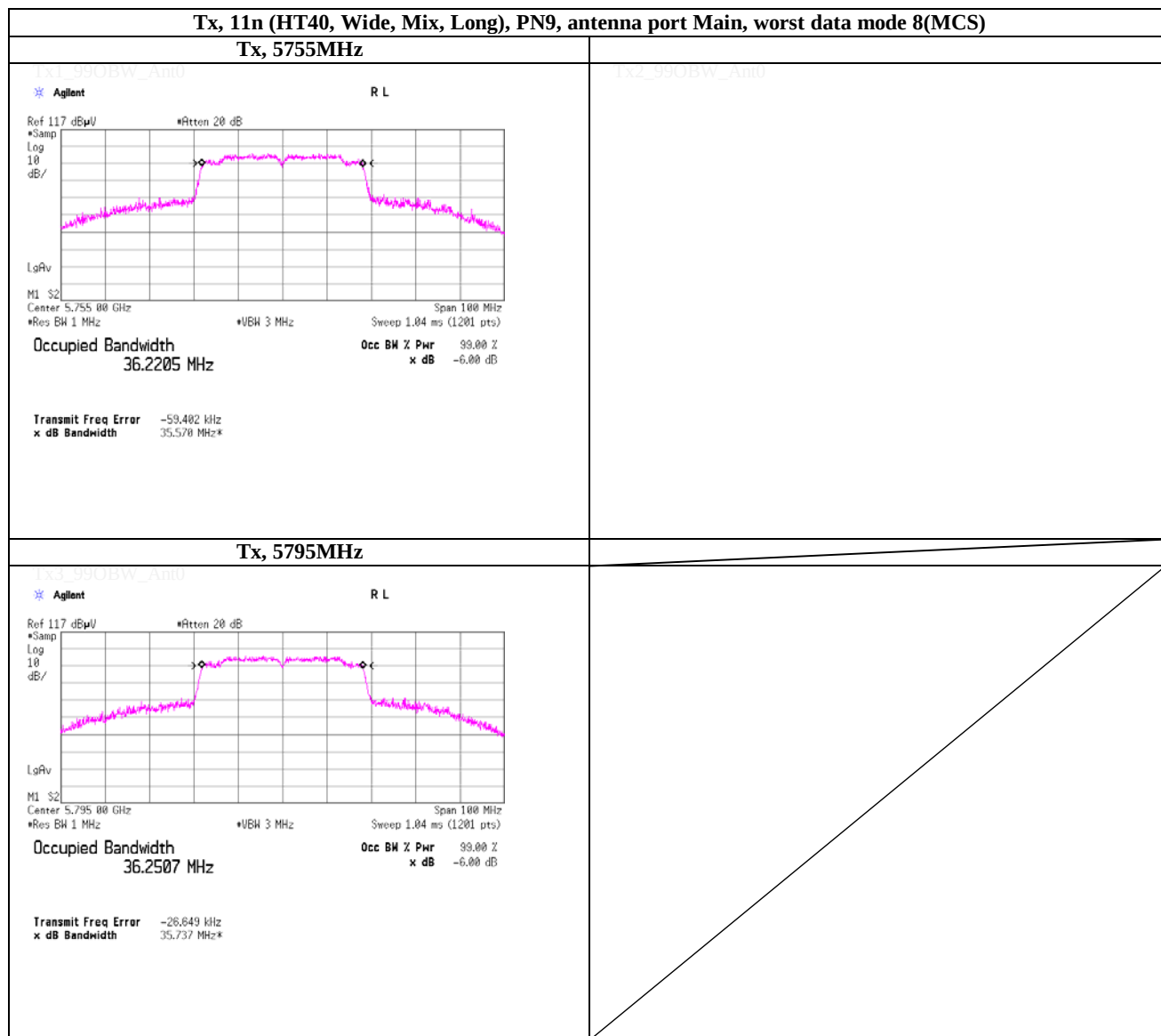
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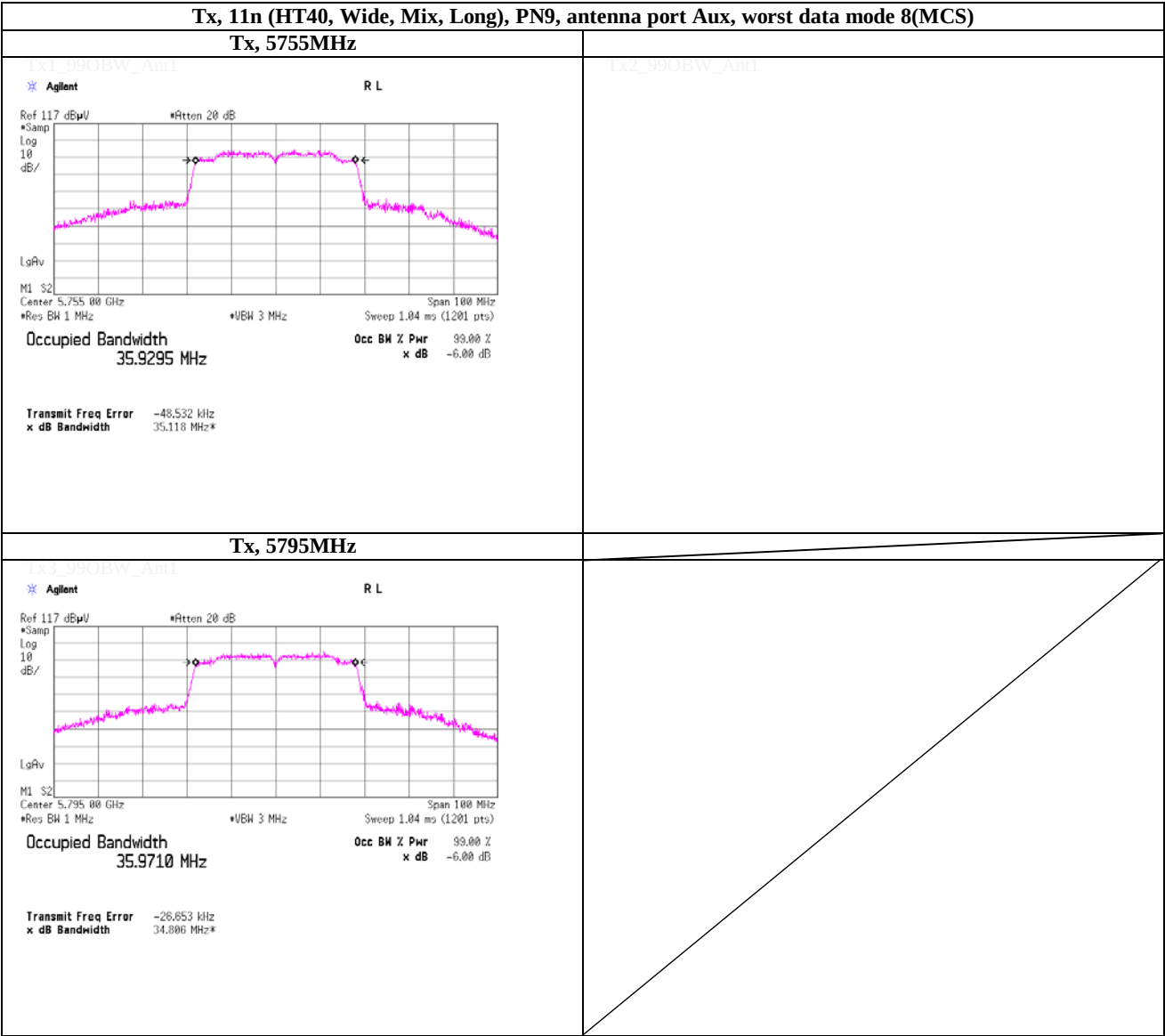
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APPENDIX 2

Test Instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	AT, RE	2012/03/16 * 12
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	AT	2011/12/05 * 12
SCC-G27	Coaxial Cable	Junkosha	MWX241-01000KM SKMS	SEP-20-12-001	AT	2012/09/26 * 12
SAT10-09	Attenuator	Weinschel Corp.	54A-10	W5692	AT	2012/11/15 * 12
SAT20-05	Attenuator	Weinschel Corp.	54A-20	Y5649	AT	2012/11/15 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	2012/03/26 * 12
SCC-H4	Microwave cable	Hirose Electric	U.FL-2LP-066J1-A-(200)	-	AT	Pre Check
SCC-H5	Microwave cable	Hirose Electric	U.FL-2LP-066J1-A-(200)	-	AT	Pre Check
STM-G4	Terminator	Weinschel	M1459A	U6592	AT	2012/07/18 * 12
KPM-08	Power meter	Anritsu	ML2495A	6K00003356	AT	2012/09/14 * 12
KPSS-04	Power sensor	Anritsu	MA2411B	012088	AT	2012/09/14 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2012/09/21 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2012/07/18 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	2012/04/10 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2012/05/22 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2012/08/17 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2012/02/06 * 12
SJM-11	Measure	PROMART	SEN1935	-	RE, CE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFL,MF)	-	RE, CE	-
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2011/12/27 * 12
SAT10-05	Attenuator(above1GHz)	Agilent	8493C-010	74864	RE	2011/12/27 * 12
SAT10-06	Attenuator	Agilent	8493C-010	74865	RE	2011/12/27 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2011/12/27 * 12
SFL-03	Highpass Filter	MICRO-TRONICS	HPM50112	028	RE	2011/12/27 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2012/03/30 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2012/03/12 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2012/03/12 * 12
SAEC-01(NSA)	Semi-Anechoic Chamber	TDK	SAEC-01(NSA)	1	RE	2012/09/11 * 12
SOS-01	Humidity Indicator	A&D	AD-5681	4062555	RE	2012/02/06 * 12
SJM-08	Measure	PROMART	SEN1935	-	RE	-
SCC-G19	Coaxial Cable	Suhner	SUCOFLEX 102A	1188/2A	RE	2012/03/12 * 12
SAF-10	Pre Amplifier	TOYO Corporation	HAP26-40W	00000010	RE	2012/03/12 * 12
SHA-06	Horn Antenna	ETS LINDGREN	3160-10	LM3459	RE	2012/03/30 * 12

The expiration date of the calibration is the end of the expired month .
 As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

CE: Conducted emission ,

RE: Radiated emission ,

AT: Antenna terminal conducted tests

APPENDIX 2

Test Instruments

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2012/10/08 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2012/10/08 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2012/02/10 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	RE	2012/04/10 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2012/02/10 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2012/06/14 * 12
STR-06	Test Receiver	Rohde & Schwarz	ESCI	101259	RE, CE	2012/02/07 * 12
SAT6-07	Attenuator	JFW	50HF-006N	-	RE	2012/02/17 * 12
SCC-C9/C10/SRSE-03	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-271(RF Selector)	CE	2012/04/10 * 12
SLS-05	LISN	Rohde & Schwarz	ENV216	100516	CE	2012/02/23 * 12
SAT3-03	Attenuator	JFW	50HF-003N	-	CE	2012/02/17 * 12
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	CE	2012/03/26 * 12

The expiration date of the calibration is the end of the expired month .

As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

CE: Conducted emission,

RE: Radiated emission,

AT: Antenna terminal conducted tests